Comune di
ISOLA DEL LIRI
(Provincia di FROSINONE)

MESSA IN SICUREZZA DELLA SCUOLA GARIBALDI
DI VIA VALCATOIO.
DM 23/01/2015

PROGETTO ESECUTIVO

ALL_S_05

RELAZIONE DI CALCOLO ANTE OPERAM
BLOCCO 3

Data

Scala_ VARIE

IL PROGETTISTA

_____

2S.I. Software e Servizi per l'Ingegneria s.r.l.

PRO_SAP

PROfessional **S**tructural **A**nalysis **P**rogram

RELAZIONE DI CALCOLO ANTE OPERAM

BLOCCO 3

Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 14 Gennaio 2008 cap. 10 "Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo".

2S.I. Software e Servizi per l'Ingegneria S.r.l.

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 44121 Ferrara FE (Italy)

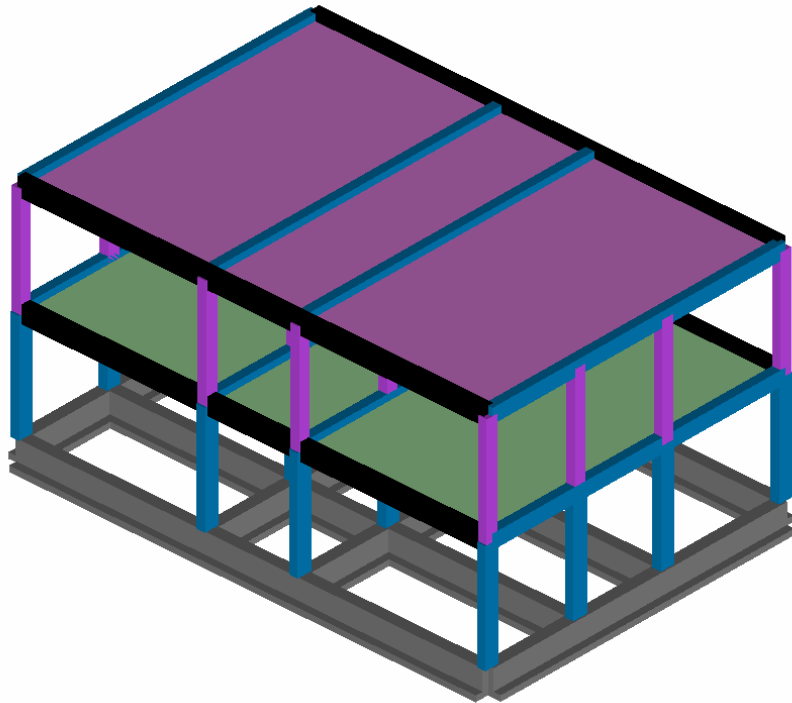Tel. +39 0532 200091

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D.M. 14/01/08 cap. 10.2 Affidabilità dei codici utilizzati

http://www.2si.it/software/Affidabilità.htm

INTESTAZIONE E CONTENUTI DELLA RELAZIONE

MODELLO

Contenuti della relazione:
RELAZIONE DI CALCOLO STRUTTURALE
- *Origine e Caratteristiche dei Codici di Calcolo*

- *Affidabilità dei codici utilizzati*

- *Validazione dei codici*

- *Tipo di analisi svolta*

- *Modalità di presentazione dei risultati*

- *Informazioni generali sull'elaborazione*

- *Giudizio motivato di accettabilità dei risultati*

STAMPA DEI DATI DI INGRESSO
- *Normative prese a riferimento*

- *Criteri adottati per le misure di sicurezza*

- *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconessioni*

- *Interazione tra terreno e struttura*

- *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*

- *Schematizzazione delle azioni, condizioni e combinazioni di carico*

- *Metodologie numeriche utilizzate per l' analisi strutturale*

-Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali

STAMPA DEI RISULTATI

Il Progettista:

RELAZIONE DI CALCOLO STRUTTURALE

Premessa

La presente relazione di calcolo strutturale, in conformità al §10.1 del DM 14/01/08, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Nella presente parte sono riportati i principali elementi di inquadramento del progetto esecutivo riguardante le strutture, in relazione agli strumenti urbanistici, al progetto architettonico, al progetto delle componenti tecnologiche in generale ed alle prestazioni attese dalla struttura.

Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	SCOLASTICO
Ubicazione	Comune di ISOLA DEL LIRI (FR) (Regione LAZIO)
	Località ISOLA DEL LIRI (FR)
	Longitudine 13.579, Latitudine 41.680
Tipo di fondazione	SUPERFICIALE

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
III	50.0	1.5	75.0

Fattore di struttura
Q=1.00 EDIFICIO ESISTENTE ANALISI PUSHOVER

Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo "normativa di riferimento" è comunque presente l'elenco completo delle normative disponibili.

Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 14-01-2008
Progetto acciaio	D.M. 14-01-2008
Progetto legno	D.M. 14-01-2008
Progetto muratura	D.M. 14-01-2008
Azione sismica	
Norma applicata per l' azione sismica	D.M. 14-01-2008

Livelli di conoscenza e fattori di confidenza

Il livello di conoscenza, per edifici esistenti è LC 2

Pertanto il fattore di confidenza è FC 2

Azioni di progetto sulla costruzione

Nei capitoli "**modellazione delle azioni**" **e "schematizzazione dei casi di carico**" sono indicate le azioni sulla costruzioni.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico,dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti; le configurazioni studiate per la struttura in esame *sono risultate effettivamente esaustive per la progettazione-verifica.*

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

K * u = **F**   dove   **K** = matrice di rigidezza

                         u = vettore spostamenti nodali

                         F = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

·   Elemento tipo **TRUSS**   (biella-D2)

·   Elemento tipo **BEAM**   (trave-D2)

·   Elemento tipo **MEMBRANE**   (membrana-D3)

·   Elemento tipo **PLATE**   (piastra-guscio-D3)

·   Elemento tipo **BOUNDARY**   (molla)

·   Elemento tipo **STIFFNESS**   (matrice di rigidezza)

·   Elemento tipo **BRICK**   (elemento solido)

·   Elemento tipo **SOLAIO**   (macro elemento composto da più membrane)

Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 delle NTC-08, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale	
Statica lineare	NO
Statica non lineare	SI
Sismica statica lineare	SI
Sismica dinamica lineare	NO
Sismica statica non lineare (prop. masse)	SI
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	SI
Non linearità geometriche (fattore P delta)	NO

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2016-10-175)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati
2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche. E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: http://www.2si.it/Software/Affidabilità.htm

Modellazione della geometria e proprietà meccaniche:	
nodi	48
elementi D2 (per aste, travi, pilastri…)	92
elementi D3 (per pareti, platee, gusci…)	0
elementi solaio	6
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	433.02
Xmax =	2051.52
Ymin =	1185.07
Ymax =	2277.57
Zmin =	0.00
Zmax =	752.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	NO
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	SI

Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

Modellazione delle azioni

Si veda il capitolo **"Schematizzazione dei casi di carico"** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte *"2.6. Azioni di progetto sulla costruzione"*.

Combinazioni e/o percorsi di carico

Si veda il capitolo **"Definizione delle combinazioni"** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	SI

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

2.8.1. Risultati dell'analisi modale

Viene riportato il tipo di analisi modale condotta, restituiti i risultati della stessa e valutate le informazioni desumibili in merito al comportamento della struttura.

2.8.2. Deformate e sollecitazioni per condizioni di carico

Vengono riportati i principali risultati atti a descrivere il comportamento della struttura, in termini di stati di sollecitazione e di deformazione generalizzata, distinti per condizione elementare di carico o per combinazioni omogenee delle stesse.

2.8.3. Inviluppo delle sollecitazioni maggiormente significative. L'analisi e la restituzione degli inviluppi (nelle combinazioni considerate agli SLU e agli SLE) delle caratteristiche di sollecitazione devono essere finalizzate alla valutazione dello stato di sollecitazione nei diversi elementi della struttura.

2.8.4. Reazioni vincolari

Vengono riportate le reazioni dei vincoli nelle singole condizioni di carico e/o nelle combinazioni considerate.

2.8.5. Altri risultati significativi

Nella presente parte vengono riportati tutti gli altri risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura.

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura)

- configurazioni deformate
- diagrammi e inviluppi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni abnormi. Si può pertanto asserire che l' elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione

e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

RELAZIONE SUI MATERIALI

Il capitolo Materiali riportata informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
2. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
3. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
4. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
6. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
7. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
8. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
9. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
11. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
12. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
13. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
14. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
15. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
16. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
17. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
18. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
19. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
20. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
21. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
22. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
23. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
24. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
25. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
26. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
27. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
28. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
29. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi di calcolo semplificato per strutture di muratura non armata.
30. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
31. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
32. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.

UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

NOTA sul capitolo "normativa di riferimento": riporta l' elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO". Laddove nei capitoli successivi vengano richiamate norme antecedenti al DM 14.01.08 è dovuto o a progettazione simulata di edificio esistente o ad applicazione del punto 2.7 del DM 14.01.08

CARATTERISTICHE MATERIALI UTILIZZATI
LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale
Poisson	coefficiente di contrazione trasversale
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	*cemento armato*		
		Rck	resistenza caratteristica cubica
		Fctm	resistenza media a trazione semplice
2	*acciaio*		
		Ft	tensione di rottura a trazione
		Fy	tensione di snervamento
		Fd	resistenza di calcolo
		Fdt	resistenza di calcolo per spess. t>40 mm
		Sadm	tensione ammissibile
		Sadmt	tensione ammissibile per spess. t>40 mm
3	*muratura*		
		Resist. Fk	resistenza caratteristica a compressione
		Resist. Fvko	resistenza caratteristica a taglio
4	*legno*		
		Resist. fc0k	Resistenza caratteristica (tensione amm. per REGLES) per compressione
		Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
		Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
		Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
		Modulo E0,05	Modulo elastico parallelo caratteristico
		Lamellare	lamellare o massiccio

Vengono inoltre riportate le tabelle conteneti il riassunto delle nformazioni assegnate nei criteri di progetto in uso.

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO

63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI
74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

Test N°	Titolo
81	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
84	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA
86	VERIFICA NON SISMICA DELLE MURATURE (D.M. 87 TA)
87	VERIFICA NON SISMICA DELLE MURATURE (D.M. 2005 SL)
88	FATTORE DI STRUTTURA

Modellazione di strutture in legno

Test N°	Titolo
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
91	FATTORE DI STRUTTURA
92	VERIFICHE EC5
93	SNELLEZZE EC5

Id	Tipo / Note		Young	Poisson	G	Gamma	Alfa
		daN/cm2	daN/cm2		daN/cm2	daN/cm3	
1	Calcestruzzo Classe C25/30		3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05
	Rck	300.0					
	fctm	25.6					

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Composto con parete sismica	Composto con parete sismica				
Armatura						
Inclinazione Av [gradi]	90.00	90.00				
Angolo Av-Ao [gradi]	90.00	90.00				
Minima tesa	0.25	0.25				
Massima tesa	4.00	4.00				
Maglia unica centrale	No	No				
Unico strato verticale	No	No				
Unico strato orizzontale	No	No				
Copriferro [cm]	2.00	2.00				
Maglia V						
diametro	10	10				
passo	25	25				
diametro aggiuntivi	12	12				
Maglia O						
diametro	8	8				
passo	25	25				
diametro aggiuntivi	8	8				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Fattore di confidenza FC	0.0	0.0				
Verifiche con N costante	Si	Si				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Parete sismica						
Fattore amplificazione taglio V	1.50	1.50				
Hcrit. par. 7.4.4.5.1 [cm]	0.0	0.0				
Hcrit. par. 7.4.6.1.4 [cm]	0.0	0.0				
Usa diagramma di fig. 7.4.2	Si	No				
Vincolo lati	nessun lato	nessun lato				
Verifica come fascia	No	No				
Diametro di estremità	0	0				
Zona confinata						
Minima tesa	1.00	1.00				
Massima tesa	4.00	4.00				
Distanza barre [cm]	2.00	2.00				
Interferro	2	2				
Armatura inclinata						
Area barre [cm2]	0.0	0.0				
Angolo orizzontale [gradi]	0.0	0.0				
Distanza di base [cm]	0.0	0.0				
Resistenza al fuoco						
3- intradosso	No	No				

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
3+ estradosso	No	No				
Tempo di esposizione R	15	15				

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0	0.0				
Angolo Ax-Ay [gradi]	90.00	90.00				
Minima tesa	0.31	0.20				
Massima tesa	0.78	0.78				
Maglia unica centrale	No	No				
Copriferro [cm]	2.00	2.00				
Maglia x						
diametro	10	10				
passo	20	20				
diametro aggiuntivi	12	12				
Maglia y						
diametro	10	10				
passo	20	20				
diametro aggiuntivi	12	12				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Fattore di confidenza FC	0.0	0.0				
Verifiche con N costante	Si	Si				
Applica SLU da DIN	No	No				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Resistenza al fuoco						
3- intradosso	No	No				
3+ estradosso	No	No				
Tempo di esposizione R	15	15				

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	No	No				
Af inf: da q*L*L /	0.0	0.0				
Armatura						
Minima tesa	0.31	0.20				
Minima compressa	0.31	0.20				
Massima tesa	0.78	0.78				
Da sezione	Si	Si				
Usa armatura teorica	No	No				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tensione fy staffe [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Fattore di confidenza FC	0.0	0.0				
Verifiche con N costante	Si	Si				
Fattore di ridistribuzione	0.0	0.0				
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander				
Incrudimento acciaio	5.000e-03	5.000e-03				
Fattore lambda	1.00	1.00				
epsilon max,s	4.000e-02	4.000e-02				
epsilon cu2	4.500e-03	4.500e-03				
epsilon c2	0.0	0.0				
epsilon cy	0.0	0.0				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Staffe						
Diametro staffe	0.0	0.0				
Passo minimo [cm]	4.00	5.00				
Passo massimo [cm]	30.00	30.00				
Passo raffittito [cm]	15.00	15.00				
Lunghezza zona raffittita [cm]	50.00	50.00				
Ctg(Teta) Max	2.50	2.50				
Percentuale sagomati	0.0	0.0				
Luce di taglio per GR [cm]	1.00	1.00				
Adotta scorrimento medio	No	No				
Torsione non essenziale inclusa	Si	Si				

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati	Privilegia lati				
Progetta a filo	No	No				
Effetti del 2 ordine	Si	Si				
Beta per 2-2	1.00	1.00				
Beta per 3-3	1.00	1.00				
Armatura						
Massima tesa	4.00	4.00				
Minima tesa	1.00	1.00				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tensione fy staffe [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Fattore di confidenza FC	0.0	0.0				
Verifiche con N costante	Si	Si				
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander				
Incrudimento acciaio	5.000e-03	5.000e-03				
Fattore lambda	1.00	1.00				
epsilon max,s	4.000e-02	4.000e-02				
epsilon cu2	4.500e-03	4.500e-03				
epsilon c2	0.0	0.0				
epsilon cy	0.0	0.0				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Staffe						
Diametro staffe	0.0	0.0				
Passo minimo [cm]	5.00	5.00				
Passo massimo [cm]	25.00	25.00				
Passo raffittito [cm]	15.00	15.00				
Lunghezza zona raffittita [cm]	45.00	45.00				
Ctg(Teta) Max	2.50	2.50				
Luce di taglio per GR [cm]	1.00	1.00				
Massimizza gerarchia	Si	Si				

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	No	No				
Af inf: da traliccio	Si	Si				
Consenti armatura a taglio	No	No				
Incrementa armatura longitudinale per taglio	Si	Si				
Af inf: da q*L*L /	20.00	20.00				
Incremento fascia piena [cm]	5.00	5.00				
Armatura						
Minima tesa	0.15	0.15				
Massima tesa	3.00	3.00				

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Minima compressa	0.0	0.0				
Af/h [cm]	7.000e-02	7.000e-02				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Fattore di ridistribuzione	0.0	0.0				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Verifica freccia						
Infinita	250.00	500.00				
Istantanea	500.00	1000.00				
Fattore viscosità	3.00	3.00				
Usa J non fessurato	No	No				
Elementi non strutturali						
Tamponatura antiespulsione	No	Si				
Tamponatura con armatura	No	No				
Fattore di struttura	2.00	2.00				
Coefficiente gamma m	0.0	0.0				
Periodo Ta	0.0	0.0				
Altezza pannello	0.0	0.0				

MODELLAZIONE DELLE SEZIONI
LEGENDA TABELLA DATI SEZIONI
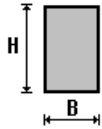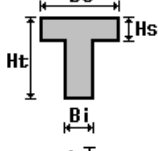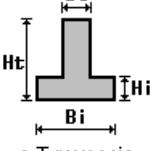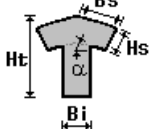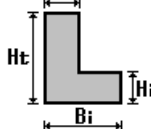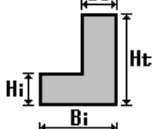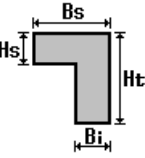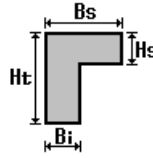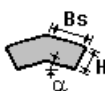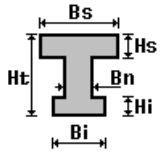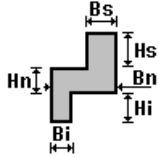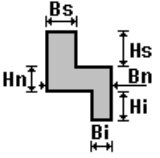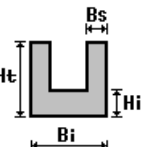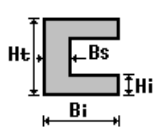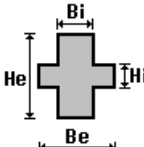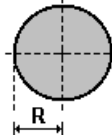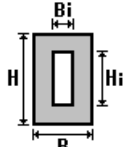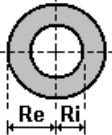
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1	sezione di tipo generico
2	profilati semplici
3	profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

rettangolare	a T	a T rovescia	a T di colmo	a L	a L specchiata
a L specchiata rovescia	a L rovescia	a L di colmo	a doppio T	a quattro specchiata	a quattro
a U	a C	a croce	circolare	rettangolare cava	circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilatari.

Per quanto concerne le sezioni di tipo generico (tipo 1.):
  i valori dimensionali con prefisso B sono riferiti all'asse 2
  i valori dimensionali con prefisso H sono riferiti all'asse 3

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
2	Rettangolare: b=30.00 h =50.00	1500.00	1250.00	1250.00	2.799e+05	1.125e+05	3.125e+05	7500.00	1.250e+04	1.125e+04	1.875e+04
12	T rovescia: bi=90 ht=90 bs=40 hi=20	4600.00	0.0	0.0	1.589e+06	1.588e+06	3.422e+06	3.530e+04	6.505e+04	6.850e+04	1.098e+05
13	T ribassata: bi=12.00 ht=24.00 bs=50.00 hs=4.00	440.00	0.0	0.0	1.048e+04	4.455e+04	2.398e+04	1781.87	1551.37	2138.24	1861.65
14	Rettangolare: b=30 h=60	1800.00	1500.00	1500.00	3.699e+05	1.350e+05	5.400e+05	9000.00	1.800e+04	1.350e+04	2.700e+04
15	Rettangolare: b=30 h=40	1200.00	1000.00	1000.00	1.946e+05	9.000e+04	1.600e+05	6000.00	8000.00	9000.00	1.200e+04

MODELLAZIONE STRUTTURA: NODI

LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.
Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).
Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,…) eventuale codice del tipo di fondazione speciale (1, 2,… fanno riferimento alle tipologie: plinto, palo, plinto su pali,…) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 14/01/08

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	433.0	1512.6	752.0	2	433.0	1838.1	0.0	3	433.0	1838.1	375.0
4	433.0	1838.1	752.0	5	433.0	2277.6	0.0	6	433.0	2277.6	375.0
7	433.0	2277.6	752.0	8	1078.8	1185.1	0.0	9	1078.8	1185.1	375.0
10	1078.8	1185.1	752.0	11	1078.8	1512.6	0.0	12	1078.8	1512.6	375.0
13	1078.8	1512.6	752.0	14	1078.8	1838.1	0.0	15	1078.8	1838.1	375.0
16	1078.8	1838.1	752.0	17	1078.8	2277.6	0.0	18	1078.8	2277.6	375.0
19	1078.8	2277.6	752.0	20	1400.3	1185.1	0.0	21	1400.3	1185.1	375.0
22	1400.3	1185.1	752.0	23	1400.3	1512.6	0.0	24	1400.3	1512.6	375.0
25	1400.3	1512.6	752.0	26	1400.3	1838.1	0.0	27	1400.3	1838.1	375.0
28	1400.3	1838.1	752.0	29	1400.3	2277.6	0.0	30	1400.3	2277.6	375.0
31	1400.3	2277.6	752.0	32	2051.5	1185.1	0.0	33	2051.5	1185.1	375.0
34	2051.5	1185.1	752.0	35	2051.5	1512.6	0.0	36	2051.5	1512.6	375.0
37	2051.5	1512.6	752.0	38	2051.5	1838.1	0.0	39	2051.5	1838.1	375.0
40	2051.5	1838.1	752.0	41	2051.5	2277.6	0.0	42	2051.5	2277.6	375.0
43	2051.5	2277.6	752.0	44	433.0	1185.1	0.0	45	433.0	1185.1	375.0
46	433.0	1185.1	752.0	47	433.0	1512.6	0.0	48	433.0	1512.6	375.0

MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.
Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.
Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.

orientamento elementi 2D non verticali

orientamento elementi 2D verticali

In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
2	TRAVI A UNA CAMPATA
3	TRAVE A PIU' CAMPATE
4	TRAVE A UNA CAMPATA SU TERRENO ALLA WINKLER
5	TRAVI SU TERRENO ALLA WINKLER CON CARICO TRASVERSALE
6	TELAI PIANI CON CERNIERE ALLA BASE
7	TELAI PIANI CON INCASTRI ALLA BASE
11	STRUTTURE SOGGETTE A VARIAZIONI TERMICHE
12	STRUTTURE SU TERRENO ALLA WINKLER SOTTOPOSTE A CARICHI DISTRIBUITI TRIANGOLARI
21	DRILLING
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE
42	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
43	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
44	VERIFICA ALLE TA DI STRUTTURE IN C.A.
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
47	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	FATTORE DI STRUTTURA
53	SOVRARESISTENZE
54	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO

59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P-δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P-δ SU TELAIO 3D
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
102	SNELLEZZE EC5
130	PROGETTO E VERIFICA DI TRAVI PREM

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Trave f.	29	41	1	12				1.00	1.00
2	Trave f.	5	17	1	12				1.00	1.00
3	Trave f.	26	38	1	12				1.00	1.00
4	Trave f.	8	20	1	12				1.00	1.00
5	Trave f.	23	35	1	12				1.00	1.00
6	Trave f.	11	23	1	12				1.00	1.00
7	Trave f.	14	26	1	12				1.00	1.00
8	Trave f.	47	11	1	12				1.00	1.00
9	Trave f.	2	14	1	12				1.00	1.00
10	Trave	45	48	1	2					
11	Trave	48	3	1	2					
12	Trave	3	6	1	2					
13	Trave	33	36	1	2					
14	Trave	36	39	1	2					
15	Trave	39	42	1	2					
16	Trave	45	9	1	14					
17	Trave	9	21	1	14					
18	Trave	21	33	1	14					
19	Trave	6	18	1	14					
20	Trave	18	30	1	14					
21	Trave	30	42	1	14					
22	Trave	9	12	1	2					
23	Trave	12	15	1	2					
24	Trave	15	18	1	2					
25	Trave	27	30	1	2					
26	Trave	24	27	1	2					
27	Trave	21	24	1	2					
28	Pilas.	44	45	1	2	90.00				
29	Pilas.	45	46	1	15	90.00				
30	Pilas.	47	48	1	2	90.00				
31	Pilas.	48	1	1	15	90.00				
32	Pilas.	2	3	1	2	90.00				
33	Pilas.	3	4	1	15	90.00				
34	Pilas.	5	6	1	2	90.00				
35	Pilas.	6	7	1	15	90.00				
36	Pilas.	8	9	1	2	90.00				
37	Pilas.	9	10	1	15	90.00				
38	Pilas.	11	12	1	2	90.00				
39	Pilas.	12	13	1	15	90.00				
40	Pilas.	14	15	1	2	90.00				
41	Pilas.	15	16	1	15	90.00				
42	Pilas.	17	18	1	2	90.00				
43	Pilas.	18	19	1	15	90.00				
44	Pilas.	20	21	1	2	90.00				

45	Pilas.	21	22	1	15	90.00		
46	Pilas.	23	24	1	2	90.00		
47	Pilas.	24	25	1	15	90.00		
48	Pilas.	26	27	1	2	90.00		
49	Pilas.	27	28	1	15	90.00		
50	Pilas.	29	30	1	2	90.00		
51	Pilas.	30	31	1	15	90.00		
52	Pilas.	32	33	1	2	90.00		
53	Pilas.	33	34	1	15	90.00		
54	Pilas.	35	36	1	2	90.00		
55	Pilas.	36	37	1	15	90.00		
56	Pilas.	38	39	1	2	90.00		
57	Pilas.	39	40	1	15	90.00		
58	Pilas.	41	42	1	2	90.00		
59	Pilas.	42	43	1	15	90.00		
60	Trave f.	2	5	1	12		1.00	1.00
61	Trave f.	47	2	1	12		1.00	1.00
62	Trave f.	44	47	1	12		1.00	1.00
63	Trave f.	44	8	1	12		1.00	1.00
64	Trave f.	8	11	1	12		1.00	1.00
65	Trave f.	11	14	1	12		1.00	1.00
66	Trave f.	14	17	1	12		1.00	1.00
67	Trave f.	17	29	1	12		1.00	1.00
68	Trave f.	26	29	1	12		1.00	1.00
69	Trave f.	23	26	1	12		1.00	1.00
70	Trave f.	20	23	1	12		1.00	1.00
71	Trave f.	20	32	1	12		1.00	1.00
72	Trave f.	32	35	1	12		1.00	1.00
73	Trave f.	35	38	1	12		1.00	1.00
74	Trave f.	38	41	1	12		1.00	1.00
75	Trave	46	1	1	2			
76	Trave	1	4	1	2			
77	Trave	4	7	1	2			
78	Trave	34	37	1	2			
79	Trave	37	40	1	2			
80	Trave	40	43	1	2			
81	Trave	46	10	1	14			
82	Trave	10	22	1	14			
83	Trave	22	34	1	14			
84	Trave	7	19	1	14			
85	Trave	19	31	1	14			
86	Trave	31	43	1	14			
87	Trave	10	13	1	2			
88	Trave	13	16	1	2			
89	Trave	16	19	1	2			
90	Trave	28	31	1	2			
91	Trave	25	28	1	2			
92	Trave	22	25	1	2			

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.
Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.
L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.
I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.
L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico **Variab.** Carico variabile generico **Var. rid.** Carico variabile generico con riduzione in funzione dell' area (c.5.5. …) **Neve** Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: **per valore raro**
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: **per valore frequente**
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: **per valore quasi permanente**
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: **per la definizione delle masse sismiche**
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

Elem	numero dell'elemento
Tipo	codice di comportamento **S** elemento utilizzato solo per scarico **C** elemento utilizzato per scarico e per modellazione piano rigido **P** elemento utilizzato come pannello **M** scarico monodirezionale **B** scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce instantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
	simboli utilizzati con il metodo delle tensioni ammissibili:
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
	simboli utilizzati con il metodo degli stati limite:

x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto Sd/Su con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto Sd/Su con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 14.01.2008 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):
- **Tamponatura Antiespulsione ordinaria Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [52].
- **Tamponatura Antiespulsione armata Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.
(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica
pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2008 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
14	**ANALISI DEI CARICHI PER UN SOLAIO DI COPERTURA**
15	**EFFETTI DELLO SPESSORE SULLA RIGIDEZZA DEI SOLAI**
16	**SOLAIO: CONFRONTO FRA RIGIDO E DEFORMABILE**
17	**SOLAIO: MISTO LEGNO-CALCESTRUZZO**

ID Arch.	Tipo	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
4	Variab.	5.00e-02	1.00e-02	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
7	Neve	5.00e-02		2.00e-02		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
1	CM	4	m=1	4.0	0.0	5.00e-02	1.00e-02	3.00e-02	9	12	15	18	6
									3	48	45		
2	CM	4	m=1	4.0	0.0	5.00e-02	1.00e-02	3.00e-02	21	24	27	30	18
									15	12	9		
3	CM	4	m=1	4.0	0.0	5.00e-02	1.00e-02	3.00e-02	33	36	39	42	30
									27	24	21		
4	CM	7	m=1	4.0	0.0	5.00e-02		2.00e-02	10	13	16	19	7
									4	1	46		
5	CM	7	m=1	4.0	0.0	5.00e-02		2.00e-02	22	25	28	31	19
									16	13	10		
6	CM	7	m=1	4.0	0.0	5.00e-02		2.00e-02	34	37	40	43	31
									28	25	22		

MODELLAZIONE DELLE AZIONI
LEGENDA TABELLA DATI AZIONI
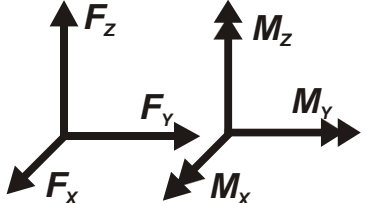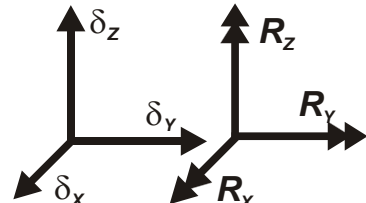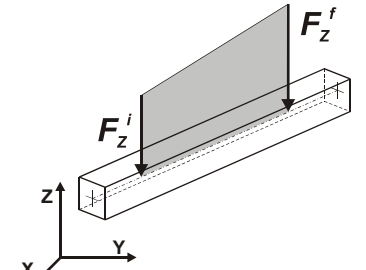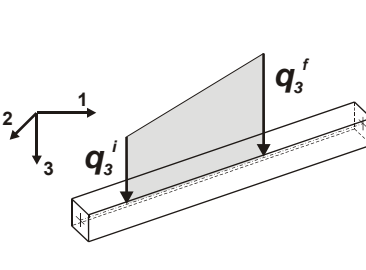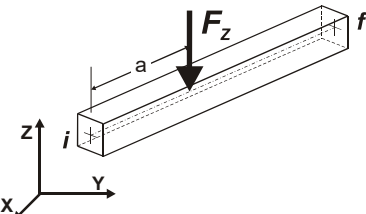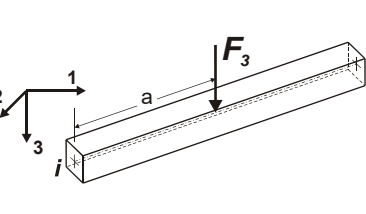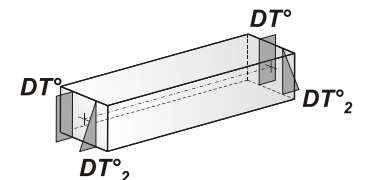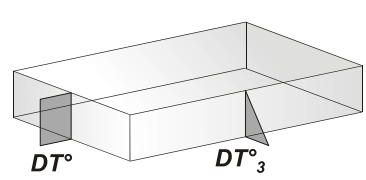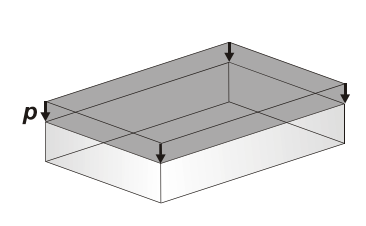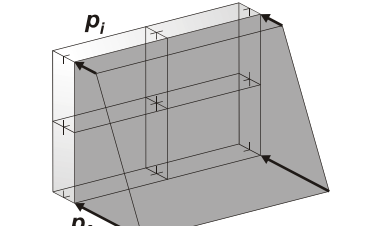
Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	**carico concentrato nodale**
	6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso**
	6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave**
	7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico)
	7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave**
	7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico)
	7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave**
	7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave**
	7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave**
	7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra**
	1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra**
	4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra**
	2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra**
	1 dato descrizione della tipologia
	4 dati per segmento (posizione, valore, posizione, valore)

la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave

12	**gruppo di carichi con impronta su piastra**
	9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi

F_Z F_Y F_X M_Z M_Y M_X Carico concentrato nodale	δ_Z δ_Y δ_X R_Z R_Y R_X Spostamento impresso
F_Z^f F_Z^i z Y X Carico distribuito globale	2 1 3 q_3^f q_3^i Carico distribuito locale
F_Z a f z i Y X Carico concentrato globale	2 1 3 a F_3 f i Carico concentrato locale
$DT°$ $DT°$ $DT°_2$ $DT°_2$ Carico termico 2D	$DT°$ $DT°_3$ Carico termico 3D
p Carico pressione uniforme	p_i p_f Carico pressione variabile

SCHEMATIZZAZIONE DEI CASI DI CARICO
LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.
Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	*Tipo*	*Descrizione*
1	Ggk	A	caso di carico comprensivo del peso proprio struttura
2	Gk	NA	caso di carico con azioni permanenti
3	Qk	NA	caso di carico con azioni variabili
4	Gsk	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	Qsk	A	caso di carico comprensivo dei carichi variabili sui solai
6	Qnk	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	Qtk	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	Qvk	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	Esk	SA	caso di carico sismico con analisi statica equivalente
10	Edk	SA	caso di carico sismico con analisi dinamica
11	Etk	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	Pk	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di <u>tipo automatico A</u> (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di <u>tipo semi-automatico SA</u> (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:
7-Qtk, in quanto richiede solo il valore della variazione termica;
9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo <u>non automatico NA</u> ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:
Numero Tipo e *Sigla identificativa*, *Valore di riferimento* del caso di carico (se previsto).

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. 0)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
7	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. 0)	come precedente CDC sismico
8	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. 0)	come precedente CDC sismico
9	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. 0)	come precedente CDC sismico
10	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. 0)	come precedente CDC sismico
11	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. 0)	come precedente CDC sismico
12	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. 0)	come precedente CDC sismico
13	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. 0)	come precedente CDC sismico

DEFINIZIONE DELLE COMBINAZIONI
LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.
Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: *Numero*, *Tipo*, *Sigla identificativa*. Una seconda tabella riporta il *peso nella combinazione* assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_P \cdot P + \gamma_{Q1} \cdot Q_{k1} + \gamma_{Q2} \cdot \psi_{02} \cdot Q_{k2} + \gamma_{Q3} \cdot \psi_{03} \cdot Q_{k3} + \ldots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \ldots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \ldots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \ldots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \ldots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \ldots$$

Dove:

NTC 2008 Tabella 2.5.I

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,…	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota <= 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),

- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2008 Tabella 2.6.I

		Coefficiente γf	EQU	A1	A2
Carichi permanenti	Favorevoli	$\gamma G1$	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	$\gamma G2$	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLE(r)	Comb. SLE(rara) 15	
16	SLE(r)	Comb. SLE(rara) 16	
17	SLE(r)	Comb. SLE(rara) 17	
18	SLE(r)	Comb. SLE(rara) 18	
19	SLE(r)	Comb. SLE(rara) 19	
20	SLE(r)	Comb. SLE(rara) 20	
21	SLE(r)	Comb. SLE(rara) 21	
22	SL (pushover)	Comb. SLU A1 (SLV sism.) 22	
23	SL (pushover)	Comb. SLU A1 (SLV sism.) 23	
24	SL (pushover)	Comb. SLU A1 (SLV sism.) 24	
25	SL (pushover)	Comb. SLU A1 (SLV sism.) 25	
26	SL (pushover)	Comb. SLE (SLD Danno sism.) 26	
27	SL (pushover)	Comb. SLE (SLD Danno sism.) 27	
28	SL (pushover)	Comb. SLE (SLD Danno sism.) 28	
29	SL (pushover)	Comb. SLE (SLD Danno sism.) 29	
30	SL (pushover)	Comb. SLU A1 (SLV sism.) 30	
31	SL (pushover)	Comb. SLU A1 (SLV sism.) 31	
32	SL (pushover)	Comb. SLU A1 (SLV sism.) 32	
33	SL (pushover)	Comb. SLU A1 (SLV sism.) 33	
34	SL (pushover)	Comb. SLE (SLD Danno sism.) 34	
35	SL (pushover)	Comb. SLE (SLD Danno sism.) 35	
36	SL (pushover)	Comb. SLE (SLD Danno sism.) 36	
37	SL (pushover)	Comb. SLE (SLD Danno sism.) 37	
38	SLE(f)	Comb. SLE(freq.) 38	
39	SLE(f)	Comb. SLE(freq.) 39	
40	SLE(f)	Comb. SLE(freq.) 40	
41	SLE(f)	Comb. SLE(freq.) 41	
42	SLE(f)	Comb. SLE(freq.) 42	
43	SLU(acc.)	Comb. SLU (Accid.) 43	
44	SLU(acc.)	Comb. SLU (Accid.) 44	
45	SLE(p)	Comb. SLE(perm.) 45	
46	SLE(p)	Comb. SLE(perm.) 46	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	1.00	1.00	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	1.00	1.00	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	1.00	1.00	0.0	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	1.00	1.00	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	1.00	1.00	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	1.00	1.00	0.0	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
20	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	
25	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	
26	1.00	1.00	1.00	0.60	0.0	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	
27	1.00	1.00	1.00	0.60	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
28	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	
29	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
30	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.0	
31	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
32	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	
33	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	
34	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	
35	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	
36	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	
37	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	
38	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	1.00	1.00	1.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	1.00	1.00	1.00	0.60	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in
condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.
Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito
http://esse1.mi.ingv.it/. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come
indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento Vr che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita
nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento Vr e la probabilità di superamento Pver
associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno Tr e i relativi parametri di pericolosità sismica (vedi tabella
successiva):
ag: accelerazione orizzontale massima del terreno;
Fo: valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;
T*c: periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

Parametri della struttura					
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]	Tipo di suolo	Categoria topografica
III	50.0	1.5	75.0	D	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:
S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche
mediante la relazione seguente S = Ss*St (3.2.5)
Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale
Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di
riferimento rigido orizzontale
Tb è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.
Tc è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.
Td è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	13.579	41.680	
29638	13.557	41.635	5.310
29639	13.624	41.635	6.226
29417	13.624	41.685	3.766
29416	13.557	41.685	1.903

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	45.0	0.081	2.380	0.280
SLD	63.0	75.0	0.105	2.330	0.290
SLV	10.0	712.0	0.257	2.350	0.340
SLC	5.0	1462.0	0.326	2.390	0.360

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.081	1.800	2.380	0.917	0.220	0.661	1.926
SLD	0.105	1.800	2.330	1.019	0.224	0.673	2.020
SLV	0.257	1.494	2.350	1.608	0.243	0.729	2.628
SLC	0.326	1.231	2.390	1.842	0.250	0.750	2.904

RISULTATI ANALISI SISMICHE
LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk	caso di carico sismico con analisi statica equivalente	
10. Edk	caso di carico sismico con analisi dinamica	

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l' azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore di struttura q	Fattore dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

a) **analisi sismica statica equivalente**:
   - quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
   - azione sismica complessiva
b) **analisi sismica dinamica con spettro di risposta**:
   - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo) , indici di regolarità e/r secondo EC8 4.2.3.2
   - frequenza, periodo,accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
   - massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione etaT, etaP e etaD degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità 1000*etaT/h da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo l' allegato 10.A dell'Ordinanza 3274 e smi. In particolare la tabella, per ogni combinazione SLU (SLC per il DM 14-01-2008) sismica riporta il codice di verifica e i valori utilizzati per la verifica: spostamento dE, area ridotta e dimensione A2, azione verticale, deformazioni di taglio dell' elastomero e tensioni nell' acciaio.

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta Ar (per dispositivi circolari)
V	Azione verticale agente
Ar	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elestomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

1) V > 0
2) Sig s < fyk
3) Gam t < 5
4) Gam s < Gam * (caratteristica dell' elastomero)
5) Gam s < 2
6) V < 0.5 Vcr

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-δ
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

CDC	Tipo	Sigla Id	Note
6	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. 0)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: D
			fattore di sito S = 1.494
			ordinata spettro (tratto Tb-Tc) = 0.902 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: nulla
			forze: proporzionali alla massa
			Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.284e+05	1.284e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.892e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
7	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.494
				ordinata spettro (tratto Tb-Tc) = 0.902 g
				angolo di ingresso:90.00
				eccentricità aggiuntiva: nulla
				forze: proporzionali alla massa
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.284e+05	1.284e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.892e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
8	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.800
				ordinata spettro (tratto Tb-Tc) = 0.440 g
				angolo di ingresso:0.0
				eccentricità aggiuntiva: nulla
				forze: proporzionali alla massa
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.284e+05	1.284e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.892e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
9	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.800
				ordinata spettro (tratto Tb-Tc) = 0.440 g
				angolo di ingresso:90.00
				eccentricità aggiuntiva: nulla
				forze: proporzionali alla massa
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.284e+05	1.284e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.892e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
10	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.494
				ordinata spettro (tratto Tb-Tc) = 0.902 g
				angolo di ingresso:0.0
				eccentricità aggiuntiva: nulla
				forze: come statica lineare
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.831e+05	1.831e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.345e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
11	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.494
				ordinata spettro (tratto Tb-Tc) = 0.902 g
				angolo di ingresso:90.00
				eccentricità aggiuntiva: nulla
				forze: come statica lineare
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.831e+05	1.831e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.345e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
12	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.800
				ordinata spettro (tratto Tb-Tc) = 0.440 g
				angolo di ingresso:0.0
				eccentricità aggiuntiva: nulla
				forze: come statica lineare
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.831e+05	1.831e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
375.00	1.345e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

CDC	Tipo	Sigla Id		Note
13	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. 0)		
				verifica esistenti: fattore FC 1.200
				categoria suolo: D
				fattore di sito S = 1.800
				ordinata spettro (tratto Tb-Tc) = 0.440 g
				angolo di ingresso:90.00
				eccentricità aggiuntiva: nulla
				forze: come statica lineare
				Taglio di calcolo 3175.9 [kN]

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	daN	daN	cm	cm	cm	cm	cm	cm			
752.00	1.831e+05	1.831e+05	1.284e+05	1241.99	1729.34	0.0	0.0	1240.89	1703.32	1.166	0.002	0.030
375.00	1.345e+05	3.176e+05	1.892e+05	1242.00	1728.31	0.0	0.0	1240.89	1703.32	1.121	0.002	0.024
Risulta	3.176e+05		3.176e+05									

LEGENDA TABELLA ANALISI SISMICHE NON LINEARI

Le analisi sismiche non lineari sono state condotte con riferimento al Capitolo 7.3.4.1 del D.M. 14 Gennaio 2008 e successive modifiche e integrazioni.

In particolare per i singoli casi di carico, oltre a quanto riportato nel capitolo precedente, si individuano:

- stato limite di interesse (SL CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)

- modalità di distribuzione delle forze (proporzionale alle masse, funzione della forma modale, approssimata come per statica lineare) e di calcolo dello spostamento del punto di controllo.

Le combinazioni sismiche non lineari sono definite in maniera automatica dal programma in base ai paragrafi 2.5.3 e 7.3.5 del DM 14 Gennaio 2008: l'analisi è svolta considerando l'azione sismica (di segno positivo e negativo) applicata separatamente secondo ciascuna delle due direzioni orizzontali.

I risultati delle analisi di seguito riportati sono pertanto:

- parametri di calcolo dell' azione sismica

- parametri di calcolo del sistema bilineare equivalente e domanda di spostamento effettivo della struttura

- curva forza complessiva applicata / spostamento del punto di controllo

Una prima tabella riassume i parametri di calcolo per l' azione sismica

CDC	Indice del caso di carico sismico
Tipo	Stato limite di interesse (CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)
Angolo ing.	Direzione di ingresso del sisma
Distribuzione F	Modalità di applicazione delle forze sismiche (proporzionale, modale, statica approssimata)
Nodo Dc	Nodo assunto come punto di controllo della curva forza spostamento.
Uso Dc	Modalità di calcolo dello spostamento del punto di controllo effettivo/mediato (valore medio del piano di appartenenza)
Modo/CDC	Forma modale adottata per il calcolo del fattore di partecipazione gamma e per l' eventuale distribuzione delle forze sismiche (se distribuzione = modale); ovvero caso di carico statico assunto come prima forma modale approssimata
Periodo	Periodo del modo adottato
M sismica x g	Massa effettiva
m*	Massa del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)

m* % stat.	Percentuale di massa partecipante statica (m* / massa)
m* % din.	Percentuale di massa partecipante dinamica (fattore di partecipazione del modo adottato nella direzione del sisma)
Part. Gamma	Fattore di partecipazione (circolare 2 febbraio 2009 paragrafo C7.3.4.1)

La seconda tabella riassume per tutte le combinazioni analizzate le caratteristiche dell' oscillatore equivalente e la domanda in termini di spostamento assunta per la struttura:

Cmb (LC)	Indice della combinazione di interesse con caso di carico considerato e verso (+/-)
Tipo	Stato limite di interesse (CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)
D<C	Controllo della condizione domanda inferiore a capacità (se **NO** d verif. è assunto pari a **d Ultimo** nella curva di capacità come riportato alla tabella successiva)
sup. Danno	Indica se elementi hanno superato lo spostamento interpiano di danno
sup. Rottura	Indica se elementi hanno superato lo spostamento interpiano ultimo
d verif.	Spostamento orizzontale effettivo del punto di controllo: prodotto di **gamma** e **d* max**; nel caso in cui D>C si assume convenzionalmente **d verif.** pari alla capacità ultima **dU** (vedi tabella successiva)
PGA verif.	Accelerazione corrispondente allo spostamento d verif.
F verif.	Taglio alla base corrispondente allo spostamento d verif.
Se(T*)	Accelerazione (ordinata spettro elastico) corrispondente a T*
d* max	Risposta in spostamento del sistema equivalente per l' azione sismica (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
q*	Rapporto tra forza di risposta elastica e forza di snervamento del sistema equivalente. (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
dy*	Spostamento limite elastico del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
Fy*	Resistenza del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
K*	Rigidezza del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
T*	Periodo del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)

Per ogni combinazione analizzata, viene di seguito riportata la curva di capacità della struttura per mezzo dei punti significativi:

Cmb (LC)	Indice della combinazione di interesse con caso di carico considerato e verso (+/-)
d D	Spostamento del punto di controllo in corrispondenza al superamento dello spostamento di interpiano (per la muratura se non attinto si assume **d M**)
d P1	Spostamento del punto di controllo in corrispondenza alla formazione della prima plasticità concentrata
d M	Spostamento del punto di controllo in corrispondenza al massimo taglio alla base

d U	Spostamento del punto di controllo in corrispondenza alla capacità ultima
d R	Spostamento del punto di controllo in corrispondenza al massimo spostamento dell'oscillatore equivalente
PGA	Accelerazione corrispondente agli spostamenti sopra riportati
F	Taglio alla base corrispondente agli spostamenti sopra riportati

e in forma integrale:

d Dc	Spostamento del punto di controllo
Tag. Fb	Taglio complessivo alla base relativo allo spostamento **d Dc**

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
86	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
89	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA

CDC	Tipo	Angolo ing.	Distribuzione F	Nodo Dc	Uso Dc	CDC	Periodo	M Sismica x g	m*	m* % stat	m* % din	Part. Gamma
		gradi					sec	daN	daN			
6	SLV-DS	0.0	Proporz.	31	Mediato	10		3.176e+05	2.218e+05	69.8		1.28
7	SLV-DS	90.0	Proporz.	31	Mediato	11		3.176e+05	2.252e+05	70.9		1.27
8	SLD-DL	0.0	Proporz.	31	Mediato	10		3.176e+05	2.218e+05	69.8		1.28
9	SLD-DL	90.0	Proporz.	31	Mediato	11		3.176e+05	2.252e+05	70.9		1.27
10	SLV-DS	0.0	Stat. equiv.	31	Mediato	10		3.176e+05	2.218e+05	69.8		1.28
11	SLV-DS	90.0	Stat. equiv.	31	Mediato	11		3.176e+05	2.252e+05	70.9		1.27
12	SLD-DL	0.0	Stat. equiv.	31	Mediato	12		3.176e+05	2.218e+05	69.8		1.28
13	SLD-DL	90.0	Stat. equiv.	31	Mediato	13		3.176e+05	2.252e+05	70.9		1.27

Cmb (LC)	Tipo	D<C	sup. Danno	sup. Rottura	d verif.	PGA verif.	F verif.	Se(T*)	d* max	q*	d y*	F y*	K*	T*
					cm	g	daN	g	cm		cm	daN	daN/cm	sec
22 (-6)	SLU-V	NO	SI	NO	-5.17	0.16	-9.496e+04	0.90	7.25	2.82	1.98	7.085e+04	3.580e+04	0.50
23 (6)	SLU-V	NO	SI	NO	5.17	0.16	9.496e+04	0.90	7.25	2.82	1.98	7.084e+04	3.580e+04	0.50
24 (-7)	SLU-V	NO	SI	NO	-4.98	0.25	-1.670e+05	0.90	4.03	1.63	1.77	1.250e+05	7.053e+04	0.36
25 (7)	SLU-V	NO	SI	NO	4.87	0.25	1.670e+05	0.90	4.06	1.63	1.79	1.249e+05	6.964e+04	0.36

Cmb (LC)	Tipo	D<C	sup. Danno	sup. Rottura	d verif.	PGA verif.	F verif.	Se(T*)	d* max	q*	d y*	F y*	K*	T*
26 (-8)	SLE-D	SI	SI	NO	-3.82	0.10	-9.210e+04	0.44	2.99	1.38	1.98	7.085e+04	3.580e+04	0.50
27 (8)	SLE-D	SI	SI	NO	3.82	0.10	9.210e+04	0.44	2.99	1.38	1.98	7.084e+04	3.580e+04	0.50
28 (-9)	SLE-D	SI	SI	NO	-1.80	0.11	-1.215e+05	0.44	1.40	0.79	1.77	1.250e+05	7.053e+04	0.36
29 (9)	SLE-D	SI	SI	NO	1.81	0.11	1.212e+05	0.44	1.42	0.79	1.79	1.249e+05	6.964e+04	0.36
30 (-10)	SLU-V	NO	SI	NO	-4.20	0.12	-8.511e+04	0.90	8.03	3.20	2.01	6.246e+04	3.110e+04	0.54
31 (10)	SLU-V	NO	SI	NO	4.20	0.12	8.511e+04	0.90	8.03	3.20	2.01	6.244e+04	3.110e+04	0.54
32 (-11)	SLU-V	NO	NO	NO	-3.50	0.18	-1.475e+05	0.90	4.66	1.85	1.78	1.096e+05	6.169e+04	0.38
33 (11)	SLU-V	NO	NO	NO	3.47	0.18	1.477e+05	0.90	4.70	1.85	1.80	1.096e+05	6.095e+04	0.39
34 (-12)	SLE-D	NO	SI	NO	-4.20	0.10	-8.511e+04	0.44	3.43	1.56	2.01	6.246e+04	3.110e+04	0.54
35 (12)	SLE-D	NO	SI	NO	4.20	0.10	8.511e+04	0.44	3.43	1.56	2.01	6.244e+04	3.110e+04	0.54
36 (-13)	SLE-D	SI	NO	NO	-2.07	0.11	-1.197e+05	0.44	1.61	0.90	1.78	1.096e+05	6.169e+04	0.38
37 (13)	SLE-D	SI	NO	NO	2.06	0.10	1.177e+05	0.44	1.63	0.90	1.80	1.096e+05	6.095e+04	0.39

Cmb (LC)	d D	PGA D	Fb D	d P1	PGA P1	Fb P1	d M	PGA M	Fb M	d U	PGA U	Fb U	d R	PGA R	Fb R
	cm	g	daN	cm	g	daN	cm	g	daN	cm	g	daN	cm	g	daN
22 (-6)	-3.64	0.12	-9.162e+04	-1.84	0.07	-6.574e+04	-5.17	0.16	-9.496e+04	-5.17	0.16	-9.496e+04	-5.17	0.16	-9.496e+04
23 (6)	3.63	0.12	9.162e+04	1.84	0.07	6.574e+04	5.17	0.16	9.496e+04	5.17	0.16	9.496e+04	5.17	0.16	9.496e+04
24 (-7)	-3.78	0.21	-1.618e+05	-0.75	0.05	-5.558e+04	-4.98	0.25	-1.670e+05	-4.98	0.25	-1.670e+05	-4.98	0.25	-1.670e+05
25 (7)	3.77	0.21	1.618e+05	0.82	0.06	6.066e+04	4.87	0.25	1.670e+05	4.87	0.25	1.670e+05	4.87	0.25	1.670e+05
26 (-8)	-3.64	0.10	-9.162e+04	-1.84	0.06	-6.574e+04	-5.17	0.14	-9.496e+04	-5.17	0.14	-9.496e+04	-5.17	0.14	-9.496e+04
27 (8)	3.63	0.10	9.162e+04	1.84	0.06	6.574e+04	5.17	0.14	9.496e+04	5.17	0.14	9.496e+04	5.17	0.14	9.496e+04
28 (-9)	-3.78	0.18	-1.618e+05	-0.75	0.04	-5.558e+04	-4.98	0.22	-1.670e+05	-4.98	0.22	-1.670e+05	-4.98	0.22	-1.670e+05
29 (9)	3.77	0.18	1.618e+05	0.82	0.05	6.066e+04	4.87	0.21	1.670e+05	4.87	0.21	1.670e+05	4.87	0.21	1.670e+05
30 (-10)	-3.73	0.11	-8.400e+04	-1.97	0.06	-6.066e+04	-4.20	0.12	-8.511e+04	-4.20	0.12	-8.511e+04	-4.20	0.12	-8.511e+04
31 (10)	3.72	0.11	8.400e+04	1.97	0.06	6.066e+04	4.20	0.12	8.511e+04	4.20	0.12	8.511e+04	4.20	0.12	8.511e+04
32 (-11)				-0.78	0.05	-5.050e+04	-3.50	0.18	-1.475e+05	-3.50	0.18	-1.475e+05	-3.50	0.18	-1.475e+05
33 (11)				0.86	0.05	5.558e+04	3.47	0.18	1.477e+05	3.47	0.18	1.477e+05	3.47	0.18	1.477e+05
34 (-12)	-3.73	0.09	-8.400e+04	-1.97	0.05	-6.066e+04	-4.20	0.10	-8.511e+04	-4.20	0.10	-8.511e+04	-4.20	0.10	-8.511e+04
35 (12)	3.72	0.09	8.400e+04	1.97	0.05	6.066e+04	4.20	0.10	8.511e+04	4.20	0.10	8.511e+04	4.20	0.10	8.511e+04
36 (-13)				-0.78	0.04	-5.050e+04	-3.50	0.15	-1.475e+05	-3.50	0.15	-1.475e+05	-3.50	0.15	-1.475e+05
37 (13)				0.86	0.04	5.558e+04	3.47	0.15	1.477e+05	3.47	0.15	1.477e+05	3.47	0.15	1.477e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
22	0.0	0.0	-8.87e-03	-317.6	-0.03	-952.8	-0.06	-2223.1	-0.13	-4763.8	-0.28	-9845.1
	-0.42	-1.493e+04	-0.56	-2.001e+04	-0.70	-2.509e+04	-0.84	-3.017e+04	-0.98	-3.525e+04	-1.13	-4.033e+04
	-1.27	-4.541e+04	-1.41	-5.050e+04	-1.55	-5.558e+04	-1.69	-6.066e+04	-1.84	-6.574e+04	-2.00	-7.082e+04
	-2.00	-7.098e+04	-2.01	-7.114e+04	-2.02	-7.130e+04	-2.03	-7.162e+04	-2.05	-7.225e+04	-2.09	-7.352e+04
	-2.21	-7.606e+04	-2.21	-7.622e+04	-2.22	-7.638e+04	-2.23	-7.670e+04	-2.27	-7.733e+04	-2.27	-7.749e+04
	-2.28	-7.765e+04	-2.30	-7.797e+04	-2.31	-7.813e+04	-2.32	-7.828e+04	-2.33	-7.860e+04	-2.37	-7.924e+04
	-2.44	-8.051e+04	-2.45	-8.067e+04	-2.46	-8.083e+04	-2.47	-8.114e+04	-2.51	-8.178e+04	-2.59	-8.305e+04
	-2.74	-8.559e+04	-2.75	-8.575e+04	-2.76	-8.591e+04	-2.77	-8.607e+04	-2.78	-8.622e+04	-2.81	-8.654e+04
	-2.85	-8.718e+04	-2.95	-8.845e+04	-2.97	-8.861e+04	-2.98	-8.877e+04	-3.00	-8.892e+04	-3.02	-8.908e+04
	-3.04	-8.924e+04	-3.05	-8.940e+04	-3.08	-8.956e+04	-3.10	-8.972e+04	-3.13	-8.988e+04	-3.15	-9.004e+04
	-3.21	-9.035e+04	-3.27	-9.051e+04	-3.32	-9.067e+04	-3.42	-9.099e+04	-3.64	-9.162e+04	-3.70	-9.178e+04
	-3.76	-9.194e+04	-3.82	-9.210e+04	-3.94	-9.242e+04	-4.22	-9.305e+04	-4.29	-9.321e+04	-4.36	-9.337e+04
	-4.51	-9.369e+04	-4.59	-9.385e+04	-4.67	-9.401e+04	-4.82	-9.432e+04	-5.17	-9.496e+04		

Cmb	Sp. Dc	Tag. Fb
	-5.17	-9.496e+04
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
23	0.0	0.0	8.87e-03	317.6	0.03	952.8	0.06	2223.1	0.13	4763.8	0.28	9845.1
	0.42	1.493e+04	0.56	2.001e+04	0.70	2.509e+04	0.84	3.017e+04	0.98	3.525e+04	1.13	4.033e+04
	1.27	4.541e+04	1.41	5.050e+04	1.55	5.558e+04	1.69	6.066e+04	1.84	6.574e+04	2.00	7.082e+04
	2.00	7.098e+04	2.02	7.130e+04	2.02	7.146e+04	2.03	7.177e+04	2.05	7.241e+04	2.10	7.368e+04
	2.11	7.384e+04	2.11	7.400e+04	2.13	7.431e+04	2.13	7.447e+04	2.14	7.463e+04	2.15	7.495e+04
	2.16	7.511e+04	2.18	7.543e+04	2.21	7.606e+04	2.27	7.733e+04	2.28	7.749e+04	2.28	7.765e+04
	2.30	7.797e+04	2.31	7.813e+04	2.32	7.828e+04	2.33	7.860e+04	2.37	7.924e+04	2.44	8.051e+04
	2.45	8.067e+04	2.46	8.083e+04	2.48	8.114e+04	2.51	8.178e+04	2.59	8.305e+04	2.74	8.559e+04
	2.75	8.575e+04	2.76	8.591e+04	2.77	8.607e+04	2.79	8.622e+04	2.81	8.654e+04	2.86	8.718e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	2.95	8.845e+04	2.97	8.861e+04	2.98	8.877e+04	3.00	8.892e+04	3.02	8.908e+04	3.03	8.924e+04
	3.05	8.940e+04	3.08	8.956e+04	3.10	8.972e+04	3.13	8.988e+04	3.15	9.004e+04	3.22	9.035e+04
	3.27	9.051e+04	3.32	9.067e+04	3.42	9.099e+04	3.63	9.162e+04	3.69	9.178e+04	3.75	9.194e+04
	3.82	9.210e+04	3.94	9.242e+04	4.22	9.305e+04	4.29	9.321e+04	4.36	9.337e+04	4.51	9.369e+04
	4.59	9.385e+04	4.67	9.401e+04	4.82	9.432e+04	5.17	9.496e+04				

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	5.17	9.496e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
24	0.0	0.0	-4.30e-03	-317.6	-0.01	-952.8	-0.03	-2223.1	-0.06	-4763.8	-0.13	-9845.1
	-0.20	-1.493e+04	-0.27	-2.001e+04	-0.34	-2.509e+04	-0.41	-3.017e+04	-0.48	-3.525e+04	-0.55	-4.033e+04
	-0.61	-4.541e+04	-0.68	-5.050e+04	-0.75	-5.558e+04	-0.76	-5.574e+04	-0.76	-5.605e+04	-0.77	-5.669e+04
	-0.79	-5.796e+04	-0.82	-6.050e+04	-0.89	-6.558e+04	-0.97	-7.066e+04	-1.04	-7.574e+04	-1.11	-8.083e+04
	-1.11	-8.098e+04	-1.12	-8.114e+04	-1.12	-8.146e+04	-1.13	-8.210e+04	-1.15	-8.337e+04	-1.19	-8.591e+04
	-1.27	-9.099e+04	-1.27	-9.115e+04	-1.28	-9.131e+04	-1.28	-9.162e+04	-1.29	-9.226e+04	-1.31	-9.353e+04
	-1.35	-9.607e+04	-1.44	-1.012e+05	-1.52	-1.062e+05	-1.53	-1.064e+05	-1.53	-1.065e+05	-1.53	-1.069e+05
	-1.55	-1.075e+05	-1.57	-1.088e+05	-1.61	-1.113e+05	-1.71	-1.164e+05	-1.80	-1.215e+05	-1.89	-1.266e+05
	-1.98	-1.316e+05	-2.08	-1.367e+05	-2.09	-1.369e+05	-2.09	-1.370e+05	-2.10	-1.374e+05	-2.11	-1.380e+05
	-2.11	-1.381e+05	-2.12	-1.383e+05	-2.12	-1.385e+05	-2.12	-1.386e+05	-2.13	-1.389e+05	-2.15	-1.396e+05
	-2.15	-1.397e+05	-2.16	-1.399e+05	-2.16	-1.401e+05	-2.17	-1.404e+05	-2.17	-1.405e+05	-2.18	-1.407e+05
	-2.19	-1.410e+05	-2.20	-1.416e+05	-2.24	-1.429e+05	-2.32	-1.455e+05	-2.33	-1.456e+05	-2.33	-1.458e+05
	-2.35	-1.461e+05	-2.35	-1.462e+05	-2.36	-1.464e+05	-2.37	-1.467e+05	-2.39	-1.474e+05	-2.44	-1.486e+05
	-2.55	-1.512e+05	-2.56	-1.513e+05	-2.57	-1.515e+05	-2.58	-1.516e+05	-2.59	-1.518e+05	-2.60	-1.520e+05
	-2.62	-1.523e+05	-2.66	-1.529e+05	-2.75	-1.542e+05	-2.76	-1.543e+05	-2.77	-1.545e+05	-2.80	-1.548e+05
	-2.86	-1.555e+05	-3.01	-1.567e+05	-3.04	-1.569e+05	-3.06	-1.570e+05	-3.11	-1.574e+05	-3.20	-1.580e+05
	-3.39	-1.593e+05	-3.78	-1.618e+05	-4.91	-1.669e+05	-4.98	-1.670e+05				

Cmb	Sp. Dc	Tag. Fb
	-4.98	-1.670e+05
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
25	0.0	0.0	4.30e-03	317.6	0.01	952.8	0.03	2223.1	0.06	4763.8	0.13	9845.1
	0.20	1.493e+04	0.27	2.001e+04	0.34	2.509e+04	0.41	3.017e+04	0.48	3.525e+04	0.55	4.033e+04
	0.61	4.541e+04	0.68	5.050e+04	0.75	5.558e+04	0.82	6.066e+04	0.83	6.082e+04	0.83	6.098e+04
	0.83	6.129e+04	0.84	6.193e+04	0.86	6.320e+04	0.90	6.574e+04	0.97	7.082e+04	0.97	7.098e+04
	0.98	7.130e+04	0.99	7.193e+04	1.01	7.320e+04	1.05	7.574e+04	1.12	8.083e+04	1.20	8.591e+04
	1.28	9.099e+04	1.28	9.115e+04	1.28	9.131e+04	1.29	9.162e+04	1.30	9.226e+04	1.32	9.353e+04
	1.37	9.607e+04	1.37	9.623e+04	1.37	9.655e+04	1.39	9.718e+04	1.41	9.845e+04	1.45	1.010e+05
	1.54	1.061e+05	1.63	1.112e+05	1.72	1.162e+05	1.73	1.164e+05	1.73	1.167e+05	1.74	1.173e+05
	1.77	1.186e+05	1.81	1.212e+05	1.91	1.262e+05	1.91	1.264e+05	1.91	1.266e+05	1.92	1.269e+05
	1.93	1.275e+05	1.95	1.288e+05	2.00	1.313e+05	2.01	1.315e+05	2.01	1.316e+05	2.02	1.320e+05
	2.03	1.326e+05	2.05	1.339e+05	2.11	1.364e+05	2.11	1.366e+05	2.12	1.367e+05	2.12	1.370e+05
	2.14	1.377e+05	2.17	1.389e+05	2.18	1.391e+05	2.19	1.393e+05	2.19	1.396e+05	2.21	1.402e+05
	2.25	1.415e+05	2.26	1.416e+05	2.26	1.418e+05	2.27	1.421e+05	2.30	1.428e+05	2.34	1.440e+05
	2.43	1.466e+05	2.62	1.516e+05	2.99	1.567e+05	3.02	1.569e+05	3.04	1.570e+05	3.09	1.574e+05
	3.18	1.580e+05	3.37	1.593e+05	3.77	1.618e+05	3.79	1.620e+05	3.82	1.621e+05	3.87	1.624e+05
	3.97	1.631e+05	4.18	1.644e+05	4.81	1.669e+05	4.87	1.670e+05				

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	4.87	1.670e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
26	0.0	0.0	-8.87e-03	-317.6	-0.03	-952.8	-0.06	-2223.1	-0.13	-4763.8	-0.28	-9845.1
	-0.42	-1.493e+04	-0.56	-2.001e+04	-0.70	-2.509e+04	-0.84	-3.017e+04	-0.98	-3.525e+04	-1.13	-4.033e+04
	-1.27	-4.541e+04	-1.41	-5.050e+04	-1.55	-5.558e+04	-1.69	-6.066e+04	-1.84	-6.574e+04	-2.00	-7.082e+04
	-2.00	-7.098e+04	-2.01	-7.114e+04	-2.02	-7.130e+04	-2.03	-7.162e+04	-2.05	-7.225e+04	-2.09	-7.352e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-2.21	-7.606e+04	-2.21	-7.622e+04	-2.22	-7.638e+04	-2.23	-7.670e+04	-2.27	-7.733e+04	-2.27	-7.749e+04
	-2.28	-7.765e+04	-2.30	-7.797e+04	-2.31	-7.813e+04	-2.32	-7.828e+04	-2.33	-7.860e+04	-2.37	-7.924e+04
	-2.44	-8.051e+04	-2.45	-8.067e+04	-2.46	-8.083e+04	-2.47	-8.114e+04	-2.51	-8.178e+04	-2.59	-8.305e+04
	-2.74	-8.559e+04	-2.75	-8.575e+04	-2.76	-8.591e+04	-2.77	-8.607e+04	-2.78	-8.622e+04	-2.81	-8.654e+04
	-2.85	-8.718e+04	-2.95	-8.845e+04	-2.97	-8.861e+04	-2.98	-8.877e+04	-3.00	-8.892e+04	-3.02	-8.908e+04
	-3.04	-8.924e+04	-3.05	-8.940e+04	-3.08	-8.956e+04	-3.10	-8.972e+04	-3.13	-8.988e+04	-3.15	-9.004e+04
	-3.21	-9.035e+04	-3.27	-9.051e+04	-3.32	-9.067e+04	-3.42	-9.099e+04	-3.64	-9.162e+04	-3.70	-9.178e+04
	-3.76	-9.194e+04	-3.82	-9.210e+04	-3.94	-9.242e+04	-4.22	-9.305e+04	-4.29	-9.321e+04	-4.36	-9.337e+04
	-4.51	-9.369e+04	-4.59	-9.385e+04	-4.67	-9.401e+04	-4.82	-9.432e+04	-5.17	-9.496e+04		

Cmb	Sp. Dc	Tag. Fb
	-5.17	-9.496e+04
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
27	0.0	0.0	8.87e-03	317.6	0.03	952.8	0.06	2223.1	0.13	4763.8	0.28	9845.1
	0.42	1.493e+04	0.56	2.001e+04	0.70	2.509e+04	0.84	3.017e+04	0.98	3.525e+04	1.13	4.033e+04
	1.27	4.541e+04	1.41	5.050e+04	1.55	5.558e+04	1.69	6.066e+04	1.84	6.574e+04	2.00	7.082e+04
	2.00	7.098e+04	2.02	7.130e+04	2.02	7.146e+04	2.03	7.177e+04	2.05	7.241e+04	2.10	7.368e+04
	2.11	7.384e+04	2.11	7.400e+04	2.13	7.431e+04	2.13	7.447e+04	2.14	7.463e+04	2.15	7.495e+04
	2.16	7.511e+04	2.18	7.543e+04	2.21	7.606e+04	2.27	7.733e+04	2.28	7.749e+04	2.28	7.765e+04
	2.30	7.797e+04	2.31	7.813e+04	2.32	7.828e+04	2.33	7.860e+04	2.37	7.924e+04	2.44	8.051e+04
	2.45	8.067e+04	2.46	8.083e+04	2.48	8.114e+04	2.51	8.178e+04	2.59	8.305e+04	2.74	8.559e+04
	2.75	8.575e+04	2.76	8.591e+04	2.77	8.607e+04	2.79	8.622e+04	2.81	8.654e+04	2.86	8.718e+04
	2.95	8.845e+04	2.97	8.861e+04	2.98	8.877e+04	3.00	8.892e+04	3.02	8.908e+04	3.03	8.924e+04
	3.05	8.940e+04	3.08	8.956e+04	3.10	8.972e+04	3.13	8.988e+04	3.15	9.004e+04	3.22	9.035e+04
	3.27	9.051e+04	3.32	9.067e+04	3.42	9.099e+04	3.63	9.162e+04	3.69	9.178e+04	3.75	9.194e+04
	3.82	9.210e+04	3.94	9.242e+04	4.22	9.305e+04	4.29	9.321e+04	4.36	9.337e+04	4.51	9.369e+04
	4.59	9.385e+04	4.67	9.401e+04	4.82	9.432e+04	5.17	9.496e+04				

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	5.17	9.496e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
28	0.0	0.0	-4.30e-03	-317.6	-0.01	-952.8	-0.03	-2223.1	-0.06	-4763.8	-0.13	-9845.1
	-0.20	-1.493e+04	-0.27	-2.001e+04	-0.34	-2.509e+04	-0.41	-3.017e+04	-0.48	-3.525e+04	-0.55	-4.033e+04
	-0.61	-4.541e+04	-0.68	-5.050e+04	-0.75	-5.558e+04	-0.76	-5.574e+04	-0.76	-5.605e+04	-0.77	-5.669e+04
	-0.79	-5.796e+04	-0.82	-6.050e+04	-0.89	-6.558e+04	-0.97	-7.066e+04	-1.04	-7.574e+04	-1.11	-8.083e+04
	-1.11	-8.098e+04	-1.12	-8.114e+04	-1.12	-8.146e+04	-1.13	-8.210e+04	-1.15	-8.337e+04	-1.19	-8.591e+04
	-1.27	-9.099e+04	-1.27	-9.115e+04	-1.28	-9.131e+04	-1.28	-9.162e+04	-1.29	-9.226e+04	-1.31	-9.353e+04
	-1.35	-9.607e+04	-1.44	-1.012e+05	-1.52	-1.062e+05	-1.53	-1.064e+05	-1.53	-1.065e+05	-1.53	-1.069e+05
	-1.55	-1.075e+05	-1.57	-1.088e+05	-1.61	-1.113e+05	-1.71	-1.164e+05	-1.80	-1.215e+05	-1.89	-1.266e+05
	-1.98	-1.316e+05	-2.08	-1.367e+05	-2.09	-1.369e+05	-2.09	-1.370e+05	-2.10	-1.374e+05	-2.11	-1.380e+05
	-2.11	-1.381e+05	-2.12	-1.383e+05	-2.12	-1.385e+05	-2.12	-1.386e+05	-2.13	-1.389e+05	-2.15	-1.396e+05
	-2.15	-1.397e+05	-2.16	-1.399e+05	-2.16	-1.401e+05	-2.17	-1.404e+05	-2.17	-1.405e+05	-2.18	-1.407e+05
	-2.19	-1.410e+05	-2.20	-1.416e+05	-2.24	-1.429e+05	-2.32	-1.455e+05	-2.33	-1.456e+05	-2.33	-1.458e+05
	-2.35	-1.461e+05	-2.35	-1.462e+05	-2.36	-1.464e+05	-2.37	-1.467e+05	-2.39	-1.474e+05	-2.44	-1.486e+05
	-2.55	-1.512e+05	-2.56	-1.513e+05	-2.57	-1.515e+05	-2.58	-1.516e+05	-2.59	-1.518e+05	-2.60	-1.520e+05
	-2.62	-1.523e+05	-2.66	-1.529e+05	-2.75	-1.542e+05	-2.76	-1.543e+05	-2.77	-1.545e+05	-2.80	-1.548e+05
	-2.86	-1.555e+05	-3.01	-1.567e+05	-3.04	-1.569e+05	-3.06	-1.570e+05	-3.11	-1.574e+05	-3.20	-1.580e+05
	-3.39	-1.593e+05	-3.78	-1.618e+05	-4.91	-1.669e+05	-4.98	-1.670e+05				

Cmb	Sp. Dc	Tag. Fb
	-4.98	-1.670e+05
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
29	0.0	0.0	4.30e-03	317.6	0.01	952.8	0.03	2223.1	0.06	4763.8	0.13	9845.1
	0.20	1.493e+04	0.27	2.001e+04	0.34	2.509e+04	0.41	3.017e+04	0.48	3.525e+04	0.55	4.033e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.61	4.541e+04	0.68	5.050e+04	0.75	5.558e+04	0.82	6.066e+04	0.83	6.082e+04	0.83	6.098e+04
	0.83	6.129e+04	0.84	6.193e+04	0.86	6.320e+04	0.90	6.574e+04	0.97	7.082e+04	0.97	7.098e+04
	0.98	7.130e+04	0.99	7.193e+04	1.01	7.320e+04	1.05	7.574e+04	1.12	8.083e+04	1.20	8.591e+04
	1.28	9.099e+04	1.28	9.115e+04	1.28	9.131e+04	1.29	9.162e+04	1.30	9.226e+04	1.32	9.353e+04
	1.37	9.607e+04	1.37	9.623e+04	1.37	9.655e+04	1.39	9.718e+04	1.41	9.845e+04	1.45	1.010e+05
	1.54	1.061e+05	1.63	1.112e+05	1.72	1.162e+05	1.73	1.164e+05	1.73	1.167e+05	1.74	1.173e+05
	1.77	1.186e+05	1.81	1.212e+05	1.91	1.262e+05	1.91	1.264e+05	1.91	1.266e+05	1.92	1.269e+05
	1.93	1.275e+05	1.95	1.288e+05	2.00	1.313e+05	2.01	1.315e+05	2.01	1.316e+05	2.02	1.320e+05
	2.03	1.326e+05	2.05	1.339e+05	2.11	1.364e+05	2.11	1.366e+05	2.12	1.367e+05	2.12	1.370e+05
	2.14	1.377e+05	2.17	1.389e+05	2.18	1.391e+05	2.18	1.393e+05	2.19	1.396e+05	2.21	1.402e+05
	2.25	1.415e+05	2.26	1.416e+05	2.26	1.418e+05	2.27	1.421e+05	2.30	1.428e+05	2.34	1.440e+05
	2.43	1.466e+05	2.62	1.516e+05	2.99	1.567e+05	3.02	1.569e+05	3.04	1.570e+05	3.09	1.574e+05
	3.18	1.580e+05	3.37	1.593e+05	3.77	1.618e+05	3.79	1.620e+05	3.82	1.621e+05	3.87	1.624e+05
	3.97	1.631e+05	4.18	1.644e+05	4.81	1.669e+05	4.87	1.670e+05				

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	4.87	1.670e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
30	0.0	0.0	-0.01	-317.6	-0.03	-952.8	-0.07	-2223.1	-0.15	-4763.8	-0.32	-9845.1
	-0.48	-1.493e+04	-0.64	-2.001e+04	-0.81	-2.509e+04	-0.97	-3.017e+04	-1.13	-3.525e+04	-1.30	-4.033e+04
	-1.46	-4.541e+04	-1.62	-5.050e+04	-1.79	-5.558e+04	-1.97	-6.066e+04	-1.97	-6.082e+04	-1.98	-6.098e+04
	-1.99	-6.129e+04	-2.01	-6.193e+04	-2.06	-6.320e+04	-2.16	-6.574e+04	-2.16	-6.590e+04	-2.17	-6.606e+04
	-2.18	-6.638e+04	-2.21	-6.701e+04	-2.27	-6.828e+04	-2.28	-6.844e+04	-2.29	-6.860e+04	-2.30	-6.892e+04
	-2.33	-6.955e+04	-2.40	-7.082e+04	-2.41	-7.098e+04	-2.42	-7.114e+04	-2.44	-7.146e+04	-2.45	-7.162e+04
	-2.46	-7.177e+04	-2.48	-7.209e+04	-2.52	-7.273e+04	-2.62	-7.400e+04	-2.64	-7.416e+04	-2.65	-7.431e+04
	-2.66	-7.447e+04	-2.68	-7.463e+04	-2.71	-7.495e+04	-2.76	-7.559e+04	-2.88	-7.686e+04	-2.90	-7.701e+04
	-2.91	-7.717e+04	-2.94	-7.749e+04	-3.01	-7.813e+04	-3.02	-7.828e+04	-3.04	-7.844e+04	-3.06	-7.860e+04
	-3.09	-7.892e+04	-3.16	-7.956e+04	-3.29	-8.083e+04	-3.31	-8.098e+04	-3.33	-8.114e+04	-3.37	-8.146e+04
	-3.44	-8.210e+04	-3.61	-8.337e+04	-3.63	-8.352e+04	-3.66	-8.368e+04	-3.69	-8.384e+04	-3.73	-8.400e+04
	-3.76	-8.416e+04	-3.84	-8.448e+04	-3.90	-8.464e+04	-3.98	-8.480e+04	-4.08	-8.495e+04	-4.20	-8.511e+04

Cmb	Sp. Dc	Tag. Fb
	-4.20	-8.511e+04
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
31	0.0	0.0	0.01	317.6	0.03	952.8	0.07	2223.1	0.15	4763.8	0.32	9845.1
	0.48	1.493e+04	0.64	2.001e+04	0.81	2.509e+04	0.97	3.017e+04	1.13	3.525e+04	1.30	4.033e+04
	1.46	4.541e+04	1.62	5.050e+04	1.79	5.558e+04	1.97	6.066e+04	1.97	6.082e+04	1.98	6.098e+04
	1.99	6.129e+04	2.01	6.193e+04	2.06	6.320e+04	2.16	6.574e+04	2.16	6.590e+04	2.17	6.606e+04
	2.18	6.638e+04	2.21	6.701e+04	2.27	6.828e+04	2.28	6.844e+04	2.29	6.860e+04	2.30	6.892e+04
	2.34	6.955e+04	2.40	7.082e+04	2.41	7.098e+04	2.42	7.114e+04	2.44	7.146e+04	2.45	7.162e+04
	2.46	7.177e+04	2.48	7.209e+04	2.53	7.273e+04	2.62	7.400e+04	2.64	7.416e+04	2.65	7.431e+04
	2.67	7.447e+04	2.68	7.463e+04	2.71	7.495e+04	2.77	7.559e+04	2.88	7.686e+04	2.90	7.701e+04
	2.91	7.717e+04	2.94	7.749e+04	3.01	7.813e+04	3.02	7.828e+04	3.04	7.844e+04	3.07	7.876e+04
	3.09	7.892e+04	3.12	7.924e+04	3.19	7.987e+04	3.33	8.114e+04	3.35	8.130e+04	3.37	8.146e+04
	3.40	8.178e+04	3.48	8.241e+04	3.50	8.257e+04	3.52	8.273e+04	3.54	8.289e+04	3.58	8.321e+04
	3.60	8.337e+04	3.63	8.352e+04	3.66	8.368e+04	3.69	8.384e+04	3.72	8.400e+04	3.76	8.416e+04
	3.84	8.448e+04	3.90	8.464e+04	3.98	8.480e+04	4.08	8.495e+04	4.20	8.511e+04		

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	4.20	8.511e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
32	0.0	0.0	-4.92e-03	-317.6	-0.01	-952.8	-0.03	-2223.1	-0.07	-4763.8	-0.15	-9845.1
	-0.23	-1.493e+04	-0.31	-2.001e+04	-0.39	-2.509e+04	-0.47	-3.017e+04	-0.55	-3.525e+04	-0.62	-4.033e+04
	-0.70	-4.541e+04	-0.78	-5.050e+04	-0.79	-5.065e+04	-0.79	-5.097e+04	-0.80	-5.161e+04	-0.82	-5.288e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.86	-5.542e+04	-0.94	-6.050e+04	-1.03	-6.558e+04	-1.11	-7.066e+04	-1.11	-7.082e+04	-1.12	-7.114e+04
	-1.12	-7.130e+04	-1.12	-7.146e+04	-1.13	-7.177e+04	-1.13	-7.193e+04	-1.14	-7.225e+04	-1.15	-7.289e+04
	-1.17	-7.416e+04	-1.22	-7.670e+04	-1.31	-8.178e+04	-1.31	-8.194e+04	-1.32	-8.210e+04	-1.32	-8.241e+04
	-1.33	-8.305e+04	-1.36	-8.432e+04	-1.40	-8.686e+04	-1.50	-9.194e+04	-1.50	-9.210e+04	-1.51	-9.226e+04
	-1.51	-9.258e+04	-1.52	-9.321e+04	-1.55	-9.448e+04	-1.55	-9.464e+04	-1.56	-9.496e+04	-1.57	-9.559e+04
	-1.60	-9.686e+04	-1.65	-9.940e+04	-1.75	-1.045e+05	-1.86	-1.096e+05	-1.96	-1.146e+05	-2.07	-1.197e+05
	-2.08	-1.199e+05	-2.08	-1.200e+05	-2.09	-1.204e+05	-2.10	-1.210e+05	-2.13	-1.223e+05	-2.20	-1.248e+05
	-2.20	-1.250e+05	-2.21	-1.253e+05	-2.23	-1.259e+05	-2.26	-1.272e+05	-2.26	-1.274e+05	-2.27	-1.275e+05
	-2.28	-1.278e+05	-2.29	-1.285e+05	-2.33	-1.297e+05	-2.40	-1.323e+05	-2.41	-1.324e+05	-2.41	-1.326e+05
	-2.43	-1.329e+05	-2.43	-1.331e+05	-2.44	-1.332e+05	-2.44	-1.334e+05	-2.46	-1.337e+05	-2.48	-1.343e+05
	-2.53	-1.356e+05	-2.54	-1.358e+05	-2.54	-1.359e+05	-2.55	-1.361e+05	-2.57	-1.364e+05	-2.57	-1.366e+05
	-2.59	-1.369e+05	-2.62	-1.375e+05	-2.68	-1.388e+05	-2.80	-1.413e+05	-3.22	-1.464e+05	-3.25	-1.466e+05
	-3.28	-1.467e+05	-3.32	-1.469e+05	-3.36	-1.470e+05	-3.40	-1.472e+05	-3.50	-1.475e+05		

Cmb	Sp. Dc	Tag. Fb
	-3.50	-1.475e+05
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
33	0.0	0.0	4.92e-03	317.6	0.01	952.8	0.03	2223.1	0.07	4763.8	0.15	9845.1
	0.23	1.493e+04	0.31	2.001e+04	0.39	2.509e+04	0.47	3.017e+04	0.55	3.525e+04	0.62	4.033e+04
	0.70	4.541e+04	0.78	5.050e+04	0.86	5.558e+04	0.87	5.574e+04	0.87	5.589e+04	0.87	5.621e+04
	0.89	5.685e+04	0.91	5.812e+04	0.95	6.066e+04	0.95	6.082e+04	0.95	6.098e+04	0.96	6.129e+04
	0.97	6.193e+04	0.99	6.320e+04	1.04	6.574e+04	1.12	7.082e+04	1.21	7.590e+04	1.30	8.098e+04
	1.31	8.114e+04	1.31	8.130e+04	1.32	8.162e+04	1.33	8.225e+04	1.35	8.352e+04	1.36	8.368e+04
	1.36	8.384e+04	1.36	8.416e+04	1.38	8.480e+04	1.40	8.607e+04	1.45	8.861e+04	1.56	9.369e+04
	1.66	9.877e+04	1.76	1.039e+05	1.77	1.040e+05	1.77	1.043e+05	1.79	1.050e+05	1.81	1.062e+05
	1.86	1.088e+05	1.97	1.139e+05	1.98	1.140e+05	1.98	1.142e+05	1.99	1.145e+05	2.00	1.151e+05
	2.03	1.164e+05	2.03	1.166e+05	2.04	1.167e+05	2.04	1.170e+05	2.06	1.177e+05	2.09	1.189e+05
	2.15	1.215e+05	2.15	1.216e+05	2.16	1.218e+05	2.17	1.221e+05	2.18	1.227e+05	2.22	1.240e+05
	2.29	1.266e+05	2.44	1.316e+05	2.44	1.318e+05	2.45	1.320e+05	2.46	1.323e+05	2.48	1.329e+05
	2.52	1.342e+05	2.53	1.343e+05	2.54	1.345e+05	2.55	1.348e+05	2.57	1.355e+05	2.63	1.367e+05
	2.63	1.369e+05	2.64	1.370e+05	2.66	1.374e+05	2.66	1.375e+05	2.68	1.378e+05	2.70	1.385e+05
	2.76	1.397e+05	2.88	1.423e+05	2.88	1.424e+05	2.89	1.426e+05	2.91	1.429e+05	2.92	1.431e+05
	2.93	1.432e+05	2.95	1.435e+05	2.98	1.442e+05	3.06	1.455e+05	3.08	1.456e+05	3.09	1.458e+05
	3.11	1.459e+05	3.13	1.461e+05	3.16	1.462e+05	3.18	1.464e+05	3.24	1.467e+05	3.37	1.474e+05
	3.41	1.475e+05	3.47	1.477e+05								

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	3.47	1.477e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
34	0.0	0.0	-0.01	-317.6	-0.03	-952.8	-0.07	-2223.1	-0.15	-4763.8	-0.32	-9845.1
	-0.48	-1.493e+04	-0.64	-2.001e+04	-0.81	-2.509e+04	-0.97	-3.017e+04	-1.13	-3.525e+04	-1.30	-4.033e+04
	-1.46	-4.541e+04	-1.62	-5.050e+04	-1.62	-5.558e+04	-1.79	-5.574e+04	-1.97	-6.082e+04	-1.98	-6.098e+04
	-1.99	-6.129e+04	-2.01	-6.193e+04	-2.06	-6.320e+04	-2.16	-6.574e+04	-2.16	-6.590e+04	-2.17	-6.606e+04
	-2.18	-6.638e+04	-2.21	-6.701e+04	-2.27	-6.828e+04	-2.28	-6.844e+04	-2.29	-6.860e+04	-2.30	-6.892e+04
	-2.33	-6.955e+04	-2.40	-7.082e+04	-2.41	-7.098e+04	-2.42	-7.114e+04	-2.44	-7.146e+04	-2.45	-7.162e+04
	-2.46	-7.177e+04	-2.48	-7.209e+04	-2.52	-7.273e+04	-2.62	-7.400e+04	-2.64	-7.416e+04	-2.65	-7.431e+04
	-2.66	-7.447e+04	-2.68	-7.463e+04	-2.71	-7.495e+04	-2.76	-7.559e+04	-2.88	-7.686e+04	-2.90	-7.701e+04
	-2.91	-7.717e+04	-2.94	-7.749e+04	-3.01	-7.813e+04	-3.02	-7.828e+04	-3.04	-7.844e+04	-3.06	-7.860e+04
	-3.09	-7.892e+04	-3.16	-7.956e+04	-3.29	-8.083e+04	-3.31	-8.098e+04	-3.33	-8.114e+04	-3.37	-8.146e+04
	-3.44	-8.210e+04	-3.61	-8.337e+04	-3.63	-8.352e+04	-3.66	-8.368e+04	-3.69	-8.384e+04	-3.73	-8.400e+04
	-3.76	-8.416e+04	-3.84	-8.448e+04	-3.90	-8.464e+04	-3.98	-8.480e+04	-4.08	-8.495e+04	-4.20	-8.511e+04

Cmb	Sp. Dc	Tag. Fb
	-4.20	-8.511e+04
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
35	0.0	0.0	0.01	317.6	0.03	952.8	0.07	2223.1	0.15	4763.8	0.32	9845.1
	0.48	1.493e+04	0.64	2.001e+04	0.81	2.509e+04	0.97	3.017e+04	1.13	3.525e+04	1.30	4.033e+04
	1.46	4.541e+04	1.62	5.050e+04	1.79	5.558e+04	1.97	6.066e+04	1.97	6.082e+04	1.98	6.098e+04
	1.99	6.129e+04	2.01	6.193e+04	2.06	6.320e+04	2.16	6.574e+04	2.16	6.590e+04	2.17	6.606e+04
	2.18	6.638e+04	2.21	6.701e+04	2.27	6.828e+04	2.28	6.844e+04	2.29	6.860e+04	2.30	6.892e+04
	2.34	6.955e+04	2.40	7.082e+04	2.41	7.098e+04	2.42	7.114e+04	2.44	7.146e+04	2.45	7.162e+04
	2.46	7.177e+04	2.48	7.209e+04	2.53	7.273e+04	2.62	7.400e+04	2.64	7.416e+04	2.65	7.431e+04
	2.67	7.447e+04	2.68	7.463e+04	2.71	7.495e+04	2.77	7.559e+04	2.88	7.686e+04	2.90	7.701e+04
	2.91	7.717e+04	2.94	7.749e+04	3.01	7.813e+04	3.02	7.828e+04	3.04	7.844e+04	3.07	7.876e+04
	3.09	7.892e+04	3.12	7.924e+04	3.19	7.987e+04	3.33	8.114e+04	3.35	8.130e+04	3.37	8.146e+04
	3.40	8.178e+04	3.48	8.241e+04	3.50	8.257e+04	3.52	8.273e+04	3.54	8.289e+04	3.58	8.321e+04
	3.60	8.337e+04	3.63	8.352e+04	3.66	8.368e+04	3.69	8.384e+04	3.72	8.400e+04	3.76	8.416e+04
	3.84	8.448e+04	3.90	8.464e+04	3.98	8.480e+04	4.08	8.495e+04	4.20	8.511e+04		

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	4.20	8.511e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
36	0.0	0.0	-4.92e-03	-317.6	-0.01	-952.8	-0.03	-2223.1	-0.07	-4763.8	-0.15	-9845.1
	-0.23	-1.493e+04	-0.31	-2.001e+04	-0.39	-2.509e+04	-0.47	-3.017e+04	-0.55	-3.525e+04	-0.62	-4.033e+04
	-0.70	-4.541e+04	-0.78	-5.050e+04	-0.79	-5.065e+04	-0.79	-5.097e+04	-0.80	-5.161e+04	-0.82	-5.288e+04
	-0.86	-5.542e+04	-0.94	-6.050e+04	-1.03	-6.558e+04	-1.11	-7.066e+04	-1.11	-7.082e+04	-1.12	-7.114e+04
	-1.12	-7.130e+04	-1.12	-7.146e+04	-1.13	-7.177e+04	-1.13	-7.193e+04	-1.14	-7.225e+04	-1.15	-7.289e+04
	-1.17	-7.416e+04	-1.22	-7.670e+04	-1.31	-8.178e+04	-1.31	-8.194e+04	-1.32	-8.210e+04	-1.32	-8.241e+04
	-1.33	-8.305e+04	-1.36	-8.432e+04	-1.40	-8.686e+04	-1.50	-9.194e+04	-1.50	-9.210e+04	-1.51	-9.226e+04
	-1.51	-9.258e+04	-1.52	-9.321e+04	-1.55	-9.448e+04	-1.55	-9.464e+04	-1.56	-9.496e+04	-1.57	-9.559e+04
	-1.60	-9.686e+04	-1.65	-9.940e+04	-1.75	-1.045e+05	-1.86	-1.096e+05	-1.96	-1.146e+05	-2.07	-1.197e+05
	-2.08	-1.199e+05	-2.08	-1.200e+05	-2.09	-1.204e+05	-2.10	-1.210e+05	-2.13	-1.223e+05	-2.20	-1.248e+05
	-2.20	-1.250e+05	-2.21	-1.253e+05	-2.23	-1.259e+05	-2.26	-1.272e+05	-2.26	-1.274e+05	-2.27	-1.275e+05
	-2.28	-1.278e+05	-2.29	-1.285e+05	-2.33	-1.297e+05	-2.40	-1.323e+05	-2.41	-1.324e+05	-2.41	-1.326e+05
	-2.43	-1.329e+05	-2.43	-1.331e+05	-2.44	-1.332e+05	-2.44	-1.334e+05	-2.46	-1.337e+05	-2.48	-1.343e+05
	-2.53	-1.356e+05	-2.54	-1.358e+05	-2.54	-1.359e+05	-2.55	-1.361e+05	-2.57	-1.364e+05	-2.57	-1.366e+05
	-2.59	-1.369e+05	-2.62	-1.375e+05	-2.68	-1.388e+05	-2.80	-1.413e+05	-3.22	-1.464e+05	-3.25	-1.466e+05
	-3.28	-1.467e+05	-3.32	-1.469e+05	-3.36	-1.470e+05	-3.40	-1.472e+05	-3.50	-1.475e+05		

Cmb	Sp. Dc	Tag. Fb
	-3.50	-1.475e+05
	0.0	0.0

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
37	0.0	0.0	4.92e-03	317.6	0.01	952.8	0.03	2223.1	0.07	4763.8	0.15	9845.1
	0.23	1.493e+04	0.31	2.001e+04	0.39	2.509e+04	0.47	3.017e+04	0.55	3.525e+04	0.62	4.033e+04
	0.70	4.541e+04	0.78	5.050e+04	0.86	5.558e+04	0.87	5.574e+04	0.87	5.589e+04	0.87	5.621e+04
	0.89	5.685e+04	0.91	5.812e+04	0.95	6.066e+04	0.95	6.082e+04	0.96	6.098e+04	0.96	6.129e+04
	0.97	6.193e+04	0.99	6.320e+04	1.04	6.574e+04	1.12	7.082e+04	1.21	7.590e+04	1.30	8.098e+04
	1.31	8.114e+04	1.31	8.130e+04	1.32	8.162e+04	1.33	8.225e+04	1.35	8.352e+04	1.36	8.368e+04
	1.36	8.384e+04	1.36	8.416e+04	1.38	8.480e+04	1.40	8.607e+04	1.45	8.861e+04	1.56	9.369e+04
	1.66	9.877e+04	1.76	1.039e+05	1.77	1.040e+05	1.77	1.043e+05	1.79	1.050e+05	1.81	1.062e+05
	1.86	1.088e+05	1.97	1.139e+05	1.98	1.140e+05	1.98	1.142e+05	1.99	1.145e+05	2.00	1.151e+05
	2.03	1.164e+05	2.03	1.166e+05	2.04	1.167e+05	2.04	1.170e+05	2.06	1.177e+05	2.09	1.189e+05
	2.15	1.215e+05	2.15	1.216e+05	2.16	1.218e+05	2.17	1.221e+05	2.18	1.227e+05	2.22	1.240e+05
	2.29	1.266e+05	2.44	1.316e+05	2.44	1.318e+05	2.45	1.320e+05	2.46	1.323e+05	2.48	1.329e+05
	2.52	1.342e+05	2.53	1.343e+05	2.54	1.345e+05	2.55	1.348e+05	2.57	1.355e+05	2.63	1.367e+05
	2.63	1.369e+05	2.64	1.370e+05	2.66	1.374e+05	2.66	1.375e+05	2.68	1.378e+05	2.70	1.385e+05
	2.76	1.397e+05	2.88	1.423e+05	2.88	1.424e+05	2.89	1.426e+05	2.91	1.429e+05	2.92	1.431e+05
	2.93	1.432e+05	2.95	1.435e+05	2.98	1.442e+05	3.06	1.455e+05	3.08	1.456e+05	3.09	1.458e+05
	3.11	1.459e+05	3.13	1.461e+05	3.16	1.462e+05	3.18	1.464e+05	3.24	1.467e+05	3.37	1.474e+05
	3.41	1.475e+05	3.47	1.477e+05								

Cmb	Sp. Dc	Tag. Fb
	0.0	0.0
	3.47	1.477e+05

RISULTATI NODALI
LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	1	8.44e-04	0.02	-0.57	1.92e-05	3.07e-05	0.0
1	2	9.51e-04	0.02	-0.60	2.02e-05	3.26e-05	0.0
1	3	1.19e-03	0.03	-0.64	-2.48e-06	3.62e-05	0.0
1	4	1.30e-03	0.03	-0.67	-1.48e-06	3.81e-05	0.0
1	5	5.60e-04	0.01	-0.42	2.03e-05	2.22e-05	0.0
1	6	6.67e-04	0.02	-0.45	2.13e-05	2.41e-05	0.0
1	7	9.07e-04	0.02	-0.49	-1.36e-06	2.77e-05	0.0
1	8	1.01e-03	0.03	-0.52	0.0	2.96e-05	0.0
1	9	1.06e-03	0.03	-0.62	2.12e-05	3.45e-05	0.0
1	10	1.09e-03	0.03	-0.62	4.01e-06	3.45e-05	0.0
1	11	1.30e-03	0.03	-0.67	6.01e-06	3.84e-05	0.0
1	12	7.74e-04	0.02	-0.47	2.23e-05	2.60e-05	0.0
1	13	8.03e-04	0.02	-0.47	5.14e-06	2.60e-05	0.0
1	14	1.02e-03	0.03	-0.52	7.14e-06	2.99e-05	0.0
1	15	6.37e-04	0.02	-0.44	1.55e-05	2.34e-05	0.0
1	16	7.09e-04	0.02	-0.45	1.61e-05	2.47e-05	0.0
1	17	8.68e-04	0.02	-0.48	1.05e-06	2.71e-05	0.0
1	18	9.40e-04	0.02	-0.50	1.72e-06	2.84e-05	0.0
1	19	7.80e-04	0.02	-0.47	1.68e-05	2.60e-05	0.0
1	20	7.99e-04	0.02	-0.47	5.38e-06	2.60e-05	0.0
1	21	9.41e-04	0.02	-0.50	6.71e-06	2.85e-05	0.0
1	22	-5.17	-0.03	-0.64	1.46e-04	-3.69e-03	7.06e-05
1	23	5.16	0.07	-0.29	-1.31e-04	3.80e-03	-6.98e-05
1	24	-3.50e-03	-4.95	-0.59	1.43e-03	-2.19e-05	-1.94e-05
1	25	4.91e-03	4.87	-0.33	-1.33e-03	6.97e-05	1.94e-05
1	26	-3.81	-0.03	-0.63	1.38e-04	-2.80e-03	6.67e-05
1	27	3.81	0.07	-0.30	-1.23e-04	2.91e-03	-6.59e-05
1	28	-4.54e-04	-1.77	-0.57	9.32e-04	-5.47e-06	-5.32e-06
1	29	2.08e-03	1.83	-0.36	-9.32e-04	5.62e-05	6.26e-06
1	30	-4.19	-0.03	-0.64	1.50e-04	-4.05e-03	7.59e-05
1	31	4.19	0.07	-0.29	-1.37e-04	4.18e-03	-7.54e-05
1	32	-3.20e-03	-3.46	-0.59	1.43e-03	-2.13e-05	-1.80e-05
1	33	4.97e-03	3.47	-0.33	-1.33e-03	7.01e-05	1.96e-05
1	34	-4.19	-0.03	-0.64	1.50e-04	-4.05e-03	7.59e-05
1	35	4.19	0.07	-0.29	-1.37e-04	4.18e-03	-7.54e-05
1	36	-7.78e-04	-2.05	-0.58	1.07e-03	-9.40e-06	-6.75e-06
1	37	2.39e-03	2.07	-0.36	-1.05e-03	5.91e-05	7.35e-06
1	38	6.37e-04	0.02	-0.44	1.55e-05	2.34e-05	0.0
1	39	7.99e-04	0.02	-0.47	5.38e-06	2.60e-05	0.0
1	40	6.66e-04	0.02	-0.44	1.57e-05	2.39e-05	0.0
1	41	7.76e-04	0.02	-0.46	6.82e-06	2.56e-05	0.0
1	42	8.04e-04	0.02	-0.47	7.09e-06	2.61e-05	0.0
1	43	6.37e-04	0.02	-0.44	1.55e-05	2.34e-05	0.0
1	44	7.76e-04	0.02	-0.46	6.82e-06	2.56e-05	0.0
1	45	6.37e-04	0.02	-0.44	1.55e-05	2.34e-05	0.0
1	46	7.76e-04	0.02	-0.46	6.82e-06	2.56e-05	0.0
2	1	-7.02e-03	1.08e-03	-0.55	-1.22e-05	-1.35e-04	0.0
2	2	-7.01e-03	1.14e-03	-0.58	-1.20e-05	-1.35e-04	0.0
2	3	-7.04e-03	1.06e-03	-0.63	-9.83e-06	-1.35e-04	0.0
2	4	-7.04e-03	1.12e-03	-0.65	-9.68e-06	-1.35e-04	0.0
2	5	-5.39e-03	8.33e-04	-0.41	-9.97e-06	-1.03e-04	0.0
2	6	-5.39e-03	8.95e-04	-0.43	-9.82e-06	-1.03e-04	0.0
2	7	-5.42e-03	8.16e-04	-0.48	-7.62e-06	-1.04e-04	0.0
2	8	-5.41e-03	8.78e-04	-0.51	-7.47e-06	-1.04e-04	0.0
2	9	-7.01e-03	1.20e-03	-0.60	-1.19e-05	-1.35e-04	0.0
2	10	-7.03e-03	1.07e-03	-0.61	-1.05e-05	-1.35e-04	0.0
2	11	-7.03e-03	1.19e-03	-0.66	-1.02e-05	-1.35e-04	0.0

2	12	-5.39e-03	9.57e-04	-0.46	-9.67e-06	-1.03e-04	0.0
2	13	-5.41e-03	8.22e-04	-0.46	-8.33e-06	-1.04e-04	0.0
2	14	-5.40e-03	9.45e-04	-0.51	-8.03e-06	-1.04e-04	0.0
2	15	-5.40e-03	8.30e-04	-0.42	-9.45e-06	-1.04e-04	0.0
2	16	-5.39e-03	8.71e-04	-0.44	-9.35e-06	-1.04e-04	0.0
2	17	-5.41e-03	8.18e-04	-0.47	-7.88e-06	-1.04e-04	0.0
2	18	-5.41e-03	8.59e-04	-0.49	-7.78e-06	-1.04e-04	0.0
2	19	-5.39e-03	9.12e-04	-0.46	-9.25e-06	-1.03e-04	0.0
2	20	-5.41e-03	8.22e-04	-0.46	-8.35e-06	-1.04e-04	0.0
2	21	-5.41e-03	9.04e-04	-0.49	-8.15e-06	-1.04e-04	0.0
2	22	-0.12	-4.85e-04	-0.61	-4.32e-05	-6.17e-04	1.30e-05
2	23	0.11	2.09e-03	-0.30	2.90e-05	3.88e-04	-1.35e-05
2	24	2.97e-04	-0.22	-0.33	7.38e-04	6.05e-06	6.70e-06
2	25	-0.01	0.22	-0.57	-7.66e-04	-1.96e-04	-6.66e-06
2	26	-0.12	-3.59e-04	-0.60	-4.11e-05	-6.04e-04	1.39e-05
2	27	0.11	1.97e-03	-0.30	2.65e-05	3.74e-04	-1.44e-05
2	28	-1.80e-03	-0.16	-0.37	5.77e-04	-3.39e-05	4.52e-06
2	29	-8.95e-03	0.16	-0.54	-5.84e-04	-1.72e-04	-4.86e-06
2	30	-0.11	2.05e-04	-0.61	-4.30e-05	-6.07e-04	1.49e-05
2	31	0.10	1.34e-03	-0.30	3.00e-05	3.81e-04	-1.54e-05
2	32	2.15e-04	-0.20	-0.33	7.24e-04	4.47e-06	5.88e-06
2	33	-0.01	0.20	-0.56	-7.58e-04	-1.92e-04	-5.78e-06
2	34	-0.11	2.05e-04	-0.61	-4.30e-05	-6.07e-04	1.49e-05
2	35	0.10	1.34e-03	-0.30	3.00e-05	3.81e-04	-1.54e-05
2	36	-1.45e-03	-0.16	-0.36	6.31e-04	-2.71e-05	4.46e-06
2	37	-9.15e-03	0.16	-0.55	-6.29e-04	-1.76e-04	-4.60e-06
2	38	-5.40e-03	8.30e-04	-0.42	-9.45e-06	-1.04e-04	0.0
2	39	-5.41e-03	8.22e-04	-0.46	-8.35e-06	-1.04e-04	0.0
2	40	-5.40e-03	8.46e-04	-0.43	-9.41e-06	-1.04e-04	0.0
2	41	-5.41e-03	8.23e-04	-0.45	-8.51e-06	-1.04e-04	0.0
2	42	-5.41e-03	8.39e-04	-0.46	-8.47e-06	-1.04e-04	0.0
2	43	-5.40e-03	8.30e-04	-0.42	-9.45e-06	-1.04e-04	0.0
2	44	-5.41e-03	8.23e-04	-0.45	-8.51e-06	-1.04e-04	0.0
2	45	-5.40e-03	8.30e-04	-0.42	-9.45e-06	-1.04e-04	0.0
2	46	-5.41e-03	8.23e-04	-0.45	-8.51e-06	-1.04e-04	0.0
3	1	1.86e-04	0.01	-0.57	-1.16e-04	6.51e-05	0.0
3	2	2.69e-04	0.02	-0.60	-1.16e-04	6.58e-05	0.0
3	3	3.35e-04	0.02	-0.65	-1.65e-04	6.76e-05	0.0
3	4	4.19e-04	0.02	-0.68	-1.65e-04	6.82e-05	0.0
3	5	1.04e-04	0.01	-0.42	-7.68e-05	4.95e-05	0.0
3	6	1.88e-04	0.01	-0.45	-7.71e-05	5.02e-05	0.0
3	7	2.54e-04	0.01	-0.50	-1.26e-04	5.19e-05	0.0
3	8	3.38e-04	0.02	-0.52	-1.26e-04	5.26e-05	0.0
3	9	3.53e-04	0.02	-0.62	-1.17e-04	6.65e-05	0.0
3	10	2.90e-04	0.02	-0.63	-1.50e-04	6.68e-05	0.0
3	11	4.58e-04	0.02	-0.68	-1.51e-04	6.82e-05	0.0
3	12	2.72e-04	0.01	-0.47	-7.73e-05	5.08e-05	0.0
3	13	2.09e-04	0.01	-0.47	-1.11e-04	5.12e-05	0.0
3	14	3.77e-04	0.02	-0.53	-1.11e-04	5.25e-05	0.0
3	15	1.38e-04	0.01	-0.44	-8.77e-05	5.00e-05	0.0
3	16	1.93e-04	0.01	-0.45	-8.78e-05	5.05e-05	0.0
3	17	2.38e-04	0.01	-0.49	-1.20e-04	5.16e-05	0.0
3	18	2.93e-04	0.02	-0.51	-1.20e-04	5.21e-05	0.0
3	19	2.49e-04	0.01	-0.47	-8.80e-05	5.09e-05	0.0
3	20	2.08e-04	0.01	-0.47	-1.10e-04	5.12e-05	0.0
3	21	3.19e-04	0.02	-0.51	-1.11e-04	5.21e-05	0.0
3	22	-3.03	-0.02	-0.63	-1.09e-04	-8.08e-03	4.64e-05
3	23	3.03	0.05	-0.31	-1.03e-04	8.06e-03	-4.64e-05
3	24	1.77e-03	-2.92	-0.35	6.14e-03	2.74e-05	-1.25e-05
3	25	-1.33e-03	2.89	-0.58	-6.04e-03	6.81e-05	1.23e-05
3	26	-2.20	-0.02	-0.62	-1.09e-04	-6.16e-03	4.36e-05
3	27	2.20	0.04	-0.32	-1.04e-04	6.14e-03	-4.35e-05
3	28	7.13e-04	-0.97	-0.38	1.43e-03	3.61e-05	-3.99e-06
3	29	-2.09e-04	1.01	-0.56	-1.71e-03	6.55e-05	3.99e-06
3	30	-2.11	-0.02	-0.62	-1.08e-04	-6.69e-03	4.29e-05
3	31	2.11	0.04	-0.31	-1.04e-04	6.68e-03	-4.31e-05
3	32	1.65e-03	-1.84	-0.35	3.91e-03	2.76e-05	-1.08e-05
3	33	-1.17e-03	1.85	-0.58	-3.92e-03	6.72e-05	1.10e-05
3	34	-2.11	-0.02	-0.62	-1.08e-04	-6.69e-03	4.29e-05
3	35	2.11	0.04	-0.31	-1.04e-04	6.68e-03	-4.31e-05
3	36	7.41e-04	-1.04	-0.37	1.73e-03	3.48e-05	-3.96e-06
3	37	-1.78e-04	1.06	-0.57	-1.98e-03	6.62e-05	3.82e-06
3	38	1.38e-04	0.01	-0.44	-8.77e-05	5.00e-05	0.0
3	39	2.08e-04	0.01	-0.47	-1.10e-04	5.12e-05	0.0
3	40	1.60e-04	0.01	-0.44	-8.77e-05	5.02e-05	0.0
3	41	1.98e-04	0.01	-0.47	-1.07e-04	5.10e-05	0.0
3	42	2.20e-04	0.01	-0.47	-1.07e-04	5.12e-05	0.0

3	43	1.38e-04	0.01	-0.44	-8.77e-05	5.00e-05	0.0
3	44	1.98e-04	0.01	-0.47	-1.07e-04	5.10e-05	0.0
3	45	1.38e-04	0.01	-0.44	-8.77e-05	5.00e-05	0.0
3	46	1.98e-04	0.01	-0.47	-1.07e-04	5.10e-05	0.0
4	1	7.56e-04	0.02	-0.58	-1.51e-04	2.63e-05	0.0
4	2	8.54e-04	0.02	-0.61	-1.76e-04	2.82e-05	0.0
4	3	1.08e-03	0.03	-0.66	-1.49e-04	3.17e-05	0.0
4	4	1.18e-03	0.03	-0.69	-1.73e-04	3.36e-05	0.0
4	5	4.97e-04	0.01	-0.43	-1.17e-04	1.89e-05	0.0
4	6	5.95e-04	0.02	-0.46	-1.42e-04	2.07e-05	0.0
4	7	8.26e-04	0.02	-0.51	-1.14e-04	2.43e-05	0.0
4	8	9.24e-04	0.03	-0.53	-1.39e-04	2.62e-05	0.0
4	9	9.52e-04	0.03	-0.64	-2.00e-04	3.01e-05	0.0
4	10	9.86e-04	0.03	-0.64	-1.49e-04	3.01e-05	0.0
4	11	1.18e-03	0.03	-0.69	-1.98e-04	3.39e-05	0.0
4	12	6.93e-04	0.02	-0.48	-1.66e-04	2.26e-05	0.0
4	13	7.27e-04	0.02	-0.48	-1.15e-04	2.27e-05	0.0
4	14	9.24e-04	0.03	-0.54	-1.64e-04	2.64e-05	0.0
4	15	5.70e-04	0.02	-0.44	-1.16e-04	2.01e-05	0.0
4	16	6.36e-04	0.02	-0.46	-1.33e-04	2.13e-05	0.0
4	17	7.90e-04	0.02	-0.50	-1.15e-04	2.37e-05	0.0
4	18	8.55e-04	0.02	-0.52	-1.31e-04	2.49e-05	0.0
4	19	7.01e-04	0.02	-0.48	-1.49e-04	2.26e-05	0.0
4	20	7.24e-04	0.02	-0.48	-1.15e-04	2.26e-05	0.0
4	21	8.55e-04	0.02	-0.52	-1.48e-04	2.51e-05	0.0
4	22	-5.19	-0.03	-0.63	-1.62e-04	-3.78e-03	5.09e-05
4	23	5.18	0.07	-0.32	-6.64e-05	3.89e-03	-5.08e-05
4	24	2.91e-03	-4.95	-0.35	9.72e-04	4.84e-05	-1.94e-05
4	25	-1.37e-03	4.87	-0.59	-1.38e-03	-4.04e-06	1.85e-05
4	26	-3.83	-0.03	-0.63	-1.58e-04	-2.87e-03	4.81e-05
4	27	3.83	0.06	-0.32	-7.01e-05	2.97e-03	-4.83e-05
4	28	1.34e-03	-1.77	-0.39	6.93e-04	4.04e-05	-5.70e-06
4	29	1.43e-04	1.83	-0.57	-9.17e-04	3.62e-06	5.37e-06
4	30	-4.21	-0.03	-0.63	-1.58e-04	-4.16e-03	5.69e-05
4	31	4.21	0.07	-0.32	-6.88e-05	4.28e-03	-5.65e-05
4	32	2.78e-03	-3.46	-0.35	9.94e-04	4.77e-05	-1.81e-05
4	33	-1.41e-03	3.47	-0.59	-1.37e-03	-4.24e-06	1.87e-05
4	34	-4.21	-0.03	-0.63	-1.58e-04	-4.16e-03	5.69e-05
4	35	4.21	0.07	-0.32	-6.88e-05	4.28e-03	-5.65e-05
4	36	1.50e-03	-2.05	-0.38	8.25e-04	4.23e-05	-7.05e-06
4	37	7.70e-05	2.07	-0.57	-1.04e-03	2.24e-06	6.43e-06
4	38	5.70e-04	0.02	-0.44	-1.16e-04	2.01e-05	0.0
4	39	7.24e-04	0.02	-0.48	-1.15e-04	2.26e-05	0.0
4	40	5.96e-04	0.02	-0.45	-1.23e-04	2.06e-05	0.0
4	41	7.02e-04	0.02	-0.48	-1.15e-04	2.22e-05	0.0
4	42	7.28e-04	0.02	-0.48	-1.22e-04	2.27e-05	0.0
4	43	5.70e-04	0.02	-0.44	-1.16e-04	2.01e-05	0.0
4	44	7.02e-04	0.02	-0.48	-1.15e-04	2.22e-05	0.0
4	45	5.70e-04	0.02	-0.44	-1.16e-04	2.01e-05	0.0
4	46	7.02e-04	0.02	-0.48	-1.15e-04	2.22e-05	0.0
5	1	-9.38e-03	8.47e-03	-0.58	-1.52e-04	-1.79e-04	0.0
5	2	-9.59e-03	8.60e-03	-0.61	-1.53e-04	-1.83e-04	0.0
5	3	-0.01	9.80e-03	-0.66	-1.73e-04	-1.91e-04	0.0
5	4	-0.01	9.93e-03	-0.68	-1.74e-04	-1.95e-04	0.0
5	5	-7.05e-03	6.18e-03	-0.43	-1.11e-04	-1.34e-04	0.0
5	6	-7.27e-03	6.31e-03	-0.45	-1.13e-04	-1.38e-04	0.0
5	7	-7.69e-03	7.50e-03	-0.51	-1.33e-04	-1.46e-04	0.0
5	8	-7.91e-03	7.64e-03	-0.53	-1.34e-04	-1.50e-04	0.0
5	9	-9.81e-03	8.74e-03	-0.63	-1.54e-04	-1.87e-04	0.0
5	10	-9.83e-03	9.40e-03	-0.64	-1.67e-04	-1.87e-04	0.0
5	11	-0.01	9.67e-03	-0.69	-1.69e-04	-1.95e-04	0.0
5	12	-7.48e-03	6.44e-03	-0.48	-1.14e-04	-1.42e-04	0.0
5	13	-7.50e-03	7.10e-03	-0.48	-1.26e-04	-1.43e-04	0.0
5	14	-7.93e-03	7.37e-03	-0.53	-1.29e-04	-1.51e-04	0.0
5	15	-7.19e-03	6.47e-03	-0.45	-1.16e-04	-1.37e-04	0.0
5	16	-7.34e-03	6.56e-03	-0.46	-1.17e-04	-1.40e-04	0.0
5	17	-7.62e-03	7.35e-03	-0.50	-1.30e-04	-1.45e-04	0.0
5	18	-7.76e-03	7.44e-03	-0.51	-1.31e-04	-1.48e-04	0.0
5	19	-7.48e-03	6.65e-03	-0.48	-1.18e-04	-1.42e-04	0.0
5	20	-7.49e-03	7.09e-03	-0.48	-1.26e-04	-1.43e-04	0.0
5	21	-7.78e-03	7.27e-03	-0.51	-1.28e-04	-1.48e-04	0.0
5	22	-0.14	0.01	-0.70	-3.13e-04	-7.27e-04	2.83e-05
5	23	0.13	6.25e-04	-0.25	6.69e-05	4.30e-04	-2.91e-05
5	24	0.01	-0.24	-1.15e-03	1.03e-03	2.75e-05	1.64e-05
5	25	-0.03	0.25	-0.95	-1.30e-03	-5.68e-04	-1.64e-05
5	26	-0.14	0.01	-0.69	-3.04e-04	-7.03e-04	2.97e-05
5	27	0.12	8.76e-04	-0.26	5.71e-05	4.04e-04	-3.05e-05

5	28	7.96e-03	-0.17	-0.13	6.77e-04	1.59e-04	1.07e-05
5	29	-0.02	0.18	-0.81	-8.93e-04	-4.42e-04	-1.15e-05
5	30	-0.13	0.01	-0.70	-3.13e-04	-7.15e-04	3.07e-05
5	31	0.12	-2.38e-04	-0.25	7.04e-05	4.24e-04	-3.15e-05
5	32	0.01	-0.21	-0.01	9.94e-04	2.64e-04	1.43e-05
5	33	-0.03	0.23	-0.95	-1.28e-03	-5.63e-04	-1.42e-05
5	34	-0.13	0.01	-0.70	-3.13e-04	-7.15e-04	3.07e-05
5	35	0.12	-2.38e-04	-0.25	7.04e-05	4.24e-04	-3.15e-05
5	36	9.45e-03	-0.17	-0.10	7.46e-04	1.88e-04	1.06e-05
5	37	-0.02	0.18	-0.84	-9.37e-04	-4.64e-04	-1.08e-05
5	38	-7.19e-03	6.47e-03	-0.45	-1.16e-04	-1.37e-04	0.0
5	39	-7.49e-03	7.09e-03	-0.48	-1.26e-04	-1.43e-04	0.0
5	40	-7.25e-03	6.51e-03	-0.45	-1.16e-04	-1.38e-04	0.0
5	41	-7.45e-03	7.00e-03	-0.48	-1.25e-04	-1.42e-04	0.0
5	42	-7.51e-03	7.04e-03	-0.48	-1.25e-04	-1.43e-04	0.0
5	43	-7.19e-03	6.47e-03	-0.45	-1.16e-04	-1.37e-04	0.0
5	44	-7.45e-03	7.00e-03	-0.48	-1.25e-04	-1.42e-04	0.0
5	45	-7.19e-03	6.47e-03	-0.45	-1.16e-04	-1.37e-04	0.0
5	46	-7.45e-03	7.00e-03	-0.48	-1.25e-04	-1.42e-04	0.0
6	1	1.25e-04	0.02	-0.60	1.62e-04	1.96e-04	0.0
6	2	1.83e-04	0.02	-0.62	1.53e-04	2.04e-04	0.0
6	3	2.91e-04	0.02	-0.67	2.54e-04	2.20e-04	0.0
6	4	3.49e-04	0.02	-0.70	2.45e-04	2.28e-04	0.0
6	5	5.30e-05	0.01	-0.44	1.01e-04	1.45e-04	0.0
6	6	1.11e-04	0.01	-0.46	9.20e-05	1.52e-04	0.0
6	7	2.20e-04	0.01	-0.52	1.93e-04	1.69e-04	0.0
6	8	2.78e-04	0.02	-0.54	1.84e-04	1.76e-04	0.0
6	9	2.41e-04	0.02	-0.65	1.44e-04	2.11e-04	0.0
6	10	2.41e-04	0.02	-0.65	2.27e-04	2.13e-04	0.0
6	11	3.57e-04	0.02	-0.70	2.09e-04	2.28e-04	0.0
6	12	1.69e-04	0.02	-0.49	8.29e-05	1.60e-04	0.0
6	13	1.70e-04	0.01	-0.49	1.66e-04	1.61e-04	0.0
6	14	2.86e-04	0.02	-0.54	1.47e-04	1.77e-04	0.0
6	15	9.01e-05	0.01	-0.46	1.21e-04	1.50e-04	0.0
6	16	1.29e-04	0.01	-0.47	1.15e-04	1.55e-04	0.0
6	17	2.01e-04	0.01	-0.51	1.83e-04	1.66e-04	0.0
6	18	2.40e-04	0.02	-0.52	1.77e-04	1.71e-04	0.0
6	19	1.67e-04	0.01	-0.49	1.09e-04	1.60e-04	0.0
6	20	1.68e-04	0.01	-0.49	1.65e-04	1.61e-04	0.0
6	21	2.45e-04	0.02	-0.53	1.52e-04	1.71e-04	0.0
6	22	-3.06	-0.02	-0.71	2.01e-04	-6.52e-03	4.58e-05
6	23	3.06	0.05	-0.26	1.17e-04	6.48e-03	-4.59e-05
6	24	8.20e-03	-2.92	-4.41e-03	6.92e-03	2.24e-04	-1.60e-05
6	25	-7.90e-03	2.89	-0.97	-6.82e-03	8.91e-05	1.62e-05
6	26	-2.22	-0.02	-0.71	1.99e-04	-4.52e-03	4.33e-05
6	27	2.22	0.04	-0.27	1.19e-04	4.44e-03	-4.32e-05
6	28	3.05e-03	-0.97	-0.14	2.09e-03	2.04e-04	-6.61e-06
6	29	-2.74e-03	1.01	-0.83	-2.05e-03	1.13e-04	6.84e-06
6	30	-2.13	-0.02	-0.71	2.03e-04	-5.11e-03	4.34e-05
6	31	2.13	0.04	-0.26	1.15e-04	5.12e-03	-4.37e-05
6	32	6.96e-03	-1.84	-0.02	4.64e-03	2.22e-04	-1.24e-05
6	33	-6.72e-03	1.85	-0.97	-4.70e-03	8.90e-05	1.28e-05
6	34	-2.13	-0.02	-0.71	2.03e-04	-5.11e-03	4.34e-05
6	35	2.13	0.04	-0.26	1.15e-04	5.12e-03	-4.37e-05
6	36	2.84e-03	-1.04	-0.10	2.38e-03	2.09e-04	-5.35e-06
6	37	-2.40e-03	1.06	-0.86	-2.39e-03	1.10e-04	5.42e-06
6	38	9.01e-05	0.01	-0.46	1.21e-04	1.50e-04	0.0
6	39	1.68e-04	0.01	-0.49	1.65e-04	1.61e-04	0.0
6	40	1.06e-04	0.01	-0.46	1.19e-04	1.52e-04	0.0
6	41	1.57e-04	0.01	-0.49	1.58e-04	1.60e-04	0.0
6	42	1.72e-04	0.01	-0.49	1.56e-04	1.62e-04	0.0
6	43	9.01e-05	0.01	-0.46	1.21e-04	1.50e-04	0.0
6	44	1.57e-04	0.01	-0.49	1.58e-04	1.60e-04	0.0
6	45	9.01e-05	0.01	-0.46	1.21e-04	1.50e-04	0.0
6	46	1.57e-04	0.01	-0.49	1.58e-04	1.60e-04	0.0
7	1	1.09e-03	0.02	-0.60	2.34e-04	2.20e-04	0.0
7	2	1.22e-03	0.02	-0.63	2.97e-04	2.29e-04	0.0
7	3	1.49e-03	0.03	-0.68	2.11e-04	2.46e-04	0.0
7	4	1.62e-03	0.03	-0.71	2.74e-04	2.56e-04	-1.00e-06
7	5	7.39e-04	0.01	-0.44	1.86e-04	1.62e-04	0.0
7	6	8.69e-04	0.02	-0.47	2.49e-04	1.72e-04	0.0
7	7	1.14e-03	0.02	-0.52	1.63e-04	1.89e-04	0.0
7	8	1.27e-03	0.02	-0.55	2.26e-04	1.98e-04	0.0
7	9	1.35e-03	0.03	-0.66	3.60e-04	2.39e-04	0.0
7	10	1.37e-03	0.03	-0.66	2.18e-04	2.38e-04	0.0
7	11	1.63e-03	0.03	-0.71	3.44e-04	2.57e-04	-1.03e-06
7	12	9.99e-04	0.02	-0.50	3.12e-04	1.81e-04	0.0

7	13	1.02e-03	0.02	-0.50	1.70e-04	1.81e-04	0.0
7	14	1.28e-03	0.03	-0.55	2.96e-04	2.00e-04	0.0
7	15	8.27e-04	0.02	-0.46	1.81e-04	1.68e-04	0.0
7	16	9.14e-04	0.02	-0.48	2.23e-04	1.75e-04	0.0
7	17	1.09e-03	0.02	-0.51	1.66e-04	1.86e-04	0.0
7	18	1.18e-03	0.02	-0.53	2.08e-04	1.92e-04	0.0
7	19	1.00e-03	0.02	-0.50	2.65e-04	1.81e-04	0.0
7	20	1.01e-03	0.02	-0.50	1.70e-04	1.81e-04	0.0
7	21	1.19e-03	0.02	-0.53	2.54e-04	1.93e-04	0.0
7	22	-5.21	-0.03	-0.72	5.12e-05	-1.22e-03	4.85e-05
7	23	5.20	0.06	-0.26	2.95e-04	1.68e-03	-4.91e-05
7	24	0.01	-4.95	-5.30e-03	2.38e-03	3.47e-04	-2.58e-05
7	25	-0.01	4.87	-0.98	-2.20e-03	1.82e-06	2.45e-05
7	26	-3.85	-0.03	-0.71	5.79e-05	-9.69e-04	4.58e-05
7	27	3.85	0.06	-0.27	2.88e-04	1.38e-03	-4.68e-05
7	28	4.69e-03	-1.77	-0.14	1.31e-03	3.00e-04	-1.06e-05
7	29	-2.75e-03	1.83	-0.84	-9.10e-04	5.52e-05	9.66e-06
7	30	-4.24	-0.03	-0.72	5.96e-05	-1.24e-03	5.39e-05
7	31	4.23	0.07	-0.26	2.89e-04	1.77e-03	-5.42e-05
7	32	0.01	-3.46	-0.02	2.17e-03	3.43e-04	-2.54e-05
7	33	-0.01	3.47	-0.98	-1.79e-03	1.31e-06	2.58e-05
7	34	-4.24	-0.03	-0.72	5.96e-05	-1.24e-03	5.39e-05
7	35	4.23	0.07	-0.26	2.89e-04	1.77e-03	-5.42e-05
7	36	5.67e-03	-2.05	-0.11	1.58e-03	3.13e-04	-1.33e-05
7	37	-3.49e-03	2.07	-0.87	-1.14e-03	4.58e-05	1.19e-05
7	38	8.27e-04	0.02	-0.46	1.81e-04	1.68e-04	0.0
7	39	1.01e-03	0.02	-0.50	1.70e-04	1.81e-04	0.0
7	40	8.62e-04	0.02	-0.47	1.98e-04	1.71e-04	0.0
7	41	9.86e-04	0.02	-0.49	1.72e-04	1.79e-04	0.0
7	42	1.02e-03	0.02	-0.50	1.89e-04	1.81e-04	0.0
7	43	8.27e-04	0.02	-0.46	1.81e-04	1.68e-04	0.0
7	44	9.86e-04	0.02	-0.49	1.72e-04	1.79e-04	0.0
7	45	8.27e-04	0.02	-0.46	1.81e-04	1.68e-04	0.0
7	46	9.86e-04	0.02	-0.49	1.72e-04	1.79e-04	0.0
8	1	6.59e-03	5.75e-04	-0.57	-2.21e-05	1.26e-04	0.0
8	2	7.12e-03	1.34e-03	-0.59	-3.81e-05	1.36e-04	0.0
8	3	8.22e-03	1.96e-03	-0.65	-5.38e-05	1.57e-04	0.0
8	4	8.75e-03	2.73e-03	-0.67	-6.98e-05	1.67e-04	0.0
8	5	4.65e-03	8.64e-05	-0.41	-8.91e-06	8.86e-05	0.0
8	6	5.18e-03	8.55e-04	-0.44	-2.49e-05	9.87e-05	0.0
8	7	6.28e-03	1.48e-03	-0.49	-4.06e-05	1.20e-04	0.0
8	8	6.81e-03	2.24e-03	-0.52	-5.66e-05	1.30e-04	0.0
8	9	7.65e-03	2.11e-03	-0.62	-5.41e-05	1.46e-04	0.0
8	10	7.74e-03	1.55e-03	-0.62	-4.43e-05	1.47e-04	0.0
8	11	8.79e-03	3.09e-03	-0.67	-7.63e-05	1.68e-04	0.0
8	12	5.71e-03	1.62e-03	-0.47	-4.09e-05	1.09e-04	0.0
8	13	5.80e-03	1.06e-03	-0.47	-3.11e-05	1.10e-04	0.0
8	14	6.85e-03	2.60e-03	-0.52	-6.31e-05	1.31e-04	0.0
8	15	5.02e-03	3.95e-04	-0.43	-1.59e-05	9.55e-05	0.0
8	16	5.37e-03	9.08e-04	-0.45	-2.66e-05	1.02e-04	0.0
8	17	6.10e-03	1.32e-03	-0.49	-3.71e-05	1.16e-04	0.0
8	18	6.46e-03	1.83e-03	-0.50	-4.77e-05	1.23e-04	0.0
8	19	5.72e-03	1.42e-03	-0.47	-3.73e-05	1.09e-04	0.0
8	20	5.78e-03	1.04e-03	-0.47	-3.07e-05	1.10e-04	0.0
8	21	6.48e-03	2.07e-03	-0.50	-5.21e-05	1.24e-04	0.0
8	22	-0.11	-1.83e-03	-0.50	2.54e-05	-1.66e-04	-1.32e-05
8	23	0.13	3.63e-03	-0.42	-8.24e-05	3.90e-04	1.22e-05
8	24	7.06e-03	-0.23	-0.86	1.23e-03	1.35e-04	9.58e-06
8	25	3.74e-03	0.23	-0.06	-1.35e-03	7.03e-05	-9.63e-06
8	26	-0.11	-1.86e-03	-0.50	2.74e-05	-1.67e-04	-1.42e-05
8	27	0.12	3.69e-03	-0.42	-8.47e-05	3.91e-04	1.33e-05
8	28	7.14e-03	-0.16	-0.75	8.16e-04	1.34e-04	6.13e-06
8	29	4.07e-03	0.17	-0.17	-9.38e-04	7.93e-05	-6.87e-06
8	30	-0.10	-1.77e-03	-0.50	2.67e-05	-1.66e-04	-1.52e-05
8	31	0.12	3.49e-03	-0.42	-8.20e-05	3.92e-04	1.43e-05
8	32	7.11e-03	-0.21	-0.86	1.21e-03	1.36e-04	8.34e-06
8	33	3.78e-03	0.21	-0.07	-1.32e-03	7.10e-05	-8.29e-06
8	34	-0.10	-1.77e-03	-0.50	2.67e-05	-1.66e-04	-1.52e-05
8	35	0.12	3.49e-03	-0.42	-8.20e-05	3.92e-04	1.43e-05
8	36	7.26e-03	-0.16	-0.78	8.81e-04	1.36e-04	5.98e-06
8	37	3.88e-03	0.17	-0.15	-9.99e-04	7.56e-05	-6.41e-06
8	38	5.02e-03	3.95e-04	-0.43	-1.59e-05	9.55e-05	0.0
8	39	5.78e-03	1.04e-03	-0.47	-3.07e-05	1.10e-04	0.0
8	40	5.16e-03	6.00e-04	-0.44	-2.02e-05	9.82e-05	0.0
8	41	5.67e-03	9.51e-04	-0.46	-2.86e-05	1.08e-04	0.0
8	42	5.81e-03	1.16e-03	-0.47	-3.29e-05	1.11e-04	0.0
8	43	5.02e-03	3.95e-04	-0.43	-1.59e-05	9.55e-05	0.0

8	44	5.67e-03	9.51e-04	-0.46	-2.86e-05	1.08e-04	0.0
8	45	5.02e-03	3.95e-04	-0.43	-1.59e-05	9.55e-05	0.0
8	46	5.67e-03	9.51e-04	-0.46	-2.86e-05	1.08e-04	0.0
9	1	5.25e-04	0.01	-0.58	-2.02e-04	-7.34e-05	0.0
9	2	5.99e-04	0.02	-0.61	-2.06e-04	-7.12e-05	0.0
9	3	7.39e-04	0.02	-0.67	-3.12e-04	-6.66e-05	0.0
9	4	8.13e-04	0.02	-0.69	-3.16e-04	-6.44e-05	0.0
9	5	3.49e-04	0.01	-0.43	-1.27e-04	-5.82e-05	0.0
9	6	4.23e-04	0.01	-0.45	-1.31e-04	-5.60e-05	0.0
9	7	5.63e-04	0.01	-0.51	-2.38e-04	-5.14e-05	0.0
9	8	6.37e-04	0.02	-0.54	-2.41e-04	-4.92e-05	0.0
9	9	6.73e-04	0.02	-0.64	-2.09e-04	-6.90e-05	0.0
9	10	6.75e-04	0.02	-0.64	-2.79e-04	-6.86e-05	0.0
9	11	8.23e-04	0.02	-0.70	-2.87e-04	-6.43e-05	0.0
9	12	4.97e-04	0.01	-0.48	-1.34e-04	-5.38e-05	0.0
9	13	4.99e-04	0.01	-0.49	-2.04e-04	-5.34e-05	0.0
9	14	6.47e-04	0.02	-0.54	-2.12e-04	-4.91e-05	0.0
9	15	3.96e-04	0.01	-0.45	-1.52e-04	-5.67e-05	0.0
9	16	4.46e-04	0.01	-0.46	-1.54e-04	-5.52e-05	0.0
9	17	5.39e-04	0.01	-0.50	-2.25e-04	-5.22e-05	0.0
9	18	5.89e-04	0.02	-0.52	-2.28e-04	-5.07e-05	0.0
9	19	4.95e-04	0.01	-0.48	-1.56e-04	-5.38e-05	0.0
9	20	4.96e-04	0.01	-0.48	-2.03e-04	-5.35e-05	0.0
9	21	5.95e-04	0.02	-0.52	-2.08e-04	-5.06e-05	0.0
9	22	-3.01	6.03e-03	-0.52	-1.70e-04	-2.68e-03	3.95e-05
9	23	3.01	0.02	-0.43	-2.21e-04	2.53e-03	-3.92e-05
9	24	-5.75e-03	-2.94	-0.89	7.00e-03	-1.58e-04	-1.39e-05
9	25	6.49e-03	2.90	-0.06	-6.87e-03	4.07e-05	1.37e-05
9	26	-2.17	6.44e-03	-0.52	-1.70e-04	-1.49e-03	3.72e-05
9	27	2.17	0.02	-0.43	-2.21e-04	1.19e-03	-3.69e-05
9	28	-1.22e-03	-0.98	-0.77	2.01e-03	-1.21e-04	-4.75e-06
9	29	2.19e-03	1.01	-0.18	-2.06e-03	1.26e-05	4.84e-06
9	30	-2.09	6.51e-03	-0.52	-1.70e-04	-1.77e-03	3.70e-05
9	31	2.09	0.02	-0.44	-2.21e-04	1.61e-03	-3.67e-05
9	32	-4.94e-03	-1.85	-0.88	4.76e-03	-1.55e-04	-1.15e-05
9	33	5.89e-03	1.86	-0.07	-4.69e-03	3.87e-05	1.14e-05
9	34	-2.09	6.51e-03	-0.52	-1.70e-04	-1.77e-03	3.70e-05
9	35	2.09	0.02	-0.44	-2.21e-04	1.61e-03	-3.67e-05
9	36	-1.24e-03	-1.05	-0.80	2.40e-03	-1.28e-04	-4.09e-06
9	37	2.14e-03	1.06	-0.15	-2.32e-03	1.63e-05	4.00e-06
9	38	3.96e-04	0.01	-0.45	-1.52e-04	-5.67e-05	0.0
9	39	4.96e-04	0.01	-0.48	-2.03e-04	-5.35e-05	0.0
9	40	4.16e-04	0.01	-0.45	-1.53e-04	-5.61e-05	0.0
9	41	4.82e-04	0.01	-0.48	-1.96e-04	-5.40e-05	0.0
9	42	5.02e-04	0.01	-0.49	-1.97e-04	-5.34e-05	0.0
9	43	3.96e-04	0.01	-0.45	-1.52e-04	-5.67e-05	0.0
9	44	4.82e-04	0.01	-0.48	-1.96e-04	-5.40e-05	0.0
9	45	3.96e-04	0.01	-0.45	-1.52e-04	-5.67e-05	0.0
9	46	4.82e-04	0.01	-0.48	-1.96e-04	-5.40e-05	0.0
10	1	7.87e-04	0.02	-0.59	-2.79e-04	-6.81e-05	0.0
10	2	9.12e-04	0.02	-0.62	-3.46e-04	-6.39e-05	0.0
10	3	1.16e-03	0.03	-0.68	-3.03e-04	-5.63e-05	0.0
10	4	1.29e-03	0.03	-0.70	-3.71e-04	-5.20e-05	0.0
10	5	5.10e-04	0.01	-0.43	-2.08e-04	-5.55e-05	0.0
10	6	6.34e-04	0.02	-0.46	-2.76e-04	-5.12e-05	0.0
10	7	8.84e-04	0.02	-0.52	-2.33e-04	-4.36e-05	0.0
10	8	1.01e-03	0.03	-0.55	-3.00e-04	-3.93e-05	0.0
10	9	1.04e-03	0.03	-0.65	-4.14e-04	-5.96e-05	0.0
10	10	1.05e-03	0.03	-0.65	-2.96e-04	-5.98e-05	0.0
10	11	1.30e-03	0.03	-0.71	-4.31e-04	-5.13e-05	0.0
10	12	7.59e-04	0.02	-0.49	-3.43e-04	-4.69e-05	0.0
10	13	7.72e-04	0.02	-0.49	-2.25e-04	-4.71e-05	0.0
10	14	1.02e-03	0.03	-0.55	-3.60e-04	-3.86e-05	0.0
10	15	5.93e-04	0.02	-0.45	-2.14e-04	-5.28e-05	0.0
10	16	6.76e-04	0.02	-0.47	-2.59e-04	-5.00e-05	0.0
10	17	8.42e-04	0.02	-0.51	-2.30e-04	-4.49e-05	0.0
10	18	9.25e-04	0.02	-0.53	-2.75e-04	-4.21e-05	0.0
10	19	7.59e-04	0.02	-0.49	-3.04e-04	-4.71e-05	0.0
10	20	7.67e-04	0.02	-0.49	-2.25e-04	-4.73e-05	0.0
10	21	9.33e-04	0.02	-0.53	-3.15e-04	-4.16e-05	0.0
10	22	-5.14	9.78e-03	-0.53	-1.76e-04	-5.90e-04	6.34e-05
10	23	5.14	0.03	-0.44	-2.70e-04	4.51e-04	-6.28e-05
10	24	-9.58e-03	-4.96	-0.90	2.29e-03	-1.37e-04	-2.17e-05
10	25	0.01	4.89	-0.06	-2.35e-03	2.97e-05	2.11e-05
10	26	-3.79	0.01	-0.53	-1.73e-04	-6.01e-04	6.04e-05
10	27	3.78	0.03	-0.44	-2.74e-04	4.68e-04	-5.99e-05
10	28	-2.02e-03	-1.78	-0.78	8.88e-04	-1.04e-04	-7.06e-06

10	29	3.49e-03	1.83	-0.18	-1.43e-03	6.80e-06	7.32e-06
10	30	-4.17	8.83e-03	-0.53	-1.74e-04	-5.97e-04	6.87e-05
10	31	4.16	0.03	-0.44	-2.71e-04	4.43e-04	-6.81e-05
10	32	-8.72e-03	-3.48	-0.89	1.83e-03	-1.34e-04	-2.08e-05
10	33	0.01	3.49	-0.07	-2.20e-03	2.81e-05	2.18e-05
10	34	-4.17	8.83e-03	-0.53	-1.74e-04	-5.97e-04	6.87e-05
10	35	4.16	0.03	-0.44	-2.71e-04	4.43e-04	-6.81e-05
10	36	-2.69e-03	-2.06	-0.81	1.12e-03	-1.09e-04	-8.97e-06
10	37	4.04e-03	2.08	-0.16	-1.66e-03	9.51e-06	8.85e-06
10	38	5.93e-04	0.02	-0.45	-2.14e-04	-5.28e-05	0.0
10	39	7.67e-04	0.02	-0.49	-2.25e-04	-4.73e-05	0.0
10	40	6.26e-04	0.02	-0.46	-2.32e-04	-5.17e-05	0.0
10	41	7.42e-04	0.02	-0.49	-2.23e-04	-4.81e-05	0.0
10	42	7.76e-04	0.02	-0.49	-2.41e-04	-4.69e-05	0.0
10	43	5.93e-04	0.02	-0.45	-2.14e-04	-5.28e-05	0.0
10	44	7.42e-04	0.02	-0.49	-2.23e-04	-4.81e-05	0.0
10	45	5.93e-04	0.02	-0.45	-2.14e-04	-5.28e-05	0.0
10	46	7.42e-04	0.02	-0.49	-2.23e-04	-4.81e-05	0.0
11	1	7.48e-03	3.47e-03	-0.59	-7.47e-05	1.42e-04	0.0
11	2	8.17e-03	4.14e-03	-0.62	-8.88e-05	1.55e-04	0.0
11	3	9.55e-03	5.27e-03	-0.68	-1.12e-04	1.82e-04	0.0
11	4	0.01	5.95e-03	-0.71	-1.26e-04	1.95e-04	0.0
11	5	5.22e-03	2.20e-03	-0.43	-4.79e-05	9.92e-05	0.0
11	6	5.92e-03	2.88e-03	-0.46	-6.19e-05	1.13e-04	0.0
11	7	7.29e-03	4.01e-03	-0.52	-8.54e-05	1.39e-04	0.0
11	8	7.99e-03	4.69e-03	-0.55	-9.95e-05	1.52e-04	0.0
11	9	8.87e-03	4.82e-03	-0.65	-1.03e-04	1.69e-04	0.0
11	10	8.92e-03	4.73e-03	-0.65	-1.01e-04	1.70e-04	0.0
11	11	0.01	6.08e-03	-0.71	-1.29e-04	1.96e-04	0.0
11	12	6.62e-03	3.55e-03	-0.49	-7.60e-05	1.26e-04	0.0
11	13	6.67e-03	3.47e-03	-0.49	-7.42e-05	1.27e-04	0.0
11	14	8.06e-03	4.82e-03	-0.56	-1.02e-04	1.53e-04	0.0
11	15	5.68e-03	2.60e-03	-0.45	-5.62e-05	1.08e-04	0.0
11	16	6.14e-03	3.05e-03	-0.47	-6.56e-05	1.17e-04	0.0
11	17	7.06e-03	3.81e-03	-0.51	-8.13e-05	1.34e-04	0.0
11	18	7.53e-03	4.26e-03	-0.53	-9.06e-05	1.43e-04	0.0
11	19	6.61e-03	3.51e-03	-0.49	-7.50e-05	1.26e-04	0.0
11	20	6.65e-03	3.45e-03	-0.49	-7.37e-05	1.26e-04	0.0
11	21	7.58e-03	4.35e-03	-0.53	-9.25e-05	1.44e-04	0.0
11	22	-0.10	1.63e-03	-0.51	-4.02e-05	-6.34e-05	-1.38e-05
11	23	0.11	4.96e-03	-0.46	-1.03e-04	3.21e-04	1.34e-05
11	24	6.51e-03	-0.20	-0.57	7.00e-04	1.26e-04	5.28e-06
11	25	6.82e-03	0.21	-0.40	-8.60e-04	1.28e-04	-5.30e-06
11	26	-0.09	1.62e-03	-0.51	-3.89e-05	-6.10e-05	-1.48e-05
11	27	0.11	4.99e-03	-0.46	-1.04e-04	3.19e-04	1.43e-05
11	28	6.54e-03	-0.15	-0.55	5.16e-04	1.25e-04	3.48e-06
11	29	6.61e-03	0.15	-0.42	-6.74e-04	1.25e-04	-3.87e-06
11	30	-0.09	1.69e-03	-0.51	-3.94e-05	-6.09e-05	-1.54e-05
11	31	0.10	4.85e-03	-0.46	-1.03e-04	3.20e-04	1.49e-05
11	32	6.50e-03	-0.18	-0.57	6.92e-04	1.25e-04	4.59e-06
11	33	6.81e-03	0.19	-0.40	-8.44e-04	1.28e-04	-4.55e-06
11	34	-0.09	1.69e-03	-0.51	-3.94e-05	-6.09e-05	-1.54e-05
11	35	0.10	4.85e-03	-0.46	-1.03e-04	3.20e-04	1.49e-05
11	36	6.55e-03	-0.15	-0.56	5.69e-04	1.25e-04	3.39e-06
11	37	6.62e-03	0.15	-0.42	-7.21e-04	1.26e-04	-3.62e-06
11	38	5.68e-03	2.60e-03	-0.45	-5.62e-05	1.08e-04	0.0
11	39	6.65e-03	3.45e-03	-0.49	-7.37e-05	1.26e-04	0.0
11	40	5.87e-03	2.78e-03	-0.46	-6.00e-05	1.12e-04	0.0
11	41	6.51e-03	3.33e-03	-0.49	-7.12e-05	1.24e-04	0.0
11	42	6.69e-03	3.51e-03	-0.49	-7.50e-05	1.27e-04	0.0
11	43	5.68e-03	2.60e-03	-0.45	-5.62e-05	1.08e-04	0.0
11	44	6.51e-03	3.33e-03	-0.49	-7.12e-05	1.24e-04	0.0
11	45	5.68e-03	2.60e-03	-0.45	-5.62e-05	1.08e-04	0.0
11	46	6.51e-03	3.33e-03	-0.49	-7.12e-05	1.24e-04	0.0
12	1	5.31e-04	0.01	-0.61	-1.71e-05	-5.79e-05	0.0
12	2	6.08e-04	0.02	-0.64	-3.02e-05	-6.25e-05	0.0
12	3	7.43e-04	0.02	-0.71	-1.79e-05	-7.13e-05	0.0
12	4	8.20e-04	0.02	-0.74	-3.11e-05	-7.59e-05	0.0
12	5	3.54e-04	0.01	-0.44	-1.29e-05	-4.11e-05	0.0
12	6	4.31e-04	0.01	-0.48	-2.60e-05	-4.57e-05	0.0
12	7	5.66e-04	0.01	-0.54	-1.38e-05	-5.45e-05	0.0
12	8	6.44e-04	0.02	-0.58	-2.69e-05	-5.91e-05	0.0
12	9	6.86e-04	0.02	-0.68	-4.33e-05	-6.71e-05	0.0
12	10	6.79e-04	0.02	-0.68	-1.77e-05	-6.73e-05	0.0
12	11	8.34e-04	0.02	-0.75	-4.39e-05	-7.64e-05	0.0
12	12	5.09e-04	0.01	-0.51	-3.91e-05	-5.02e-05	0.0
12	13	5.02e-04	0.01	-0.51	-1.35e-05	-5.05e-05	0.0

12	14	6.58e-04	0.02	-0.58	-3.97e-05	-5.96e-05	0.0
12	15	4.01e-04	0.01	-0.47	-1.31e-05	-4.41e-05	0.0
12	16	4.53e-04	0.01	-0.49	-2.18e-05	-4.71e-05	0.0
12	17	5.42e-04	0.01	-0.53	-1.37e-05	-5.30e-05	0.0
12	18	5.94e-04	0.02	-0.56	-2.24e-05	-5.61e-05	0.0
12	19	5.04e-04	0.01	-0.51	-3.06e-05	-5.02e-05	0.0
12	20	5.00e-04	0.01	-0.51	-1.35e-05	-5.04e-05	0.0
12	21	6.03e-04	0.02	-0.56	-3.10e-05	-5.64e-05	0.0
12	22	-3.02	6.20e-03	-0.53	1.46e-05	-7.51e-03	3.63e-05
12	23	3.02	0.02	-0.48	-4.15e-05	7.47e-03	-3.62e-05
12	24	-1.80e-03	-2.94	-0.59	6.25e-03	-6.48e-05	-1.02e-05
12	25	2.68e-03	2.90	-0.42	-6.15e-03	-3.75e-05	9.81e-06
12	26	-2.18	6.60e-03	-0.53	1.55e-05	-5.71e-03	3.42e-05
12	27	2.18	0.02	-0.48	-4.26e-05	5.65e-03	-3.42e-05
12	28	-9.85e-05	-0.98	-0.58	1.61e-03	-5.70e-05	-2.40e-06
12	29	1.10e-03	1.01	-0.44	-1.58e-03	-4.29e-05	2.32e-06
12	30	-2.10	6.66e-03	-0.53	1.52e-05	-6.21e-03	3.38e-05
12	31	2.10	0.02	-0.48	-4.16e-05	6.17e-03	-3.36e-05
12	32	-1.51e-03	-1.85	-0.59	4.02e-03	-6.38e-05	-9.11e-06
12	33	2.50e-03	1.86	-0.42	-4.02e-03	-3.79e-05	9.15e-06
12	34	-2.10	6.66e-03	-0.53	1.52e-05	-6.21e-03	3.38e-05
12	35	2.10	0.02	-0.48	-4.16e-05	6.17e-03	-3.36e-05
12	36	-1.33e-04	-1.05	-0.58	1.90e-03	-5.78e-05	-2.64e-06
12	37	1.12e-03	1.06	-0.44	-1.82e-03	-4.24e-05	2.43e-06
12	38	4.01e-04	0.01	-0.47	-1.31e-05	-4.41e-05	0.0
12	39	5.00e-04	0.01	-0.51	-1.35e-05	-5.04e-05	0.0
12	40	4.22e-04	0.01	-0.48	-1.66e-05	-4.53e-05	0.0
12	41	4.86e-04	0.01	-0.51	-1.35e-05	-4.95e-05	0.0
12	42	5.06e-04	0.01	-0.52	-1.69e-05	-5.07e-05	0.0
12	43	4.01e-04	0.01	-0.47	-1.31e-05	-4.41e-05	0.0
12	44	4.86e-04	0.01	-0.51	-1.35e-05	-4.95e-05	0.0
12	45	4.01e-04	0.01	-0.47	-1.31e-05	-4.41e-05	0.0
12	46	4.86e-04	0.01	-0.51	-1.35e-05	-4.95e-05	0.0
13	1	7.37e-04	0.02	-0.62	-7.24e-06	4.03e-06	0.0
13	2	8.52e-04	0.02	-0.66	-6.21e-06	6.99e-06	0.0
13	3	1.09e-03	0.03	-0.72	-5.11e-05	1.26e-05	0.0
13	4	1.20e-03	0.03	-0.76	-5.01e-05	1.56e-05	0.0
13	5	4.77e-04	0.01	-0.45	5.68e-06	0.0	0.0
13	6	5.92e-04	0.02	-0.49	6.70e-06	3.86e-06	0.0
13	7	8.29e-04	0.02	-0.55	-3.82e-05	9.49e-06	0.0
13	8	9.44e-04	0.03	-0.59	-3.72e-05	1.24e-05	0.0
13	9	9.67e-04	0.03	-0.70	-5.19e-06	9.94e-06	0.0
13	10	9.83e-04	0.03	-0.69	-3.79e-05	1.00e-05	0.0
13	11	1.21e-03	0.03	-0.77	-3.59e-05	1.60e-05	0.0
13	12	7.07e-04	0.02	-0.53	7.73e-06	6.81e-06	0.0
13	13	7.23e-04	0.02	-0.52	-2.50e-05	6.91e-06	0.0
13	14	9.54e-04	0.03	-0.60	-2.30e-05	1.28e-05	0.0
13	15	5.55e-04	0.02	-0.48	-4.07e-06	2.81e-06	0.0
13	16	6.32e-04	0.02	-0.50	-3.39e-06	4.78e-06	0.0
13	17	7.90e-04	0.02	-0.54	-3.33e-05	8.53e-06	0.0
13	18	8.66e-04	0.02	-0.57	-3.26e-05	1.05e-05	0.0
13	19	7.09e-04	0.02	-0.52	-2.70e-06	6.75e-06	0.0
13	20	7.19e-04	0.02	-0.52	-2.45e-05	6.82e-06	0.0
13	21	8.73e-04	0.02	-0.57	-2.32e-05	1.08e-05	0.0
13	22	-5.17	9.52e-03	-0.54	1.46e-05	-3.67e-03	7.16e-05
13	23	5.16	0.03	-0.49	-5.79e-05	3.64e-03	-7.13e-05
13	24	-3.26e-03	-4.96	-0.60	1.20e-03	-1.06e-05	-1.79e-05
13	25	4.39e-03	4.89	-0.44	-1.16e-03	2.12e-05	1.74e-05
13	26	-3.81	0.01	-0.54	1.77e-05	-2.81e-03	6.84e-05
13	27	3.81	0.03	-0.49	-6.12e-05	2.80e-03	-6.81e-05
13	28	-2.88e-04	-1.78	-0.59	7.58e-04	-3.44e-06	-4.47e-06
13	29	1.69e-03	1.83	-0.45	-8.15e-04	1.59e-05	4.61e-06
13	30	-4.19	8.59e-03	-0.54	1.57e-05	-3.99e-03	7.68e-05
13	31	4.19	0.03	-0.49	-5.78e-05	3.97e-03	-7.65e-05
13	32	-2.87e-03	-3.48	-0.60	1.18e-03	-1.00e-05	-1.63e-05
13	33	4.38e-03	3.49	-0.44	-1.18e-03	2.13e-05	1.73e-05
13	34	-4.19	8.59e-03	-0.54	1.57e-05	-3.99e-03	7.68e-05
13	35	4.19	0.03	-0.49	-5.78e-05	3.97e-03	-7.65e-05
13	36	-5.23e-04	-2.06	-0.59	8.85e-04	-4.65e-06	-5.52e-06
13	37	1.90e-03	2.08	-0.45	-9.30e-04	1.67e-05	5.40e-06
13	38	5.55e-04	0.02	-0.48	-4.07e-06	2.81e-06	0.0
13	39	7.19e-04	0.02	-0.52	-2.45e-05	6.82e-06	0.0
13	40	5.86e-04	0.02	-0.49	-3.80e-06	3.60e-06	0.0
13	41	6.96e-04	0.02	-0.52	-2.16e-05	6.24e-06	0.0
13	42	7.26e-04	0.02	-0.53	-2.13e-05	7.03e-06	0.0
13	43	5.55e-04	0.02	-0.48	-4.07e-06	2.81e-06	0.0
13	44	6.96e-04	0.02	-0.52	-2.16e-05	6.24e-06	0.0

13	45	5.55e-04	0.02	-0.48	-4.07e-06	2.81e-06	0.0
13	46	6.96e-04	0.02	-0.52	-2.16e-05	6.24e-06	0.0
14	1	7.96e-03	-3.81e-04	-0.60	1.02e-06	1.51e-04	0.0
14	2	8.72e-03	-5.46e-04	-0.64	3.42e-06	1.66e-04	0.0
14	3	0.01	-1.01e-03	-0.70	1.22e-05	1.94e-04	0.0
14	4	0.01	-1.18e-03	-0.74	1.46e-05	2.08e-04	0.0
14	5	5.56e-03	-1.31e-04	-0.44	-2.09e-06	1.06e-04	0.0
14	6	6.32e-03	-2.96e-04	-0.47	0.0	1.20e-04	0.0
14	7	7.78e-03	-7.63e-04	-0.54	9.13e-06	1.48e-04	0.0
14	8	8.54e-03	-9.27e-04	-0.57	1.15e-05	1.62e-04	0.0
14	9	9.48e-03	-7.10e-04	-0.67	5.81e-06	1.80e-04	0.0
14	10	9.52e-03	-8.23e-04	-0.67	8.88e-06	1.81e-04	0.0
14	11	0.01	-1.15e-03	-0.74	1.37e-05	2.10e-04	0.0
14	12	7.07e-03	-4.60e-04	-0.51	2.70e-06	1.35e-04	0.0
14	13	7.11e-03	-5.73e-04	-0.51	5.77e-06	1.35e-04	0.0
14	14	8.63e-03	-9.02e-04	-0.57	1.06e-05	1.64e-04	0.0
14	15	6.05e-03	-2.72e-04	-0.46	0.0	1.15e-04	0.0
14	16	6.56e-03	-3.81e-04	-0.48	2.00e-06	1.25e-04	0.0
14	17	7.53e-03	-6.93e-04	-0.53	7.89e-06	1.43e-04	0.0
14	18	8.04e-03	-8.02e-04	-0.55	9.48e-06	1.53e-04	0.0
14	19	7.06e-03	-4.91e-04	-0.50	3.60e-06	1.34e-04	0.0
14	20	7.09e-03	-5.66e-04	-0.51	5.64e-06	1.35e-04	0.0
14	21	8.10e-03	-7.86e-04	-0.55	8.83e-06	1.54e-04	0.0
14	22	-0.09	-1.32e-04	-0.52	-9.03e-06	-3.97e-05	8.43e-06
14	23	0.11	-9.10e-04	-0.48	1.71e-05	3.15e-04	-8.87e-06
14	24	6.56e-03	-0.19	-0.41	5.51e-04	1.25e-04	5.93e-06
14	25	7.69e-03	0.19	-0.59	-5.39e-04	1.47e-04	-5.98e-06
14	26	-0.09	-2.24e-05	-0.52	-1.03e-05	-3.74e-05	8.91e-06
14	27	0.10	-1.03e-03	-0.48	1.86e-05	3.13e-04	-9.35e-06
14	28	6.38e-03	-0.14	-0.43	4.42e-04	1.22e-04	3.94e-06
14	29	7.60e-03	0.14	-0.57	-4.18e-04	1.44e-04	-4.35e-06
14	30	-0.08	-1.15e-05	-0.52	-9.70e-06	-3.69e-05	9.47e-06
14	31	0.10	-9.94e-04	-0.48	1.69e-05	3.14e-04	-9.91e-06
14	32	6.54e-03	-0.17	-0.41	5.40e-04	1.24e-04	5.16e-06
14	33	7.70e-03	0.17	-0.59	-5.33e-04	1.47e-04	-5.13e-06
14	34	-0.08	-1.15e-05	-0.52	-9.70e-06	-3.69e-05	9.47e-06
14	35	0.10	-9.94e-04	-0.48	1.69e-05	3.14e-04	-9.91e-06
14	36	6.34e-03	-0.14	-0.42	4.79e-04	1.21e-04	3.84e-06
14	37	7.68e-03	0.14	-0.58	-4.51e-04	1.46e-04	-4.07e-06
14	38	6.05e-03	-2.72e-04	-0.46	0.0	1.15e-04	0.0
14	39	7.09e-03	-5.66e-04	-0.51	5.64e-06	1.35e-04	0.0
14	40	6.25e-03	-3.16e-04	-0.47	1.04e-06	1.19e-04	0.0
14	41	6.94e-03	-5.24e-04	-0.50	4.89e-06	1.32e-04	0.0
14	42	7.14e-03	-5.68e-04	-0.51	5.53e-06	1.36e-04	0.0
14	43	6.05e-03	-2.72e-04	-0.46	0.0	1.15e-04	0.0
14	44	6.94e-03	-5.24e-04	-0.50	4.89e-06	1.32e-04	0.0
14	45	6.05e-03	-2.72e-04	-0.46	0.0	1.15e-04	0.0
14	46	6.94e-03	-5.24e-04	-0.50	4.89e-06	1.32e-04	0.0
15	1	5.18e-04	0.01	-0.63	-1.68e-04	-6.02e-05	0.0
15	2	5.96e-04	0.02	-0.67	-1.65e-04	-6.53e-05	0.0
15	3	7.25e-04	0.02	-0.74	-2.51e-04	-7.50e-05	0.0
15	4	8.03e-04	0.02	-0.77	-2.48e-04	-8.00e-05	0.0
15	5	3.45e-04	0.01	-0.46	-1.08e-04	-4.26e-05	0.0
15	6	4.23e-04	0.01	-0.49	-1.05e-04	-4.76e-05	0.0
15	7	5.53e-04	0.01	-0.57	-1.91e-04	-5.73e-05	0.0
15	8	6.30e-04	0.02	-0.60	-1.88e-04	-6.23e-05	0.0
15	9	6.73e-04	0.02	-0.70	-1.62e-04	-7.04e-05	0.0
15	10	6.63e-04	0.02	-0.71	-2.26e-04	-7.05e-05	0.0
15	11	8.18e-04	0.02	-0.78	-2.20e-04	-8.07e-05	0.0
15	12	5.00e-04	0.01	-0.53	-1.02e-04	-5.27e-05	0.0
15	13	4.90e-04	0.01	-0.53	-1.66e-04	-5.29e-05	0.0
15	14	6.45e-04	0.02	-0.61	-1.60e-04	-6.30e-05	0.0
15	15	3.92e-04	0.01	-0.48	-1.27e-04	-4.58e-05	0.0
15	16	4.43e-04	0.01	-0.51	-1.24e-04	-4.92e-05	0.0
15	17	5.30e-04	0.01	-0.55	-1.82e-04	-5.57e-05	0.0
15	18	5.81e-04	0.02	-0.58	-1.80e-04	-5.90e-05	0.0
15	19	4.95e-04	0.01	-0.53	-1.22e-04	-5.26e-05	0.0
15	20	4.88e-04	0.01	-0.53	-1.65e-04	-5.27e-05	0.0
15	21	5.91e-04	0.02	-0.58	-1.61e-04	-5.95e-05	0.0
15	22	-3.04	6.42e-03	-0.55	-1.65e-04	-7.66e-03	4.47e-05
15	23	3.04	0.02	-0.50	-1.55e-04	7.62e-03	-4.46e-05
15	24	1.74e-03	-2.94	-0.43	6.31e-03	-4.07e-05	-9.64e-06
15	25	-7.98e-04	2.90	-0.62	-6.21e-03	-6.58e-05	9.52e-06
15	26	-2.20	6.80e-03	-0.55	-1.67e-04	-5.88e-03	4.22e-05
15	27	2.20	0.02	-0.50	-1.54e-04	5.81e-03	-4.22e-05
15	28	7.91e-04	-0.98	-0.45	1.57e-03	-4.32e-05	-2.13e-06
15	29	1.80e-04	1.02	-0.60	-1.97e-03	-6.10e-05	2.21e-06

15	30	-2.11	6.87e-03	-0.55	-1.65e-04	-6.36e-03	4.11e-05
15	31	2.11	0.02	-0.50	-1.55e-04	6.30e-03	-4.11e-05
15	32	1.65e-03	-1.85	-0.43	4.07e-03	-4.09e-05	-8.67e-06
15	33	-7.13e-04	1.86	-0.62	-4.06e-03	-6.58e-05	8.96e-06
15	34	-2.11	6.87e-03	-0.55	-1.65e-04	-6.36e-03	4.11e-05
15	35	2.11	0.02	-0.50	-1.55e-04	6.30e-03	-4.11e-05
15	36	8.23e-04	-1.05	-0.45	1.89e-03	-4.24e-05	-2.41e-06
15	37	1.82e-04	1.07	-0.61	-2.24e-03	-6.19e-05	2.39e-06
15	38	3.92e-04	0.01	-0.48	-1.27e-04	-4.58e-05	0.0
15	39	4.88e-04	0.01	-0.53	-1.65e-04	-5.27e-05	0.0
15	40	4.12e-04	0.01	-0.49	-1.26e-04	-4.72e-05	0.0
15	41	4.74e-04	0.01	-0.52	-1.60e-04	-5.17e-05	0.0
15	42	4.95e-04	0.01	-0.53	-1.59e-04	-5.31e-05	0.0
15	43	3.92e-04	0.01	-0.48	-1.27e-04	-4.58e-05	0.0
15	44	4.74e-04	0.01	-0.52	-1.60e-04	-5.17e-05	0.0
15	45	3.92e-04	0.01	-0.48	-1.27e-04	-4.58e-05	0.0
15	46	4.74e-04	0.01	-0.52	-1.60e-04	-5.17e-05	0.0
16	1	7.29e-04	0.02	-0.65	-2.23e-04	9.10e-06	0.0
16	2	8.42e-04	0.02	-0.69	-2.66e-04	1.22e-05	0.0
16	3	1.08e-03	0.03	-0.75	-2.07e-04	1.81e-05	0.0
16	4	1.19e-03	0.03	-0.79	-2.50e-04	2.12e-05	0.0
16	5	4.72e-04	0.01	-0.47	-1.75e-04	4.69e-06	0.0
16	6	5.85e-04	0.02	-0.51	-2.18e-04	7.80e-06	0.0
16	7	8.19e-04	0.02	-0.58	-1.60e-04	1.37e-05	0.0
16	8	9.32e-04	0.03	-0.62	-2.03e-04	1.68e-05	0.0
16	9	9.55e-04	0.03	-0.73	-3.09e-04	1.53e-05	0.0
16	10	9.73e-04	0.03	-0.72	-2.12e-04	1.54e-05	0.0
16	11	1.20e-03	0.03	-0.80	-2.98e-04	2.16e-05	0.0
16	12	6.97e-04	0.02	-0.55	-2.62e-04	1.09e-05	0.0
16	13	7.15e-04	0.02	-0.55	-1.64e-04	1.10e-05	0.0
16	14	9.41e-04	0.03	-0.63	-2.51e-04	1.72e-05	0.0
16	15	5.49e-04	0.02	-0.50	-1.72e-04	6.69e-06	0.0
16	16	6.24e-04	0.02	-0.52	-2.01e-04	8.77e-06	0.0
16	17	7.81e-04	0.02	-0.57	-1.61e-04	1.27e-05	0.0
16	18	8.56e-04	0.02	-0.59	-1.90e-04	1.48e-05	0.0
16	19	6.99e-04	0.02	-0.55	-2.29e-04	1.08e-05	0.0
16	20	7.11e-04	0.02	-0.54	-1.65e-04	1.09e-05	0.0
16	21	8.62e-04	0.02	-0.60	-2.22e-04	1.51e-05	0.0
16	22	-5.19	9.25e-03	-0.56	-1.84e-04	-3.78e-03	4.96e-05
16	23	5.18	0.03	-0.52	-1.49e-04	3.77e-03	-4.95e-05
16	24	2.74e-03	-4.96	-0.45	7.92e-04	1.81e-05	-1.76e-05
16	25	-1.43e-03	4.89	-0.63	-1.49e-03	2.12e-06	1.71e-05
16	26	-3.83	9.79e-03	-0.56	-1.87e-04	-2.88e-03	4.64e-05
16	27	3.83	0.03	-0.52	-1.46e-04	2.88e-03	-4.65e-05
16	28	1.25e-03	-1.78	-0.46	4.88e-04	1.55e-05	-4.42e-06
16	29	1.30e-04	1.83	-0.62	-8.12e-04	5.08e-06	4.38e-06
16	30	-4.21	8.33e-03	-0.56	-1.84e-04	-4.13e-03	5.55e-05
16	31	4.21	0.03	-0.52	-1.50e-04	4.11e-03	-5.53e-05
16	32	2.62e-03	-3.48	-0.45	7.85e-04	1.78e-05	-1.61e-05
16	33	-1.43e-03	3.49	-0.63	-1.39e-03	1.97e-06	1.69e-05
16	34	-4.21	8.33e-03	-0.56	-1.84e-04	-4.13e-03	5.55e-05
16	35	4.21	0.03	-0.52	-1.50e-04	4.11e-03	-5.53e-05
16	36	1.38e-03	-2.06	-0.46	6.06e-04	1.61e-05	-5.43e-06
16	37	6.94e-05	2.08	-0.62	-9.24e-04	4.72e-06	5.14e-06
16	38	5.49e-04	0.02	-0.50	-1.72e-04	6.69e-06	0.0
16	39	7.11e-04	0.02	-0.54	-1.65e-04	1.09e-05	0.0
16	40	5.79e-04	0.02	-0.51	-1.83e-04	7.52e-06	0.0
16	41	6.88e-04	0.02	-0.54	-1.66e-04	1.03e-05	0.0
16	42	7.18e-04	0.02	-0.55	-1.77e-04	1.11e-05	0.0
16	43	5.49e-04	0.02	-0.50	-1.72e-04	6.69e-06	0.0
16	44	6.88e-04	0.02	-0.54	-1.66e-04	1.03e-05	0.0
16	45	5.49e-04	0.02	-0.50	-1.72e-04	6.69e-06	0.0
16	46	6.88e-04	0.02	-0.54	-1.66e-04	1.03e-05	0.0
17	1	7.60e-03	6.15e-03	-0.61	-1.18e-04	1.45e-04	0.0
17	2	8.21e-03	5.81e-03	-0.64	-1.12e-04	1.56e-04	0.0
17	3	9.49e-03	6.93e-03	-0.71	-1.29e-04	1.81e-04	0.0
17	4	0.01	6.59e-03	-0.74	-1.23e-04	1.92e-04	0.0
17	5	5.36e-03	4.53e-03	-0.45	-8.77e-05	1.02e-04	0.0
17	6	5.97e-03	4.19e-03	-0.48	-8.19e-05	1.14e-04	0.0
17	7	7.25e-03	5.31e-03	-0.54	-9.91e-05	1.38e-04	0.0
17	8	7.86e-03	4.97e-03	-0.57	-9.32e-05	1.50e-04	0.0
17	9	8.82e-03	5.48e-03	-0.67	-1.06e-04	1.68e-04	0.0
17	10	8.92e-03	6.70e-03	-0.68	-1.26e-04	1.70e-04	0.0
17	11	0.01	6.02e-03	-0.74	-1.14e-04	1.93e-04	0.0
17	12	6.58e-03	3.86e-03	-0.51	-7.60e-05	1.25e-04	0.0
17	13	6.68e-03	5.08e-03	-0.51	-9.57e-05	1.27e-04	0.0
17	14	7.90e-03	4.40e-03	-0.57	-8.40e-05	1.51e-04	0.0

17	15	5.78e-03	4.70e-03	-0.47	-9.03e-05	1.10e-04	0.0
17	16	6.19e-03	4.48e-03	-0.49	-8.64e-05	1.18e-04	0.0
17	17	7.04e-03	5.22e-03	-0.53	-9.78e-05	1.34e-04	0.0
17	18	7.45e-03	5.00e-03	-0.55	-9.39e-05	1.42e-04	0.0
17	19	6.59e-03	4.25e-03	-0.51	-8.24e-05	1.26e-04	0.0
17	20	6.66e-03	5.07e-03	-0.51	-9.55e-05	1.27e-04	0.0
17	21	7.47e-03	4.62e-03	-0.55	-8.77e-05	1.42e-04	0.0
17	22	-0.11	6.93e-03	-0.55	-1.42e-04	-1.38e-04	1.36e-05
17	23	0.13	3.15e-03	-0.47	-5.05e-05	4.00e-04	-1.40e-05
17	24	5.20e-03	-0.21	-0.15	8.89e-04	9.65e-05	1.06e-05
17	25	7.63e-03	0.22	-0.86	-1.02e-03	1.48e-04	-1.07e-05
17	26	-0.11	7.08e-03	-0.55	-1.44e-04	-1.41e-04	1.41e-05
17	27	0.12	2.98e-03	-0.47	-4.77e-05	4.02e-04	-1.46e-05
17	28	5.41e-03	-0.15	-0.25	5.65e-04	1.04e-04	6.97e-06
17	29	7.53e-03	0.15	-0.76	-7.01e-04	1.42e-04	-7.56e-06
17	30	-0.10	7.09e-03	-0.55	-1.43e-04	-1.37e-04	1.45e-05
17	31	0.12	3.09e-03	-0.47	-5.09e-05	4.01e-04	-1.50e-05
17	32	5.18e-03	-0.19	-0.16	8.60e-04	9.65e-05	9.22e-06
17	33	7.58e-03	0.20	-0.85	-1.00e-03	1.47e-04	-9.20e-06
17	34	-0.10	7.09e-03	-0.55	-1.43e-04	-1.37e-04	1.45e-05
17	35	0.12	3.09e-03	-0.47	-5.09e-05	4.01e-04	-1.50e-05
17	36	5.30e-03	-0.15	-0.22	6.21e-04	1.02e-04	6.80e-06
17	37	7.63e-03	0.15	-0.78	-7.33e-04	1.44e-04	-7.08e-06
17	38	5.78e-03	4.70e-03	-0.47	-9.03e-05	1.10e-04	0.0
17	39	6.66e-03	5.07e-03	-0.51	-9.55e-05	1.27e-04	0.0
17	40	5.94e-03	4.61e-03	-0.48	-8.87e-05	1.13e-04	0.0
17	41	6.54e-03	5.02e-03	-0.51	-9.48e-05	1.25e-04	0.0
17	42	6.70e-03	4.93e-03	-0.51	-9.32e-05	1.28e-04	0.0
17	43	5.78e-03	4.70e-03	-0.47	-9.03e-05	1.10e-04	0.0
17	44	6.54e-03	5.02e-03	-0.51	-9.48e-05	1.25e-04	0.0
17	45	5.78e-03	4.70e-03	-0.47	-9.03e-05	1.10e-04	0.0
17	46	6.54e-03	5.02e-03	-0.51	-9.48e-05	1.25e-04	0.0
18	1	5.02e-04	0.02	-0.63	2.96e-04	-6.77e-05	0.0
18	2	5.69e-04	0.02	-0.67	2.83e-04	-6.50e-05	0.0
18	3	7.10e-04	0.02	-0.73	4.77e-04	-5.93e-05	0.0
18	4	7.77e-04	0.02	-0.76	4.64e-04	-5.67e-05	0.0
18	5	3.33e-04	0.01	-0.46	1.82e-04	-5.42e-05	0.0
18	6	4.00e-04	0.01	-0.49	1.69e-04	-5.16e-05	0.0
18	7	5.41e-04	0.01	-0.56	3.62e-04	-4.58e-05	0.0
18	8	6.08e-04	0.02	-0.59	3.49e-04	-4.32e-05	0.0
18	9	6.37e-04	0.02	-0.70	2.70e-04	-6.24e-05	0.0
18	10	6.48e-04	0.02	-0.70	4.23e-04	-6.18e-05	0.0
18	11	7.82e-04	0.02	-0.77	3.97e-04	-5.66e-05	0.0
18	12	4.67e-04	0.02	-0.53	1.56e-04	-4.90e-05	0.0
18	13	4.78e-04	0.01	-0.53	3.08e-04	-4.83e-05	0.0
18	14	6.13e-04	0.02	-0.59	2.82e-04	-4.31e-05	0.0
18	15	3.79e-04	0.01	-0.48	2.22e-04	-5.23e-05	0.0
18	16	4.24e-04	0.01	-0.51	2.13e-04	-5.06e-05	0.0
18	17	5.18e-04	0.01	-0.55	3.42e-04	-4.68e-05	0.0
18	18	5.62e-04	0.02	-0.57	3.33e-04	-4.50e-05	0.0
18	19	4.69e-04	0.01	-0.53	2.04e-04	-4.89e-05	0.0
18	20	4.76e-04	0.01	-0.53	3.06e-04	-4.84e-05	0.0
18	21	5.66e-04	0.02	-0.57	2.89e-04	-4.50e-05	0.0
18	22	-3.06	6.71e-03	-0.57	2.99e-04	-2.20e-03	4.10e-05
18	23	3.06	0.02	-0.48	2.89e-04	2.03e-03	-4.09e-05
18	24	6.85e-03	-2.94	-0.16	7.02e-03	4.30e-05	-1.37e-05
18	25	-5.89e-03	2.90	-0.88	-6.95e-03	-1.45e-04	1.37e-05
18	26	-2.22	7.08e-03	-0.57	2.98e-04	-1.39e-03	3.87e-05
18	27	2.22	0.02	-0.48	2.90e-04	9.56e-04	-3.87e-05
18	28	2.22e-03	-0.98	-0.26	2.33e-03	1.68e-05	-4.84e-06
18	29	-1.31e-03	1.02	-0.78	-2.23e-03	-1.15e-04	4.92e-06
18	30	-2.13	7.14e-03	-0.57	2.99e-04	-1.45e-03	3.82e-05
18	31	2.13	0.02	-0.48	2.88e-04	1.12e-03	-3.81e-05
18	32	6.09e-03	-1.85	-0.17	4.73e-03	4.03e-05	-1.12e-05
18	33	-5.28e-03	1.86	-0.88	-4.82e-03	-1.44e-04	1.14e-05
18	34	-2.13	7.14e-03	-0.57	2.99e-04	-1.45e-03	3.82e-05
18	35	2.13	0.02	-0.48	2.88e-04	1.12e-03	-3.81e-05
18	36	2.26e-03	-1.05	-0.23	2.62e-03	2.31e-05	-4.20e-06
18	37	-1.25e-03	1.07	-0.80	-2.58e-03	-1.20e-04	4.11e-06
18	38	3.79e-04	0.01	-0.48	2.22e-04	-5.23e-05	0.0
18	39	4.76e-04	0.01	-0.53	3.06e-04	-4.84e-05	0.0
18	40	3.97e-04	0.01	-0.49	2.18e-04	-5.16e-05	0.0
18	41	4.62e-04	0.01	-0.52	2.94e-04	-4.90e-05	0.0
18	42	4.80e-04	0.01	-0.53	2.90e-04	-4.83e-05	0.0
18	43	3.79e-04	0.01	-0.48	2.22e-04	-5.23e-05	0.0
18	44	4.62e-04	0.01	-0.52	2.94e-04	-4.90e-05	0.0
18	45	3.79e-04	0.01	-0.48	2.22e-04	-5.23e-05	0.0

18	46	4.62e-04	0.01	-0.52	2.94e-04	-4.90e-05	0.0
19	1	7.88e-04	0.02	-0.65	4.56e-04	-6.02e-05	0.0
19	2	9.11e-04	0.02	-0.68	5.75e-04	-5.52e-05	0.0
19	3	1.16e-03	0.03	-0.74	4.33e-04	-4.63e-05	0.0
19	4	1.28e-03	0.03	-0.78	5.51e-04	-4.13e-05	0.0
19	5	5.12e-04	0.01	-0.47	3.57e-04	-4.99e-05	0.0
19	6	6.34e-04	0.02	-0.51	4.75e-04	-4.49e-05	0.0
19	7	8.81e-04	0.02	-0.57	3.33e-04	-3.60e-05	0.0
19	8	1.00e-03	0.02	-0.60	4.52e-04	-3.09e-05	0.0
19	9	1.03e-03	0.03	-0.71	6.93e-04	-5.02e-05	0.0
19	10	1.05e-03	0.03	-0.71	4.40e-04	-5.05e-05	0.0
19	11	1.29e-03	0.03	-0.78	6.76e-04	-4.04e-05	0.0
19	12	7.56e-04	0.02	-0.54	5.94e-04	-3.98e-05	0.0
19	13	7.70e-04	0.02	-0.54	3.41e-04	-4.01e-05	0.0
19	14	1.01e-03	0.03	-0.61	5.77e-04	-3.01e-05	0.0
19	15	5.94e-04	0.02	-0.49	3.52e-04	-4.68e-05	0.0
19	16	6.75e-04	0.02	-0.52	4.31e-04	-4.34e-05	0.0
19	17	8.40e-04	0.02	-0.56	3.36e-04	-3.75e-05	0.0
19	18	9.22e-04	0.02	-0.58	4.15e-04	-3.42e-05	0.0
19	19	7.57e-04	0.02	-0.54	5.10e-04	-4.01e-05	0.0
19	20	7.66e-04	0.02	-0.54	3.41e-04	-4.03e-05	0.0
19	21	9.29e-04	0.02	-0.58	4.99e-04	-3.36e-05	0.0
19	22	-5.21	8.67e-03	-0.58	3.08e-04	-5.59e-04	5.52e-05
19	23	5.20	0.03	-0.49	3.75e-04	4.33e-04	-5.54e-05
19	24	0.01	-4.96	-0.16	2.49e-03	3.58e-05	-2.18e-05
19	25	-9.57e-03	4.89	-0.90	-2.16e-03	-1.23e-04	2.11e-05
19	26	-3.85	9.22e-03	-0.58	3.05e-04	-5.72e-04	5.19e-05
19	27	3.85	0.03	-0.49	3.78e-04	4.58e-04	-5.22e-05
19	28	3.59e-03	-1.78	-0.27	1.37e-03	1.42e-05	-7.34e-06
19	29	-2.15e-03	1.83	-0.79	-5.91e-04	-9.77e-05	7.18e-06
19	30	-4.24	7.77e-03	-0.58	3.09e-04	-5.64e-04	6.06e-05
19	31	4.23	0.03	-0.49	3.72e-04	4.26e-04	-6.07e-05
19	32	0.01	-3.48	-0.17	2.28e-03	3.34e-05	-2.09e-05
19	33	-9.63e-03	3.49	-0.89	-1.77e-03	-1.22e-04	2.19e-05
19	34	-4.24	7.77e-03	-0.58	3.09e-04	-5.64e-04	6.06e-05
19	35	4.23	0.03	-0.49	3.72e-04	4.26e-04	-6.07e-05
19	36	4.29e-03	-2.06	-0.24	1.64e-03	1.94e-05	-9.27e-06
19	37	-2.65e-03	2.08	-0.81	-8.16e-04	-1.02e-04	8.74e-06
19	38	5.94e-04	0.02	-0.49	3.52e-04	-4.68e-05	0.0
19	39	7.66e-04	0.02	-0.54	3.41e-04	-4.03e-05	0.0
19	40	6.26e-04	0.02	-0.50	3.83e-04	-4.54e-05	0.0
19	41	7.42e-04	0.02	-0.53	3.42e-04	-4.12e-05	0.0
19	42	7.74e-04	0.02	-0.54	3.74e-04	-3.99e-05	0.0
19	43	5.94e-04	0.02	-0.49	3.52e-04	-4.68e-05	0.0
19	44	7.42e-04	0.02	-0.53	3.42e-04	-4.12e-05	0.0
19	45	5.94e-04	0.02	-0.49	3.52e-04	-4.68e-05	0.0
19	46	7.42e-04	0.02	-0.53	3.42e-04	-4.12e-05	0.0
20	1	-6.56e-03	6.09e-04	-0.57	-2.30e-05	-1.25e-04	0.0
20	2	-7.08e-03	1.38e-03	-0.59	-3.91e-05	-1.35e-04	0.0
20	3	-8.16e-03	2.01e-03	-0.65	-5.49e-05	-1.56e-04	0.0
20	4	-8.68e-03	2.79e-03	-0.67	-7.10e-05	-1.65e-04	0.0
20	5	-4.64e-03	1.10e-04	-0.41	-9.46e-06	-8.83e-05	0.0
20	6	-5.16e-03	8.85e-04	-0.44	-2.56e-05	-9.83e-05	0.0
20	7	-6.24e-03	1.51e-03	-0.49	-4.14e-05	-1.19e-04	0.0
20	8	-6.75e-03	2.29e-03	-0.52	-5.76e-05	-1.29e-04	0.0
20	9	-7.60e-03	2.16e-03	-0.62	-5.52e-05	-1.45e-04	0.0
20	10	-7.68e-03	1.59e-03	-0.62	-4.53e-05	-1.46e-04	0.0
20	11	-8.72e-03	3.14e-03	-0.67	-7.76e-05	-1.66e-04	0.0
20	12	-5.67e-03	1.66e-03	-0.47	-4.17e-05	-1.08e-04	0.0
20	13	-5.76e-03	1.09e-03	-0.47	-3.18e-05	-1.10e-04	0.0
20	14	-6.79e-03	2.64e-03	-0.52	-6.41e-05	-1.30e-04	0.0
20	15	-4.99e-03	4.21e-04	-0.43	-1.66e-05	-9.51e-05	0.0
20	16	-5.34e-03	9.38e-04	-0.45	-2.73e-05	-1.02e-04	0.0
20	17	-6.06e-03	1.35e-03	-0.49	-3.79e-05	-1.15e-04	0.0
20	18	-6.40e-03	1.87e-03	-0.50	-4.86e-05	-1.22e-04	0.0
20	19	-5.68e-03	1.45e-03	-0.47	-3.81e-05	-1.08e-04	0.0
20	20	-5.74e-03	1.07e-03	-0.47	-3.15e-05	-1.09e-04	0.0
20	21	-6.43e-03	2.11e-03	-0.50	-5.30e-05	-1.23e-04	0.0
20	22	-0.12	3.66e-03	-0.42	-8.36e-05	-3.87e-04	-1.23e-05
20	23	0.11	-1.79e-03	-0.51	2.52e-05	1.64e-04	1.31e-05
20	24	-7.98e-03	-0.23	-0.86	1.23e-03	-1.43e-04	-9.56e-06
20	25	-2.78e-03	0.23	-0.06	-1.35e-03	-6.15e-05	9.62e-06
20	26	-0.12	3.71e-03	-0.42	-8.59e-05	-3.88e-04	-1.34e-05
20	27	0.11	-1.82e-03	-0.51	2.71e-05	1.65e-04	1.42e-05
20	28	-7.39e-03	-0.16	-0.75	8.15e-04	-1.37e-04	-5.91e-06
20	29	-3.74e-03	0.17	-0.17	-9.38e-04	-7.47e-05	6.62e-06
20	30	-0.12	3.52e-03	-0.42	-8.33e-05	-3.89e-04	-1.44e-05

20	31	0.10	-1.73e-03	-0.51	2.64e-05	1.64e-04	1.52e-05
20	32	-7.96e-03	-0.21	-0.85	1.21e-03	-1.44e-04	-8.34e-06
20	33	-2.86e-03	0.21	-0.07	-1.32e-03	-6.25e-05	8.31e-06
20	34	-0.12	3.52e-03	-0.42	-8.33e-05	-3.89e-04	-1.44e-05
20	35	0.10	-1.73e-03	-0.51	2.64e-05	1.64e-04	1.52e-05
20	36	-7.56e-03	-0.16	-0.78	8.79e-04	-1.40e-04	-5.79e-06
20	37	-3.52e-03	0.17	-0.15	-9.99e-04	-7.07e-05	6.20e-06
20	38	-4.99e-03	4.21e-04	-0.43	-1.66e-05	-9.51e-05	0.0
20	39	-5.74e-03	1.07e-03	-0.47	-3.15e-05	-1.09e-04	0.0
20	40	-5.13e-03	6.28e-04	-0.44	-2.09e-05	-9.78e-05	0.0
20	41	-5.63e-03	9.81e-04	-0.46	-2.93e-05	-1.07e-04	0.0
20	42	-5.77e-03	1.19e-03	-0.47	-3.37e-05	-1.10e-04	0.0
20	43	-4.99e-03	4.21e-04	-0.43	-1.66e-05	-9.51e-05	0.0
20	44	-5.63e-03	9.81e-04	-0.46	-2.93e-05	-1.07e-04	0.0
20	45	-4.99e-03	4.21e-04	-0.43	-1.66e-05	-9.51e-05	0.0
20	46	-5.63e-03	9.81e-04	-0.46	-2.93e-05	-1.07e-04	0.0
21	1	5.60e-04	0.01	-0.58	-2.04e-04	7.70e-05	0.0
21	2	6.26e-04	0.02	-0.61	-2.08e-04	7.52e-05	0.0
21	3	7.63e-04	0.02	-0.67	-3.16e-04	7.13e-05	0.0
21	4	8.29e-04	0.02	-0.69	-3.20e-04	6.94e-05	0.0
21	5	3.79e-04	0.01	-0.43	-1.28e-04	6.07e-05	0.0
21	6	4.45e-04	0.01	-0.45	-1.32e-04	5.89e-05	0.0
21	7	5.82e-04	0.01	-0.51	-2.40e-04	5.50e-05	0.0
21	8	6.48e-04	0.02	-0.54	-2.44e-04	5.31e-05	0.0
21	9	6.92e-04	0.02	-0.64	-2.12e-04	7.33e-05	0.0
21	10	7.02e-04	0.02	-0.64	-2.83e-04	7.30e-05	0.0
21	11	8.34e-04	0.02	-0.70	-2.90e-04	6.93e-05	0.0
21	12	5.11e-04	0.01	-0.48	-1.36e-04	5.70e-05	0.0
21	13	5.21e-04	0.01	-0.49	-2.07e-04	5.67e-05	0.0
21	14	6.53e-04	0.02	-0.54	-2.14e-04	5.30e-05	0.0
21	15	4.24e-04	0.01	-0.45	-1.53e-04	5.94e-05	0.0
21	16	4.68e-04	0.01	-0.46	-1.56e-04	5.82e-05	0.0
21	17	5.59e-04	0.01	-0.50	-2.28e-04	5.56e-05	0.0
21	18	6.03e-04	0.02	-0.52	-2.30e-04	5.44e-05	0.0
21	19	5.12e-04	0.01	-0.48	-1.58e-04	5.70e-05	0.0
21	20	5.19e-04	0.01	-0.48	-2.06e-04	5.68e-05	0.0
21	21	6.07e-04	0.02	-0.52	-2.11e-04	5.43e-05	0.0
21	22	-3.01	0.02	-0.43	-2.23e-04	-2.55e-03	3.93e-05
21	23	3.01	6.19e-03	-0.52	-1.73e-04	2.72e-03	-3.94e-05
21	24	-4.18e-03	-2.94	-0.89	7.01e-03	1.51e-04	-6.38e-06
21	25	5.02e-03	2.90	-0.06	-6.88e-03	-2.82e-05	6.21e-06
21	26	-2.17	0.02	-0.43	-2.24e-04	-1.22e-03	3.70e-05
21	27	2.17	6.59e-03	-0.52	-1.72e-04	1.50e-03	-3.72e-05
21	28	-1.94e-04	-0.98	-0.77	2.01e-03	1.21e-04	0.0
21	29	1.20e-03	1.02	-0.18	-2.07e-03	-6.24e-06	0.0
21	30	-2.09	0.02	-0.43	-2.23e-04	-1.63e-03	3.68e-05
21	31	2.09	6.68e-03	-0.52	-1.72e-04	1.79e-03	-3.69e-05
21	32	-3.91e-03	-1.85	-0.88	4.77e-03	1.49e-04	-6.88e-06
21	33	5.00e-03	1.86	-0.07	-4.70e-03	-2.64e-04	7.26e-06
21	34	-2.09	0.02	-0.43	-2.23e-04	-1.63e-03	3.68e-05
21	35	2.09	6.68e-03	-0.52	-1.72e-04	1.79e-03	-3.69e-05
21	36	-5.19e-04	-1.05	-0.80	2.41e-03	1.27e-04	-1.15e-06
21	37	1.48e-03	1.07	-0.15	-2.32e-03	-9.65e-06	1.03e-06
21	38	4.24e-04	0.01	-0.45	-1.53e-04	5.94e-05	0.0
21	39	5.19e-04	0.01	-0.48	-2.06e-04	5.68e-05	0.0
21	40	4.42e-04	0.01	-0.45	-1.54e-04	5.89e-05	0.0
21	41	5.05e-04	0.01	-0.48	-1.98e-04	5.71e-05	0.0
21	42	5.23e-04	0.01	-0.49	-1.99e-04	5.66e-05	0.0
21	43	4.24e-04	0.01	-0.45	-1.53e-04	5.94e-05	0.0
21	44	5.05e-04	0.01	-0.48	-1.98e-04	5.71e-05	0.0
21	45	4.24e-04	0.01	-0.45	-1.53e-04	5.94e-05	0.0
21	46	5.05e-04	0.01	-0.48	-1.98e-04	5.71e-05	0.0
22	1	6.95e-04	0.02	-0.59	-2.83e-04	7.23e-05	0.0
22	2	8.11e-04	0.02	-0.62	-3.51e-04	6.84e-05	0.0
22	3	1.04e-03	0.03	-0.68	-3.07e-04	6.14e-05	0.0
22	4	1.16e-03	0.03	-0.70	-3.75e-04	5.76e-05	0.0
22	5	4.46e-04	0.01	-0.43	-2.11e-04	5.84e-05	0.0
22	6	5.62e-04	0.02	-0.46	-2.79e-04	5.45e-05	0.0
22	7	7.91e-04	0.02	-0.52	-2.35e-04	4.75e-05	0.0
22	8	9.08e-04	0.03	-0.55	-3.04e-04	4.37e-05	0.0
22	9	9.28e-04	0.03	-0.65	-4.19e-04	6.46e-05	0.0
22	10	9.37e-04	0.03	-0.65	-3.00e-04	6.47e-05	0.0
22	11	1.17e-03	0.03	-0.71	-4.36e-04	5.70e-05	0.0
22	12	6.79e-04	0.02	-0.49	-3.48e-04	5.07e-05	0.0
22	13	6.88e-04	0.02	-0.49	-2.28e-04	5.08e-05	0.0
22	14	9.20e-04	0.03	-0.55	-3.65e-04	4.31e-05	0.0
22	15	5.23e-04	0.02	-0.45	-2.17e-04	5.60e-05	0.0

22	16	6.00e-04	0.02	-0.47	-2.62e-04	5.34e-05	0.0
22	17	7.53e-04	0.02	-0.51	-2.33e-04	4.87e-05	0.0
22	18	8.31e-04	0.02	-0.53	-2.78e-04	4.62e-05	0.0
22	19	6.78e-04	0.02	-0.49	-3.07e-04	5.08e-05	0.0
22	20	6.84e-04	0.02	-0.49	-2.28e-04	5.09e-05	0.0
22	21	8.39e-04	0.02	-0.53	-3.19e-04	4.58e-05	0.0
22	22	-5.14	0.03	-0.44	-2.73e-04	-4.45e-04	6.30e-05
22	23	5.14	0.01	-0.53	-1.78e-04	5.92e-04	-6.33e-05
22	24	-8.36e-03	-4.97	-0.90	2.29e-03	1.32e-04	-1.38e-05
22	25	9.23e-03	4.90	-0.07	-2.35e-03	-1.84e-05	1.34e-05
22	26	-3.79	0.03	-0.44	-2.77e-04	-4.63e-04	5.99e-05
22	27	3.78	0.01	-0.53	-1.75e-04	6.03e-04	-6.03e-05
22	28	-1.18e-03	-1.78	-0.78	8.85e-04	1.04e-04	-1.64e-06
22	29	2.49e-03	1.83	-0.18	-1.44e-03	0.0	1.45e-06
22	30	-4.17	0.03	-0.44	-2.74e-04	-4.38e-04	6.83e-05
22	31	4.16	9.11e-03	-0.53	-1.76e-04	5.99e-04	-6.85e-05
22	32	-7.28e-03	-3.49	-0.89	1.84e-03	1.29e-04	-1.16e-05
22	33	9.00e-03	3.49	-0.07	-2.20e-03	-1.69e-05	1.24e-05
22	34	-4.17	0.03	-0.44	-2.74e-04	-4.38e-04	6.83e-05
22	35	4.16	9.11e-03	-0.53	-1.76e-04	5.99e-04	-6.85e-05
22	36	-1.56e-03	-2.06	-0.81	1.12e-03	1.09e-04	-1.76e-06
22	37	2.78e-03	2.08	-0.16	-1.67e-03	-2.52e-06	1.41e-06
22	38	5.23e-04	0.02	-0.45	-2.17e-04	5.60e-05	0.0
22	39	6.84e-04	0.02	-0.49	-2.28e-04	5.09e-05	0.0
22	40	5.54e-04	0.02	-0.46	-2.35e-04	5.49e-05	0.0
22	41	6.61e-04	0.02	-0.49	-2.26e-04	5.16e-05	0.0
22	42	6.92e-04	0.02	-0.49	-2.44e-04	5.06e-05	0.0
22	43	5.23e-04	0.02	-0.45	-2.17e-04	5.60e-05	0.0
22	44	6.61e-04	0.02	-0.49	-2.26e-04	5.16e-05	0.0
22	45	5.23e-04	0.02	-0.45	-2.17e-04	5.60e-05	0.0
22	46	6.61e-04	0.02	-0.49	-2.26e-04	5.16e-05	0.0
23	1	-7.37e-03	3.51e-03	-0.59	-7.56e-05	-1.40e-04	0.0
23	2	-8.04e-03	4.19e-03	-0.62	-8.98e-05	-1.53e-04	0.0
23	3	-9.38e-03	5.33e-03	-0.68	-1.14e-04	-1.78e-04	0.0
23	4	-0.01	6.01e-03	-0.71	-1.28e-04	-1.91e-04	0.0
23	5	-5.15e-03	2.23e-03	-0.43	-4.85e-05	-9.79e-05	0.0
23	6	-5.83e-03	2.91e-03	-0.46	-6.26e-05	-1.11e-04	0.0
23	7	-7.16e-03	4.05e-03	-0.52	-8.64e-05	-1.36e-04	0.0
23	8	-7.84e-03	4.73e-03	-0.55	-1.01e-04	-1.49e-04	0.0
23	9	-8.72e-03	4.87e-03	-0.65	-1.04e-04	-1.66e-04	0.0
23	10	-8.77e-03	4.78e-03	-0.65	-1.02e-04	-1.67e-04	0.0
23	11	-0.01	6.14e-03	-0.72	-1.30e-04	-1.93e-04	0.0
23	12	-6.51e-03	3.59e-03	-0.49	-7.68e-05	-1.24e-04	0.0
23	13	-6.56e-03	3.51e-03	-0.49	-7.50e-05	-1.25e-04	0.0
23	14	-7.91e-03	4.87e-03	-0.56	-1.03e-04	-1.51e-04	0.0
23	15	-5.60e-03	2.63e-03	-0.45	-5.69e-05	-1.06e-04	0.0
23	16	-6.05e-03	3.09e-03	-0.47	-6.63e-05	-1.15e-04	0.0
23	17	-6.94e-03	3.85e-03	-0.51	-8.21e-05	-1.32e-04	0.0
23	18	-7.39e-03	4.30e-03	-0.53	-9.16e-05	-1.41e-04	0.0
23	19	-6.50e-03	3.54e-03	-0.49	-7.58e-05	-1.24e-04	0.0
23	20	-6.54e-03	3.49e-03	-0.49	-7.46e-05	-1.24e-04	0.0
23	21	-7.44e-03	4.39e-03	-0.53	-9.35e-05	-1.42e-04	0.0
23	22	-0.11	4.98e-03	-0.46	-1.04e-04	-3.17e-04	-1.34e-05
23	23	0.10	1.68e-03	-0.51	-4.07e-05	6.33e-05	1.38e-05
23	24	-6.77e-03	-0.20	-0.57	6.96e-04	-1.27e-04	-5.60e-06
23	25	-6.32e-03	0.21	-0.40	-8.59e-04	-1.22e-04	5.63e-06
23	26	-0.11	5.01e-03	-0.46	-1.05e-04	-3.15e-04	-1.43e-05
23	27	0.09	1.67e-03	-0.51	-3.94e-05	6.11e-05	1.48e-05
23	28	-6.56e-03	-0.15	-0.55	5.15e-04	-1.24e-04	-3.39e-06
23	29	-6.37e-03	0.15	-0.42	-6.74e-04	-1.22e-04	3.78e-06
23	30	-0.10	4.87e-03	-0.46	-1.04e-04	-3.16e-04	-1.50e-05
23	31	0.08	1.74e-03	-0.51	-3.99e-05	6.09e-05	1.54e-05
23	32	-6.74e-03	-0.18	-0.57	6.89e-04	-1.26e-04	-4.89e-06
23	33	-6.33e-03	0.19	-0.40	-8.43e-04	-1.23e-04	4.88e-06
23	34	-0.10	4.87e-03	-0.46	-1.04e-04	-3.16e-04	-1.50e-05
23	35	0.08	1.74e-03	-0.51	-3.99e-05	6.09e-05	1.54e-05
23	36	-6.58e-03	-0.15	-0.56	5.67e-04	-1.25e-04	-3.33e-06
23	37	-6.37e-03	0.15	-0.42	-7.20e-04	-1.22e-04	3.56e-06
23	38	-5.60e-03	2.63e-03	-0.45	-5.69e-05	-1.06e-04	0.0
23	39	-6.54e-03	3.49e-03	-0.49	-7.46e-05	-1.24e-04	0.0
23	40	-5.78e-03	2.82e-03	-0.46	-6.07e-05	-1.10e-04	0.0
23	41	-6.40e-03	3.36e-03	-0.49	-7.20e-05	-1.22e-04	0.0
23	42	-6.58e-03	3.55e-03	-0.49	-7.58e-05	-1.25e-04	0.0
23	43	-5.60e-03	2.63e-03	-0.45	-5.69e-05	-1.06e-04	0.0
23	44	-6.40e-03	3.36e-03	-0.49	-7.20e-05	-1.22e-04	0.0
23	45	-5.60e-03	2.63e-03	-0.45	-5.69e-05	-1.06e-04	0.0
23	46	-6.40e-03	3.36e-03	-0.49	-7.20e-05	-1.22e-04	0.0

24	1	5.52e-04	0.01	-0.61	-1.72e-05	6.01e-05	0.0
24	2	6.13e-04	0.02	-0.65	-3.05e-05	6.49e-05	0.0
24	3	7.57e-04	0.02	-0.71	-1.79e-05	7.44e-05	0.0
24	4	8.18e-04	0.02	-0.75	-3.12e-05	7.92e-05	0.0
24	5	3.72e-04	0.01	-0.44	-1.31e-05	4.26e-05	0.0
24	6	4.33e-04	0.01	-0.48	-2.63e-05	4.74e-05	0.0
24	7	5.77e-04	0.01	-0.54	-1.38e-05	5.68e-05	0.0
24	8	6.38e-04	0.02	-0.58	-2.70e-05	6.17e-05	0.0
24	9	6.74e-04	0.02	-0.68	-4.37e-05	6.98e-05	0.0
24	10	6.95e-04	0.02	-0.68	-1.77e-05	7.01e-05	0.0
24	11	8.17e-04	0.02	-0.75	-4.42e-05	7.98e-05	0.0
24	12	4.94e-04	0.01	-0.51	-3.95e-05	5.22e-05	0.0
24	13	5.15e-04	0.01	-0.51	-1.36e-05	5.26e-05	0.0
24	14	6.37e-04	0.02	-0.58	-4.00e-05	6.22e-05	0.0
24	15	4.18e-04	0.01	-0.47	-1.32e-05	4.57e-05	0.0
24	16	4.58e-04	0.01	-0.49	-2.20e-05	4.90e-05	0.0
24	17	5.54e-04	0.01	-0.53	-1.37e-05	5.53e-05	0.0
24	18	5.95e-04	0.02	-0.56	-2.25e-05	5.85e-05	0.0
24	19	4.99e-04	0.01	-0.51	-3.09e-05	5.22e-05	0.0
24	20	5.13e-04	0.01	-0.51	-1.36e-05	5.24e-05	0.0
24	21	5.95e-04	0.02	-0.56	-3.12e-05	5.88e-05	0.0
24	22	-3.02	0.02	-0.48	-4.17e-05	-7.48e-03	3.63e-05
24	23	3.02	6.36e-03	-0.53	1.46e-05	7.52e-03	-3.63e-05
24	24	-1.44e-03	-2.94	-0.59	6.27e-03	5.68e-05	-9.44e-06
24	25	2.29e-03	2.91	-0.43	-6.16e-03	4.84e-05	9.35e-06
24	26	-2.18	0.02	-0.48	-4.27e-05	-5.66e-03	3.43e-05
24	27	2.18	6.75e-03	-0.53	1.55e-05	5.71e-03	-3.42e-05
24	28	1.67e-04	-0.98	-0.58	1.61e-03	5.69e-05	-1.95e-06
24	29	7.95e-04	1.02	-0.44	-1.59e-03	4.68e-05	2.06e-06
24	30	-2.10	0.02	-0.48	-4.18e-05	-6.18e-03	3.38e-05
24	31	2.10	6.82e-03	-0.53	1.52e-05	6.21e-03	-3.37e-05
24	32	-1.29e-03	-1.85	-0.59	4.03e-03	5.70e-05	-8.67e-06
24	33	2.23e-03	1.86	-0.43	-4.03e-03	4.86e-05	8.99e-06
24	34	-2.10	0.02	-0.48	-4.18e-05	-6.18e-03	3.38e-05
24	35	2.10	6.82e-03	-0.53	1.52e-05	6.21e-03	-3.37e-05
24	36	6.95e-05	-1.05	-0.58	1.90e-03	5.73e-05	-2.37e-06
24	37	8.76e-04	1.07	-0.44	-1.83e-03	4.68e-05	2.36e-06
24	38	4.18e-04	0.01	-0.47	-1.32e-05	4.57e-05	0.0
24	39	5.13e-04	0.01	-0.51	-1.36e-05	5.24e-05	0.0
24	40	4.34e-04	0.01	-0.48	-1.67e-05	4.70e-05	0.0
24	41	4.99e-04	0.01	-0.51	-1.35e-05	5.15e-05	0.0
24	42	5.16e-04	0.01	-0.52	-1.70e-05	5.27e-05	0.0
24	43	4.18e-04	0.01	-0.47	-1.32e-05	4.57e-05	0.0
24	44	4.99e-04	0.01	-0.51	-1.35e-05	5.15e-05	0.0
24	45	4.18e-04	0.01	-0.47	-1.32e-05	4.57e-05	0.0
24	46	4.99e-04	0.01	-0.51	-1.35e-05	5.15e-05	0.0
25	1	7.47e-04	0.02	-0.63	-7.53e-06	-2.51e-06	0.0
25	2	8.72e-04	0.02	-0.66	-6.44e-06	-5.15e-06	0.0
25	3	1.11e-03	0.03	-0.73	-5.19e-05	-1.02e-05	0.0
25	4	1.24e-03	0.03	-0.76	-5.08e-05	-1.29e-05	0.0
25	5	4.81e-04	0.01	-0.46	5.59e-06	0.0	0.0
25	6	6.05e-04	0.02	-0.49	6.68e-06	-2.59e-06	0.0
25	7	8.47e-04	0.02	-0.56	-3.88e-05	-7.68e-06	0.0
25	8	9.72e-04	0.03	-0.59	-3.77e-05	-1.03e-05	0.0
25	9	9.96e-04	0.03	-0.70	-5.34e-06	-7.80e-06	0.0
25	10	1.00e-03	0.03	-0.70	-3.86e-05	-7.92e-06	0.0
25	11	1.25e-03	0.03	-0.77	-3.64e-05	-1.32e-05	0.0
25	12	7.30e-04	0.02	-0.53	7.77e-06	-5.24e-06	0.0
25	13	7.37e-04	0.02	-0.53	-2.55e-05	-5.36e-06	0.0
25	14	9.86e-04	0.03	-0.60	-2.33e-05	-1.07e-05	0.0
25	15	5.62e-04	0.02	-0.48	-4.27e-06	-1.66e-06	0.0
25	16	6.45e-04	0.02	-0.50	-3.55e-06	-3.43e-06	0.0
25	17	8.07e-04	0.02	-0.54	-3.39e-05	-6.82e-06	0.0
25	18	8.89e-04	0.02	-0.57	-3.31e-05	-8.58e-06	0.0
25	19	7.28e-04	0.02	-0.53	-2.82e-06	-5.19e-06	0.0
25	20	7.33e-04	0.02	-0.52	-2.50e-05	-5.27e-06	0.0
25	21	8.99e-04	0.02	-0.57	-2.35e-05	-8.80e-06	0.0
25	22	-5.17	0.03	-0.49	-5.87e-05	-3.64e-03	7.14e-05
25	23	5.16	9.77e-03	-0.54	1.46e-05	3.66e-03	-7.15e-05
25	24	-2.99e-03	-4.97	-0.60	1.20e-03	5.80e-06	-1.69e-05
25	25	4.05e-03	4.90	-0.44	-1.16e-03	-1.43e-05	1.64e-05
25	26	-3.81	0.03	-0.49	-6.20e-05	-2.80e-03	6.81e-05
25	27	3.81	0.01	-0.54	1.76e-05	2.81e-03	-6.83e-05
25	28	-7.74e-05	-1.78	-0.59	7.57e-04	3.11e-06	-3.90e-06
25	29	1.45e-03	1.83	-0.46	-8.15e-04	-1.27e-05	3.79e-06
25	30	-4.19	0.03	-0.49	-5.86e-05	-3.96e-03	7.67e-05
25	31	4.19	8.87e-03	-0.54	1.57e-05	3.99e-03	-7.66e-05

25	32	-2.54e-03	-3.49	-0.60	1.19e-03	5.99e-06	-1.52e-05
25	33	3.97e-03	3.49	-0.44	-1.18e-03	-1.41e-05	1.61e-05
25	34	-4.19	0.03	-0.49	-5.86e-05	-3.96e-03	7.67e-05
25	35	4.19	8.87e-03	-0.54	1.57e-05	3.99e-03	-7.66e-05
25	36	-2.49e-04	-2.06	-0.59	8.84e-04	3.79e-06	-4.75e-06
25	37	1.60e-03	2.08	-0.45	-9.30e-04	-1.30e-05	4.40e-06
25	38	5.62e-04	0.02	-0.48	-4.27e-06	-1.66e-06	0.0
25	39	7.33e-04	0.02	-0.52	-2.50e-05	-5.27e-06	0.0
25	40	5.96e-04	0.02	-0.49	-3.98e-06	-2.37e-06	0.0
25	41	7.09e-04	0.02	-0.52	-2.20e-05	-4.76e-06	0.0
25	42	7.42e-04	0.02	-0.53	-2.17e-05	-5.46e-06	0.0
25	43	5.62e-04	0.02	-0.48	-4.27e-06	-1.66e-06	0.0
25	44	7.09e-04	0.02	-0.52	-2.20e-05	-4.76e-06	0.0
25	45	5.62e-04	0.02	-0.48	-4.27e-06	-1.66e-06	0.0
25	46	7.09e-04	0.02	-0.52	-2.20e-05	-4.76e-06	0.0
26	1	-7.83e-03	-4.02e-04	-0.60	1.35e-06	-1.49e-04	0.0
26	2	-8.56e-03	-5.69e-04	-0.64	3.78e-06	-1.63e-04	0.0
26	3	-9.98e-03	-1.04e-03	-0.70	1.28e-05	-1.90e-04	0.0
26	4	-0.01	-1.21e-03	-0.74	1.52e-05	-2.04e-04	0.0
26	5	-5.47e-03	-1.45e-04	-0.44	-1.89e-06	-1.04e-04	0.0
26	6	-6.20e-03	-3.11e-04	-0.47	0.0	-1.18e-04	0.0
26	7	-7.62e-03	-7.86e-04	-0.54	9.52e-06	-1.45e-04	0.0
26	8	-8.35e-03	-9.53e-04	-0.57	1.19e-05	-1.59e-04	0.0
26	9	-9.30e-03	-7.35e-04	-0.67	6.21e-06	-1.77e-04	0.0
26	10	-9.33e-03	-8.51e-04	-0.67	9.33e-06	-1.78e-04	0.0
26	11	-0.01	-1.18e-03	-0.74	1.42e-05	-2.06e-04	0.0
26	12	-6.94e-03	-4.78e-04	-0.51	2.97e-06	-1.32e-04	0.0
26	13	-6.97e-03	-5.93e-04	-0.51	6.10e-06	-1.33e-04	0.0
26	14	-8.44e-03	-9.27e-04	-0.58	1.10e-05	-1.61e-04	0.0
26	15	-5.95e-03	-2.87e-04	-0.46	0.0	-1.13e-04	0.0
26	16	-6.44e-03	-3.98e-04	-0.48	2.27e-06	-1.22e-04	0.0
26	17	-7.38e-03	-7.15e-04	-0.53	8.25e-06	-1.40e-04	0.0
26	18	-7.87e-03	-8.26e-04	-0.55	9.87e-06	-1.50e-04	0.0
26	19	-6.93e-03	-5.10e-04	-0.51	3.89e-06	-1.32e-04	0.0
26	20	-6.95e-03	-5.86e-04	-0.51	5.97e-06	-1.32e-04	0.0
26	21	-7.93e-03	-8.09e-04	-0.55	9.21e-06	-1.51e-04	0.0
26	22	-0.11	-9.75e-04	-0.48	1.77e-05	-3.11e-04	8.88e-06
26	23	0.09	-1.03e-04	-0.52	-9.10e-06	4.05e-05	-8.46e-06
26	24	-6.24e-03	-0.19	-0.41	5.49e-04	-1.20e-04	-6.29e-06
26	25	-7.74e-03	0.19	-0.59	-5.36e-04	-1.46e-04	6.32e-06
26	26	-0.10	-1.09e-03	-0.48	1.91e-05	-3.09e-04	9.36e-06
26	27	0.09	3.26e-06	-0.52	-1.02e-05	3.83e-05	-8.94e-06
26	28	-6.19e-03	-0.14	-0.43	4.41e-04	-1.18e-04	-3.86e-06
26	29	-7.52e-03	0.14	-0.57	-4.17e-04	-1.43e-04	4.25e-06
26	30	-0.10	-1.05e-03	-0.48	1.75e-05	-3.10e-04	9.93e-06
26	31	0.08	1.42e-05	-0.52	-9.75e-06	3.78e-05	-9.51e-06
26	32	-6.24e-03	-0.17	-0.41	5.38e-04	-1.20e-04	-5.49e-06
26	33	-7.74e-03	0.17	-0.59	-5.31e-04	-1.46e-04	5.47e-06
26	34	-0.10	-1.05e-03	-0.48	1.75e-05	-3.10e-04	9.93e-06
26	35	0.08	1.42e-05	-0.52	-9.75e-06	3.78e-05	-9.51e-06
26	36	-6.15e-03	-0.14	-0.42	4.78e-04	-1.17e-04	-3.79e-06
26	37	-7.61e-03	0.14	-0.58	-4.49e-04	-1.44e-04	4.00e-06
26	38	-5.95e-03	-2.87e-04	-0.46	0.0	-1.13e-04	0.0
26	39	-6.95e-03	-5.86e-04	-0.51	5.97e-06	-1.32e-04	0.0
26	40	-6.14e-03	-3.32e-04	-0.47	1.30e-06	-1.17e-04	0.0
26	41	-6.81e-03	-5.44e-04	-0.50	5.21e-06	-1.29e-04	0.0
26	42	-7.00e-03	-5.88e-04	-0.51	5.86e-06	-1.33e-04	0.0
26	43	-5.95e-03	-2.87e-04	-0.46	0.0	-1.13e-04	0.0
26	44	-6.81e-03	-5.44e-04	-0.50	5.21e-06	-1.29e-04	0.0
26	45	-5.95e-03	-2.87e-04	-0.46	0.0	-1.13e-04	0.0
26	46	-6.81e-03	-5.44e-04	-0.50	5.21e-06	-1.29e-04	0.0
27	1	5.63e-04	0.01	-0.63	-1.70e-04	6.23e-05	0.0
27	2	6.22e-04	0.02	-0.67	-1.67e-04	6.76e-05	0.0
27	3	7.72e-04	0.02	-0.74	-2.54e-04	7.78e-05	0.0
27	4	8.32e-04	0.02	-0.78	-2.51e-04	8.31e-05	0.0
27	5	3.79e-04	0.01	-0.46	-1.09e-04	4.39e-05	0.0
27	6	4.39e-04	0.01	-0.50	-1.06e-04	4.93e-05	0.0
27	7	5.88e-04	0.01	-0.57	-1.93e-04	5.95e-05	0.0
27	8	6.48e-04	0.02	-0.60	-1.90e-04	6.48e-05	0.0
27	9	6.82e-04	0.02	-0.71	-1.63e-04	7.29e-05	0.0
27	10	7.09e-04	0.02	-0.71	-2.29e-04	7.32e-05	0.0
27	11	8.29e-04	0.02	-0.78	-2.22e-04	8.38e-05	0.0
27	12	4.99e-04	0.01	-0.53	-1.03e-04	5.46e-05	0.0
27	13	5.26e-04	0.01	-0.53	-1.68e-04	5.48e-05	0.0
27	14	6.45e-04	0.02	-0.61	-1.62e-04	6.54e-05	0.0
27	15	4.26e-04	0.01	-0.48	-1.28e-04	4.74e-05	0.0
27	16	4.65e-04	0.01	-0.51	-1.26e-04	5.09e-05	0.0

27	17	5.65e-04	0.01	-0.55	-1.84e-04	5.77e-05	0.0
27	18	6.05e-04	0.02	-0.58	-1.82e-04	6.13e-05	0.0
27	19	5.05e-04	0.01	-0.53	-1.24e-04	5.45e-05	0.0
27	20	5.23e-04	0.01	-0.53	-1.67e-04	5.46e-05	0.0
27	21	6.03e-04	0.02	-0.58	-1.63e-04	6.17e-05	0.0
27	22	-3.04	0.02	-0.50	-1.56e-04	-7.63e-03	4.47e-05
27	23	3.04	6.57e-03	-0.55	-1.68e-04	7.66e-03	-4.46e-05
27	24	1.63e-03	-2.94	-0.44	6.32e-03	4.73e-05	-9.81e-06
27	25	-7.06e-04	2.91	-0.62	-6.23e-03	6.24e-05	9.48e-06
27	26	-2.20	0.02	-0.50	-1.55e-04	-5.81e-03	4.22e-05
27	27	2.20	6.94e-03	-0.55	-1.69e-04	5.88e-03	-4.22e-05
27	28	7.45e-04	-0.98	-0.45	1.58e-03	4.63e-05	-2.19e-06
27	29	2.29e-04	1.02	-0.60	-1.98e-03	6.16e-05	2.14e-06
27	30	-2.11	0.02	-0.50	-1.57e-04	-6.32e-03	4.11e-05
27	31	2.11	7.02e-03	-0.55	-1.68e-04	6.36e-03	-4.10e-05
27	32	1.55e-03	-1.85	-0.43	4.08e-03	4.72e-05	-8.96e-06
27	33	-6.54e-04	1.86	-0.62	-4.07e-03	6.24e-05	9.05e-06
27	34	-2.11	0.02	-0.50	-1.57e-04	-6.32e-03	4.11e-05
27	35	2.11	7.02e-03	-0.55	-1.68e-04	6.36e-03	-4.10e-05
27	36	7.89e-04	-1.05	-0.45	1.90e-03	4.58e-05	-2.57e-06
27	37	2.08e-04	1.07	-0.61	-2.25e-03	6.24e-05	2.39e-06
27	38	4.26e-04	0.01	-0.48	-1.28e-04	4.74e-05	0.0
27	39	5.23e-04	0.01	-0.53	-1.67e-04	5.46e-05	0.0
27	40	4.42e-04	0.01	-0.49	-1.27e-04	4.88e-05	0.0
27	41	5.09e-04	0.01	-0.53	-1.62e-04	5.36e-05	0.0
27	42	5.25e-04	0.01	-0.54	-1.61e-04	5.50e-05	0.0
27	43	4.26e-04	0.01	-0.48	-1.28e-04	4.74e-05	0.0
27	44	5.09e-04	0.01	-0.53	-1.62e-04	5.36e-05	0.0
27	45	4.26e-04	0.01	-0.48	-1.28e-04	4.74e-05	0.0
27	46	5.09e-04	0.01	-0.53	-1.62e-04	5.36e-05	0.0
28	1	7.60e-04	0.02	-0.65	-2.25e-04	-7.53e-06	0.0
28	2	8.86e-04	0.02	-0.69	-2.69e-04	-1.03e-05	0.0
28	3	1.13e-03	0.03	-0.76	-2.09e-04	-1.57e-05	0.0
28	4	1.26e-03	0.03	-0.80	-2.53e-04	-1.85e-05	0.0
28	5	4.90e-04	0.01	-0.47	-1.77e-04	-3.70e-06	0.0
28	6	6.15e-04	0.02	-0.51	-2.21e-04	-6.50e-06	0.0
28	7	8.60e-04	0.02	-0.58	-1.61e-04	-1.18e-05	0.0
28	8	9.85e-04	0.03	-0.62	-2.05e-04	-1.46e-05	0.0
28	9	1.01e-03	0.03	-0.73	-3.13e-04	-1.31e-05	0.0
28	10	1.02e-03	0.03	-0.72	-2.14e-04	-1.32e-05	0.0
28	11	1.27e-03	0.03	-0.80	-3.01e-04	-1.88e-05	0.0
28	12	7.41e-04	0.02	-0.55	-2.65e-04	-9.29e-06	0.0
28	13	7.49e-04	0.02	-0.55	-1.66e-04	-9.40e-06	0.0
28	14	1.00e-03	0.03	-0.63	-2.54e-04	-1.50e-05	0.0
28	15	5.72e-04	0.02	-0.50	-1.74e-04	-5.51e-06	0.0
28	16	6.56e-04	0.02	-0.52	-2.03e-04	-7.37e-06	0.0
28	17	8.18e-04	0.02	-0.57	-1.63e-04	-1.09e-05	0.0
28	18	9.02e-04	0.02	-0.59	-1.92e-04	-1.28e-05	0.0
28	19	7.40e-04	0.02	-0.55	-2.32e-04	-9.24e-06	0.0
28	20	7.44e-04	0.02	-0.55	-1.66e-04	-9.31e-06	0.0
28	21	9.12e-04	0.02	-0.60	-2.25e-04	-1.30e-05	0.0
28	22	-5.19	0.03	-0.52	-1.50e-04	-3.76e-03	4.96e-05
28	23	5.18	9.49e-03	-0.56	-1.86e-04	3.78e-03	-4.94e-05
28	24	2.62e-03	-4.97	-0.45	7.97e-04	-1.43e-05	-1.69e-05
28	25	-1.39e-03	4.90	-0.64	-1.50e-03	-3.32e-06	1.65e-05
28	26	-3.83	0.03	-0.52	-1.47e-04	-2.88e-03	4.65e-05
28	27	3.83	0.01	-0.56	-1.89e-04	2.88e-03	-4.64e-05
28	28	1.19e-03	-1.78	-0.47	4.85e-04	-1.31e-05	-3.90e-06
28	29	1.88e-04	1.83	-0.62	-8.13e-04	-4.55e-06	3.97e-06
28	30	-4.21	0.03	-0.52	-1.51e-04	-4.11e-03	5.55e-05
28	31	4.21	8.60e-03	-0.56	-1.86e-04	4.13e-03	-5.53e-05
28	32	2.50e-03	-3.49	-0.45	7.91e-04	-1.40e-05	-1.53e-05
28	33	-1.38e-03	3.49	-0.63	-1.40e-03	-3.43e-06	1.62e-05
28	34	-4.21	0.03	-0.52	-1.51e-04	-4.11e-03	5.55e-05
28	35	4.21	8.60e-03	-0.56	-1.86e-04	4.13e-03	-5.53e-05
28	36	1.30e-03	-2.06	-0.46	6.03e-04	-1.34e-05	-4.78e-06
28	37	1.36e-04	2.08	-0.62	-9.24e-04	-4.32e-06	4.60e-06
28	38	5.72e-04	0.02	-0.50	-1.74e-04	-5.51e-06	0.0
28	39	7.44e-04	0.02	-0.55	-1.66e-04	-9.31e-06	0.0
28	40	6.05e-04	0.02	-0.51	-1.85e-04	-6.26e-06	0.0
28	41	7.20e-04	0.02	-0.54	-1.67e-04	-8.77e-06	0.0
28	42	7.53e-04	0.02	-0.55	-1.79e-04	-9.51e-06	0.0
28	43	5.72e-04	0.02	-0.50	-1.74e-04	-5.51e-06	0.0
28	44	7.20e-04	0.02	-0.54	-1.67e-04	-8.77e-06	0.0
28	45	5.72e-04	0.02	-0.50	-1.74e-04	-5.51e-06	0.0
28	46	7.20e-04	0.02	-0.54	-1.67e-04	-8.77e-06	0.0
29	1	-7.55e-03	6.12e-03	-0.61	-1.17e-04	-1.44e-04	0.0

29	2	-8.15e-03	5.78e-03	-0.64	-1.11e-04	-1.55e-04	0.0
29	3	-9.40e-03	6.90e-03	-0.71	-1.29e-04	-1.79e-04	0.0
29	4	-9.99e-03	6.56e-03	-0.74	-1.23e-04	-1.90e-04	0.0
29	5	-5.33e-03	4.51e-03	-0.45	-8.74e-05	-1.02e-04	0.0
29	6	-5.93e-03	4.17e-03	-0.48	-8.14e-05	-1.13e-04	0.0
29	7	-7.18e-03	5.29e-03	-0.54	-9.86e-05	-1.37e-04	0.0
29	8	-7.78e-03	4.94e-03	-0.57	-9.26e-05	-1.48e-04	0.0
29	9	-8.74e-03	5.44e-03	-0.67	-1.05e-04	-1.67e-04	0.0
29	10	-8.84e-03	6.67e-03	-0.68	-1.25e-04	-1.68e-04	0.0
29	11	-0.01	5.98e-03	-0.74	-1.13e-04	-1.91e-04	0.0
29	12	-6.53e-03	3.82e-03	-0.51	-7.54e-05	-1.24e-04	0.0
29	13	-6.63e-03	5.06e-03	-0.51	-9.52e-05	-1.26e-04	0.0
29	14	-7.82e-03	4.37e-03	-0.57	-8.32e-05	-1.49e-04	0.0
29	15	-5.74e-03	4.68e-03	-0.47	-8.99e-05	-1.09e-04	0.0
29	16	-6.14e-03	4.45e-03	-0.49	-8.59e-05	-1.17e-04	0.0
29	17	-6.98e-03	5.20e-03	-0.53	-9.73e-05	-1.33e-04	0.0
29	18	-7.37e-03	4.97e-03	-0.55	-9.33e-05	-1.41e-04	0.0
29	19	-6.54e-03	4.23e-03	-0.51	-8.19e-05	-1.25e-04	0.0
29	20	-6.61e-03	5.05e-03	-0.51	-9.51e-05	-1.26e-04	0.0
29	21	-7.40e-03	4.59e-03	-0.55	-8.71e-05	-1.41e-04	0.0
29	22	-0.13	3.06e-03	-0.47	-4.93e-05	-3.96e-04	1.41e-05
29	23	0.11	6.98e-03	-0.55	-1.42e-04	1.36e-04	-1.36e-05
29	24	-4.12e-03	-0.21	-0.15	8.87e-04	-8.72e-05	-1.06e-05
29	25	-8.61e-03	0.22	-0.86	-1.02e-03	-1.55e-04	1.07e-05
29	26	-0.12	2.89e-03	-0.47	-4.66e-05	-3.98e-04	1.47e-05
29	27	0.11	7.13e-03	-0.55	-1.44e-04	1.39e-04	-1.42e-05
29	28	-5.03e-03	-0.15	-0.25	5.65e-04	-9.91e-05	-6.73e-06
29	29	-7.80e-03	0.15	-0.76	-7.00e-04	-1.45e-04	7.30e-06
29	30	-0.12	3.01e-03	-0.47	-4.97e-05	-3.98e-04	1.51e-05
29	31	0.10	7.14e-03	-0.55	-1.44e-04	1.36e-04	-1.46e-05
29	32	-4.17e-03	-0.19	-0.16	8.59e-04	-8.77e-05	-9.24e-06
29	33	-8.52e-03	0.20	-0.85	-1.00e-03	-1.54e-04	9.22e-06
29	34	-0.12	3.01e-03	-0.47	-4.97e-05	-3.98e-04	1.51e-05
29	35	0.10	7.14e-03	-0.55	-1.44e-04	1.36e-04	-1.46e-05
29	36	-4.88e-03	-0.15	-0.22	6.20e-04	-9.65e-05	-6.59e-06
29	37	-7.92e-03	0.15	-0.78	-7.31e-04	-1.48e-04	6.86e-06
29	38	-5.74e-03	4.68e-03	-0.47	-8.99e-05	-1.09e-04	0.0
29	39	-6.61e-03	5.05e-03	-0.51	-9.51e-05	-1.26e-04	0.0
29	40	-5.90e-03	4.59e-03	-0.48	-8.83e-05	-1.12e-04	0.0
29	41	-6.48e-03	4.99e-03	-0.51	-9.43e-05	-1.23e-04	0.0
29	42	-6.64e-03	4.90e-03	-0.51	-9.27e-05	-1.27e-04	0.0
29	43	-5.74e-03	4.68e-03	-0.47	-8.99e-05	-1.09e-04	0.0
29	44	-6.48e-03	4.99e-03	-0.51	-9.43e-05	-1.23e-04	0.0
29	45	-5.74e-03	4.68e-03	-0.47	-8.99e-05	-1.09e-04	0.0
29	46	-6.48e-03	4.99e-03	-0.51	-9.43e-05	-1.23e-04	0.0
30	1	5.73e-04	0.02	-0.64	3.01e-04	7.20e-05	0.0
30	2	6.40e-04	0.02	-0.67	2.88e-04	6.97e-05	0.0
30	3	7.81e-04	0.02	-0.73	4.84e-04	6.49e-05	0.0
30	4	8.48e-04	0.02	-0.76	4.71e-04	6.26e-05	0.0
30	5	3.87e-04	0.01	-0.46	1.84e-04	5.72e-05	0.0
30	6	4.55e-04	0.01	-0.50	1.71e-04	5.50e-05	0.0
30	7	5.96e-04	0.01	-0.56	3.67e-04	5.01e-05	0.0
30	8	6.63e-04	0.02	-0.59	3.54e-04	4.79e-05	0.0
30	9	7.07e-04	0.02	-0.70	2.74e-04	6.75e-05	0.0
30	10	7.19e-04	0.02	-0.70	4.29e-04	6.70e-05	0.0
30	11	8.53e-04	0.02	-0.77	4.03e-04	6.26e-05	0.0
30	12	5.22e-04	0.02	-0.53	1.58e-04	5.27e-05	0.0
30	13	5.33e-04	0.01	-0.53	3.12e-04	5.22e-05	0.0
30	14	6.68e-04	0.02	-0.59	2.86e-04	4.78e-05	0.0
30	15	4.34e-04	0.01	-0.49	2.25e-04	5.56e-05	0.0
30	16	4.78e-04	0.01	-0.51	2.16e-04	5.41e-05	0.0
30	17	5.72e-04	0.01	-0.55	3.47e-04	5.09e-05	0.0
30	18	6.17e-04	0.02	-0.57	3.38e-04	4.94e-05	0.0
30	19	5.23e-04	0.01	-0.53	2.08e-04	5.26e-05	0.0
30	20	5.31e-04	0.01	-0.53	3.10e-04	5.23e-05	0.0
30	21	6.20e-04	0.02	-0.57	2.93e-04	4.93e-05	0.0
30	22	-3.06	0.02	-0.48	2.93e-04	-2.06e-03	4.10e-05
30	23	3.06	6.86e-03	-0.57	3.03e-04	2.23e-03	-4.09e-05
30	24	5.48e-03	-2.94	-0.16	7.03e-03	-2.95e-05	-6.57e-06
30	25	-4.38e-03	2.91	-0.88	-6.96e-03	1.39e-04	6.16e-06
30	26	-2.22	0.02	-0.48	2.95e-04	-9.56e-04	3.87e-05
30	27	2.22	7.22e-03	-0.57	3.02e-04	1.41e-03	-3.86e-05
30	28	1.30e-03	-0.98	-0.26	2.34e-03	-9.65e-06	0.0
30	29	-2.91e-04	1.02	-0.78	-2.23e-04	1.16e-04	0.0
30	30	-2.13	0.02	-0.48	2.93e-04	-1.17e-03	3.82e-05
30	31	2.13	7.30e-03	-0.57	3.03e-04	1.46e-03	-3.81e-05
30	32	5.22e-03	-1.85	-0.17	4.74e-03	-2.75e-05	-7.10e-06

30	33	-4.34e-03	1.86	-0.88	-4.83e-03	1.38e-04	7.28e-06
30	34	-2.13	0.02	-0.48	2.93e-04	-1.17e-03	3.82e-05
30	35	2.13	7.30e-03	-0.57	3.03e-04	1.46e-03	-3.81e-05
30	36	1.62e-03	-1.05	-0.24	2.62e-03	-1.54e-05	-1.05e-06
30	37	-5.36e-04	1.07	-0.80	-2.58e-03	1.20e-04	0.0
30	38	4.34e-04	0.01	-0.49	2.25e-04	5.56e-05	0.0
30	39	5.31e-04	0.01	-0.53	3.10e-04	5.23e-05	0.0
30	40	4.52e-04	0.01	-0.49	2.21e-04	5.50e-05	0.0
30	41	5.17e-04	0.01	-0.52	2.98e-04	5.28e-05	0.0
30	42	5.35e-04	0.01	-0.53	2.95e-04	5.22e-05	0.0
30	43	4.34e-04	0.01	-0.49	2.25e-04	5.56e-05	0.0
30	44	5.17e-04	0.01	-0.52	2.98e-04	5.28e-05	0.0
30	45	4.34e-04	0.01	-0.49	2.25e-04	5.56e-05	0.0
30	46	5.17e-04	0.01	-0.52	2.98e-04	5.28e-05	0.0
31	1	7.13e-04	0.02	-0.65	4.63e-04	6.53e-05	0.0
31	2	8.29e-04	0.02	-0.68	5.83e-04	6.07e-05	0.0
31	3	1.06e-03	0.03	-0.74	4.39e-04	5.26e-05	0.0
31	4	1.18e-03	0.03	-0.78	5.59e-04	4.80e-05	0.0
31	5	4.59e-04	0.01	-0.47	3.62e-04	5.35e-05	0.0
31	6	5.75e-04	0.02	-0.51	4.82e-04	4.89e-05	0.0
31	7	8.08e-04	0.02	-0.57	3.38e-04	4.08e-05	0.0
31	8	9.23e-04	0.02	-0.60	4.58e-04	3.62e-05	0.0
31	9	9.44e-04	0.03	-0.71	7.03e-04	5.62e-05	0.0
31	10	9.57e-04	0.03	-0.72	4.46e-04	5.64e-05	0.0
31	11	1.19e-03	0.03	-0.78	6.86e-04	4.73e-05	0.0
31	12	6.90e-04	0.02	-0.54	6.02e-04	4.44e-05	0.0
31	13	7.03e-04	0.02	-0.54	3.45e-04	4.46e-05	0.0
31	14	9.34e-04	0.03	-0.61	5.85e-04	3.55e-05	0.0
31	15	5.37e-04	0.02	-0.49	3.57e-04	5.06e-05	0.0
31	16	6.14e-04	0.02	-0.52	4.37e-04	4.76e-05	0.0
31	17	7.69e-04	0.02	-0.56	3.41e-04	4.22e-05	0.0
31	18	8.46e-04	0.02	-0.58	4.21e-04	3.92e-05	0.0
31	19	6.91e-04	0.02	-0.54	5.17e-04	4.46e-05	0.0
31	20	6.99e-04	0.02	-0.54	3.46e-04	4.47e-05	0.0
31	21	8.53e-04	0.02	-0.58	5.06e-04	3.87e-05	0.0
31	22	-5.21	0.03	-0.49	3.80e-04	-4.26e-04	5.55e-05
31	23	5.20	8.90e-03	-0.58	3.12e-04	5.62e-04	-5.51e-05
31	24	9.87e-03	-4.97	-0.16	2.50e-03	-2.34e-05	-1.37e-05
31	25	-8.47e-03	4.90	-0.90	-2.17e-03	1.19e-04	1.34e-05
31	26	-3.85	0.03	-0.49	3.83e-04	-4.51e-04	5.22e-05
31	27	3.85	9.44e-03	-0.58	3.10e-04	5.75e-04	-5.19e-05
31	28	2.65e-03	-1.78	-0.27	1.38e-03	-6.59e-06	-1.40e-06
31	29	-1.34e-03	1.83	-0.79	-5.86e-04	9.87e-05	1.57e-06
31	30	-4.24	0.03	-0.49	3.78e-04	-4.19e-04	6.09e-05
31	31	4.23	8.03e-03	-0.58	3.13e-04	5.67e-04	-6.05e-05
31	32	8.92e-03	-3.49	-0.17	2.29e-03	-2.14e-05	-1.14e-05
31	33	-8.26e-03	3.49	-0.89	-1.78e-03	1.18e-04	1.24e-05
31	34	-4.24	0.03	-0.49	3.78e-04	-4.19e-04	6.09e-05
31	35	4.23	8.03e-03	-0.58	3.13e-04	5.67e-04	-6.05e-05
31	36	3.07e-03	-2.06	-0.24	1.65e-03	-1.14e-05	-1.49e-06
31	37	-1.60e-03	2.08	-0.81	-8.10e-04	1.02e-04	1.50e-06
31	38	5.37e-04	0.02	-0.49	3.57e-04	5.06e-05	0.0
31	39	6.99e-04	0.02	-0.54	3.46e-04	4.47e-05	0.0
31	40	5.67e-04	0.02	-0.50	3.89e-04	4.94e-05	0.0
31	41	6.76e-04	0.02	-0.53	3.47e-04	4.56e-05	0.0
31	42	7.07e-04	0.02	-0.54	3.79e-04	4.43e-05	0.0
31	43	5.37e-04	0.02	-0.49	3.57e-04	5.06e-05	0.0
31	44	6.76e-04	0.02	-0.53	3.47e-04	4.56e-05	0.0
31	45	5.37e-04	0.02	-0.49	3.57e-04	5.06e-05	0.0
31	46	6.76e-04	0.02	-0.53	3.47e-04	4.56e-05	0.0
32	1	9.57e-03	-1.33e-03	-0.55	3.37e-05	1.82e-04	0.0
32	2	9.78e-03	-8.58e-04	-0.57	2.59e-05	1.86e-04	0.0
32	3	0.01	-6.81e-04	-0.61	2.15e-05	1.94e-04	1.03e-06
32	4	0.01	-2.14e-04	-0.63	1.37e-05	1.98e-04	1.12e-06
32	5	7.20e-03	-1.18e-03	-0.40	2.90e-05	1.37e-04	0.0
32	6	7.41e-03	-7.17e-04	-0.43	2.12e-05	1.41e-04	0.0
32	7	7.83e-03	-5.40e-04	-0.47	1.68e-05	1.49e-04	0.0
32	8	8.04e-03	-7.29e-05	-0.49	9.03e-06	1.53e-04	0.0
32	9	9.99e-03	-3.91e-04	-0.59	1.81e-05	1.90e-04	1.01e-06
32	10	0.01	-8.74e-04	-0.59	2.51e-05	1.90e-04	0.0
32	11	0.01	6.04e-05	-0.64	9.54e-06	1.98e-04	1.15e-06
32	12	7.62e-03	-2.50e-04	-0.45	1.35e-05	1.45e-04	0.0
32	13	7.64e-03	-7.33e-04	-0.45	2.05e-05	1.45e-04	0.0
32	14	8.06e-03	2.01e-04	-0.49	4.90e-06	1.53e-04	0.0
32	15	7.34e-03	-1.04e-03	-0.42	2.63e-05	1.40e-04	0.0
32	16	7.48e-03	-7.30e-04	-0.43	2.11e-05	1.42e-04	0.0
32	17	7.76e-03	-6.12e-04	-0.46	1.82e-05	1.47e-04	0.0

32	18	7.90e-03	-3.00e-04	-0.48	1.30e-05	1.50e-04	0.0
32	19	7.62e-03	-4.18e-04	-0.45	1.59e-05	1.45e-04	0.0
32	20	7.64e-03	-7.41e-04	-0.45	2.06e-05	1.45e-04	0.0
32	21	7.91e-03	-1.18e-04	-0.48	1.02e-05	1.50e-04	0.0
32	22	-0.13	0.01	-0.21	-2.02e-04	-4.44e-04	-2.41e-05
32	23	0.14	-0.01	-0.68	2.46e-04	7.56e-04	2.54e-05
32	24	0.03	-0.27	-0.98	1.57e-03	6.10e-04	-1.51e-05
32	25	-0.01	0.26	0.08	-1.49e-03	-2.97e-04	1.53e-05
32	26	-0.12	0.01	-0.22	-1.90e-04	-4.19e-04	-2.58e-05
32	27	0.14	-0.01	-0.67	2.35e-04	7.32e-04	2.70e-05
32	28	0.02	-0.19	-0.82	1.02e-03	4.65e-04	-9.41e-06
32	29	-8.69e-03	0.19	-0.06	-1.02e-03	-1.77e-04	1.07e-05
32	30	-0.12	0.01	-0.21	-2.05e-04	-4.40e-04	-2.71e-05
32	31	0.13	-0.01	-0.68	2.47e-04	7.46e-04	2.84e-05
32	32	0.03	-0.24	-0.97	1.54e-03	6.00e-04	-1.33e-05
32	33	-0.01	0.24	0.07	-1.45e-03	-2.88e-04	1.33e-05
32	34	-0.12	0.01	-0.21	-2.05e-04	-4.40e-04	-2.71e-05
32	35	0.13	-0.01	-0.68	2.47e-04	7.46e-04	2.84e-05
32	36	0.03	-0.19	-0.85	1.10e-03	4.94e-04	-9.27e-06
32	37	-9.77e-03	0.19	-0.04	-1.08e-03	-1.97e-04	1.01e-05
32	38	7.34e-03	-1.04e-03	-0.42	2.63e-05	1.40e-04	0.0
32	39	7.64e-03	-7.41e-04	-0.45	2.06e-05	1.45e-04	0.0
32	40	7.40e-03	-9.17e-04	-0.42	2.42e-05	1.41e-04	0.0
32	41	7.59e-03	-7.84e-04	-0.45	2.14e-05	1.44e-04	0.0
32	42	7.65e-03	-6.59e-04	-0.45	1.94e-05	1.45e-04	0.0
32	43	7.34e-03	-1.04e-03	-0.42	2.63e-05	1.40e-04	0.0
32	44	7.59e-03	-7.84e-04	-0.45	2.14e-05	1.44e-04	0.0
32	45	7.34e-03	-1.04e-03	-0.42	2.63e-05	1.40e-04	0.0
32	46	7.59e-03	-7.84e-04	-0.45	2.14e-05	1.44e-04	0.0
33	1	9.26e-04	0.01	-0.56	-1.20e-04	-1.82e-04	0.0
33	2	9.95e-04	0.02	-0.58	-1.23e-04	-1.89e-04	0.0
33	3	1.16e-03	0.02	-0.63	-1.82e-04	-2.02e-04	0.0
33	4	1.22e-03	0.02	-0.65	-1.85e-04	-2.09e-04	0.0
33	5	6.54e-04	0.01	-0.41	-7.64e-05	-1.35e-04	0.0
33	6	7.22e-04	0.01	-0.43	-7.96e-05	-1.42e-04	0.0
33	7	8.83e-04	0.01	-0.48	-1.39e-04	-1.55e-04	0.0
33	8	9.52e-04	0.02	-0.50	-1.42e-04	-1.61e-04	0.0
33	9	1.06e-03	0.02	-0.60	-1.26e-04	-1.95e-04	0.0
33	10	1.09e-03	0.02	-0.61	-1.64e-04	-1.96e-04	0.0
33	11	1.22e-03	0.02	-0.65	-1.70e-04	-2.09e-04	0.0
33	12	7.91e-04	0.01	-0.46	-8.29e-05	-1.48e-04	0.0
33	13	8.15e-04	0.01	-0.46	-1.20e-04	-1.49e-04	0.0
33	14	9.52e-04	0.02	-0.50	-1.26e-04	-1.62e-04	0.0
33	15	7.05e-04	0.01	-0.43	-9.02e-05	-1.40e-04	0.0
33	16	7.50e-04	0.01	-0.44	-9.24e-05	-1.44e-04	0.0
33	17	8.58e-04	0.01	-0.47	-1.32e-04	-1.53e-04	0.0
33	18	9.04e-04	0.02	-0.49	-1.34e-04	-1.57e-04	0.0
33	19	7.96e-04	0.01	-0.46	-9.45e-05	-1.48e-04	0.0
33	20	8.12e-04	0.01	-0.46	-1.19e-04	-1.49e-04	0.0
33	21	9.03e-04	0.02	-0.49	-1.24e-04	-1.57e-04	0.0
33	22	-3.01	0.05	-0.21	-2.08e-04	-6.44e-03	3.19e-05
33	23	3.01	-0.02	-0.70	-2.19e-05	6.47e-03	-3.22e-05
33	24	-2.01e-03	-2.94	-0.99	6.91e-03	-8.91e-05	-2.78e-06
33	25	3.48e-03	2.90	0.08	-6.80e-03	-1.93e-04	2.58e-06
33	26	-2.17	0.04	-0.22	-2.03e-04	-4.40e-03	3.03e-05
33	27	2.17	-0.02	-0.69	-2.68e-05	4.46e-03	-3.06e-05
33	28	1.32e-03	-0.98	-0.84	1.85e-03	-1.09e-04	2.32e-06
33	29	2.59e-04	1.01	-0.07	-1.94e-03	-1.84e-04	-2.48e-06
33	30	-2.09	0.04	-0.21	-2.11e-04	-5.08e-03	2.93e-05
33	31	2.09	-0.02	-0.70	-1.94e-05	5.06e-03	-3.00e-05
33	32	-2.27e-03	-1.85	-0.99	4.66e-03	-9.07e-05	-4.47e-06
33	33	4.04e-03	1.86	0.07	-4.63e-03	-1.92e-04	5.03e-06
33	34	-2.09	0.04	-0.21	-2.11e-04	-5.08e-03	2.93e-05
33	35	2.09	-0.02	-0.70	-1.94e-05	5.06e-03	-3.00e-05
33	36	7.05e-04	-1.05	-0.87	2.24e-03	-1.06e-04	0.0
33	37	8.38e-04	1.06	-0.04	-2.25e-03	-1.85e-04	0.0
33	38	7.05e-04	0.01	-0.43	-9.02e-05	-1.40e-04	0.0
33	39	8.12e-04	0.01	-0.46	-1.19e-04	-1.49e-04	0.0
33	40	7.23e-04	0.01	-0.43	-9.11e-05	-1.41e-04	0.0
33	41	7.97e-04	0.01	-0.45	-1.15e-04	-1.48e-04	0.0
33	42	8.15e-04	0.01	-0.46	-1.16e-04	-1.49e-04	0.0
33	43	7.05e-04	0.01	-0.43	-9.02e-05	-1.40e-04	0.0
33	44	7.97e-04	0.01	-0.45	-1.15e-04	-1.48e-04	0.0
33	45	7.05e-04	0.01	-0.43	-9.02e-05	-1.40e-04	0.0
33	46	7.97e-04	0.01	-0.45	-1.15e-04	-1.48e-04	0.0
34	1	3.53e-04	0.02	-0.56	-1.43e-04	-2.01e-04	0.0
34	2	4.59e-04	0.02	-0.59	-1.80e-04	-2.09e-04	0.0

34	3	6.61e-04	0.03	-0.63	-1.55e-04	-2.23e-04	-1.03e-06
34	4	7.68e-04	0.03	-0.65	-1.92e-04	-2.31e-04	-1.11e-06
34	5	1.92e-04	0.01	-0.42	-1.07e-04	-1.49e-04	0.0
34	6	2.98e-04	0.02	-0.44	-1.44e-04	-1.57e-04	0.0
34	7	5.01e-04	0.02	-0.48	-1.19e-04	-1.71e-04	0.0
34	8	6.07e-04	0.03	-0.51	-1.56e-04	-1.79e-04	0.0
34	9	5.65e-04	0.03	-0.61	-2.17e-04	-2.17e-04	0.0
34	10	5.69e-04	0.03	-0.61	-1.51e-04	-2.17e-04	0.0
34	11	7.81e-04	0.03	-0.66	-2.25e-04	-2.32e-04	-1.13e-06
34	12	4.05e-04	0.02	-0.46	-1.80e-04	-1.65e-04	0.0
34	13	4.08e-04	0.02	-0.46	-1.15e-04	-1.65e-04	0.0
34	14	6.21e-04	0.03	-0.51	-1.89e-04	-1.80e-04	0.0
34	15	2.61e-04	0.02	-0.43	-1.10e-04	-1.54e-04	0.0
34	16	3.32e-04	0.02	-0.45	-1.34e-04	-1.59e-04	0.0
34	17	4.67e-04	0.02	-0.48	-1.17e-04	-1.69e-04	0.0
34	18	5.37e-04	0.02	-0.49	-1.42e-04	-1.74e-04	0.0
34	19	4.02e-04	0.02	-0.46	-1.59e-04	-1.65e-04	0.0
34	20	4.05e-04	0.02	-0.46	-1.15e-04	-1.64e-04	0.0
34	21	5.47e-04	0.02	-0.49	-1.64e-04	-1.75e-04	0.0
34	22	-5.14	0.07	-0.22	-2.89e-04	-1.71e-03	6.76e-05
34	23	5.14	-0.03	-0.70	6.12e-05	1.31e-03	-6.86e-05
34	24	-7.33e-03	-4.97	-1.00	2.35e-03	2.12e-05	-9.35e-06
34	25	7.71e-03	4.90	0.08	-2.37e-03	-3.25e-04	8.49e-06
34	26	-3.79	0.07	-0.23	-2.79e-04	-1.40e-03	6.36e-05
34	27	3.78	-0.03	-0.69	5.15e-05	1.03e-03	-6.48e-05
34	28	-5.37e-04	-1.78	-0.84	1.14e-03	-4.11e-05	1.12e-06
34	29	1.29e-03	1.83	-0.07	-1.43e-03	-2.82e-04	-2.17e-06
34	30	-4.16	0.07	-0.21	-3.00e-04	-1.82e-03	7.28e-05
34	31	4.16	-0.03	-0.70	7.03e-05	1.34e-03	-7.32e-05
34	32	-6.03e-03	-3.49	-1.00	1.99e-03	1.70e-05	-6.62e-06
34	33	7.23e-03	3.50	0.07	-2.22e-03	-3.23e-04	6.85e-06
34	34	-4.16	0.07	-0.21	-3.00e-04	-1.82e-03	7.28e-05
34	35	4.16	-0.03	-0.70	7.03e-05	1.34e-03	-7.32e-05
34	36	-6.34e-04	-2.06	-0.88	1.37e-03	-2.93e-05	1.87e-06
34	37	1.32e-03	2.08	-0.04	-1.64e-03	-2.89e-04	-2.92e-06
34	38	2.61e-04	0.02	-0.43	-1.10e-04	-1.54e-04	0.0
34	39	4.05e-04	0.02	-0.46	-1.15e-04	-1.64e-04	0.0
34	40	2.89e-04	0.02	-0.44	-1.19e-04	-1.56e-04	0.0
34	41	3.84e-04	0.02	-0.46	-1.14e-04	-1.63e-04	0.0
34	42	4.13e-04	0.02	-0.46	-1.24e-04	-1.65e-04	0.0
34	43	2.61e-04	0.02	-0.43	-1.10e-04	-1.54e-04	0.0
34	44	3.84e-04	0.02	-0.46	-1.14e-04	-1.63e-04	0.0
34	45	2.61e-04	0.02	-0.43	-1.10e-04	-1.54e-04	0.0
34	46	3.84e-04	0.02	-0.46	-1.14e-04	-1.63e-04	0.0
35	1	7.72e-03	1.63e-03	-0.55	-2.24e-05	1.48e-04	0.0
35	2	7.77e-03	2.09e-03	-0.57	-2.99e-05	1.49e-04	0.0
35	3	7.89e-03	2.67e-03	-0.62	-4.12e-05	1.51e-04	0.0
35	4	7.95e-03	3.13e-03	-0.64	-4.87e-05	1.52e-04	0.0
35	5	5.90e-03	9.89e-04	-0.40	-1.24e-05	1.13e-04	0.0
35	6	5.95e-03	1.44e-03	-0.43	-1.99e-05	1.14e-04	0.0
35	7	6.07e-03	2.03e-03	-0.47	-3.12e-05	1.16e-04	0.0
35	8	6.12e-03	2.49e-03	-0.50	-3.87e-05	1.17e-04	0.0
35	9	7.82e-03	2.54e-03	-0.59	-3.74e-05	1.50e-04	0.0
35	10	7.84e-03	2.36e-03	-0.60	-3.55e-05	1.51e-04	0.0
35	11	7.94e-03	3.27e-03	-0.64	-5.06e-05	1.52e-04	0.0
35	12	6.00e-03	1.90e-03	-0.45	-2.75e-05	1.15e-04	0.0
35	13	6.02e-03	1.72e-03	-0.45	-2.55e-05	1.15e-04	0.0
35	14	6.12e-03	2.63e-03	-0.50	-4.06e-05	1.17e-04	0.0
35	15	5.93e-03	1.22e-03	-0.42	-1.66e-05	1.14e-04	0.0
35	16	5.97e-03	1.52e-03	-0.43	-2.16e-05	1.15e-04	0.0
35	17	6.05e-03	1.91e-03	-0.47	-2.91e-05	1.16e-04	0.0
35	18	6.08e-03	2.22e-03	-0.48	-3.41e-05	1.17e-04	0.0
35	19	6.00e-03	1.83e-03	-0.45	-2.66e-05	1.15e-04	0.0
35	20	6.01e-03	1.71e-03	-0.45	-2.53e-05	1.15e-04	0.0
35	21	6.08e-03	2.31e-03	-0.48	-3.54e-05	1.17e-04	0.0
35	22	-0.11	0.01	-0.28	-1.57e-04	-3.93e-04	-2.14e-05
35	23	0.13	-8.10e-03	-0.62	1.10e-04	6.49e-04	2.18e-05
35	24	0.01	-0.24	-0.58	9.92e-04	2.60e-04	-6.97e-06
35	25	-2.11e-03	0.24	-0.31	-1.02e-03	-4.23e-05	7.06e-06
35	26	-0.11	0.01	-0.28	-1.50e-04	-3.78e-04	-2.26e-05
35	27	0.12	-7.52e-03	-0.61	1.04e-04	6.34e-04	2.30e-05
35	28	0.01	-0.17	-0.55	7.15e-04	2.30e-04	-4.25e-06
35	29	-1.27e-05	0.17	-0.35	-7.75e-04	0.0	4.80e-06
35	30	-0.10	0.01	-0.28	-1.60e-04	-3.87e-04	-2.32e-05
35	31	0.12	-7.45e-03	-0.62	1.12e-04	6.39e-04	2.37e-05
35	32	0.01	-0.21	-0.57	9.79e-04	2.58e-04	-6.16e-06
35	33	-2.06e-03	0.21	-0.31	-9.96e-04	-4.13e-05	6.20e-06

35	34	-0.10	0.01	-0.28	-1.60e-04	-3.87e-04	-2.32e-05
35	35	0.12	-7.45e-03	-0.62	1.12e-04	6.39e-04	2.37e-05
35	36	0.01	-0.17	-0.56	7.82e-04	2.41e-04	-4.23e-06
35	37	-5.23e-04	0.17	-0.34	-8.29e-04	-1.04e-05	4.58e-06
35	38	5.93e-03	1.22e-03	-0.42	-1.66e-05	1.14e-04	0.0
35	39	6.01e-03	1.71e-03	-0.45	-2.53e-05	1.15e-04	0.0
35	40	5.95e-03	1.34e-03	-0.42	-1.86e-05	1.14e-04	0.0
35	41	6.00e-03	1.64e-03	-0.45	-2.41e-05	1.15e-04	0.0
35	42	6.02e-03	1.76e-03	-0.45	-2.61e-05	1.15e-04	0.0
35	43	5.93e-03	1.22e-03	-0.42	-1.66e-05	1.14e-04	0.0
35	44	6.00e-03	1.64e-03	-0.45	-2.41e-05	1.15e-04	0.0
35	45	5.93e-03	1.22e-03	-0.42	-1.66e-05	1.14e-04	0.0
35	46	6.00e-03	1.64e-03	-0.45	-2.41e-05	1.15e-04	0.0
36	1	9.57e-04	0.01	-0.56	0.0	-6.81e-05	0.0
36	2	1.02e-03	0.02	-0.59	-7.84e-06	-6.88e-05	0.0
36	3	1.22e-03	0.02	-0.64	-1.35e-06	-7.04e-05	0.0
36	4	1.28e-03	0.02	-0.66	-8.98e-06	-7.10e-05	0.0
36	5	6.69e-04	0.01	-0.41	0.0	-5.18e-05	0.0
36	6	7.29e-04	0.01	-0.44	-7.50e-06	-5.25e-05	0.0
36	7	9.29e-04	0.01	-0.49	-1.01e-06	-5.41e-05	0.0
36	8	9.88e-04	0.02	-0.51	-8.64e-06	-5.47e-05	0.0
36	9	1.08e-03	0.02	-0.61	-1.55e-05	-6.94e-05	0.0
36	10	1.14e-03	0.02	-0.61	-1.00e-06	-6.97e-05	0.0
36	11	1.26e-03	0.02	-0.66	-1.63e-05	-7.10e-05	0.0
36	12	7.89e-04	0.01	-0.46	-1.51e-05	-5.31e-05	0.0
36	13	8.51e-04	0.01	-0.47	0.0	-5.34e-05	0.0
36	14	9.70e-04	0.02	-0.52	-1.59e-05	-5.47e-05	0.0
36	15	7.27e-04	0.01	-0.43	0.0	-5.23e-05	0.0
36	16	7.67e-04	0.01	-0.45	-5.21e-06	-5.28e-05	0.0
36	17	9.00e-04	0.01	-0.48	0.0	-5.38e-05	0.0
36	18	9.40e-04	0.02	-0.50	-5.97e-06	-5.43e-05	0.0
36	19	8.07e-04	0.01	-0.46	-1.03e-05	-5.32e-05	0.0
36	20	8.48e-04	0.01	-0.46	0.0	-5.34e-05	0.0
36	21	9.28e-04	0.02	-0.50	-1.08e-05	-5.42e-05	0.0
36	22	-3.02	0.05	-0.29	-1.10e-04	-7.98e-03	3.46e-05
36	23	3.02	-0.02	-0.63	1.10e-04	8.00e-03	-3.45e-05
36	24	-3.85e-04	-2.94	-0.59	6.13e-03	-9.61e-05	-6.58e-06
36	25	1.85e-03	2.90	-0.33	-6.03e-03	-5.57e-06	6.67e-06
36	26	-2.18	0.04	-0.29	-1.04e-04	-6.05e-03	3.30e-05
36	27	2.18	-0.02	-0.63	1.04e-04	6.07e-03	-3.29e-05
36	28	9.54e-04	-0.98	-0.56	1.48e-03	-8.53e-05	0.0
36	29	5.96e-04	1.01	-0.36	-1.45e-03	-2.08e-05	0.0
36	30	-2.10	0.04	-0.29	-1.13e-04	-6.60e-03	3.13e-05
36	31	2.10	-0.02	-0.63	1.12e-04	6.61e-03	-3.15e-05
36	32	-4.40e-04	-1.85	-0.59	3.89e-03	-9.50e-05	-6.46e-06
36	33	1.98e-03	1.86	-0.33	-3.90e-03	-5.76e-06	7.10e-06
36	34	-2.10	0.04	-0.29	-1.13e-04	-6.60e-03	3.13e-05
36	35	2.10	-0.02	-0.63	1.12e-04	6.61e-03	-3.15e-05
36	36	7.52e-04	-1.05	-0.57	1.77e-03	-8.86e-05	0.0
36	37	7.69e-04	1.06	-0.35	-1.70e-03	-1.76e-05	1.02e-06
36	38	7.27e-04	0.01	-0.43	0.0	-5.23e-05	0.0
36	39	8.48e-04	0.01	-0.46	0.0	-5.34e-05	0.0
36	40	7.43e-04	0.01	-0.44	-2.15e-06	-5.25e-05	0.0
36	41	8.31e-04	0.01	-0.46	0.0	-5.32e-05	0.0
36	42	8.47e-04	0.01	-0.47	-2.61e-06	-5.34e-05	0.0
36	43	7.27e-04	0.01	-0.43	0.0	-5.23e-05	0.0
36	44	8.31e-04	0.01	-0.46	0.0	-5.32e-05	0.0
36	45	7.27e-04	0.01	-0.43	0.0	-5.23e-05	0.0
36	46	8.31e-04	0.01	-0.46	0.0	-5.32e-05	0.0
37	1	6.38e-04	0.02	-0.57	1.92e-05	-3.05e-05	0.0
37	2	7.71e-04	0.02	-0.60	2.02e-05	-3.22e-05	0.0
37	3	1.01e-03	0.03	-0.64	-2.64e-06	-3.53e-05	0.0
37	4	1.14e-03	0.03	-0.67	-1.63e-06	-3.70e-05	0.0
37	5	3.96e-04	0.01	-0.42	2.03e-05	-2.23e-05	0.0
37	6	5.28e-04	0.02	-0.45	2.13e-05	-2.40e-05	0.0
37	7	7.67e-04	0.02	-0.49	-1.47e-06	-2.70e-05	0.0
37	8	9.00e-04	0.03	-0.52	0.0	-2.87e-05	0.0
37	9	9.04e-04	0.03	-0.62	2.12e-05	-3.39e-05	0.0
37	10	8.98e-04	0.03	-0.62	3.90e-06	-3.39e-05	0.0
37	11	1.16e-03	0.03	-0.68	5.92e-06	-3.73e-05	0.0
37	12	6.61e-04	0.02	-0.47	2.23e-05	-2.57e-05	0.0
37	13	6.56e-04	0.02	-0.47	5.07e-06	-2.56e-05	0.0
37	14	9.22e-04	0.03	-0.52	7.09e-06	-2.90e-05	0.0
37	15	4.78e-04	0.02	-0.44	1.55e-05	-2.33e-05	0.0
37	16	5.67e-04	0.02	-0.45	1.62e-05	-2.45e-05	0.0
37	17	7.26e-04	0.02	-0.49	0.0	-2.65e-05	0.0
37	18	8.15e-04	0.02	-0.50	1.62e-06	-2.76e-05	0.0

37	19	6.55e-04	0.02	-0.47	1.68e-05	-2.56e-05	0.0
37	20	6.52e-04	0.02	-0.47	5.31e-06	-2.56e-05	0.0
37	21	8.29e-04	0.02	-0.51	6.66e-06	-2.78e-05	0.0
37	22	-5.17	0.07	-0.29	-1.30e-04	-3.80e-03	6.99e-05
37	23	5.16	-0.03	-0.64	1.45e-04	3.68e-03	-7.04e-05
37	24	-2.75e-03	-4.97	-0.59	1.43e-03	1.63e-05	-1.56e-05
37	25	3.52e-03	4.90	-0.33	-1.32e-03	-6.42e-05	1.45e-05
37	26	-3.81	0.07	-0.30	-1.22e-04	-2.91e-03	6.58e-05
37	27	3.81	-0.03	-0.63	1.37e-04	2.80e-03	-6.67e-05
37	28	8.99e-05	-1.78	-0.57	9.33e-04	4.60e-06	-3.11e-06
37	29	1.05e-03	1.83	-0.37	-9.33e-04	-5.47e-05	2.19e-06
37	30	-4.19	0.07	-0.29	-1.36e-04	-4.18e-03	7.55e-05
37	31	4.19	-0.03	-0.64	1.49e-04	4.05e-03	-7.57e-05
37	32	-2.20e-03	-3.49	-0.59	1.43e-03	1.66e-05	-1.36e-05
37	33	3.37e-03	3.50	-0.33	-1.33e-03	-6.43e-05	1.39e-05
37	34	-4.19	0.07	-0.29	-1.36e-04	-4.18e-03	7.55e-05
37	35	4.19	-0.03	-0.64	1.49e-04	4.05e-03	-7.57e-05
37	36	8.43e-06	-2.06	-0.58	1.07e-03	8.00e-06	-3.59e-06
37	37	1.10e-03	2.08	-0.36	-1.05e-03	-5.70e-05	2.51e-06
37	38	4.78e-04	0.02	-0.44	1.55e-05	-2.33e-05	0.0
37	39	6.52e-04	0.02	-0.47	5.31e-06	-2.56e-05	0.0
37	40	5.14e-04	0.02	-0.44	1.57e-05	-2.38e-05	0.0
37	41	6.27e-04	0.02	-0.47	6.76e-06	-2.52e-05	0.0
37	42	6.62e-04	0.02	-0.47	7.03e-06	-2.57e-05	0.0
37	43	4.78e-04	0.02	-0.44	1.55e-05	-2.33e-05	0.0
37	44	6.27e-04	0.02	-0.47	6.76e-06	-2.52e-05	0.0
37	45	4.78e-04	0.02	-0.44	1.55e-05	-2.33e-05	0.0
37	46	6.27e-04	0.02	-0.47	6.76e-06	-2.52e-05	0.0
38	1	7.28e-03	1.07e-03	-0.55	-1.22e-05	1.40e-04	0.0
38	2	7.30e-03	1.13e-03	-0.58	-1.20e-05	1.40e-04	0.0
38	3	7.36e-03	1.05e-03	-0.63	-9.77e-06	1.41e-04	0.0
38	4	7.38e-03	1.11e-03	-0.65	-9.61e-06	1.42e-04	0.0
38	5	5.58e-03	8.30e-04	-0.41	-9.98e-06	1.07e-04	0.0
38	6	5.59e-03	8.90e-04	-0.43	-9.82e-06	1.07e-04	0.0
38	7	5.66e-03	8.08e-04	-0.48	-7.58e-06	1.09e-04	0.0
38	8	5.68e-03	8.69e-04	-0.51	-7.41e-06	1.09e-04	0.0
38	9	7.31e-03	1.19e-03	-0.60	-1.18e-05	1.40e-04	0.0
38	10	7.34e-03	1.06e-03	-0.61	-1.05e-05	1.41e-04	0.0
38	11	7.37e-03	1.18e-03	-0.66	-1.02e-05	1.41e-04	0.0
38	12	5.61e-03	9.51e-04	-0.46	-9.65e-06	1.08e-04	0.0
38	13	5.64e-03	8.15e-04	-0.46	-8.30e-06	1.08e-04	0.0
38	14	5.67e-03	9.36e-04	-0.51	-7.97e-06	1.09e-04	0.0
38	15	5.60e-03	8.25e-04	-0.42	-9.45e-06	1.07e-04	0.0
38	16	5.61e-03	8.65e-04	-0.44	-9.34e-06	1.08e-04	0.0
38	17	5.65e-03	8.11e-04	-0.47	-7.84e-06	1.08e-04	0.0
38	18	5.66e-03	8.51e-04	-0.49	-7.74e-06	1.09e-04	0.0
38	19	5.62e-03	9.06e-04	-0.46	-9.23e-06	1.08e-04	0.0
38	20	5.64e-03	8.15e-04	-0.46	-8.32e-06	1.08e-04	0.0
38	21	5.66e-03	8.96e-04	-0.49	-8.11e-06	1.09e-04	0.0
38	22	-0.11	2.13e-03	-0.30	2.85e-05	-3.81e-04	1.36e-05
38	23	0.12	-5.33e-04	-0.61	-4.27e-05	6.19e-04	-1.31e-05
38	24	4.17e-05	-0.22	-0.34	7.33e-04	-1.30e-06	-7.51e-06
38	25	0.01	0.22	-0.57	-7.60e-04	2.00e-04	7.46e-06
38	26	-0.11	2.01e-03	-0.30	2.61e-05	-3.67e-04	1.45e-05
38	27	0.12	-4.07e-04	-0.60	-4.06e-05	6.06e-04	-1.39e-05
38	28	1.99e-03	-0.16	-0.37	5.77e-04	3.73e-05	-4.69e-06
38	29	9.21e-03	0.16	-0.54	-5.83e-04	1.78e-04	5.02e-06
38	30	-0.10	1.39e-03	-0.30	2.95e-05	-3.74e-04	1.54e-05
38	31	0.11	1.64e-04	-0.61	-4.27e-05	6.09e-04	-1.49e-05
38	32	1.00e-04	-0.20	-0.34	7.19e-04	0.0	-6.62e-06
38	33	0.01	0.20	-0.56	-7.53e-04	1.97e-04	6.52e-06
38	34	-0.10	1.39e-03	-0.30	2.95e-05	-3.74e-04	1.54e-05
38	35	0.11	1.64e-04	-0.61	-4.27e-05	6.09e-04	-1.49e-05
38	36	1.64e-03	-0.16	-0.36	6.30e-04	3.06e-05	-4.65e-06
38	37	9.41e-03	0.16	-0.55	-6.28e-04	1.82e-04	4.78e-06
38	38	5.60e-03	8.25e-04	-0.42	-9.45e-06	1.07e-04	0.0
38	39	5.64e-03	8.15e-04	-0.46	-8.32e-06	1.08e-04	0.0
38	40	5.60e-03	8.41e-04	-0.43	-9.40e-06	1.08e-04	0.0
38	41	5.63e-03	8.17e-04	-0.45	-8.49e-06	1.08e-04	0.0
38	42	5.63e-03	8.33e-04	-0.46	-8.44e-06	1.08e-04	0.0
38	43	5.60e-03	8.25e-04	-0.42	-9.45e-06	1.07e-04	0.0
38	44	5.63e-03	8.17e-04	-0.45	-8.49e-06	1.08e-04	0.0
38	45	5.60e-03	8.25e-04	-0.42	-9.45e-06	1.07e-04	0.0
38	46	5.63e-03	8.17e-04	-0.45	-8.49e-06	1.08e-04	0.0
39	1	9.03e-04	0.01	-0.57	-1.17e-04	-6.44e-05	0.0
39	2	9.56e-04	0.02	-0.60	-1.17e-04	-6.48e-05	0.0
39	3	1.17e-03	0.02	-0.65	-1.66e-04	-6.60e-05	0.0

39	4	1.22e-03	0.02	-0.68	-1.66e-04	-6.64e-05	0.0
39	5	6.26e-04	0.01	-0.42	-7.71e-05	-4.91e-05	0.0
39	6	6.79e-04	0.01	-0.45	-7.74e-05	-4.95e-05	0.0
39	7	8.93e-04	0.01	-0.50	-1.26e-04	-5.07e-05	0.0
39	8	9.47e-04	0.02	-0.53	-1.26e-04	-5.11e-05	0.0
39	9	1.01e-03	0.02	-0.63	-1.17e-04	-6.52e-05	0.0
39	10	1.09e-03	0.02	-0.63	-1.51e-04	-6.55e-05	0.0
39	11	1.20e-03	0.02	-0.68	-1.51e-04	-6.63e-05	0.0
39	12	7.32e-04	0.01	-0.47	-7.76e-05	-4.99e-05	0.0
39	13	8.13e-04	0.01	-0.48	-1.11e-04	-5.02e-05	0.0
39	14	9.20e-04	0.02	-0.53	-1.12e-04	-5.11e-05	0.0
39	15	6.85e-04	0.01	-0.44	-8.80e-05	-4.95e-05	0.0
39	16	7.21e-04	0.01	-0.46	-8.82e-05	-4.98e-05	0.0
39	17	8.64e-04	0.01	-0.49	-1.21e-04	-5.06e-05	0.0
39	18	8.99e-04	0.02	-0.51	-1.21e-04	-5.08e-05	0.0
39	19	7.56e-04	0.01	-0.47	-8.83e-05	-5.00e-05	0.0
39	20	8.10e-04	0.01	-0.47	-1.11e-04	-5.02e-05	0.0
39	21	8.81e-04	0.02	-0.51	-1.11e-04	-5.08e-05	0.0
39	22	-3.03	0.05	-0.31	-1.04e-04	-8.07e-03	4.64e-05
39	23	3.03	-0.02	-0.63	-1.09e-04	8.08e-03	-4.63e-05
39	24	1.60e-03	-2.94	-0.35	6.18e-03	-2.09e-05	-7.10e-06
39	25	-1.59e-04	2.90	-0.58	-6.08e-03	-7.35e-05	6.84e-06
39	26	-2.20	0.04	-0.32	-1.04e-04	-6.14e-03	4.35e-05
39	27	2.20	-0.02	-0.62	-1.09e-04	6.16e-03	-4.36e-05
39	28	8.25e-04	-0.98	-0.38	1.44e-03	-3.35e-05	0.0
39	29	6.26e-04	1.01	-0.56	-1.72e-03	-6.65e-05	0.0
39	30	-2.11	0.04	-0.31	-1.05e-04	-6.68e-03	4.32e-05
39	31	2.11	-0.02	-0.62	-1.08e-04	6.69e-03	-4.28e-05
39	32	1.54e-03	-1.85	-0.35	3.95e-03	-2.13e-05	-6.92e-06
39	33	-1.86e-04	1.86	-0.58	-3.96e-03	-7.25e-05	7.12e-06
39	34	-2.11	0.04	-0.31	-1.05e-04	-6.68e-03	4.32e-05
39	35	2.11	-0.02	-0.62	-1.08e-04	6.69e-03	-4.28e-05
39	36	8.74e-04	-1.05	-0.37	1.75e-03	-3.18e-05	-1.06e-06
39	37	5.75e-04	1.06	-0.57	-1.99e-03	-6.73e-05	0.0
39	38	6.85e-04	0.01	-0.44	-8.80e-05	-4.95e-05	0.0
39	39	8.10e-04	0.01	-0.47	-1.11e-04	-5.02e-05	0.0
39	40	6.99e-04	0.01	-0.44	-8.81e-05	-4.96e-05	0.0
39	41	7.92e-04	0.01	-0.47	-1.08e-04	-5.01e-05	0.0
39	42	8.06e-04	0.01	-0.48	-1.08e-04	-5.02e-05	0.0
39	43	6.85e-04	0.01	-0.44	-8.80e-05	-4.95e-05	0.0
39	44	7.92e-04	0.01	-0.47	-1.08e-04	-5.01e-05	0.0
39	45	6.85e-04	0.01	-0.44	-8.80e-05	-4.95e-05	0.0
39	46	7.92e-04	0.01	-0.47	-1.08e-04	-5.01e-05	0.0
40	1	7.33e-04	0.02	-0.58	-1.52e-04	-2.61e-05	0.0
40	2	8.74e-04	0.02	-0.61	-1.77e-04	-2.77e-05	0.0
40	3	1.12e-03	0.03	-0.66	-1.49e-04	-3.08e-05	0.0
40	4	1.26e-03	0.03	-0.69	-1.74e-04	-3.24e-05	0.0
40	5	4.64e-04	0.01	-0.43	-1.18e-04	-1.88e-05	0.0
40	6	6.05e-04	0.02	-0.46	-1.42e-04	-2.05e-05	0.0
40	7	8.53e-04	0.02	-0.51	-1.15e-04	-2.35e-05	0.0
40	8	9.94e-04	0.03	-0.53	-1.40e-04	-2.52e-05	0.0
40	9	1.01e-03	0.03	-0.64	-2.01e-04	-2.94e-05	0.0
40	10	1.01e-03	0.03	-0.64	-1.50e-04	-2.94e-05	0.0
40	11	1.29e-03	0.03	-0.69	-1.99e-04	-3.27e-05	0.0
40	12	7.46e-04	0.02	-0.48	-1.67e-04	-2.21e-05	0.0
40	13	7.36e-04	0.02	-0.48	-1.16e-04	-2.21e-05	0.0
40	14	1.02e-03	0.03	-0.54	-1.65e-04	-2.54e-05	0.0
40	15	5.50e-04	0.02	-0.45	-1.17e-04	-1.99e-05	0.0
40	16	6.44e-04	0.02	-0.46	-1.33e-04	-2.10e-05	0.0
40	17	8.10e-04	0.02	-0.50	-1.15e-04	-2.30e-05	0.0
40	18	9.04e-04	0.02	-0.52	-1.32e-04	-2.41e-05	0.0
40	19	7.38e-04	0.02	-0.48	-1.50e-04	-2.21e-05	0.0
40	20	7.32e-04	0.02	-0.48	-1.16e-04	-2.21e-05	0.0
40	21	9.20e-04	0.02	-0.52	-1.49e-04	-2.43e-05	0.0
40	22	-5.19	0.07	-0.32	-6.76e-05	-3.89e-03	5.10e-05
40	23	5.18	-0.03	-0.63	-1.62e-04	3.78e-03	-5.08e-05
40	24	2.45e-03	-4.98	-0.36	9.63e-04	-4.59e-05	-1.53e-05
40	25	-1.46e-03	4.90	-0.59	-1.38e-03	2.00e-06	1.53e-05
40	26	-3.83	0.06	-0.33	-7.11e-05	-2.97e-03	4.83e-05
40	27	3.83	-0.03	-0.63	-1.59e-04	2.87e-03	-4.81e-05
40	28	1.09e-03	-1.78	-0.39	6.93e-04	-3.94e-05	-2.68e-06
40	29	1.75e-04	1.83	-0.57	-9.18e-04	-3.77e-06	3.04e-06
40	30	-4.21	0.07	-0.32	-7.01e-05	-4.29e-03	5.67e-05
40	31	4.21	-0.03	-0.63	-1.58e-04	4.16e-03	-5.67e-05
40	32	2.34e-03	-3.49	-0.36	9.86e-04	-4.52e-05	-1.34e-05
40	33	-1.40e-03	3.50	-0.59	-1.36e-03	1.91e-06	1.47e-05
40	34	-4.21	0.07	-0.32	-7.01e-05	-4.29e-03	5.67e-05

40	35	4.21	-0.03	-0.63	-1.58e-04	4.16e-03	-5.67e-05
40	36	1.18e-03	-2.06	-0.38	8.24e-04	-4.10e-05	-3.24e-06
40	37	1.27e-04	2.08	-0.58	-1.04e-03	-2.53e-06	3.38e-06
40	38	5.50e-04	0.02	-0.45	-1.17e-04	-1.99e-05	0.0
40	39	7.32e-04	0.02	-0.48	-1.16e-04	-2.21e-05	0.0
40	40	5.88e-04	0.02	-0.45	-1.24e-04	-2.03e-05	0.0
40	41	7.06e-04	0.02	-0.48	-1.16e-04	-2.18e-05	0.0
40	42	7.44e-04	0.02	-0.48	-1.23e-04	-2.22e-05	0.0
40	43	5.50e-04	0.02	-0.45	-1.17e-04	-1.99e-05	0.0
40	44	7.06e-04	0.02	-0.48	-1.16e-04	-2.18e-05	0.0
40	45	5.50e-04	0.02	-0.45	-1.17e-04	-1.99e-05	0.0
40	46	7.06e-04	0.02	-0.48	-1.16e-04	-2.18e-05	0.0
41	1	9.70e-03	8.48e-03	-0.58	-1.52e-04	1.85e-04	0.0
41	2	9.95e-03	8.61e-03	-0.61	-1.53e-04	1.89e-04	0.0
41	3	0.01	9.80e-03	-0.66	-1.73e-04	1.98e-04	0.0
41	4	0.01	9.94e-03	-0.69	-1.75e-04	2.03e-04	0.0
41	5	7.28e-03	6.18e-03	-0.43	-1.12e-04	1.39e-04	0.0
41	6	7.52e-03	6.31e-03	-0.46	-1.13e-04	1.43e-04	0.0
41	7	8.00e-03	7.51e-03	-0.51	-1.33e-04	1.52e-04	0.0
41	8	8.24e-03	7.64e-03	-0.53	-1.34e-04	1.57e-04	0.0
41	9	0.01	8.74e-03	-0.63	-1.54e-04	1.94e-04	0.0
41	10	0.01	9.41e-03	-0.64	-1.67e-04	1.94e-04	0.0
41	11	0.01	9.67e-03	-0.69	-1.69e-04	2.03e-04	0.0
41	12	7.76e-03	6.44e-03	-0.48	-1.14e-04	1.48e-04	0.0
41	13	7.78e-03	7.11e-03	-0.48	-1.26e-04	1.48e-04	0.0
41	14	8.26e-03	7.37e-03	-0.53	-1.29e-04	1.57e-04	0.0
41	15	7.44e-03	6.48e-03	-0.45	-1.16e-04	1.42e-04	0.0
41	16	7.60e-03	6.56e-03	-0.46	-1.17e-04	1.45e-04	0.0
41	17	7.92e-03	7.36e-03	-0.50	-1.30e-04	1.51e-04	0.0
41	18	8.08e-03	7.45e-03	-0.51	-1.31e-04	1.54e-04	0.0
41	19	7.76e-03	6.65e-03	-0.48	-1.18e-04	1.48e-04	0.0
41	20	7.77e-03	7.09e-03	-0.48	-1.26e-04	1.48e-04	0.0
41	21	8.10e-03	7.27e-03	-0.52	-1.28e-04	1.54e-04	0.0
41	22	-0.13	7.39e-04	-0.26	6.50e-05	-4.19e-04	2.91e-05
41	23	0.14	0.01	-0.70	-3.11e-04	7.28e-04	-2.84e-05
41	24	-0.01	-0.24	-5.22e-03	1.03e-03	-2.67e-04	-1.70e-05
41	25	0.03	0.25	-0.95	-1.29e-03	5.71e-04	1.70e-05
41	26	-0.12	9.80e-04	-0.27	5.55e-05	-3.94e-04	3.06e-05
41	27	0.14	0.01	-0.69	-3.02e-04	7.04e-04	-2.98e-05
41	28	-7.71e-03	-0.17	-0.13	6.77e-04	-1.57e-04	-1.10e-05
41	29	0.02	0.18	-0.82	-8.93e-04	4.50e-04	1.17e-05
41	30	-0.12	-1.20e-04	-0.26	6.85e-05	-4.14e-04	3.16e-05
41	31	0.13	0.01	-0.70	-3.12e-04	7.16e-04	-3.09e-05
41	32	-0.01	-0.21	-0.02	9.89e-04	-2.57e-04	-1.49e-05
41	33	0.03	0.23	-0.95	-1.28e-03	5.66e-04	1.48e-05
41	34	-0.12	-1.20e-04	-0.26	6.85e-05	-4.14e-04	3.16e-05
41	35	0.13	0.01	-0.70	-3.12e-04	7.16e-04	-3.09e-05
41	36	-9.19e-03	-0.17	-0.10	7.46e-04	-1.86e-04	-1.08e-05
41	37	0.02	0.18	-0.84	-9.37e-04	4.72e-04	1.10e-05
41	38	7.44e-03	6.48e-03	-0.45	-1.16e-04	1.42e-04	0.0
41	39	7.77e-03	7.09e-03	-0.48	-1.26e-04	1.48e-04	0.0
41	40	7.51e-03	6.51e-03	-0.45	-1.17e-04	1.43e-04	0.0
41	41	7.73e-03	7.01e-03	-0.48	-1.25e-04	1.47e-04	0.0
41	42	7.79e-03	7.04e-03	-0.48	-1.25e-04	1.48e-04	0.0
41	43	7.44e-03	6.48e-03	-0.45	-1.16e-04	1.42e-04	0.0
41	44	7.73e-03	7.01e-03	-0.48	-1.25e-04	1.47e-04	0.0
41	45	7.44e-03	6.48e-03	-0.45	-1.16e-04	1.42e-04	0.0
41	46	7.73e-03	7.01e-03	-0.48	-1.25e-04	1.47e-04	0.0
42	1	9.61e-04	0.02	-0.60	1.63e-04	-1.98e-04	0.0
42	2	1.04e-03	0.02	-0.62	1.54e-04	-2.05e-04	0.0
42	3	1.21e-03	0.02	-0.68	2.56e-04	-2.21e-04	0.0
42	4	1.29e-03	0.02	-0.70	2.47e-04	-2.29e-04	0.0
42	5	6.75e-04	0.01	-0.44	1.02e-04	-1.46e-04	0.0
42	6	7.52e-04	0.01	-0.46	9.26e-05	-1.54e-04	0.0
42	7	9.25e-04	0.01	-0.52	1.95e-04	-1.70e-04	0.0
42	8	1.00e-03	0.02	-0.54	1.85e-04	-1.77e-04	0.0
42	9	1.11e-03	0.02	-0.65	1.45e-04	-2.13e-04	0.0
42	10	1.14e-03	0.02	-0.65	2.28e-04	-2.14e-04	0.0
42	11	1.29e-03	0.02	-0.70	2.10e-04	-2.29e-04	0.0
42	12	8.29e-04	0.02	-0.49	8.35e-05	-1.61e-04	0.0
42	13	8.50e-04	0.01	-0.49	1.67e-04	-1.63e-04	0.0
42	14	1.00e-03	0.02	-0.54	1.49e-04	-1.77e-04	0.0
42	15	7.30e-04	0.01	-0.46	1.22e-04	-1.51e-04	0.0
42	16	7.82e-04	0.01	-0.47	1.16e-04	-1.56e-04	0.0
42	17	8.97e-04	0.01	-0.51	1.84e-04	-1.67e-04	0.0
42	18	9.48e-04	0.02	-0.53	1.78e-04	-1.72e-04	0.0
42	19	8.33e-04	0.01	-0.49	1.10e-04	-1.61e-04	0.0

42	20	8.47e-04	0.01	-0.49	1.66e-04	-1.62e-04	0.0
42	21	9.50e-04	0.02	-0.53	1.54e-04	-1.72e-04	0.0
42	22	-3.06	0.05	-0.26	1.18e-04	-6.49e-03	4.59e-05
42	23	3.06	-0.02	-0.71	2.02e-04	6.52e-03	-4.57e-05
42	24	4.10e-03	-2.94	-8.55e-03	6.97e-03	-2.10e-04	-3.30e-06
42	25	-2.33e-03	2.90	-0.97	-6.86e-03	-1.06e-04	2.59e-06
42	26	-2.22	0.04	-0.27	1.20e-04	-4.44e-03	4.32e-05
42	27	2.22	-0.02	-0.71	2.00e-04	4.52e-03	-4.32e-05
42	28	4.49e-04	-0.98	-0.14	2.10e-04	-2.02e-04	2.36e-06
42	29	1.17e-03	1.01	-0.83	-2.06e-03	-1.18e-04	-2.54e-06
42	30	-2.13	0.04	-0.26	1.16e-04	-5.13e-03	4.38e-05
42	31	2.13	-0.02	-0.71	2.04e-04	5.11e-03	-4.33e-05
42	32	4.33e-03	-1.85	-0.02	4.68e-03	-2.09e-04	-5.08e-06
42	33	-2.86e-03	1.86	-0.96	-4.74e-03	-1.06e-04	5.06e-06
42	34	-2.13	0.04	-0.26	1.16e-04	-5.13e-03	4.38e-05
42	35	2.13	-0.02	-0.71	2.04e-04	5.11e-03	-4.33e-05
42	36	1.03e-03	-1.05	-0.11	2.39e-03	-2.05e-04	0.0
42	37	6.39e-04	1.06	-0.86	-2.41e-03	-1.16e-04	0.0
42	38	7.30e-04	0.01	-0.46	1.22e-04	-1.51e-04	0.0
42	39	8.47e-04	0.01	-0.49	1.66e-04	-1.62e-04	0.0
42	40	7.51e-04	0.01	-0.46	1.20e-04	-1.53e-04	0.0
42	41	8.30e-04	0.01	-0.49	1.59e-04	-1.61e-04	0.0
42	42	8.51e-04	0.01	-0.49	1.57e-04	-1.63e-04	0.0
42	43	7.30e-04	0.01	-0.46	1.22e-04	-1.51e-04	0.0
42	44	8.30e-04	0.01	-0.49	1.59e-04	-1.61e-04	0.0
42	45	7.30e-04	0.01	-0.46	1.22e-04	-1.51e-04	0.0
42	46	8.30e-04	0.01	-0.49	1.59e-04	-1.61e-04	0.0
43	1	3.99e-04	0.02	-0.60	2.36e-04	-2.23e-04	0.0
43	2	5.07e-04	0.02	-0.63	2.99e-04	-2.32e-04	0.0
43	3	7.19e-04	0.03	-0.68	2.13e-04	-2.49e-04	0.0
43	4	8.27e-04	0.03	-0.71	2.76e-04	-2.58e-04	1.01e-06
43	5	2.25e-04	0.01	-0.45	1.87e-04	-1.65e-04	0.0
43	6	3.33e-04	0.02	-0.47	2.51e-04	-1.74e-04	0.0
43	7	5.45e-04	0.02	-0.52	1.64e-04	-1.91e-04	0.0
43	8	6.53e-04	0.02	-0.55	2.28e-04	-2.00e-04	0.0
43	9	6.15e-04	0.03	-0.66	3.62e-04	-2.42e-04	0.0
43	10	6.23e-04	0.03	-0.66	2.20e-04	-2.41e-04	0.0
43	11	8.39e-04	0.03	-0.71	3.46e-04	-2.60e-04	1.05e-06
43	12	4.41e-04	0.02	-0.50	3.14e-04	-1.84e-04	0.0
43	13	4.49e-04	0.02	-0.50	1.71e-04	-1.83e-04	0.0
43	14	6.65e-04	0.03	-0.55	2.98e-04	-2.02e-04	0.0
43	15	2.96e-04	0.02	-0.46	1.82e-04	-1.71e-04	0.0
43	16	3.68e-04	0.02	-0.48	2.24e-04	-1.77e-04	0.0
43	17	5.10e-04	0.02	-0.51	1.67e-04	-1.88e-04	0.0
43	18	5.81e-04	0.02	-0.53	2.09e-04	-1.94e-04	0.0
43	19	4.40e-04	0.02	-0.50	2.67e-04	-1.83e-04	0.0
43	20	4.46e-04	0.02	-0.50	1.72e-04	-1.83e-04	0.0
43	21	5.89e-04	0.02	-0.53	2.56e-04	-1.95e-04	0.0
43	22	-5.21	0.07	-0.27	2.96e-04	-1.69e-03	4.93e-05
43	23	5.20	-0.03	-0.72	5.34e-05	1.21e-03	-4.84e-05
43	24	8.38e-03	-4.98	-9.46e-03	2.39e-03	-3.41e-04	-8.43e-06
43	25	-7.57e-03	4.90	-0.98	-2.22e-03	-1.20e-05	8.76e-06
43	26	-3.85	0.06	-0.27	2.88e-04	-1.38e-03	4.69e-05
43	27	3.85	-0.03	-0.71	6.01e-05	9.65e-04	-4.59e-05
43	28	1.52e-03	-1.78	-0.14	1.31e-03	-3.01e-04	2.41e-06
43	29	-7.26e-04	1.83	-0.84	-9.10e-04	-5.86e-05	-1.41e-06
43	30	-4.24	0.07	-0.26	2.89e-04	-1.78e-03	5.44e-05
43	31	4.23	-0.03	-0.72	6.17e-05	1.24e-03	-5.37e-05
43	32	7.24e-03	-3.49	-0.02	2.18e-03	-3.38e-04	-5.59e-06
43	33	-7.09e-03	3.50	-0.97	-1.82e-03	-1.17e-05	7.02e-06
43	34	-4.24	0.07	-0.26	2.89e-04	-1.78e-03	5.44e-05
43	35	4.23	-0.03	-0.72	6.17e-05	1.24e-03	-5.37e-05
43	36	1.66e-03	-2.06	-0.11	1.59e-03	-3.13e-04	3.20e-06
43	37	-7.41e-04	2.08	-0.87	-1.14e-03	-4.96e-05	-2.27e-06
43	38	2.96e-04	0.02	-0.46	1.82e-04	-1.71e-04	0.0
43	39	4.46e-04	0.02	-0.50	1.72e-04	-1.83e-04	0.0
43	40	3.25e-04	0.02	-0.47	1.99e-04	-1.73e-04	0.0
43	41	4.24e-04	0.02	-0.49	1.73e-04	-1.81e-04	0.0
43	42	4.53e-04	0.02	-0.50	1.90e-04	-1.83e-04	0.0
43	43	2.96e-04	0.02	-0.46	1.82e-04	-1.71e-04	0.0
43	44	4.24e-04	0.02	-0.49	1.73e-04	-1.81e-04	0.0
43	45	2.96e-04	0.02	-0.46	1.82e-04	-1.71e-04	0.0
43	46	4.24e-04	0.02	-0.49	1.73e-04	-1.81e-04	0.0
44	1	-9.27e-03	-1.33e-03	-0.55	3.38e-05	-1.76e-04	0.0
44	2	-9.45e-03	-8.60e-04	-0.57	2.61e-05	-1.80e-04	0.0
44	3	-9.83e-03	-6.84e-04	-0.61	2.17e-05	-1.87e-04	-1.02e-06
44	4	-0.01	-2.20e-04	-0.63	1.40e-05	-1.90e-04	-1.11e-06

44	5	-6.98e-03	-1.18e-03	-0.40	2.91e-05	-1.33e-04	0.0
44	6	-7.17e-03	-7.19e-04	-0.43	2.14e-05	-1.36e-04	0.0
44	7	-7.55e-03	-5.43e-04	-0.47	1.70e-05	-1.43e-04	0.0
44	8	-7.73e-03	-7.81e-05	-0.49	9.28e-06	-1.47e-04	0.0
44	9	-9.63e-03	-3.96e-04	-0.59	1.83e-05	-1.83e-04	0.0
44	10	-9.66e-03	-8.77e-04	-0.59	2.53e-05	-1.84e-04	0.0
44	11	-0.01	5.29e-05	-0.63	9.87e-06	-1.90e-04	-1.14e-06
44	12	-7.35e-03	-2.54e-04	-0.45	1.36e-05	-1.40e-04	0.0
44	13	-7.38e-03	-7.35e-04	-0.45	2.06e-05	-1.40e-04	0.0
44	14	-7.75e-03	1.94e-04	-0.49	5.17e-06	-1.47e-04	0.0
44	15	-7.11e-03	-1.04e-03	-0.42	2.64e-05	-1.35e-04	0.0
44	16	-7.23e-03	-7.31e-04	-0.43	2.13e-05	-1.38e-04	0.0
44	17	-7.48e-03	-6.14e-04	-0.46	1.84e-05	-1.42e-04	0.0
44	18	-7.61e-03	-3.04e-04	-0.48	1.32e-05	-1.45e-04	0.0
44	19	-7.35e-03	-4.22e-04	-0.45	1.61e-05	-1.40e-04	0.0
44	20	-7.37e-03	-7.42e-04	-0.45	2.08e-05	-1.40e-04	0.0
44	21	-7.62e-03	-1.23e-04	-0.48	1.05e-05	-1.45e-04	0.0
44	22	-0.14	-0.02	-0.68	2.47e-04	-7.55e-04	-2.53e-05
44	23	0.13	0.01	-0.21	-2.03e-04	4.54e-04	2.40e-05
44	24	-0.03	-0.27	-0.98	1.58e-03	-6.07e-04	1.47e-05
44	25	0.02	0.26	0.08	-1.49e-03	3.03e-04	-1.48e-05
44	26	-0.14	-0.01	-0.68	2.36e-04	-7.31e-04	-2.70e-05
44	27	0.12	0.01	-0.22	-1.92e-04	4.28e-04	2.57e-05
44	28	-0.02	-0.19	-0.82	1.02e-03	-4.57e-04	9.26e-06
44	29	8.87e-03	0.19	-0.06	-1.02e-03	1.78e-04	-1.05e-05
44	30	-0.13	-0.01	-0.68	2.49e-04	-7.46e-04	-2.84e-05
44	31	0.12	0.01	-0.21	-2.06e-04	4.49e-04	2.70e-05
44	32	-0.03	-0.24	-0.97	1.54e-03	-5.96e-04	1.28e-05
44	33	0.01	0.24	0.07	-1.45e-03	2.94e-04	-1.29e-05
44	34	-0.13	-0.01	-0.68	2.49e-04	-7.46e-04	-2.84e-05
44	35	0.12	0.01	-0.21	-2.06e-04	4.49e-04	2.70e-05
44	36	-0.03	-0.19	-0.85	1.10e-03	-4.86e-04	9.11e-06
44	37	9.96e-03	0.19	-0.04	-1.08e-03	1.99e-04	-9.92e-06
44	38	-7.11e-03	-1.04e-03	-0.42	2.64e-05	-1.35e-04	0.0
44	39	-7.37e-03	-7.42e-04	-0.45	2.08e-05	-1.40e-04	0.0
44	40	-7.16e-03	-9.17e-04	-0.42	2.44e-05	-1.36e-04	0.0
44	41	-7.33e-03	-7.85e-04	-0.44	2.16e-05	-1.39e-04	0.0
44	42	-7.38e-03	-6.61e-04	-0.45	1.95e-05	-1.40e-04	0.0
44	43	-7.11e-03	-1.04e-03	-0.42	2.64e-05	-1.35e-04	0.0
44	44	-7.33e-03	-7.85e-04	-0.44	2.16e-05	-1.39e-04	0.0
44	45	-7.11e-03	-1.04e-03	-0.42	2.64e-05	-1.35e-04	0.0
44	46	-7.33e-03	-7.85e-04	-0.44	2.16e-05	-1.39e-04	0.0
45	1	1.68e-04	0.01	-0.56	-1.19e-04	1.81e-04	0.0
45	2	2.40e-04	0.02	-0.58	-1.23e-04	1.87e-04	0.0
45	3	3.56e-04	0.02	-0.62	-1.81e-04	2.01e-04	0.0
45	4	4.28e-04	0.02	-0.65	-1.84e-04	2.08e-04	0.0
45	5	8.11e-05	0.01	-0.41	-7.61e-05	1.34e-04	0.0
45	6	1.53e-04	0.01	-0.43	-7.93e-05	1.40e-04	0.0
45	7	2.69e-04	0.01	-0.48	-1.38e-04	1.54e-04	0.0
45	8	3.41e-04	0.02	-0.50	-1.41e-04	1.61e-04	0.0
45	9	3.12e-04	0.02	-0.60	-1.26e-04	1.94e-04	0.0
45	10	3.00e-04	0.02	-0.60	-1.63e-04	1.95e-04	0.0
45	11	4.43e-04	0.02	-0.65	-1.69e-04	2.08e-04	0.0
45	12	2.25e-04	0.01	-0.45	-8.25e-05	1.47e-04	0.0
45	13	2.13e-04	0.01	-0.46	-1.19e-04	1.48e-04	0.0
45	14	3.56e-04	0.02	-0.50	-1.26e-04	1.61e-04	0.0
45	15	1.23e-04	0.01	-0.43	-8.98e-05	1.38e-04	0.0
45	16	1.71e-04	0.01	-0.44	-9.19e-05	1.43e-04	0.0
45	17	2.48e-04	0.01	-0.47	-1.31e-04	1.52e-04	0.0
45	18	2.96e-04	0.02	-0.49	-1.33e-04	1.56e-04	0.0
45	19	2.19e-04	0.01	-0.46	-9.41e-05	1.47e-04	0.0
45	20	2.11e-04	0.01	-0.46	-1.19e-04	1.48e-04	0.0
45	21	3.06e-04	0.02	-0.49	-1.23e-04	1.56e-04	0.0
45	22	-3.01	-0.02	-0.70	-2.10e-05	-6.47e-03	3.23e-05
45	23	3.01	0.05	-0.21	-2.07e-05	6.43e-03	-3.18e-05
45	24	-7.87e-03	-2.92	-1.00	6.87e-03	7.20e-05	-1.66e-05
45	25	7.99e-03	2.89	0.08	-6.76e-03	2.07e-04	1.64e-05
45	26	-2.17	-0.02	-0.69	-2.60e-05	-4.46e-03	3.07e-05
45	27	2.17	0.04	-0.22	-2.02e-04	4.40e-03	-3.03e-05
45	28	-2.70e-03	-0.97	-0.83	1.84e-03	1.04e-04	-6.60e-06
45	29	3.11e-03	1.01	-0.07	-1.93e-03	1.87e-04	6.79e-06
45	30	-2.09	-0.02	-0.70	-1.84e-05	-5.06e-03	3.01e-05
45	31	2.09	0.04	-0.21	-2.10e-04	5.07e-03	-2.92e-05
45	32	-6.54e-03	-1.84	-0.99	4.62e-03	7.54e-05	-1.31e-05
45	33	6.83e-03	1.85	0.07	-4.58e-03	2.06e-04	1.30e-05
45	34	-2.09	-0.02	-0.70	-1.84e-05	-5.06e-03	3.01e-05
45	35	2.09	0.04	-0.21	-2.10e-04	5.07e-03	-2.92e-05

45	36	-2.43e-03	-1.04	-0.87	2.22e-03	1.00e-04	-5.32e-06
45	37	2.76e-03	1.06	-0.04	-2.24e-03	1.88e-04	5.29e-06
45	38	1.23e-04	0.01	-0.43	-8.98e-05	1.38e-04	0.0
45	39	2.11e-04	0.01	-0.46	-1.19e-04	1.48e-04	0.0
45	40	1.42e-04	0.01	-0.43	-9.07e-05	1.40e-04	0.0
45	41	1.98e-04	0.01	-0.45	-1.14e-04	1.46e-04	0.0
45	42	2.17e-04	0.01	-0.46	-1.15e-04	1.48e-04	0.0
45	43	1.23e-04	0.01	-0.43	-8.98e-05	1.38e-04	0.0
45	44	1.98e-04	0.01	-0.45	-1.14e-04	1.46e-04	0.0
45	45	1.23e-04	0.01	-0.43	-8.98e-05	1.38e-04	0.0
45	46	1.98e-04	0.01	-0.45	-1.14e-04	1.46e-04	0.0
46	1	1.12e-03	0.02	-0.56	-1.42e-04	1.99e-04	0.0
46	2	1.25e-03	0.02	-0.59	-1.79e-04	2.07e-04	0.0
46	3	1.53e-03	0.03	-0.63	-1.54e-04	2.21e-04	1.00e-06
46	4	1.66e-03	0.03	-0.65	-1.90e-04	2.29e-04	1.08e-06
46	5	7.57e-04	0.01	-0.42	-1.06e-04	1.47e-04	0.0
46	6	8.91e-04	0.02	-0.44	-1.43e-04	1.55e-04	0.0
46	7	1.17e-03	0.02	-0.48	-1.18e-04	1.69e-04	0.0
46	8	1.30e-03	0.03	-0.50	-1.55e-04	1.77e-04	0.0
46	9	1.39e-03	0.03	-0.61	-2.15e-04	2.15e-04	0.0
46	10	1.41e-03	0.03	-0.61	-1.50e-04	2.14e-04	0.0
46	11	1.68e-03	0.03	-0.65	-2.23e-04	2.30e-04	1.10e-06
46	12	1.03e-03	0.02	-0.46	-1.79e-04	1.63e-04	0.0
46	13	1.04e-03	0.02	-0.46	-1.14e-04	1.63e-04	0.0
46	14	1.31e-03	0.03	-0.51	-1.88e-04	1.78e-04	0.0
46	15	8.48e-04	0.02	-0.43	-1.09e-04	1.52e-04	0.0
46	16	9.37e-04	0.02	-0.45	-1.33e-04	1.57e-04	0.0
46	17	1.12e-03	0.02	-0.48	-1.17e-04	1.67e-04	0.0
46	18	1.21e-03	0.02	-0.49	-1.41e-04	1.72e-04	0.0
46	19	1.03e-03	0.02	-0.46	-1.58e-04	1.63e-04	0.0
46	20	1.04e-03	0.02	-0.46	-1.14e-04	1.62e-04	0.0
46	21	1.22e-03	0.02	-0.49	-1.63e-04	1.73e-04	0.0
46	22	-5.14	-0.03	-0.70	6.31e-05	-1.31e-03	6.87e-05
46	23	5.14	0.07	-0.21	-2.90e-04	1.71e-03	-6.76e-05
46	24	-0.01	-4.95	-1.01	2.33e-03	-3.16e-05	-2.51e-05
46	25	0.01	4.87	0.08	-2.37e-03	3.31e-04	2.49e-05
46	26	-3.79	-0.03	-0.69	5.32e-05	-1.03e-03	6.48e-05
46	27	3.79	0.07	-0.22	-2.79e-04	1.40e-03	-6.37e-05
46	28	-2.64e-03	-1.77	-0.84	1.14e-03	3.80e-05	-9.39e-06
46	29	4.66e-03	1.83	-0.07	-1.42e-03	2.81e-04	1.05e-05
46	30	-4.16	-0.04	-0.70	7.21e-05	-1.34e-03	7.35e-05
46	31	4.16	0.07	-0.21	-3.00e-04	1.81e-03	-7.26e-05
46	32	-9.94e-03	-3.46	-1.00	1.99e-03	-2.61e-05	-2.46e-05
46	33	0.01	3.47	0.07	-2.21e-03	3.29e-04	2.62e-05
46	34	-4.16	-0.04	-0.70	7.21e-05	-1.34e-03	7.35e-05
46	35	4.16	0.07	-0.21	-3.00e-04	1.81e-03	-7.26e-05
46	36	-3.60e-03	-2.05	-0.88	1.37e-03	2.56e-05	-1.20e-05
46	37	5.47e-03	2.07	-0.04	-1.64e-03	2.89e-04	1.26e-05
46	38	8.48e-04	0.02	-0.43	-1.09e-04	1.52e-04	0.0
46	39	1.04e-03	0.02	-0.46	-1.14e-04	1.62e-04	0.0
46	40	8.84e-04	0.02	-0.44	-1.19e-04	1.54e-04	0.0
46	41	1.01e-03	0.02	-0.46	-1.14e-04	1.61e-04	0.0
46	42	1.05e-03	0.02	-0.46	-1.23e-04	1.63e-04	0.0
46	43	8.48e-04	0.02	-0.43	-1.09e-04	1.52e-04	0.0
46	44	1.01e-03	0.02	-0.46	-1.14e-04	1.61e-04	0.0
46	45	8.48e-04	0.02	-0.43	-1.09e-04	1.52e-04	0.0
46	46	1.01e-03	0.02	-0.46	-1.14e-04	1.61e-04	0.0
47	1	-7.45e-03	1.62e-03	-0.55	-2.21e-05	-1.43e-04	0.0
47	2	-7.48e-03	2.08e-03	-0.57	-2.96e-05	-1.44e-04	0.0
47	3	-7.57e-03	2.66e-03	-0.62	-4.07e-05	-1.45e-04	0.0
47	4	-7.60e-03	3.11e-03	-0.64	-4.82e-05	-1.46e-04	0.0
47	5	-5.70e-03	9.84e-04	-0.40	-1.22e-05	-1.10e-04	0.0
47	6	-5.74e-03	1.44e-03	-0.43	-1.97e-05	-1.10e-04	0.0
47	7	-5.82e-03	2.02e-03	-0.47	-3.09e-05	-1.12e-04	0.0
47	8	-5.85e-03	2.47e-03	-0.50	-3.83e-05	-1.12e-04	0.0
47	9	-7.51e-03	2.53e-03	-0.59	-3.71e-05	-1.44e-04	0.0
47	10	-7.53e-03	2.35e-03	-0.60	-3.52e-05	-1.45e-04	0.0
47	11	-7.59e-03	3.26e-03	-0.64	-5.01e-05	-1.46e-04	0.0
47	12	-5.77e-03	1.89e-03	-0.45	-2.72e-05	-1.11e-04	0.0
47	13	-5.78e-03	1.71e-03	-0.45	-2.53e-05	-1.11e-04	0.0
47	14	-5.84e-03	2.62e-03	-0.50	-4.02e-05	-1.12e-04	0.0
47	15	-5.73e-03	1.21e-03	-0.42	-1.64e-05	-1.10e-04	0.0
47	16	-5.75e-03	1.52e-03	-0.43	-2.13e-05	-1.10e-04	0.0
47	17	-5.80e-03	1.90e-03	-0.46	-2.88e-05	-1.11e-04	0.0
47	18	-5.82e-03	2.21e-03	-0.48	-3.38e-05	-1.12e-04	0.0
47	19	-5.77e-03	1.82e-03	-0.45	-2.63e-05	-1.11e-04	0.0
47	20	-5.78e-03	1.70e-03	-0.45	-2.51e-05	-1.11e-04	0.0

		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
47	21	-5.82e-03	2.30e-03	-0.48	-3.50e-05	-1.12e-04	0.0
47	22	-0.13	-8.13e-03	-0.62	1.12e-04	-6.47e-04	-2.18e-05
47	23	0.11	0.01	-0.27	-1.58e-04	4.01e-04	2.13e-05
47	24	-0.01	-0.24	-0.58	9.99e-04	-2.57e-04	6.28e-06
47	25	2.62e-03	0.24	-0.31	-1.02e-03	4.78e-05	-6.34e-06
47	26	-0.12	-7.54e-03	-0.61	1.05e-04	-6.32e-04	-2.30e-05
47	27	0.11	0.01	-0.28	-1.51e-04	3.85e-04	2.25e-05
47	28	-0.01	-0.17	-0.55	7.15e-04	-2.24e-04	4.13e-06
47	29	2.44e-04	0.17	-0.35	-7.75e-04	4.05e-06	-4.65e-06
47	30	-0.12	-7.49e-03	-0.62	1.13e-04	-6.37e-04	-2.37e-05
47	31	0.10	0.01	-0.28	-1.60e-04	3.95e-04	2.32e-05
47	32	-0.01	-0.21	-0.57	9.84e-04	-2.55e-04	5.53e-06
47	33	2.54e-03	0.21	-0.31	-1.00e-03	4.67e-05	-5.53e-06
47	34	-0.12	-7.49e-03	-0.62	1.13e-04	-6.37e-04	-2.37e-05
47	35	0.10	0.01	-0.28	-1.60e-04	3.95e-04	2.32e-05
47	36	-0.01	-0.17	-0.56	7.82e-04	-2.36e-04	4.08e-06
47	37	7.48e-04	0.17	-0.34	-8.29e-04	1.38e-05	-4.42e-06
47	38	-5.73e-03	1.21e-03	-0.42	-1.64e-05	-1.10e-04	0.0
47	39	-5.78e-03	1.70e-03	-0.45	-2.51e-05	-1.11e-04	0.0
47	40	-5.74e-03	1.33e-03	-0.42	-1.84e-05	-1.10e-04	0.0
47	41	-5.77e-03	1.63e-03	-0.45	-2.38e-05	-1.11e-04	0.0
47	42	-5.78e-03	1.75e-03	-0.45	-2.58e-05	-1.11e-04	0.0
47	43	-5.73e-03	1.21e-03	-0.42	-1.64e-05	-1.10e-04	0.0
47	44	-5.77e-03	1.63e-03	-0.45	-2.38e-05	-1.11e-04	0.0
47	45	-5.73e-03	1.21e-03	-0.42	-1.64e-05	-1.10e-04	0.0
47	46	-5.77e-03	1.63e-03	-0.45	-2.38e-05	-1.11e-04	0.0
48	1	1.35e-04	0.01	-0.56	0.0	6.88e-05	0.0
48	2	2.14e-04	0.02	-0.59	-7.77e-06	6.97e-05	0.0
48	3	2.93e-04	0.02	-0.63	-1.34e-06	7.19e-05	0.0
48	4	3.72e-04	0.02	-0.66	-8.93e-06	7.28e-05	0.0
48	5	6.31e-05	0.01	-0.41	0.0	5.21e-05	0.0
48	6	1.42e-04	0.01	-0.44	-7.43e-06	5.31e-05	0.0
48	7	2.22e-04	0.01	-0.49	-1.00e-06	5.52e-05	0.0
48	8	3.01e-04	0.02	-0.51	-8.59e-06	5.61e-05	0.0
48	9	2.93e-04	0.02	-0.61	-1.54e-05	7.06e-05	0.0
48	10	2.46e-04	0.02	-0.61	0.0	7.10e-05	0.0
48	11	4.04e-04	0.02	-0.66	-1.62e-05	7.28e-05	0.0
48	12	2.21e-04	0.01	-0.46	-1.50e-05	5.40e-05	0.0
48	13	1.74e-04	0.01	-0.46	0.0	5.43e-05	0.0
48	14	3.32e-04	0.02	-0.51	-1.58e-05	5.61e-05	0.0
48	15	9.83e-05	0.01	-0.43	0.0	5.28e-05	0.0
48	16	1.51e-04	0.01	-0.45	-5.16e-06	5.34e-05	0.0
48	17	2.04e-04	0.01	-0.48	0.0	5.49e-05	0.0
48	18	2.57e-04	0.02	-0.49	-5.93e-06	5.55e-05	0.0
48	19	2.04e-04	0.01	-0.46	-1.02e-05	5.40e-05	0.0
48	20	1.72e-04	0.01	-0.46	0.0	5.43e-05	0.0
48	21	2.78e-04	0.02	-0.50	-1.08e-05	5.55e-05	0.0
48	22	-3.02	-0.02	-0.63	1.10e-04	-8.00e-03	3.45e-05
48	23	3.02	0.05	-0.29	-1.10e-04	7.98e-03	-3.45e-05
48	24	-2.84e-03	-2.92	-0.59	6.08e-03	8.58e-05	-1.31e-05
48	25	3.11e-03	2.89	-0.32	-5.99e-03	1.65e-05	1.26e-05
48	26	-2.18	-0.02	-0.63	1.05e-04	-6.07e-03	3.29e-05
48	27	2.18	0.04	-0.29	-1.04e-04	6.05e-03	-3.30e-05
48	28	-8.71e-04	-0.97	-0.56	1.47e-03	8.32e-05	-4.30e-06
48	29	1.29e-03	1.01	-0.36	-1.44e-03	2.44e-05	4.09e-06
48	30	-2.10	-0.02	-0.63	1.13e-04	-6.61e-03	3.16e-05
48	31	2.10	0.04	-0.29	-1.13e-04	6.60e-03	-3.11e-05
48	32	-2.34e-03	-1.84	-0.59	3.86e-03	8.60e-05	-1.14e-05
48	33	2.75e-03	1.85	-0.32	-3.86e-03	1.65e-05	1.11e-05
48	34	-2.10	-0.02	-0.63	1.13e-04	-6.61e-03	3.16e-05
48	35	2.10	0.04	-0.29	-1.13e-04	6.60e-03	-3.11e-05
48	36	-8.03e-04	-1.04	-0.57	1.76e-03	8.60e-05	-4.21e-06
48	37	1.22e-03	1.06	-0.35	-1.69e-03	2.17e-05	3.81e-06
48	38	9.83e-05	0.01	-0.43	0.0	5.28e-05	0.0
48	39	1.72e-04	0.01	-0.46	0.0	5.43e-05	0.0
48	40	1.19e-04	0.01	-0.44	-2.12e-06	5.31e-05	0.0
48	41	1.62e-04	0.01	-0.46	0.0	5.40e-05	0.0
48	42	1.83e-04	0.01	-0.47	-2.59e-06	5.43e-05	0.0
48	43	9.83e-05	0.01	-0.43	0.0	5.28e-05	0.0
48	44	1.62e-04	0.01	-0.46	0.0	5.40e-05	0.0
48	45	9.83e-05	0.01	-0.43	0.0	5.28e-05	0.0
48	46	1.62e-04	0.01	-0.46	0.0	5.40e-05	0.0

Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-5.21	-4.98	-1.01	-6.96e-03	-8.08e-03	-7.66e-05
		5.20	4.90	0.08	7.03e-03	8.08e-03	7.68e-05

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
Nodo		**Azione X**	**Azione Y**	**Azione Z**	**Azione RX**	**Azione RY**	**Azione RZ**
Nodo	**Cmb**	**Azione X** daN	**Azione Y** daN	**Azione Z** daN	**Azione RX** daN cm	**Azione RY** daN cm	**Azione RZ** daN cm

RISULTATI OPERE DI FONDAZIONE
LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.
Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.
In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione:
	3) palo singolo (*PALO*)
	4) plinto su palo
	5) plinto su due pali (*PL.2P*)
	6) plinto su tre pali (*PL.3P*)
	7) plinto su quattro pali (*PL.4P*)
	8) plinto rettangolare su cinque pali (*PL.5P.R*)
	9) plinto pentagonale su cinque pali (*PL.5P*)
	10) plinto su sei pali (*PL.6P*)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione Fz (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.
In particolare viene riportato:

Nodo		numero del nodo a cui è applicato il plinto
Tipo		Codice identificativo del nome assegnato al plinto
area		area dell'impronta del plinto
Wink O	Wink V	coefficienti di Winkler (orizzontale e verticale) adottati
Comb		Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)		valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.
Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
105	PLINTO SUPERFICIALE
106	PLINTO SUPERFICIALE
107	PLINTO SUPERFICIALE
108	PLINTO SUPERFICIALE
109	PLINTO SUPERFICIALE
110	PLINTO SUPERFICIALE
111	PLINTO SUPERFICIALE
112	PLINTO SUPERFICIALE
113	PLINTO SUPERFICIALE
114	PLINTO SUPERFICIALE
115	PLINTO SUPERFICIALE
116	PLINTO SUPERFICIALE
117	PLINTO SUPERFICIALE
118	PLINTO SUPERFICIALE
119	PLINTO SUPERFICIALE
120	PLINTO SUPERFICIALE
121	PLINTO SUPERFICIALE
122	PLINTO SUPERFICIALE
123	PLINTO SUPERFICIALE
124	FONDAZIONE NASTRIFORME
125	CALCOLO DEI K DI WINKLER

Elem.	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2
1	1	-0.62	-0.59	-0.62	2	-0.65	-0.62	-0.65	3	-0.71	-0.67	-0.71
	4	-0.74	-0.69	-0.74	5	-0.45	-0.44	-0.45	6	-0.48	-0.46	-0.48
	7	-0.55	-0.51	-0.55	8	-0.58	-0.54	-0.58	9	-0.68	-0.64	-0.68
	10	-0.69	-0.65	-0.69	11	-0.74	-0.69	-0.74	12	-0.51	-0.48	-0.51
	13	-0.52	-0.49	-0.52	14	-0.58	-0.54	-0.58	15	-0.47	-0.45	-0.47
	16	-0.49	-0.47	-0.49	17	-0.54	-0.50	-0.54	18	-0.56	-0.52	-0.56
	19	-0.51	-0.49	-0.51	20	-0.52	-0.49	-0.52	21	-0.56	-0.52	-0.56
	22	-0.47	-0.26	-0.47	23	-0.55	-0.71	-0.71	24	-0.19	-0.05	-0.19

G																
	25	-0.90	-1.01	-1.01	26	-0.47	-0.27	-0.47	27	-0.55	-0.70	-0.70				
	28	-0.28	-0.16	-0.28	29	-0.79	-0.86	-0.86	30	-0.47	-0.26	-0.47				
	31	-0.55	-0.71	-0.71	32	-0.20	-0.06	-0.20	33	-0.90	-1.00	-1.00				
	34	-0.47	-0.26	-0.47	35	-0.55	-0.71	-0.71	36	-0.25	-0.13	-0.25				
	37	-0.81	-0.88	-0.88	38	-0.47	-0.45	-0.47	39	-0.52	-0.49	-0.52				
	40	-0.48	-0.46	-0.48	41	-0.51	-0.48	-0.51	42	-0.52	-0.49	-0.52				
	43	-0.47	-0.45	-0.47	44	-0.51	-0.48	-0.51	45	-0.47	-0.45	-0.47				
	46	-0.51	-0.48	-0.51												
2	1	-0.59	-0.62	-0.62	2	-0.62	-0.65	-0.65	3	-0.67	-0.71	-0.71				
	4	-0.69	-0.74	-0.74	5	-0.43	-0.45	-0.45	6	-0.46	-0.48	-0.48				
	7	-0.51	-0.55	-0.55	8	-0.54	-0.58	-0.58	9	-0.64	-0.68	-0.68				
	10	-0.64	-0.68	-0.68	11	-0.69	-0.74	-0.74	12	-0.48	-0.51	-0.51				
	13	-0.49	-0.52	-0.52	14	-0.54	-0.58	-0.58	15	-0.45	-0.47	-0.47				
	16	-0.47	-0.49	-0.49	17	-0.50	-0.54	-0.54	18	-0.52	-0.56	-0.56				
	19	-0.48	-0.51	-0.51	20	-0.49	-0.52	-0.52	21	-0.52	-0.56	-0.56				
	22	-0.71	-0.55	-0.71	23	-0.26	-0.47	-0.47	24	-0.05	-0.19	-0.19				
	25	-1.01	-0.90	-1.01	26	-0.70	-0.55	-0.70	27	-0.27	-0.47	-0.47				
	28	-0.16	-0.27	-0.27	29	-0.85	-0.79	-0.85	30	-0.71	-0.55	-0.71				
	31	-0.26	-0.47	-0.47	32	-0.06	-0.20	-0.20	33	-1.01	-0.90	-1.01				
	34	-0.71	-0.55	-0.71	35	-0.26	-0.47	-0.47	36	-0.13	-0.25	-0.25				
	37	-0.88	-0.81	-0.88	38	-0.45	-0.47	-0.47	39	-0.49	-0.52	-0.52				
	40	-0.46	-0.48	-0.48	41	-0.48	-0.51	-0.51	42	-0.49	-0.52	-0.52				
	43	-0.45	-0.47	-0.47	44	-0.48	-0.51	-0.51	45	-0.45	-0.47	-0.47				
	46	-0.48	-0.51	-0.51												
3	1	-0.60	-0.55	-0.60	2	-0.64	-0.58	-0.64	3	-0.70	-0.63	-0.70				
	4	-0.74	-0.65	-0.74	5	-0.44	-0.41	-0.44	6	-0.47	-0.43	-0.47				
	7	-0.54	-0.48	-0.54	8	-0.57	-0.51	-0.57	9	-0.67	-0.61	-0.67				
	10	-0.67	-0.61	-0.67	11	-0.74	-0.66	-0.74	12	-0.51	-0.46	-0.51				
	13	-0.51	-0.46	-0.51	14	-0.58	-0.51	-0.58	15	-0.46	-0.42	-0.46				
	16	-0.48	-0.44	-0.48	17	-0.53	-0.47	-0.53	18	-0.55	-0.49	-0.55				
	19	-0.51	-0.46	-0.51	20	-0.51	-0.46	-0.51	21	-0.55	-0.49	-0.55				
	22	-0.48	-0.30	-0.48	23	-0.52	-0.61	-0.61	24	-0.44	-0.37	-0.44				
	25	-0.62	-0.60	-0.62	26	-0.48	-0.31	-0.48	27	-0.52	-0.61	-0.61				
	28	-0.45	-0.39	-0.45	29	-0.59	-0.57	-0.59	30	-0.48	-0.30	-0.48				
	31	-0.52	-0.61	-0.61	32	-0.44	-0.37	-0.44	33	-0.62	-0.60	-0.62				
	34	-0.48	-0.30	-0.48	35	-0.52	-0.61	-0.61	36	-0.45	-0.39	-0.45				
	37	-0.60	-0.58	-0.60	38	-0.46	-0.42	-0.46	39	-0.51	-0.46	-0.51				
	40	-0.47	-0.43	-0.47	41	-0.50	-0.45	-0.50	42	-0.51	-0.46	-0.51				
	43	-0.46	-0.42	-0.46	44	-0.50	-0.45	-0.50	45	-0.46	-0.42	-0.46				
	46	-0.50	-0.45	-0.50												
4	1	-0.57	-0.57	-0.58	2	-0.59	-0.59	-0.60	3	-0.65	-0.65	-0.66				
	4	-0.67	-0.68	-0.69	5	-0.41	-0.42	-0.42	6	-0.44	-0.44	-0.45				
	7	-0.50	-0.50	-0.51	8	-0.52	-0.52	-0.53	9	-0.62	-0.62	-0.63				
	10	-0.62	-0.62	-0.63	11	-0.68	-0.68	-0.69	12	-0.47	-0.47	-0.48				
	13	-0.47	-0.47	-0.48	14	-0.53	-0.53	-0.53	15	-0.43	-0.43	-0.44				
	16	-0.45	-0.45	-0.46	17	-0.49	-0.49	-0.50	18	-0.51	-0.51	-0.51				
	19	-0.47	-0.47	-0.48	20	-0.47	-0.47	-0.48	21	-0.51	-0.51	-0.52				
	22	-0.51	-0.43	-0.51	23	-0.43	-0.51	-0.51	24	-0.92	-0.92	-0.93				
	25	-0.12	-0.12	-0.13	26	-0.51	-0.43	-0.51	27	-0.43	-0.51	-0.51				
	28	-0.79	-0.79	-0.80	29	-0.21	-0.21	-0.22	30	-0.51	-0.43	-0.51				
	31	-0.43	-0.51	-0.51	32	-0.91	-0.91	-0.92	33	-0.13	-0.13	-0.13				
	34	-0.51	-0.43	-0.51	35	-0.43	-0.51	-0.51	36	-0.82	-0.82	-0.83				
	37	-0.19	-0.19	-0.20	38	-0.43	-0.43	-0.44	39	-0.47	-0.47	-0.48				
	40	-0.44	-0.44	-0.45	41	-0.47	-0.47	-0.47	42	-0.47	-0.47	-0.48				
	43	-0.43	-0.43	-0.44	44	-0.47	-0.47	-0.47	45	-0.43	-0.43	-0.44				
	46	-0.47	-0.47	-0.47												
5	1	-0.59	-0.55	-0.59	2	-0.62	-0.57	-0.62	3	-0.69	-0.62	-0.69				
	4	-0.72	-0.64	-0.72	5	-0.43	-0.40	-0.43	6	-0.46	-0.43	-0.46				
	7	-0.53	-0.48	-0.53	8	-0.56	-0.50	-0.56	9	-0.65	-0.60	-0.65				
	10	-0.66	-0.60	-0.66	11	-0.72	-0.65	-0.72	12	-0.49	-0.45	-0.49				
	13	-0.50	-0.45	-0.50	14	-0.56	-0.50	-0.56	15	-0.45	-0.42	-0.45				
	16	-0.47	-0.44	-0.47	17	-0.51	-0.47	-0.51	18	-0.54	-0.48	-0.54				
	19	-0.49	-0.45	-0.49	20	-0.50	-0.45	-0.50	21	-0.54	-0.49	-0.54				
	22	-0.47	-0.28	-0.47	23	-0.51	-0.62	-0.62	24	-0.60	-0.62	-0.62				
	25	-0.44	-0.36	-0.44	26	-0.47	-0.29	-0.47	27	-0.51	-0.62	-0.62				
	28	-0.58	-0.58	-0.58	29	-0.45	-0.38	-0.45	30	-0.47	-0.28	-0.47				
	31	-0.51	-0.62	-0.62	32	-0.60	-0.62	-0.62	33	-0.44	-0.36	-0.44				
	34	-0.47	-0.28	-0.47	35	-0.51	-0.62	-0.62	36	-0.59	-0.60	-0.60				
	37	-0.45	-0.38	-0.45	38	-0.45	-0.42	-0.45	39	-0.50	-0.45	-0.50				
	40	-0.46	-0.43	-0.46	41	-0.49	-0.45	-0.49	42	-0.50	-0.45	-0.50				
	43	-0.45	-0.42	-0.45	44	-0.49	-0.45	-0.49	45	-0.45	-0.42	-0.45				
	46	-0.49	-0.45	-0.49												
6	1	-0.59	-0.59	-0.60	2	-0.62	-0.62	-0.63	3	-0.68	-0.69	-0.70				
	4	-0.72	-0.72	-0.73	5	-0.43	-0.43	-0.44	6	-0.46	-0.46	-0.47				
	7	-0.52	-0.53	-0.53	8	-0.56	-0.56	-0.57	9	-0.65	-0.65	-0.67				
	10	-0.66	-0.66	-0.67	11	-0.72	-0.72	-0.74	12	-0.49	-0.49	-0.50				
	13	-0.50	-0.50	-0.51	14	-0.56	-0.56	-0.57	15	-0.45	-0.45	-0.46				

	#				#				#			
	16	-0.47	-0.47	-0.48	17	-0.51	-0.51	-0.52	18	-0.54	-0.54	-0.55
	19	-0.49	-0.49	-0.50	20	-0.49	-0.50	-0.50	21	-0.54	-0.54	-0.55
	22	-0.51	-0.47	-0.51	23	-0.47	-0.51	-0.51	24	-0.60	-0.60	-0.61
	25	-0.44	-0.44	-0.45	26	-0.51	-0.47	-0.51	27	-0.47	-0.51	-0.51
	28	-0.58	-0.58	-0.59	29	-0.45	-0.45	-0.46	30	-0.51	-0.47	-0.51
	31	-0.47	-0.51	-0.51	32	-0.60	-0.60	-0.61	33	-0.44	-0.44	-0.45
	34	-0.51	-0.47	-0.51	35	-0.47	-0.51	-0.51	36	-0.59	-0.59	-0.60
	37	-0.45	-0.45	-0.46	38	-0.45	-0.45	-0.46	39	-0.49	-0.50	-0.50
	40	-0.46	-0.46	-0.47	41	-0.49	-0.49	-0.50	42	-0.50	-0.50	-0.51
	43	-0.45	-0.45	-0.46	44	-0.49	-0.49	-0.50	45	-0.45	-0.45	-0.46
	46	-0.49	-0.49	-0.50								
7	1	-0.60	-0.60	-0.61	2	-0.64	-0.64	-0.65	3	-0.70	-0.70	-0.72
	4	-0.74	-0.74	-0.75	5	-0.44	-0.44	-0.45	6	-0.47	-0.47	-0.48
	7	-0.54	-0.54	-0.55	8	-0.57	-0.57	-0.58	9	-0.67	-0.67	-0.68
	10	-0.67	-0.67	-0.69	11	-0.74	-0.74	-0.76	12	-0.51	-0.51	-0.52
	13	-0.51	-0.51	-0.52	14	-0.58	-0.58	-0.59	15	-0.46	-0.46	-0.47
	16	-0.48	-0.48	-0.49	17	-0.53	-0.53	-0.54	18	-0.55	-0.55	-0.56
	19	-0.50	-0.51	-0.52	20	-0.51	-0.51	-0.52	21	-0.55	-0.55	-0.56
	22	-0.52	-0.48	-0.52	23	-0.48	-0.52	-0.52	24	-0.44	-0.44	-0.45
	25	-0.62	-0.62	-0.63	26	-0.52	-0.48	-0.52	27	-0.48	-0.52	-0.52
	28	-0.45	-0.45	-0.46	29	-0.59	-0.59	-0.60	30	-0.52	-0.48	-0.52
	31	-0.48	-0.52	-0.52	32	-0.44	-0.44	-0.44	33	-0.62	-0.62	-0.63
	34	-0.52	-0.48	-0.52	35	-0.48	-0.52	-0.52	36	-0.44	-0.45	-0.45
	37	-0.60	-0.60	-0.61	38	-0.46	-0.46	-0.47	39	-0.51	-0.51	-0.52
	40	-0.47	-0.47	-0.48	41	-0.50	-0.50	-0.51	42	-0.51	-0.51	-0.52
	43	-0.46	-0.46	-0.47	44	-0.50	-0.50	-0.51	45	-0.46	-0.46	-0.47
	46	-0.50	-0.50	-0.51								
8	1	-0.55	-0.59	-0.59	2	-0.57	-0.62	-0.62	3	-0.62	-0.68	-0.68
	4	-0.64	-0.72	-0.72	5	-0.40	-0.43	-0.43	6	-0.43	-0.46	-0.46
	7	-0.47	-0.52	-0.52	8	-0.50	-0.56	-0.56	9	-0.60	-0.65	-0.65
	10	-0.60	-0.66	-0.66	11	-0.65	-0.72	-0.72	12	-0.45	-0.49	-0.49
	13	-0.45	-0.50	-0.50	14	-0.50	-0.56	-0.56	15	-0.42	-0.45	-0.45
	16	-0.43	-0.47	-0.47	17	-0.47	-0.51	-0.51	18	-0.48	-0.54	-0.54
	19	-0.45	-0.49	-0.49	20	-0.45	-0.49	-0.49	21	-0.48	-0.54	-0.54
	22	-0.62	-0.51	-0.62	23	-0.28	-0.47	-0.47	24	-0.62	-0.60	-0.62
	25	-0.36	-0.44	-0.44	26	-0.62	-0.51	-0.62	27	-0.29	-0.47	-0.47
	28	-0.58	-0.58	-0.58	29	-0.38	-0.45	-0.45	30	-0.62	-0.51	-0.62
	31	-0.28	-0.47	-0.47	32	-0.62	-0.60	-0.62	33	-0.36	-0.44	-0.44
	34	-0.62	-0.51	-0.62	35	-0.28	-0.47	-0.47	36	-0.60	-0.59	-0.60
	37	-0.37	-0.45	-0.45	38	-0.42	-0.45	-0.45	39	-0.45	-0.49	-0.49
	40	-0.42	-0.46	-0.46	41	-0.45	-0.49	-0.49	42	-0.45	-0.50	-0.50
	43	-0.42	-0.45	-0.45	44	-0.45	-0.49	-0.49	45	-0.42	-0.45	-0.45
	46	-0.45	-0.49	-0.49								
9	1	-0.55	-0.60	-0.60	2	-0.58	-0.64	-0.64	3	-0.63	-0.70	-0.70
	4	-0.65	-0.74	-0.74	5	-0.41	-0.44	-0.44	6	-0.43	-0.47	-0.47
	7	-0.48	-0.54	-0.54	8	-0.51	-0.57	-0.57	9	-0.60	-0.67	-0.67
	10	-0.61	-0.67	-0.67	11	-0.66	-0.74	-0.74	12	-0.46	-0.51	-0.51
	13	-0.46	-0.51	-0.51	14	-0.51	-0.58	-0.58	15	-0.42	-0.46	-0.46
	16	-0.44	-0.48	-0.48	17	-0.47	-0.53	-0.53	18	-0.49	-0.55	-0.55
	19	-0.46	-0.50	-0.50	20	-0.46	-0.51	-0.51	21	-0.49	-0.55	-0.55
	22	-0.61	-0.52	-0.61	23	-0.30	-0.48	-0.48	24	-0.37	-0.44	-0.44
	25	-0.60	-0.62	-0.62	26	-0.61	-0.52	-0.61	27	-0.30	-0.48	-0.48
	28	-0.39	-0.45	-0.45	29	-0.57	-0.59	-0.59	30	-0.61	-0.52	-0.61
	31	-0.30	-0.48	-0.48	32	-0.37	-0.44	-0.44	33	-0.60	-0.62	-0.62
	34	-0.61	-0.52	-0.61	35	-0.30	-0.48	-0.48	36	-0.39	-0.44	-0.44
	37	-0.58	-0.60	-0.60	38	-0.42	-0.46	-0.46	39	-0.46	-0.51	-0.51
	40	-0.43	-0.47	-0.47	41	-0.45	-0.50	-0.50	42	-0.46	-0.51	-0.51
	43	-0.42	-0.46	-0.46	44	-0.45	-0.50	-0.50	45	-0.42	-0.46	-0.46
	46	-0.45	-0.50	-0.50								
60	1	-0.56	-0.59	-0.59	2	-0.58	-0.62	-0.62	3	-0.63	-0.67	-0.67
	4	-0.66	-0.69	-0.69	5	-0.41	-0.44	-0.44	6	-0.44	-0.46	-0.46
	7	-0.49	-0.51	-0.51	8	-0.51	-0.54	-0.54	9	-0.61	-0.64	-0.64
	10	-0.61	-0.64	-0.64	11	-0.66	-0.69	-0.69	12	-0.46	-0.49	-0.49
	13	-0.46	-0.49	-0.49	14	-0.51	-0.54	-0.54	15	-0.43	-0.45	-0.45
	16	-0.44	-0.47	-0.47	17	-0.48	-0.50	-0.50	18	-0.49	-0.52	-0.52
	19	-0.46	-0.49	-0.49	20	-0.46	-0.49	-0.49	21	-0.50	-0.52	-0.52
	22	-0.64	-0.73	-0.73	23	-0.32	-0.27	-0.32	24	-0.33	-0.01	-0.33
	25	-0.58	-0.98	-0.98	26	-0.63	-0.72	-0.72	27	-0.32	-0.28	-0.32
	28	-0.37	-0.14	-0.37	29	-0.55	-0.83	-0.83	30	-0.63	-0.73	-0.73
	31	-0.32	-0.27	-0.32	32	-0.33	-0.02	-0.33	33	-0.57	-0.97	-0.97
	34	-0.63	-0.73	-0.73	35	-0.32	-0.27	-0.32	36	-0.36	-0.11	-0.36
	37	-0.56	-0.86	-0.86	38	-0.43	-0.45	-0.45	39	-0.46	-0.49	-0.49
	40	-0.43	-0.46	-0.46	41	-0.46	-0.48	-0.48	42	-0.46	-0.49	-0.49
	43	-0.43	-0.45	-0.45	44	-0.46	-0.48	-0.48	45	-0.43	-0.45	-0.45
	46	-0.46	-0.48	-0.48								
61	1	-0.55	-0.56	-0.56	2	-0.58	-0.58	-0.58	3	-0.62	-0.63	-0.63
	4	-0.65	-0.66	-0.66	5	-0.41	-0.41	-0.41	6	-0.43	-0.44	-0.44

	7	-0.48	-0.49	-0.49	8	-0.50	-0.51	-0.51	9	-0.60	-0.61	-0.61
	10	-0.60	-0.61	-0.61	11	-0.65	-0.66	-0.66	12	-0.45	-0.46	-0.46
	13	-0.46	-0.46	-0.46	14	-0.50	-0.51	-0.51	15	-0.42	-0.43	-0.43
	16	-0.44	-0.44	-0.44	17	-0.47	-0.48	-0.48	18	-0.49	-0.49	-0.49
	19	-0.45	-0.46	-0.46	20	-0.46	-0.46	-0.46	21	-0.49	-0.50	-0.50
	22	-0.65	-0.64	-0.65	23	-0.29	-0.32	-0.32	24	-0.59	-0.33	-0.59
	25	-0.31	-0.58	-0.58	26	-0.64	-0.63	-0.64	27	-0.30	-0.32	-0.32
	28	-0.56	-0.37	-0.56	29	-0.35	-0.55	-0.55	30	-0.65	-0.63	-0.65
	31	-0.29	-0.32	-0.32	32	-0.59	-0.33	-0.59	33	-0.31	-0.57	-0.57
	34	-0.65	-0.63	-0.65	35	-0.29	-0.32	-0.32	36	-0.57	-0.36	-0.57
	37	-0.34	-0.56	-0.56	38	-0.42	-0.43	-0.43	39	-0.46	-0.46	-0.46
	40	-0.43	-0.43	-0.43	41	-0.45	-0.46	-0.46	42	-0.46	-0.46	-0.46
	43	-0.42	-0.43	-0.43	44	-0.45	-0.46	-0.46	45	-0.42	-0.43	-0.43
	46	-0.45	-0.46	-0.46								
62	1	-0.55	-0.55	-0.55	2	-0.58	-0.58	-0.58	3	-0.62	-0.62	-0.62
	4	-0.64	-0.65	-0.65	5	-0.41	-0.41	-0.41	6	-0.43	-0.43	-0.43
	7	-0.48	-0.48	-0.48	8	-0.50	-0.50	-0.50	9	-0.60	-0.60	-0.60
	10	-0.60	-0.60	-0.60	11	-0.64	-0.65	-0.65	12	-0.45	-0.45	-0.45
	13	-0.46	-0.46	-0.46	14	-0.50	-0.50	-0.50	15	-0.42	-0.42	-0.42
	16	-0.44	-0.44	-0.44	17	-0.47	-0.47	-0.47	18	-0.48	-0.49	-0.49
	19	-0.45	-0.45	-0.45	20	-0.45	-0.46	-0.46	21	-0.48	-0.49	-0.49
	22	-0.72	-0.65	-0.72	23	-0.23	-0.29	-0.29	24	-1.01	-0.59	-1.01
	25	0.10	-0.31	-0.31	26	-0.71	-0.64	-0.71	27	-0.24	-0.30	-0.30
	28	-0.84	-0.56	-0.84	29	-0.07	-0.35	-0.35	30	-0.72	-0.65	-0.72
	31	-0.23	-0.29	-0.29	32	-1.00	-0.59	-1.00	33	0.08	-0.31	-0.31
	34	-0.72	-0.65	-0.72	35	-0.23	-0.29	-0.29	36	-0.88	-0.57	-0.88
	37	-0.04	-0.34	-0.34	38	-0.42	-0.42	-0.42	39	-0.45	-0.46	-0.46
	40	-0.43	-0.43	-0.43	41	-0.45	-0.45	-0.45	42	-0.46	-0.46	-0.46
	43	-0.42	-0.42	-0.42	44	-0.45	-0.45	-0.45	45	-0.42	-0.42	-0.42
	46	-0.45	-0.45	-0.45								
63	1	-0.55	-0.57	-0.57	2	-0.57	-0.59	-0.59	3	-0.61	-0.65	-0.65
	4	-0.63	-0.67	-0.67	5	-0.41	-0.41	-0.41	6	-0.43	-0.44	-0.44
	7	-0.47	-0.50	-0.50	8	-0.49	-0.52	-0.52	9	-0.59	-0.62	-0.62
	10	-0.59	-0.62	-0.62	11	-0.63	-0.68	-0.68	12	-0.45	-0.47	-0.47
	13	-0.45	-0.47	-0.47	14	-0.49	-0.53	-0.53	15	-0.42	-0.43	-0.43
	16	-0.43	-0.45	-0.45	17	-0.46	-0.49	-0.49	18	-0.48	-0.51	-0.51
	19	-0.45	-0.47	-0.47	20	-0.45	-0.47	-0.47	21	-0.48	-0.51	-0.51
	22	-0.70	-0.51	-0.70	23	-0.22	-0.43	-0.43	24	-1.05	-0.92	-1.05
	25	0.15	-0.12	0.15	26	-0.69	-0.51	-0.69	27	-0.23	-0.43	-0.43
	28	-0.87	-0.79	-0.87	29	-0.11	-0.21	-0.21	30	-0.69	-0.51	-0.69
	31	-0.22	-0.43	-0.43	32	-1.04	-0.91	-1.04	33	0.14	-0.13	0.14
	34	-0.69	-0.51	-0.69	35	-0.22	-0.43	-0.43	36	-0.90	-0.82	-0.90
	37	-0.08	-0.19	-0.19	38	-0.42	-0.43	-0.43	39	-0.45	-0.47	-0.47
	40	-0.43	-0.44	-0.44	41	-0.45	-0.47	-0.47	42	-0.45	-0.47	-0.47
	43	-0.42	-0.43	-0.43	44	-0.45	-0.47	-0.47	45	-0.42	-0.43	-0.43
	46	-0.45	-0.47	-0.47								
64	1	-0.57	-0.59	-0.59	2	-0.60	-0.62	-0.62	3	-0.65	-0.69	-0.69
	4	-0.68	-0.72	-0.72	5	-0.42	-0.43	-0.43	6	-0.44	-0.46	-0.46
	7	-0.50	-0.53	-0.53	8	-0.53	-0.56	-0.56	9	-0.62	-0.66	-0.66
	10	-0.63	-0.66	-0.66	11	-0.68	-0.72	-0.72	12	-0.47	-0.50	-0.50
	13	-0.48	-0.50	-0.50	14	-0.53	-0.56	-0.56	15	-0.44	-0.45	-0.45
	16	-0.45	-0.47	-0.47	17	-0.49	-0.52	-0.52	18	-0.51	-0.54	-0.54
	19	-0.47	-0.50	-0.50	20	-0.47	-0.50	-0.50	21	-0.51	-0.54	-0.54
	22	-0.51	-0.51	-0.51	23	-0.44	-0.48	-0.48	24	-0.87	-0.58	-0.87
	25	-0.06	-0.41	-0.41	26	-0.51	-0.51	-0.51	27	-0.44	-0.48	-0.48
	28	-0.76	-0.56	-0.76	29	-0.17	-0.43	-0.43	30	-0.51	-0.51	-0.51
	31	-0.44	-0.48	-0.48	32	-0.86	-0.58	-0.86	33	-0.07	-0.41	-0.41
	34	-0.51	-0.51	-0.51	35	-0.44	-0.48	-0.48	36	-0.78	-0.57	-0.78
	37	-0.15	-0.42	-0.42	38	-0.44	-0.45	-0.45	39	-0.47	-0.50	-0.50
	40	-0.44	-0.46	-0.46	41	-0.47	-0.49	-0.49	42	-0.48	-0.50	-0.50
	43	-0.44	-0.45	-0.45	44	-0.47	-0.49	-0.49	45	-0.44	-0.45	-0.45
	46	-0.47	-0.49	-0.49								
65	1	-0.59	-0.61	-0.61	2	-0.62	-0.64	-0.64	3	-0.69	-0.71	-0.71
	4	-0.72	-0.74	-0.74	5	-0.43	-0.44	-0.44	6	-0.46	-0.48	-0.48
	7	-0.53	-0.54	-0.54	8	-0.56	-0.58	-0.58	9	-0.66	-0.68	-0.68
	10	-0.66	-0.68	-0.68	11	-0.72	-0.75	-0.75	12	-0.50	-0.51	-0.51
	13	-0.50	-0.51	-0.51	14	-0.56	-0.58	-0.58	15	-0.45	-0.46	-0.46
	16	-0.47	-0.49	-0.49	17	-0.52	-0.53	-0.53	18	-0.54	-0.56	-0.56
	19	-0.50	-0.51	-0.51	20	-0.50	-0.51	-0.51	21	-0.54	-0.56	-0.56
	22	-0.51	-0.52	-0.52	23	-0.48	-0.49	-0.49	24	-0.58	-0.42	-0.58
	25	-0.41	-0.60	-0.60	26	-0.51	-0.52	-0.52	27	-0.48	-0.49	-0.49
	28	-0.56	-0.43	-0.56	29	-0.43	-0.58	-0.58	30	-0.51	-0.52	-0.52
	31	-0.48	-0.49	-0.49	32	-0.58	-0.42	-0.58	33	-0.41	-0.60	-0.60
	34	-0.51	-0.52	-0.52	35	-0.48	-0.49	-0.49	36	-0.57	-0.43	-0.57
	37	-0.42	-0.59	-0.59	38	-0.45	-0.46	-0.46	39	-0.50	-0.51	-0.51
	40	-0.46	-0.47	-0.47	41	-0.49	-0.51	-0.51	42	-0.50	-0.51	-0.51
	43	-0.45	-0.46	-0.46	44	-0.49	-0.51	-0.51	45	-0.45	-0.46	-0.46

Group	idx				idx				idx			
	46	-0.49	-0.51	-0.51								
66	1	-0.61	-0.62	-0.62	2	-0.64	-0.65	-0.65	3	-0.71	-0.71	-0.71
	4	-0.74	-0.75	-0.75	5	-0.44	-0.45	-0.45	6	-0.48	-0.48	-0.48
	7	-0.54	-0.55	-0.55	8	-0.58	-0.58	-0.58	9	-0.68	-0.68	-0.68
	10	-0.68	-0.69	-0.69	11	-0.75	-0.75	-0.75	12	-0.51	-0.51	-0.51
	13	-0.51	-0.52	-0.52	14	-0.58	-0.58	-0.58	15	-0.46	-0.47	-0.47
	16	-0.49	-0.49	-0.49	17	-0.53	-0.54	-0.54	18	-0.56	-0.56	-0.56
	19	-0.51	-0.51	-0.51	20	-0.51	-0.52	-0.52	21	-0.56	-0.56	-0.56
	22	-0.52	-0.55	-0.55	23	-0.49	-0.49	-0.49	24	-0.42	-0.15	-0.42
	25	-0.60	-0.86	-0.86	26	-0.52	-0.55	-0.55	27	-0.49	-0.48	-0.49
	28	-0.43	-0.25	-0.43	29	-0.58	-0.76	-0.76	30	-0.52	-0.55	-0.55
	31	-0.49	-0.49	-0.49	32	-0.42	-0.16	-0.42	33	-0.60	-0.86	-0.86
	34	-0.52	-0.55	-0.55	35	-0.49	-0.49	-0.49	36	-0.43	-0.23	-0.43
	37	-0.59	-0.78	-0.78	38	-0.46	-0.47	-0.47	39	-0.51	-0.52	-0.52
	40	-0.47	-0.48	-0.48	41	-0.51	-0.51	-0.51	42	-0.51	-0.52	-0.52
	43	-0.46	-0.47	-0.47	44	-0.51	-0.51	-0.51	45	-0.46	-0.47	-0.47
	46	-0.51	-0.51	-0.51								
67	1	-0.62	-0.62	-0.63	2	-0.65	-0.65	-0.66	3	-0.71	-0.71	-0.73
	4	-0.74	-0.74	-0.76	5	-0.45	-0.45	-0.46	6	-0.48	-0.48	-0.49
	7	-0.55	-0.55	-0.56	8	-0.58	-0.58	-0.59	9	-0.68	-0.68	-0.69
	10	-0.68	-0.69	-0.70	11	-0.74	-0.74	-0.76	12	-0.51	-0.51	-0.52
	13	-0.52	-0.52	-0.53	14	-0.58	-0.58	-0.59	15	-0.47	-0.47	-0.48
	16	-0.49	-0.49	-0.50	17	-0.54	-0.54	-0.55	18	-0.56	-0.56	-0.57
	19	-0.51	-0.51	-0.52	20	-0.52	-0.52	-0.53	21	-0.56	-0.56	-0.57
	22	-0.55	-0.47	-0.55	23	-0.47	-0.55	-0.55	24	-0.19	-0.19	-0.20
	25	-0.90	-0.90	-0.91	26	-0.55	-0.47	-0.55	27	-0.47	-0.55	-0.55
	28	-0.27	-0.28	-0.28	29	-0.79	-0.79	-0.80	30	-0.55	-0.47	-0.55
	31	-0.47	-0.55	-0.55	32	-0.20	-0.20	-0.20	33	-0.90	-0.90	-0.91
	34	-0.55	-0.47	-0.55	35	-0.47	-0.55	-0.55	36	-0.25	-0.25	-0.26
	37	-0.81	-0.81	-0.82	38	-0.47	-0.47	-0.48	39	-0.52	-0.52	-0.53
	40	-0.48	-0.48	-0.49	41	-0.51	-0.51	-0.52	42	-0.52	-0.52	-0.53
	43	-0.47	-0.47	-0.48	44	-0.51	-0.51	-0.52	45	-0.47	-0.47	-0.48
	46	-0.51	-0.51	-0.52								
68	1	-0.61	-0.62	-0.62	2	-0.64	-0.65	-0.65	3	-0.71	-0.72	-0.72
	4	-0.75	-0.75	-0.75	5	-0.44	-0.45	-0.45	6	-0.48	-0.48	-0.48
	7	-0.54	-0.55	-0.55	8	-0.58	-0.58	-0.58	9	-0.68	-0.68	-0.68
	10	-0.68	-0.69	-0.69	11	-0.75	-0.75	-0.75	12	-0.51	-0.51	-0.51
	13	-0.51	-0.52	-0.52	14	-0.58	-0.58	-0.58	15	-0.47	-0.47	-0.47
	16	-0.49	-0.49	-0.49	17	-0.53	-0.54	-0.54	18	-0.56	-0.56	-0.56
	19	-0.51	-0.52	-0.52	20	-0.51	-0.52	-0.52	21	-0.56	-0.56	-0.56
	22	-0.49	-0.49	-0.49	23	-0.52	-0.55	-0.55	24	-0.42	-0.16	-0.42
	25	-0.60	-0.86	-0.86	26	-0.49	-0.48	-0.49	27	-0.52	-0.55	-0.55
	28	-0.44	-0.25	-0.44	29	-0.58	-0.76	-0.76	30	-0.49	-0.49	-0.49
	31	-0.52	-0.55	-0.55	32	-0.42	-0.16	-0.42	33	-0.60	-0.86	-0.86
	34	-0.49	-0.49	-0.49	35	-0.52	-0.55	-0.55	36	-0.43	-0.23	-0.43
	37	-0.59	-0.78	-0.78	38	-0.47	-0.47	-0.47	39	-0.51	-0.52	-0.52
	40	-0.47	-0.48	-0.48	41	-0.51	-0.51	-0.51	42	-0.51	-0.52	-0.52
	43	-0.47	-0.47	-0.47	44	-0.51	-0.51	-0.51	45	-0.47	-0.47	-0.47
	46	-0.51	-0.51	-0.51								
69	1	-0.59	-0.61	-0.61	2	-0.63	-0.64	-0.64	3	-0.69	-0.71	-0.71
	4	-0.72	-0.75	-0.75	5	-0.43	-0.44	-0.44	6	-0.46	-0.48	-0.48
	7	-0.53	-0.54	-0.54	8	-0.56	-0.58	-0.58	9	-0.66	-0.68	-0.68
	10	-0.66	-0.68	-0.68	11	-0.72	-0.75	-0.75	12	-0.50	-0.51	-0.51
	13	-0.50	-0.51	-0.51	14	-0.56	-0.58	-0.58	15	-0.45	-0.47	-0.47
	16	-0.47	-0.49	-0.49	17	-0.52	-0.53	-0.53	18	-0.54	-0.56	-0.56
	19	-0.50	-0.51	-0.51	20	-0.50	-0.51	-0.51	21	-0.54	-0.56	-0.56
	22	-0.48	-0.49	-0.49	23	-0.51	-0.52	-0.52	24	-0.58	-0.42	-0.58
	25	-0.41	-0.60	-0.60	26	-0.48	-0.49	-0.49	27	-0.51	-0.52	-0.52
	28	-0.56	-0.44	-0.56	29	-0.43	-0.58	-0.58	30	-0.48	-0.49	-0.49
	31	-0.51	-0.52	-0.52	32	-0.58	-0.42	-0.58	33	-0.41	-0.60	-0.60
	34	-0.48	-0.49	-0.49	35	-0.51	-0.52	-0.52	36	-0.57	-0.43	-0.57
	37	-0.42	-0.59	-0.59	38	-0.45	-0.47	-0.47	39	-0.50	-0.51	-0.51
	40	-0.46	-0.47	-0.47	41	-0.49	-0.51	-0.51	42	-0.50	-0.51	-0.51
	43	-0.45	-0.47	-0.47	44	-0.49	-0.51	-0.51	45	-0.45	-0.47	-0.47
	46	-0.49	-0.51	-0.51								
70	1	-0.57	-0.59	-0.59	2	-0.60	-0.63	-0.63	3	-0.65	-0.69	-0.69
	4	-0.68	-0.72	-0.72	5	-0.42	-0.43	-0.43	6	-0.45	-0.46	-0.46
	7	-0.50	-0.53	-0.53	8	-0.53	-0.56	-0.56	9	-0.62	-0.66	-0.66
	10	-0.63	-0.66	-0.66	11	-0.68	-0.72	-0.72	12	-0.47	-0.50	-0.50
	13	-0.48	-0.50	-0.50	14	-0.53	-0.56	-0.56	15	-0.44	-0.45	-0.45
	16	-0.45	-0.47	-0.47	17	-0.49	-0.52	-0.52	18	-0.51	-0.54	-0.54
	19	-0.47	-0.50	-0.50	20	-0.47	-0.50	-0.50	21	-0.51	-0.54	-0.54
	22	-0.44	-0.48	-0.48	23	-0.51	-0.51	-0.51	24	-0.87	-0.58	-0.87
	25	-0.06	-0.41	-0.41	26	-0.44	-0.48	-0.48	27	-0.51	-0.51	-0.51
	28	-0.76	-0.56	-0.76	29	-0.18	-0.43	-0.43	30	-0.44	-0.48	-0.48
	31	-0.51	-0.51	-0.51	32	-0.86	-0.58	-0.86	33	-0.07	-0.41	-0.41
	34	-0.44	-0.48	-0.48	35	-0.51	-0.51	-0.51	36	-0.78	-0.57	-0.78

Elem.		Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max
	37	-0.15	-0.42	-0.42	38	-0.44	-0.45	-0.45	39	-0.47	-0.50	-0.50
	40	-0.44	-0.46	-0.46	41	-0.47	-0.49	-0.49	42	-0.48	-0.50	-0.50
	43	-0.44	-0.45	-0.45	44	-0.47	-0.49	-0.49	45	-0.44	-0.45	-0.45
	46	-0.47	-0.49	-0.49								
71	1	-0.57	-0.55	-0.57	2	-0.59	-0.57	-0.59	3	-0.65	-0.61	-0.65
	4	-0.68	-0.63	-0.68	5	-0.42	-0.41	-0.42	6	-0.44	-0.43	-0.44
	7	-0.50	-0.47	-0.50	8	-0.52	-0.49	-0.52	9	-0.62	-0.59	-0.62
	10	-0.62	-0.59	-0.62	11	-0.68	-0.64	-0.68	12	-0.47	-0.45	-0.47
	13	-0.47	-0.45	-0.47	14	-0.53	-0.49	-0.53	15	-0.43	-0.42	-0.43
	16	-0.45	-0.43	-0.45	17	-0.49	-0.46	-0.49	18	-0.51	-0.48	-0.51
	19	-0.47	-0.45	-0.47	20	-0.47	-0.45	-0.47	21	-0.51	-0.48	-0.51
	22	-0.43	-0.22	-0.43	23	-0.51	-0.69	-0.69	24	-0.92	-1.05	-1.05
	25	-0.12	0.15	0.15	26	-0.43	-0.23	-0.43	27	-0.51	-0.69	-0.69
	28	-0.79	-0.87	-0.87	29	-0.21	-0.11	-0.21	30	-0.43	-0.22	-0.43
	31	-0.51	-0.69	-0.69	32	-0.91	-1.04	-1.04	33	-0.13	0.13	0.13
	34	-0.43	-0.22	-0.43	35	-0.51	-0.69	-0.69	36	-0.82	-0.90	-0.90
	37	-0.19	-0.09	-0.19	38	-0.43	-0.42	-0.43	39	-0.47	-0.45	-0.47
	40	-0.44	-0.43	-0.44	41	-0.47	-0.45	-0.47	42	-0.47	-0.45	-0.47
	43	-0.43	-0.42	-0.43	44	-0.47	-0.45	-0.47	45	-0.43	-0.42	-0.43
	46	-0.47	-0.45	-0.47								
72	1	-0.56	-0.55	-0.56	2	-0.58	-0.58	-0.58	3	-0.62	-0.63	-0.63
	4	-0.64	-0.65	-0.65	5	-0.41	-0.41	-0.41	6	-0.43	-0.43	-0.43
	7	-0.48	-0.48	-0.48	8	-0.50	-0.50	-0.50	9	-0.60	-0.60	-0.60
	10	-0.60	-0.60	-0.60	11	-0.64	-0.65	-0.65	12	-0.45	-0.46	-0.46
	13	-0.46	-0.46	-0.46	14	-0.50	-0.51	-0.51	15	-0.43	-0.42	-0.43
	16	-0.44	-0.44	-0.44	17	-0.47	-0.47	-0.47	18	-0.48	-0.49	-0.49
	19	-0.45	-0.46	-0.46	20	-0.46	-0.46	-0.46	21	-0.48	-0.49	-0.49
	22	-0.23	-0.29	-0.29	23	-0.72	-0.65	-0.72	24	-1.00	-0.59	-1.00
	25	0.09	-0.32	-0.32	26	-0.24	-0.30	-0.30	27	-0.71	-0.64	-0.71
	28	-0.84	-0.56	-0.84	29	-0.07	-0.35	-0.35	30	-0.23	-0.30	-0.30
	31	-0.72	-0.65	-0.72	32	-0.99	-0.59	-0.99	33	0.08	-0.32	-0.32
	34	-0.23	-0.30	-0.30	35	-0.72	-0.65	-0.72	36	-0.88	-0.57	-0.88
	37	-0.05	-0.34	-0.34	38	-0.43	-0.42	-0.43	39	-0.46	-0.46	-0.46
	40	-0.43	-0.43	-0.43	41	-0.45	-0.45	-0.45	42	-0.46	-0.46	-0.46
	43	-0.43	-0.42	-0.43	44	-0.45	-0.45	-0.45	45	-0.43	-0.42	-0.43
	46	-0.45	-0.45	-0.45								
73	1	-0.55	-0.56	-0.56	2	-0.58	-0.59	-0.59	3	-0.63	-0.64	-0.64
	4	-0.65	-0.66	-0.66	5	-0.41	-0.41	-0.41	6	-0.43	-0.44	-0.44
	7	-0.48	-0.49	-0.49	8	-0.50	-0.51	-0.51	9	-0.60	-0.61	-0.61
	10	-0.60	-0.61	-0.61	11	-0.65	-0.66	-0.66	12	-0.46	-0.46	-0.46
	13	-0.46	-0.46	-0.46	14	-0.51	-0.51	-0.51	15	-0.42	-0.43	-0.43
	16	-0.44	-0.45	-0.45	17	-0.47	-0.48	-0.48	18	-0.49	-0.50	-0.50
	19	-0.46	-0.46	-0.46	20	-0.46	-0.46	-0.46	21	-0.49	-0.50	-0.50
	22	-0.29	-0.32	-0.32	23	-0.65	-0.64	-0.65	24	-0.59	-0.34	-0.59
	25	-0.32	-0.58	-0.58	26	-0.30	-0.32	-0.32	27	-0.64	-0.63	-0.64
	28	-0.56	-0.37	-0.56	29	-0.35	-0.55	-0.55	30	-0.30	-0.32	-0.32
	31	-0.65	-0.63	-0.65	32	-0.59	-0.34	-0.59	33	-0.32	-0.57	-0.57
	34	-0.30	-0.32	-0.32	35	-0.65	-0.63	-0.65	36	-0.57	-0.36	-0.57
	37	-0.34	-0.56	-0.56	38	-0.42	-0.43	-0.43	39	-0.46	-0.46	-0.46
	40	-0.43	-0.44	-0.44	41	-0.45	-0.46	-0.46	42	-0.46	-0.47	-0.47
	43	-0.42	-0.43	-0.43	44	-0.45	-0.46	-0.46	45	-0.42	-0.43	-0.43
	46	-0.45	-0.46	-0.46								
74	1	-0.56	-0.59	-0.59	2	-0.59	-0.62	-0.62	3	-0.64	-0.67	-0.67
	4	-0.66	-0.69	-0.69	5	-0.41	-0.44	-0.44	6	-0.44	-0.46	-0.46
	7	-0.49	-0.51	-0.51	8	-0.51	-0.54	-0.54	9	-0.61	-0.64	-0.64
	10	-0.61	-0.65	-0.65	11	-0.66	-0.70	-0.70	12	-0.46	-0.49	-0.49
	13	-0.46	-0.49	-0.49	14	-0.51	-0.54	-0.54	15	-0.43	-0.45	-0.45
	16	-0.45	-0.47	-0.47	17	-0.48	-0.50	-0.50	18	-0.50	-0.52	-0.52
	19	-0.46	-0.49	-0.49	20	-0.46	-0.49	-0.49	21	-0.50	-0.52	-0.52
	22	-0.32	-0.28	-0.32	23	-0.64	-0.73	-0.73	24	-0.34	-0.02	-0.34
	25	-0.58	-0.98	-0.98	26	-0.32	-0.28	-0.32	27	-0.63	-0.72	-0.72
	28	-0.37	-0.14	-0.37	29	-0.55	-0.84	-0.84	30	-0.32	-0.28	-0.32
	31	-0.63	-0.73	-0.73	32	-0.34	-0.03	-0.34	33	-0.57	-0.97	-0.97
	34	-0.32	-0.28	-0.32	35	-0.63	-0.73	-0.73	36	-0.36	-0.11	-0.36
	37	-0.56	-0.86	-0.86	38	-0.43	-0.45	-0.45	39	-0.46	-0.49	-0.49
	40	-0.44	-0.46	-0.46	41	-0.46	-0.48	-0.48	42	-0.47	-0.49	-0.49
	43	-0.43	-0.45	-0.45	44	-0.46	-0.48	-0.48	45	-0.43	-0.45	-0.45
	46	-0.46	-0.48	-0.48								

Elem.	Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max
	-1.05										
	0.15										

RISULTATI ELEMENTI TIPO TRAVE
LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:
- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.

orientamento elementi 2D non verticali

orientamento elementi 2D verticali
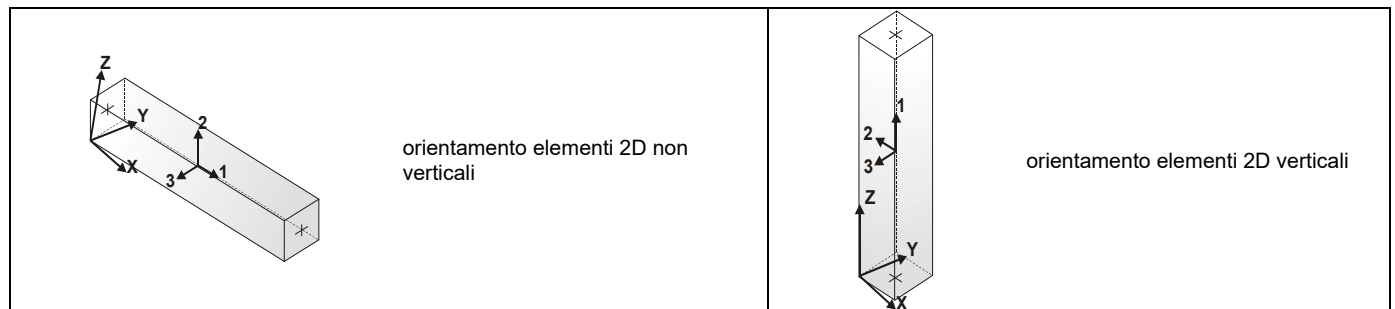
Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
28	1	-3.944e+04	4.647e+04	-0.02	0.0	0.0	-1.401e+04	-3.92	-68.17	104.14	4.647e+04	-3.944e+04
		-4.091e+04	2.091e+04	-0.01	0.0	375.0	-1.218e+04	-3.92	-68.17	104.14	2.091e+04	-4.091e+04
28	2	-3.698e+04	4.692e+04	-0.02	0.0	0.0	-1.470e+04	-10.71	-65.59	112.85	4.692e+04	-3.698e+04
		-4.099e+04	2.233e+04	-0.01	0.0	375.0	-1.287e+04	-10.71	-65.59	112.85	2.233e+04	-4.099e+04
28	3	-1.229e+04	4.773e+04	-0.02	0.0	0.0	-1.608e+04	-218.06	-59.43	136.00	4.773e+04	-1.229e+04
		-9.407e+04	2.544e+04	-0.01	0.0	375.0	-1.425e+04	-218.06	-59.43	136.00	2.544e+04	-9.407e+04
28	4	-9835.59	4.818e+04	-0.02	0.0	0.0	-1.677e+04	-224.85	-56.85	144.71	4.818e+04	-9835.59
		-9.415e+04	2.686e+04	-0.01	0.0	375.0	-1.494e+04	-224.85	-56.85	144.71	2.686e+04	-9.415e+04
28	5	-1.784e+04	3.543e+04	-0.01	0.0	0.0	-1.024e+04	51.89	-54.68	71.94	3.543e+04	-3.730e+04
		-3.730e+04	1.492e+04	-9.48e-03	0.0	375.0	-8836.71	51.89	-54.68	71.94	1.492e+04	-1.784e+04
28	6	-1.792e+04	3.588e+04	-0.01	0.0	0.0	-1.093e+04	45.11	-52.10	80.65	3.588e+04	-3.484e+04
		-3.484e+04	1.634e+04	-9.80e-03	0.0	375.0	-9527.04	45.11	-52.10	80.65	1.634e+04	-1.792e+04
28	7	-1.015e+04	3.668e+04	-0.02	0.0	0.0	-1.232e+04	-162.25	-45.94	103.80	3.668e+04	-1.015e+04
		-7.100e+04	1.946e+04	-0.01	0.0	375.0	-1.091e+04	-162.25	-45.94	103.80	1.946e+04	-7.100e+04
28	8	-7694.50	3.713e+04	-0.02	0.0	0.0	-1.301e+04	-169.04	-43.36	112.51	3.713e+04	-7694.50
		-7.108e+04	2.087e+04	-0.01	0.0	375.0	-1.160e+04	-169.04	-43.36	112.51	2.087e+04	-7.108e+04
28	9	-3.452e+04	4.737e+04	-0.02	0.0	0.0	-1.539e+04	-17.49	-63.00	121.57	4.737e+04	-3.452e+04
		-4.108e+04	2.375e+04	-0.01	0.0	375.0	-1.356e+04	-17.49	-63.00	121.57	2.375e+04	-4.108e+04
28	10	-2.044e+04	4.735e+04	-0.02	0.0	0.0	-1.546e+04	-153.82	-62.05	126.44	4.735e+04	-2.044e+04
		-7.812e+04	2.408e+04	-0.01	0.0	375.0	-1.363e+04	-153.82	-62.05	126.44	2.408e+04	-7.812e+04
28	11	-1.552e+04	4.825e+04	-0.02	0.0	0.0	-1.684e+04	-167.39	-56.89	143.87	4.825e+04	-1.552e+04
		-7.829e+04	2.692e+04	-0.01	0.0	375.0	-1.501e+04	-167.39	-56.89	143.87	2.692e+04	-7.829e+04
28	12	-1.801e+04	3.633e+04	-0.01	0.0	0.0	-1.162e+04	38.32	-49.51	89.37	3.633e+04	-3.238e+04
		-3.238e+04	1.776e+04	-0.01	0.0	375.0	-1.022e+04	38.32	-49.51	89.37	1.776e+04	-1.801e+04
28	13	-1.830e+04	3.631e+04	-0.01	0.0	0.0	-1.170e+04	-98.01	-48.56	94.24	3.631e+04	-1.830e+04
		-5.505e+04	1.810e+04	-0.01	0.0	375.0	-1.029e+04	-98.01	-48.56	94.24	1.810e+04	-5.505e+04
28	14	-1.338e+04	3.721e+04	-0.02	0.0	0.0	-1.308e+04	-111.58	-43.40	111.67	3.721e+04	-1.338e+04
		-5.522e+04	2.093e+04	-0.01	0.0	375.0	-1.167e+04	-111.58	-43.40	111.67	2.093e+04	-5.522e+04
28	15	-2.965e+04	3.571e+04	-0.01	0.0	0.0	-1.070e+04	4.31	-52.73	79.02	3.571e+04	-3.126e+04
		-3.126e+04	1.593e+04	-9.70e-03	0.0	375.0	-9297.70	4.31	-52.73	79.02	1.593e+04	-2.965e+04
28	16	-2.962e+04	3.601e+04	-0.01	0.0	0.0	-1.116e+04	-0.22	-51.01	84.83	3.601e+04	-2.962e+04
		-2.971e+04	1.688e+04	-9.92e-03	0.0	375.0	-9757.93	-0.22	-51.01	84.83	1.688e+04	-2.971e+04
28	17	-1.317e+04	3.654e+04	-0.01	0.0	0.0	-1.209e+04	-138.46	-46.91	100.26	3.654e+04	-1.317e+04
		-6.509e+04	1.895e+04	-0.01	0.0	375.0	-1.068e+04	-138.46	-46.91	100.26	1.895e+04	-6.509e+04
28	18	-1.153e+04	3.684e+04	-0.02	0.0	0.0	-1.255e+04	-142.98	-45.19	106.07	3.684e+04	-1.153e+04
		-6.515e+04	1.990e+04	-0.01	0.0	375.0	-1.114e+04	-142.98	-45.19	106.07	1.990e+04	-6.515e+04
28	19	-2.799e+04	3.631e+04	-0.01	0.0	0.0	-1.162e+04	-4.74	-49.29	90.64	3.631e+04	-2.799e+04
		-2.976e+04	1.782e+04	-0.01	0.0	375.0	-1.022e+04	-4.74	-49.29	90.64	1.782e+04	-2.976e+04
28	20	-1.860e+04	3.629e+04	-0.01	0.0	0.0	-1.167e+04	-95.63	-48.66	93.89	3.629e+04	-1.860e+04
		-5.446e+04	1.805e+04	-0.01	0.0	375.0	-1.027e+04	-95.63	-48.66	93.89	1.805e+04	-5.446e+04
28	21	-1.532e+04	3.689e+04	-0.02	0.0	0.0	-1.259e+04	-104.67	-45.21	105.50	3.689e+04	-1.532e+04
		-5.457e+04	1.994e+04	-0.01	0.0	375.0	-1.119e+04	-104.67	-45.21	105.50	1.994e+04	-5.457e+04
28	22	7.547e+04	9.340e+05	0.02	0.0	0.0	-1.766e+04	777.60	5765.05	5637.53	-1.228e+06	-2.161e+05
		-2.161e+05	-1.228e+06	-2.86	0.0	375.0	-1.625e+04	777.60	5765.05	5637.53	9.340e+05	7.547e+04
28	23	1.751e+05	1.228e+06	-0.03	0.0	0.0	-5370.66	-939.50	-5827.01	-5458.86	1.228e+06	1.751e+05
		-1.772e+05	-9.570e+05	2.88	0.0	375.0	-3964.41	-939.50	-5827.01	-5458.86	-9.570e+05	-1.772e+05
28	24	2.169e+06	2.474e+05	2.65	0.0	0.0	-2.391e+04	-8992.12	-978.03	-3055.34	2.474e+05	2.169e+06
		-1.203e+06	-1.193e+05	-0.03	0.0	375.0	-2.250e+04	-8992.12	-978.03	-3055.34	-1.193e+05	-1.203e+06
28	25	1.232e+06	1.439e+05	-2.62	0.0	0.0	239.35	9069.99	815.70	3052.31	-1.620e+05	-2.169e+06
		-2.169e+06	-1.620e+05	-0.01	0.0	375.0	1645.60	9069.99	815.70	3052.31	1.439e+05	1.232e+06
28	26	6.925e+04	8.737e+05	0.02	0.0	0.0	-1.717e+04	735.72	5600.10	5636.42	-1.226e+06	-2.066e+05
		-2.066e+05	-1.226e+06	-2.03	0.0	375.0	-1.577e+04	735.72	5600.10	5636.42	8.737e+05	6.925e+04
28	27	1.650e+05	1.227e+06	-0.03	0.0	0.0	-5875.49	-895.16	-5679.89	-5475.50	1.227e+06	1.650e+05
		-1.706e+05	-9.033e+05	2.05	0.0	375.0	-4469.24	-895.16	-5679.89	-5475.50	-9.033e+05	-1.706e+05
28	28	1.225e+06	1.816e+05	0.79	0.0	0.0	-1.993e+04	-5394.36	-686.49	-1551.42	1.816e+05	1.225e+06
		-7.974e+05	-7.579e+04	-0.02	0.0	375.0	-1.853e+04	-5394.36	-686.49	-1551.42	-7.579e+04	-7.974e+05
28	29	8.343e+05	1.107e+05	-0.82	0.0	0.0	-2845.56	5719.97	586.40	1693.80	-1.092e+05	-1.311e+06
		-1.311e+06	-1.092e+05	-0.01	0.0	375.0	-1439.31	5719.97	586.40	1693.80	1.107e+05	8.343e+05
28	30	8.545e+04	6.460e+05	0.02	0.0	0.0	-1.780e+04	828.87	4992.02	5718.71	-1.226e+06	-2.254e+05
		-2.254e+05	-1.226e+06	-1.95	0.0	375.0	-1.639e+04	828.87	4992.02	5718.71	6.460e+05	8.545e+04
28	31	1.870e+05	1.226e+06	-0.03	0.0	0.0	-5130.09	-1003.05	-5011.39	-5495.74	1.226e+06	1.870e+05
		-1.891e+05	-6.531e+05	1.97	0.0	375.0	-3723.84	-1003.05	-5011.39	-5495.74	-6.531e+05	-1.891e+05
28	32	2.167e+06	2.439e+05	1.60	0.0	0.0	-2.364e+04	-7808.55	-963.05	-2539.53	2.439e+05	2.167e+06
		-7.615e+05	-1.172e+05	-0.03	0.0	375.0	-2.223e+04	-7808.55	-963.05	-2539.53	-1.172e+05	-7.615e+05
28	33	8.127e+05	1.427e+05	-1.61	0.0	0.0	-150.10	7945.60	805.41	2526.49	-1.593e+05	-2.167e+06
		-2.167e+06	-1.593e+05	-0.01	0.0	375.0	1256.15	7945.60	805.41	2526.49	1.427e+05	8.127e+05
28	34	8.545e+04	6.460e+05	0.02	0.0	0.0	-1.780e+04	828.87	4992.02	5718.71	-1.226e+06	-2.254e+05
		-2.254e+05	-1.226e+06	-1.95	0.0	375.0	-1.639e+04	828.87	4992.02	5718.71	6.460e+05	8.545e+04
28	35	1.870e+05	1.226e+06	-0.03	0.0	0.0	-5130.09	-1003.05	-5011.39	-5495.74	1.226e+06	1.870e+05
		-1.891e+05	-6.531e+05	1.97	0.0	375.0	-3723.84	-1003.05	-5011.39	-5495.74	-6.531e+05	-1.891e+05
28	36	1.221e+06	1.961e+05	0.86	0.0	0.0	-2.151e+04	-4942.54	-750.77	-1411.68	1.961e+05	1.221e+06
		-6.320e+05	-8.543e+04	-0.02	0.0	375.0	-2.010e+04	-4942.54	-750.77	-1411.68	-8.543e+04	-6.320e+05
28	37	7.037e+05	1.172e+05	-0.87	0.0	0.0	-1675.63	5368.76	630.76	1487.25	-1.193e+05	-1.310e+06

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                 -1.310e+06 -1.193e+05      -0.01   0.0   375.0   -269.38   5368.76    630.76   1487.25 1.172e+05 7.037e+05
28  38 -2.965e+04 3.571e+04      -0.01   0.0     0.0 -1.070e+04      4.31    -52.73     79.02 3.571e+04 -3.126e+04
       -3.126e+04 1.593e+04  -9.70e-03   0.0   375.0 -9297.70        4.31    -52.73     79.02 1.593e+04 -2.965e+04
28  39 -1.860e+04 3.629e+04      -0.01   0.0     0.0 -1.167e+04    -95.63    -48.66     93.89 3.629e+04 -1.860e+04
       -5.446e+04 1.805e+04      -0.01   0.0   375.0 -1.027e+04    -95.63    -48.66     93.89 1.805e+04 -5.446e+04
28  40 -2.967e+04 3.583e+04      -0.01   0.0     0.0 -1.089e+04      2.50    -52.05     81.34 3.583e+04 -3.061e+04
       -3.061e+04 1.631e+04  -9.79e-03   0.0   375.0 -9481.79        2.50    -52.05     81.34 1.631e+04 -2.967e+04
28  41 -2.041e+04 3.621e+04      -0.01   0.0     0.0 -1.153e+04    -81.35    -49.24     91.76 3.621e+04 -2.041e+04
       -5.091e+04 1.774e+04      -0.01   0.0   375.0 -1.013e+04    -81.35    -49.24     91.76 1.774e+04 -5.091e+04
28  42 -1.975e+04 3.633e+04      -0.01   0.0     0.0 -1.172e+04    -83.16    -48.55     94.09 3.633e+04 -1.975e+04
       -5.094e+04 1.812e+04      -0.01   0.0   375.0 -1.031e+04    -83.16    -48.55     94.09 1.812e+04 -5.094e+04
28  43 -2.965e+04 3.571e+04      -0.01   0.0     0.0 -1.070e+04      4.31    -52.73     79.02 3.571e+04 -3.126e+04
       -3.126e+04 1.593e+04  -9.70e-03   0.0   375.0 -9297.70        4.31    -52.73     79.02 1.593e+04 -2.965e+04
28  44 -2.041e+04 3.621e+04      -0.01   0.0     0.0 -1.153e+04    -81.35    -49.24     91.76 3.621e+04 -2.041e+04
       -5.091e+04 1.774e+04      -0.01   0.0   375.0 -1.013e+04    -81.35    -49.24     91.76 1.774e+04 -5.091e+04
28  45 -2.965e+04 3.571e+04      -0.01   0.0     0.0 -1.070e+04      4.31    -52.73     79.02 3.571e+04 -3.126e+04
       -3.126e+04 1.593e+04  -9.70e-03   0.0   375.0 -9297.70        4.31    -52.73     79.02 1.593e+04 -2.965e+04
28  46 -2.041e+04 3.621e+04      -0.01   0.0     0.0 -1.153e+04    -81.35    -49.24     91.76 3.621e+04 -2.041e+04
       -5.091e+04 1.774e+04      -0.01   0.0   375.0 -1.013e+04    -81.35    -49.24     91.76 1.774e+04 -5.091e+04
29   1 8.476e+04 8.414e+04   -6.63e-03   0.0     0.0 -6508.74     -465.59    439.22     36.82 -8.145e+04 8.476e+04
       -9.077e+04 -8.145e+04 -6.37e-03   0.0   377.0 -5038.44     -465.59    439.22     36.82 8.414e+04 -9.077e+04
29   2 9.383e+04 8.737e+04   -7.55e-03   0.0     0.0 -7132.20     -537.33    455.78     42.51 -8.446e+04 9.383e+04
       -1.087e+05 -8.446e+04 -6.62e-03   0.0   377.0 -5661.90     -537.33    455.78     42.51 8.737e+04 -1.087e+05
29   3 1.120e+05 9.337e+04      -0.01   0.0     0.0 -6612.63     -574.85    487.50     42.66 -9.042e+04 1.120e+05
       -1.047e+05 -9.042e+04 -6.97e-03   0.0   377.0 -5142.33     -574.85    487.50     42.66 9.337e+04 -1.047e+05
29   4 1.211e+05 9.660e+04      -0.01   0.0     0.0 -7236.09     -646.58    504.06     48.35 -9.343e+04 1.211e+05
       -1.227e+05 -9.343e+04 -7.22e-03   0.0   377.0 -5765.79     -646.58    504.06     48.35 9.660e+04 -1.227e+05
29   5 5.821e+04 6.235e+04   -4.12e-03   0.0     0.0 -4980.08     -330.13    325.48     26.83 -6.035e+04 5.821e+04
       -6.625e+04 -6.035e+04 -4.74e-03   0.0   377.0 -3849.08     -330.13    325.48     26.83 6.235e+04 -6.625e+04
29   6 6.728e+04 6.558e+04   -5.03e-03   0.0     0.0 -5603.54     -401.87    342.04     32.52 -6.337e+04 6.728e+04
       -8.422e+04 -6.337e+04 -4.99e-03   0.0   377.0 -4472.54     -401.87    342.04     32.52 6.558e+04 -8.422e+04
29   7 8.547e+04 7.159e+04   -7.96e-03   0.0     0.0 -5083.97     -439.39    373.76     32.67 -6.932e+04 8.547e+04
       -8.018e+04 -6.932e+04 -5.35e-03   0.0   377.0 -3952.97     -439.39    373.76     32.67 7.159e+04 -8.018e+04
29   8 9.455e+04 7.482e+04   -8.88e-03   0.0     0.0 -5707.43     -511.12    390.32     38.36 -7.234e+04 9.455e+04
       -9.815e+04 -7.234e+04 -5.60e-03   0.0   377.0 -4576.43     -511.12    390.32     38.36 7.482e+04 -9.815e+04
29   9 1.029e+05 9.059e+04   -8.47e-03   0.0     0.0 -7755.66     -609.06    472.33     48.20 -8.748e+04 1.029e+05
       -1.267e+05 -8.748e+04 -6.86e-03   0.0   377.0 -6285.36     -609.06    472.33     48.20 9.059e+04 -1.267e+05
29  10 1.038e+05 9.060e+04   -9.33e-03   0.0     0.0 -6581.46     -542.07    473.02     40.91 -8.773e+04 1.038e+05
       -1.005e+05 -8.773e+04 -6.79e-03   0.0   377.0 -5111.16     -542.07    473.02     40.91 9.060e+04 -1.005e+05
29  11 1.220e+05 9.706e+04      -0.01   0.0     0.0 -7828.38     -685.54    506.13     52.29 -9.375e+04 1.220e+05
       -1.365e+05 -9.375e+04 -7.29e-03   0.0   377.0 -6358.08     -685.54    506.13     52.29 9.706e+04 -1.365e+05
29  12 7.636e+04 6.881e+04   -5.95e-03   0.0     0.0 -6227.00     -473.60    358.60     38.20 -6.638e+04 7.636e+04
       -1.022e+05 -6.638e+04 -5.24e-03   0.0   377.0 -5096.00     -473.60    358.60     38.20 6.881e+04 -1.022e+05
29  13 7.729e+04 6.882e+04   -6.81e-03   0.0     0.0 -5052.80     -406.61    359.28     30.91 -6.663e+04 7.729e+04
       -7.600e+04 -6.663e+04 -5.17e-03   0.0   377.0 -3921.80     -406.61    359.28     30.91 6.882e+04 -7.600e+04
29  14 9.544e+04 7.527e+04   -8.65e-03   0.0     0.0 -6299.73     -550.08    392.39     42.29 -7.266e+04 9.544e+04
       -1.119e+05 -7.266e+04 -5.66e-03   0.0   377.0 -5168.73     -550.08    392.39     42.29 7.527e+04 -1.119e+05
29  15 6.427e+04 6.441e+04   -4.97e-03   0.0     0.0 -5003.17     -354.41    336.21     28.12 -6.235e+04 6.427e+04
       -6.935e+04 -6.235e+04 -4.88e-03   0.0   377.0 -3872.17     -354.41    336.21     28.12 6.441e+04 -6.935e+04
29  16 7.032e+04 6.656e+04   -5.58e-03   0.0     0.0 -5418.81     -402.24    347.25     31.92 -6.435e+04 7.032e+04
       -8.133e+04 -6.435e+04 -5.04e-03   0.0   377.0 -4287.81     -402.24    347.25     31.92 6.656e+04 -8.133e+04
29  17 8.244e+04 7.056e+04   -7.54e-03   0.0     0.0 -5072.43     -427.25    368.40     32.02 -6.832e+04 8.244e+04
       -7.863e+04 -6.832e+04 -5.28e-03   0.0   377.0 -3941.43     -427.25    368.40     32.02 7.056e+04 -7.863e+04
29  18 8.849e+04 7.271e+04   -8.15e-03   0.0     0.0 -5488.07     -475.07    379.44     35.81 -7.033e+04 8.849e+04
       -9.061e+04 -7.033e+04 -5.45e-03   0.0   377.0 -4357.07     -475.07    379.44     35.81 7.271e+04 -9.061e+04
29  19 7.636e+04 6.871e+04   -6.20e-03   0.0     0.0 -5834.45     -450.06    358.29     35.71 -6.636e+04 7.636e+04
       -9.331e+04 -6.636e+04 -5.21e-03   0.0   377.0 -4703.45     -450.06    358.29     35.71 6.871e+04 -9.331e+04
29  20 7.699e+04 6.871e+04   -6.77e-03   0.0     0.0 -5051.65     -405.40    358.74     30.85 -6.653e+04 7.699e+04
       -7.585e+04 -6.653e+04 -5.16e-03   0.0   377.0 -3920.65     -405.40    358.74     30.85 6.871e+04 -7.585e+04
29  21 8.909e+04 7.302e+04   -7.99e-03   0.0     0.0 -5882.93     -501.04    380.82     38.43 -7.055e+04 8.909e+04
       -9.981e+04 -7.055e+04 -5.49e-03   0.0   377.0 -4751.93     -501.04    380.82     38.43 7.302e+04 -9.981e+04
29  22 1.462e+04 1.125e+06    9.59e-03   0.0     0.0 -7709.00      -18.03   3968.18   2462.62 -3.710e+05 1.462e+04
        7821.16 -3.710e+05      -2.13   0.0   377.0 -6578.00      -18.03   3968.18   2462.62 1.125e+06    7821.16
29  23 1.355e+05 3.452e+05      -0.02   0.0     0.0 -2279.99     -777.44  -3713.85  -2421.21 3.452e+05 1.355e+05
       -1.575e+05 -1.055e+06    2.13   0.0   377.0 -1148.99     -777.44  -3713.85  -2421.21 -1.055e+06 -1.575e+05
29  24  -7816.17  4346.63       2.02   0.0     0.0 -1.022e+04  -3177.79     64.32    -576.57 -1.990e+04   -7816.17
       -1.206e+06 -1.990e+04  4.15e-03   0.0   377.0 -9093.72   -3177.79     64.32    -576.57  4346.63 -1.206e+06
29  25 1.135e+06 1.236e+05      -1.99   0.0     0.0   306.12    2915.72    606.22    577.44 -1.050e+05 3.601e+04
        3.601e+04 -1.050e+05     -0.01   0.0   377.0  1437.12    2915.72    606.22    577.44 1.236e+05 1.135e+06
29  26 1.804e+04 9.373e+05    8.77e-03   0.0     0.0 -7192.42      -39.71   3604.25   2310.61 -4.215e+05 1.804e+04
        3073.96 -4.215e+05      -1.61   0.0   377.0 -6061.42      -39.71   3604.25   2310.61 9.373e+05    3073.96
29  27 1.319e+05 3.867e+05      -0.02   0.0     0.0 -2846.84     -754.59  -3247.29  -2255.78 3.867e+05 1.319e+05
       -1.525e+05 -8.375e+05    1.61   0.0   377.0 -1715.84     -754.59  -3247.29  -2255.78 -8.375e+05 -1.525e+05
29  28 3.929e+05 2.646e+04       0.80   0.0     0.0 -7259.16    -2581.24    166.81   -188.39 -3.643e+04 3.929e+05
       -5.802e+05 -3.643e+04  4.81e-03   0.0   377.0 -6128.16    -2581.24    166.81   -188.39 2.646e+04 -5.802e+05
29  29 4.502e+05 1.088e+05      -0.82   0.0     0.0 -2772.52     2029.92    539.65    247.45 -9.461e+04 -3.151e+05
       -3.151e+05 -9.461e+04     -0.01   0.0   377.0 -1641.52     2029.92    539.65    247.45 1.088e+05 4.502e+05
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29  30 2.512e+04 1.125e+06     0.02   0.0    0.0  -7848.71    -69.19   4724.04   2933.28 -6.557e+05  2.512e+04
       -961.55 -6.557e+05    -2.08   0.0  377.0  -6717.71    -69.19   4724.04   2933.28  1.125e+06    -961.55
29  31 1.256e+05 6.517e+05    -0.03   0.0    0.0  -2025.20   -730.17  -4712.85  -2937.74  6.517e+05  1.256e+05
     -1.497e+05 -1.125e+06     2.08   0.0  377.0   -894.20   -730.17  -4712.85  -2937.74 -1.125e+06 -1.497e+05
29  32 4.318e+05    7268.55    1.62   0.0    0.0  -9940.66  -4153.18     78.97   -775.18 -2.250e+04  4.318e+05
     -1.134e+06 -2.250e+04 3.93e-03   0.0  377.0  -8809.66  -4153.18     78.97   -775.18    7268.55 -1.134e+06
29  33 1.018e+06 1.210e+05    -1.62   0.0    0.0    -88.71   3715.41    592.95    895.72 -1.026e+05 -3.830e+05
     -3.830e+05 -1.026e+05 -8.93e-03   0.0  377.0   1042.29   3715.41    592.95    895.72  1.210e+05  1.018e+06
29  34 2.512e+04 1.125e+06     0.02   0.0    0.0  -7848.71    -69.19   4724.04   2933.28 -6.557e+05  2.512e+04
       -961.55 -6.557e+05    -2.08   0.0  377.0  -6717.71    -69.19   4724.04   2933.28  1.125e+06    -961.55
29  35 1.256e+05 6.517e+05    -0.03   0.0    0.0  -2025.20   -730.17  -4712.85  -2937.74  6.517e+05  1.256e+05
     -1.497e+05 -1.125e+06     2.08   0.0  377.0   -894.20   -730.17  -4712.85  -2937.74 -1.125e+06 -1.497e+05
29  36 5.580e+05 2.363e+04     1.00   0.0    0.0  -8309.82  -3562.98    155.09   -453.04 -3.484e+04  5.580e+05
     -7.852e+05 -3.484e+04 4.62e-03   0.0  377.0  -7178.82  -3562.98    155.09   -453.04  2.363e+04 -7.852e+05
29  37 6.525e+05 1.098e+05    -1.01   0.0    0.0  -1716.49   3039.09    542.40    493.08 -9.469e+04 -4.932e+05
     -4.932e+05 -9.469e+04 -9.49e-03   0.0  377.0   -585.49   3039.09    542.40    493.08  1.098e+05  6.525e+05
29  38 6.427e+04 6.441e+04 -4.97e-03   0.0    0.0  -5003.17   -354.41    336.21     28.12 -6.235e+04  6.427e+04
     -6.935e+04 -6.235e+04 -4.88e-03   0.0  377.0  -3872.17   -354.41    336.21     28.12  6.441e+04 -6.935e+04
29  39 7.699e+04 6.871e+04 -6.77e-03   0.0    0.0  -5051.65   -405.40    358.74     30.85 -6.653e+04  7.699e+04
     -7.585e+04 -6.653e+04 -5.16e-03   0.0  377.0  -3920.65   -405.40    358.74     30.85  6.871e+04 -7.585e+04
29  40 6.669e+04 6.527e+04 -5.22e-03   0.0    0.0  -5169.42   -373.54    340.63     29.64 -6.315e+04  6.669e+04
     -7.414e+04 -6.315e+04 -4.94e-03   0.0  377.0  -4038.42   -373.54    340.63     29.64  6.527e+04 -7.414e+04
29  41 7.517e+04 6.810e+04 -6.51e-03   0.0    0.0  -5044.72   -398.11    355.52     30.46 -6.593e+04  7.517e+04
     -7.492e+04 -6.593e+04 -5.12e-03   0.0  377.0  -3913.72   -398.11    355.52     30.46  6.810e+04 -7.492e+04
29  42 7.759e+04 6.896e+04 -6.76e-03   0.0    0.0  -5210.98   -417.24    359.94     31.98 -6.674e+04  7.759e+04
     -7.971e+04 -6.674e+04 -5.19e-03   0.0  377.0  -4079.98   -417.24    359.94     31.98  6.896e+04 -7.971e+04
29  43 6.427e+04 6.441e+04 -4.97e-03   0.0    0.0  -5003.17   -354.41    336.21     28.12 -6.235e+04  6.427e+04
     -6.935e+04 -6.235e+04 -4.88e-03   0.0  377.0  -3872.17   -354.41    336.21     28.12  6.441e+04 -6.935e+04
29  44 7.517e+04 6.810e+04 -6.51e-03   0.0    0.0  -5044.72   -398.11    355.52     30.46 -6.593e+04  7.517e+04
     -7.492e+04 -6.593e+04 -5.12e-03   0.0  377.0  -3913.72   -398.11    355.52     30.46  6.810e+04 -7.492e+04
29  45 6.427e+04 6.441e+04 -4.97e-03   0.0    0.0  -5003.17   -354.41    336.21     28.12 -6.235e+04  6.427e+04
     -6.935e+04 -6.235e+04 -4.88e-03   0.0  377.0  -3872.17   -354.41    336.21     28.12  6.441e+04 -6.935e+04
29  46 7.517e+04 6.810e+04 -6.51e-03   0.0    0.0  -5044.72   -398.11    355.52     30.46 -6.593e+04  7.517e+04
     -7.492e+04 -6.593e+04 -5.12e-03   0.0  377.0  -3913.72   -398.11    355.52     30.46  6.810e+04 -7.492e+04
30   1 4.126e+04 5.191e+04    -0.01   0.0    0.0 -1.969e+04    189.42   -170.19     24.64  5.191e+04 -2.977e+04
     -2.977e+04 -1.191e+04 -7.72e-03   0.0  375.0 -1.786e+04    189.42   -170.19     24.64 -1.191e+04  4.126e+04
30   2 3.700e+04 5.211e+04    -0.01   0.0    0.0 -2.098e+04    166.84   -170.52     25.86  5.211e+04 -2.557e+04
     -2.557e+04 -1.184e+04 -7.75e-03   0.0  375.0 -1.915e+04    166.84   -170.52     25.86 -1.184e+04  3.700e+04
30   3 4.438e+04 5.251e+04    -0.02   0.0    0.0 -2.359e+04    181.64   -170.81     36.04  5.251e+04 -2.373e+04
     -2.373e+04 -1.155e+04  7.86e-03   0.0  375.0 -2.176e+04    181.64   -170.81     36.04 -1.155e+04  4.438e+04
30   4 4.012e+04 5.271e+04    -0.02   0.0    0.0 -2.488e+04    159.06   -171.14     37.26  5.271e+04 -1.953e+04
     -1.953e+04 -1.147e+04  7.97e-03   0.0  375.0 -2.305e+04    159.06   -171.14     37.26 -1.147e+04  4.012e+04
30   5 3.094e+04 3.977e+04 -9.20e-03   0.0    0.0 -1.415e+04    147.70   -130.75     16.03  3.977e+04 -2.445e+04
     -2.445e+04   -9258.37 -5.91e-03   0.0  375.0 -1.274e+04    147.70   -130.75     16.03   -9258.37  3.094e+04
30   6 2.667e+04 3.998e+04    -0.01   0.0    0.0 -1.544e+04    125.13   -131.09     17.25  3.998e+04 -2.025e+04
     -2.025e+04   -9180.80 -5.93e-03   0.0  375.0 -1.403e+04    125.13   -131.09     17.25   -9180.80  2.667e+04
30   7 3.406e+04 4.037e+04    -0.01   0.0    0.0 -1.804e+04    139.92   -131.38     27.43  4.037e+04 -1.841e+04
     -1.841e+04   -8892.05  6.04e-03   0.0  375.0 -1.664e+04    139.92   -131.38     27.43   -8892.05  3.406e+04
30   8 2.980e+04 4.058e+04    -0.01   0.0    0.0 -1.934e+04    117.35   -131.71     28.65  4.058e+04 -1.421e+04
     -1.421e+04   -8814.48  6.15e-03   0.0  375.0 -1.793e+04    117.35   -131.71     28.65   -8814.48  2.980e+04
30   9 3.273e+04 5.231e+04    -0.02   0.0    0.0 -2.227e+04    144.27   -170.85     27.07  5.231e+04 -2.137e+04
     -2.137e+04 -1.176e+04  7.81e-03   0.0  375.0 -2.045e+04    144.27   -170.85     27.07 -1.176e+04  3.273e+04
30  10 4.345e+04 5.233e+04    -0.02   0.0    0.0 -2.242e+04    183.97   -170.62     32.62  5.233e+04 -2.554e+04
     -2.554e+04 -1.166e+04 -7.81e-03   0.0  375.0 -2.059e+04    183.97   -170.62     32.62 -1.166e+04  4.345e+04
30  11 3.492e+04 5.273e+04    -0.02   0.0    0.0 -2.500e+04    138.82   -171.29     35.06  5.273e+04 -1.714e+04
     -1.714e+04 -1.150e+04  8.00e-03   0.0  375.0 -2.317e+04    138.82   -171.29     35.06 -1.150e+04  3.492e+04
30  12 2.241e+04 4.018e+04    -0.01   0.0    0.0 -1.673e+04    102.55   -131.42     18.46  4.018e+04 -1.605e+04
     -1.605e+04   -9103.23  5.99e-03   0.0  375.0 -1.532e+04    102.55   -131.42     18.46   -9103.23  2.241e+04
30  13 3.312e+04 4.019e+04    -0.01   0.0    0.0 -1.688e+04    142.25   -131.19     24.01  4.019e+04 -2.022e+04
     -2.022e+04   -9001.95 -5.99e-03   0.0  375.0 -1.547e+04    142.25   -131.19     24.01   -9001.95  3.312e+04
30  14 2.460e+04 4.060e+04    -0.02   0.0    0.0 -1.946e+04     97.11   -131.85     26.45  4.060e+04 -1.181e+04
     -1.181e+04   -8846.81  6.18e-03   0.0  375.0 -1.805e+04     97.11   -131.85     26.45   -8846.81  2.460e+04
30  15 3.163e+04 3.991e+04 -9.95e-03   0.0    0.0 -1.501e+04    145.97   -130.89     18.56  3.991e+04 -2.311e+04
     -2.311e+04   -9176.96 -5.93e-03   0.0  375.0 -1.361e+04    145.97   -130.89     18.56   -9176.96  3.163e+04
30  16 2.879e+04 4.004e+04    -0.01   0.0    0.0 -1.587e+04    130.92   -131.11     19.38  4.004e+04 -2.031e+04
     -2.031e+04   -9125.25 -5.95e-03   0.0  375.0 -1.447e+04    130.92   -131.11     19.38   -9125.25  2.879e+04
30  17 3.371e+04 4.031e+04    -0.01   0.0    0.0 -1.761e+04    140.78   -131.31     26.17  4.031e+04 -1.908e+04
     -1.908e+04   -8932.75 -6.02e-03   0.0  375.0 -1.621e+04    140.78   -131.31     26.17   -8932.75  3.371e+04
30  18 3.087e+04 4.044e+04    -0.01   0.0    0.0 -1.847e+04    125.73   -131.53     26.98  4.044e+04 -1.628e+04
     -1.628e+04   -8881.04  6.08e-03   0.0  375.0 -1.707e+04    125.73   -131.53     26.98   -8881.04  3.087e+04
30  19 2.595e+04 4.018e+04    -0.01   0.0    0.0 -1.674e+04    115.87   -131.33     20.19  4.018e+04 -1.750e+04
     -1.750e+04   -9073.54  5.97e-03   0.0  375.0 -1.533e+04    115.87   -131.33     20.19   -9073.54  2.595e+04
30  20 3.309e+04 4.019e+04    -0.01   0.0    0.0 -1.683e+04    142.34   -131.18     23.89  4.019e+04 -2.029e+04
     -2.029e+04   -9006.02 -5.99e-03   0.0  375.0 -1.543e+04    142.34   -131.18     23.89   -9006.02  3.309e+04
30  21 2.741e+04 4.046e+04    -0.01   0.0    0.0 -1.855e+04    112.24   -131.62     25.51  4.046e+04 -1.468e+04
     -1.468e+04   -8902.59  6.10e-03   0.0  375.0 -1.715e+04    112.24   -131.62     25.51   -8902.59  2.741e+04
30  22 1.152e+05 5.527e+05     0.01   0.0    0.0 -1.831e+04    616.19   4892.24   5512.16 -1.282e+06 -1.159e+05
```

		-1.159e+05	-1.282e+06	-2.89	0.0	375.0	-1.691e+04	616.19	4892.24	5512.16	5.527e+05	1.152e+05
30	23	7.362e+04	1.282e+06	-0.03	0.0	0.0	-1.482e+04	-326.09	-4930.91	-5458.10	1.282e+06	7.362e+04
		-4.866e+04	-5.670e+05	2.91	0.0	375.0	-1.342e+04	-326.09	-4930.91	-5458.10	-5.670e+05	-4.866e+04
30	24	2.259e+06	9.578e+04	2.69	0.0	0.0	-1.601e+04	-1.115e+04	-338.35	-1898.05	9.578e+04	2.259e+06
		-1.923e+06	-3.110e+04	-0.01	0.0	375.0	-1.460e+04	-1.115e+04	-338.35	-1898.05	-3.110e+04	-1.923e+06
30	25	1.925e+06	1.419e+04	-2.65	0.0	0.0	-1.652e+04	1.116e+04	91.41	1853.66	-2.008e+04	-2.259e+06
		-2.259e+06	-2.008e+04	2.29e-03	0.0	375.0	-1.511e+04	1.116e+04	91.41	1853.66	1.419e+04	1.925e+06
30	26	1.113e+05	4.689e+05	0.01	0.0	0.0	-1.821e+04	593.70	4664.60	5463.93	-1.280e+06	-1.114e+05
		-1.114e+05	-1.280e+06	-2.06	0.0	375.0	-1.680e+04	593.70	4664.60	5463.93	4.689e+05	1.113e+05
30	27	6.880e+04	1.280e+06	-0.03	0.0	0.0	-1.493e+04	-302.12	-4704.91	-5428.70	1.280e+06	6.880e+04
		-4.449e+04	-4.839e+05	2.07	0.0	375.0	-1.352e+04	-302.12	-4704.91	-5428.70	-4.839e+05	-4.449e+04
30	28	1.775e+06	8.433e+04	0.81	0.0	0.0	-1.750e+04	-8411.03	-294.99	-824.14	8.433e+04	1.775e+06
		-1.379e+06	-2.629e+04	-0.01	0.0	375.0	-1.609e+04	-8411.03	-294.99	-824.14	-2.629e+04	-1.379e+06
30	29	1.496e+06	8279.17	-0.83	0.0	0.0	-1.647e+04	8910.20	33.91	854.79	-4437.00	-1.846e+06
		-1.846e+06	-4437.00	1.05e-03	0.0	375.0	-1.506e+04	8910.20	33.91	854.79	8279.17	1.496e+06
30	30	1.251e+05	2.577e+05	0.01	0.0	0.0	-1.831e+04	667.87	4100.27	5407.34	-1.280e+06	-1.253e+05
		-1.253e+05	-1.280e+06	-1.98	0.0	375.0	-1.690e+04	667.87	4100.27	5407.34	2.577e+05	1.251e+05
30	31	8.483e+04	1.280e+06	-0.03	0.0	0.0	-1.480e+04	-386.51	-4134.85	-5309.54	1.280e+06	8.483e+04
		-6.011e+04	-2.705e+05	1.99	0.0	375.0	-1.340e+04	-386.51	-4134.85	-5309.54	-2.705e+05	-6.011e+04
30	32	2.256e+06	9.538e+04	1.63	0.0	0.0	-1.645e+04	-9903.59	-337.33	-1657.02	9.538e+04	2.256e+06
		-1.457e+06	-3.112e+04	-0.01	0.0	375.0	-1.504e+04	-9903.59	-337.33	-1657.02	-3.112e+04	-1.457e+06
30	33	1.466e+06	1.440e+04	-1.63	0.0	0.0	-1.606e+04	9925.98	91.99	1631.00	-2.010e+04	-2.257e+06
		-2.257e+06	-2.010e+04	2.19e-03	0.0	375.0	-1.465e+04	9925.98	91.99	1631.00	1.440e+04	1.466e+06
30	34	1.251e+05	2.577e+05	0.01	0.0	0.0	-1.831e+04	667.87	4100.27	5407.34	-1.280e+06	-1.253e+05
		-1.253e+05	-1.280e+06	-1.98	0.0	375.0	-1.690e+04	667.87	4100.27	5407.34	2.577e+05	1.251e+05
30	35	8.483e+04	1.280e+06	-0.03	0.0	0.0	-1.480e+04	-386.51	-4134.85	-5309.54	1.280e+06	8.483e+04
		-6.011e+04	-2.705e+05	1.99	0.0	375.0	-1.340e+04	-386.51	-4134.85	-5309.54	-2.705e+05	-6.011e+04
30	36	1.832e+06	8.893e+04	0.87	0.0	0.0	-1.725e+04	-8407.92	-312.51	-810.81	8.893e+04	1.832e+06
		-1.321e+06	-2.826e+04	-0.01	0.0	375.0	-1.585e+04	-8407.92	-312.51	-810.81	-2.826e+04	-1.321e+06
30	37	1.433e+06	9929.76	-0.89	0.0	0.0	-1.637e+04	8844.17	48.98	804.11	-8437.50	-1.883e+06
		-1.883e+06	-8437.50	-4.86e-04	0.0	375.0	-1.496e+04	8844.17	48.98	804.11	9929.76	1.433e+06
30	38	3.163e+04	3.991e+04	-9.95e-03	0.0	0.0	-1.501e+04	145.97	-130.89	18.56	3.991e+04	-2.311e+04
		-2.311e+04	-9176.96	-5.93e-03	0.0	375.0	-1.361e+04	145.97	-130.89	18.56	-9176.96	3.163e+04
30	39	3.309e+04	4.019e+04	-0.01	0.0	0.0	-1.683e+04	142.34	-131.18	23.89	4.019e+04	-2.029e+04
		-2.029e+04	-9006.02	-5.99e-03	0.0	375.0	-1.543e+04	142.34	-131.18	23.89	-9006.02	3.309e+04
30	40	3.049e+04	3.996e+04	-0.01	0.0	0.0	-1.536e+04	139.95	-130.98	18.89	3.996e+04	-2.199e+04
		-2.199e+04	-9156.28	-5.94e-03	0.0	375.0	-1.395e+04	139.95	-130.98	18.89	-9156.28	3.049e+04
30	41	3.288e+04	4.015e+04	-0.01	0.0	0.0	-1.657e+04	142.86	-131.14	23.13	4.015e+04	-2.069e+04
		-2.069e+04	-9030.44	-5.98e-03	0.0	375.0	-1.517e+04	142.86	-131.14	23.13	-9030.44	3.288e+04
30	42	3.174e+04	4.020e+04	-0.01	0.0	0.0	-1.692e+04	136.84	-131.23	23.45	4.020e+04	-1.957e+04
		-1.957e+04	-9009.75	-5.99e-03	0.0	375.0	-1.551e+04	136.84	-131.23	23.45	-9009.75	3.174e+04
30	43	3.163e+04	3.991e+04	-9.95e-03	0.0	0.0	-1.501e+04	145.97	-130.89	18.56	3.991e+04	-2.311e+04
		-2.311e+04	-9176.96	-5.93e-03	0.0	375.0	-1.361e+04	145.97	-130.89	18.56	-9176.96	3.163e+04
30	44	3.288e+04	4.015e+04	-0.01	0.0	0.0	-1.657e+04	142.86	-131.14	23.13	4.015e+04	-2.069e+04
		-2.069e+04	-9030.44	-5.98e-03	0.0	375.0	-1.517e+04	142.86	-131.14	23.13	-9030.44	3.288e+04
30	45	3.163e+04	3.991e+04	-9.95e-03	0.0	0.0	-1.501e+04	145.97	-130.89	18.56	3.991e+04	-2.311e+04
		-2.311e+04	-9176.96	-5.93e-03	0.0	375.0	-1.361e+04	145.97	-130.89	18.56	-9176.96	3.163e+04
30	46	3.288e+04	4.015e+04	-0.01	0.0	0.0	-1.657e+04	142.86	-131.14	23.13	4.015e+04	-2.069e+04
		-2.069e+04	-9030.44	-5.98e-03	0.0	375.0	-1.517e+04	142.86	-131.14	23.13	-9030.44	3.288e+04
31	1	2.300e+04	1.832e+04	-6.73e-03	0.0	0.0	-8961.93	108.32	112.34	47.61	-2.404e+04	-1.784e+04
		-1.784e+04	-2.404e+04	3.17e-03	0.0	377.0	-7491.63	108.32	112.34	47.61	1.832e+04	2.300e+04
31	2	2.339e+04	1.899e+04	-7.64e-03	0.0	0.0	-1.029e+04	104.31	115.50	53.30	-2.456e+04	-1.594e+04
		-1.594e+04	-2.456e+04	3.19e-03	0.0	377.0	-8818.99	104.31	115.50	53.30	1.899e+04	2.339e+04
31	3	1.935e+04	2.016e+04	-0.01	0.0	0.0	-8924.62	103.45	121.19	53.42	-2.552e+04	-1.965e+04
		-1.965e+04	-2.552e+04	3.26e-03	0.0	377.0	-7454.32	103.45	121.19	53.42	2.016e+04	1.935e+04
31	4	1.974e+04	2.083e+04	-0.01	0.0	0.0	-1.025e+04	99.44	124.34	59.11	-2.604e+04	-1.775e+04
		-1.775e+04	-2.604e+04	3.28e-03	0.0	377.0	-8781.69	99.44	124.34	59.11	2.083e+04	1.974e+04
31	5	1.863e+04	1.361e+04	-4.43e-03	0.0	0.0	-6903.36	84.58	84.15	35.13	-1.811e+04	-1.326e+04
		-1.326e+04	-1.811e+04	2.42e-03	0.0	377.0	-5772.36	84.58	84.15	35.13	1.361e+04	1.863e+04
31	6	1.902e+04	1.428e+04	-5.34e-03	0.0	0.0	-8230.72	80.56	87.30	40.82	-1.863e+04	-1.135e+04
		-1.135e+04	-1.863e+04	2.43e-03	0.0	377.0	-7099.72	80.56	87.30	40.82	1.428e+04	1.902e+04
31	7	1.498e+04	1.546e+04	-7.75e-03	0.0	0.0	-6866.05	79.70	93.00	40.94	-1.960e+04	-1.507e+04
		-1.507e+04	-1.960e+04	2.51e-03	0.0	377.0	-5735.05	79.70	93.00	40.94	1.546e+04	1.498e+04
31	8	1.537e+04	1.613e+04	-8.62e-03	0.0	0.0	-8193.42	75.69	96.15	46.63	-2.012e+04	-1.317e+04
		-1.317e+04	-2.012e+04	2.53e-03	0.0	377.0	-7062.42	75.69	96.15	46.63	1.613e+04	1.537e+04
31	9	2.378e+04	1.965e+04	-8.56e-03	0.0	0.0	-1.162e+04	100.30	118.65	58.99	-2.508e+04	-1.403e+04
		-1.403e+04	-2.508e+04	3.21e-03	0.0	377.0	-1.015e+04	100.30	118.65	58.99	1.965e+04	2.378e+04
31	10	2.044e+04	1.961e+04	-9.04e-03	0.0	0.0	-8935.81	104.91	118.53	51.68	-2.508e+04	-1.911e+04
		-1.911e+04	-2.508e+04	3.24e-03	0.0	377.0	-7465.51	104.91	118.53	51.68	1.961e+04	2.044e+04
31	11	2.122e+04	2.095e+04	-0.01	0.0	0.0	-1.159e+04	96.89	124.85	63.06	-2.612e+04	-1.530e+04
		-1.530e+04	-2.612e+04	3.27e-03	0.0	377.0	-1.012e+04	96.89	124.85	63.06	2.095e+04	2.122e+04
31	12	1.941e+04	1.495e+04	-6.26e-03	0.0	0.0	-9558.09	76.55	90.46	46.52	-1.915e+04	-9450.98
		-9450.98	-1.915e+04	2.45e-03	0.0	377.0	-8427.09	76.55	90.46	46.52	1.495e+04	1.941e+04
31	13	1.607e+04	1.491e+04	-6.60e-03	0.0	0.0	-6877.24	81.16	90.34	39.20	-1.915e+04	-1.453e+04
		-1.453e+04	-1.915e+04	2.48e-03	0.0	377.0	-5746.24	81.16	90.34	39.20	1.491e+04	1.607e+04
31	14	1.685e+04	1.625e+04	-8.40e-03	0.0	0.0	-9531.97	73.14	96.65	50.58	-2.019e+04	-1.072e+04
		-1.072e+04	-2.019e+04	2.52e-03	0.0	377.0	-8400.97	73.14	96.65	50.58	1.625e+04	1.685e+04

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31      15 1.782e+04  1.403e+04  -5.08e-03      0.0      0.0  -6895.07       83.49       86.11       36.42 -1.844e+04 -1.366e+04
          -1.366e+04 -1.844e+04   2.44e-03      0.0    377.0  -5764.07       83.49       86.11       36.42  1.403e+04  1.782e+04
31      16 1.808e+04  1.447e+04  -5.69e-03      0.0      0.0  -7779.98       80.82       88.22       40.22 -1.879e+04 -1.239e+04
          -1.239e+04 -1.879e+04   2.45e-03      0.0    377.0  -6648.98       80.82       88.22       40.22  1.447e+04  1.808e+04
31      17 1.538e+04  1.526e+04  -7.32e-03      0.0      0.0  -6870.20       80.24       92.01       40.30 -1.943e+04 -1.487e+04
          -1.487e+04 -1.943e+04   2.50e-03      0.0    377.0  -5739.20       80.24       92.01       40.30  1.526e+04  1.538e+04
31      18 1.564e+04  1.570e+04  -7.90e-03      0.0      0.0  -7755.11       77.57       94.12       44.09 -1.978e+04 -1.360e+04
          -1.360e+04 -1.978e+04   2.51e-03      0.0    377.0  -6624.11       77.57       94.12       44.09  1.570e+04  1.564e+04
31      19 1.834e+04  1.492e+04  -6.30e-03      0.0      0.0  -8664.89       78.14       90.32       44.01 -1.913e+04 -1.112e+04
          -1.112e+04 -1.913e+04   2.46e-03      0.0    377.0  -7533.89       78.14       90.32       44.01  1.492e+04  1.834e+04
31      20 1.611e+04  1.489e+04  -6.57e-03      0.0      0.0  -6877.66       81.22       90.24       39.14 -1.913e+04 -1.451e+04
          -1.451e+04 -1.913e+04   2.48e-03      0.0    377.0  -5746.66       81.22       90.24       39.14  1.489e+04  1.611e+04
31      21 1.663e+04  1.578e+04  -7.76e-03      0.0      0.0  -8647.48       75.87       94.45       46.72 -1.983e+04 -1.197e+04
          -1.197e+04 -1.983e+04   2.50e-03      0.0    377.0  -7516.48       75.87       94.45       46.72  1.578e+04  1.663e+04
31      22 8.516e+04  3.912e+05   9.19e-03      0.0      0.0  -7454.03      426.58     -358.20     2437.86  3.912e+05 -7.566e+04
          -7.566e+04  2.561e+05      -2.15      0.0    377.0  -6323.03      426.58     -358.20     2437.86  2.561e+05  8.516e+04
31      23 4.640e+04 -2.246e+05      -0.02      0.0      0.0  -6303.86     -260.93      473.27    -2391.18 -4.031e+05  4.640e+04
          -5.197e+04 -4.031e+05       2.14      0.0    377.0  -5172.86     -260.93      473.27    -2391.18 -2.246e+05 -5.197e+04
31      24 4.867e+05    6824.80       2.02      0.0      0.0  -6426.21    -5478.02       79.07     -422.95 -2.299e+04  4.867e+05
          -1.579e+06 -2.299e+04   5.23e-03      0.0    377.0  -5295.21    -5478.02       79.07     -422.95    6824.80 -1.579e+06
31      25 1.579e+06  2.095e+04      -1.99      0.0      0.0  -7025.91     5472.55       89.96      458.21 -1.297e+04 -4.846e+05
          -4.846e+05 -1.297e+04  -2.05e-03      0.0    377.0  -5894.91     5472.55       89.96      458.21  2.095e+04  1.579e+06
31      26 8.124e+04  2.989e+05   8.41e-03      0.0      0.0  -7416.59      407.27     -284.98     2290.10  2.989e+05 -7.230e+04
          -7.230e+04  1.915e+05      -1.63      0.0    377.0  -6285.59      407.27     -284.98     2290.10  1.915e+05  8.124e+04
31      27 4.285e+04 -1.628e+05      -0.02      0.0      0.0  -6343.03     -240.44      387.61    -2227.65 -3.089e+05  4.285e+04
          -4.780e+04 -3.089e+05       1.63      0.0    377.0  -5212.03     -240.44      387.61    -2227.65 -1.628e+05 -4.780e+04
31      28 6.359e+05  1.005e+04       0.80      0.0      0.0  -7277.13    -3754.76       88.61      -68.70 -2.336e+04  6.359e+05
          -7.797e+05 -2.336e+04   4.89e-03      0.0    377.0  -6146.13    -3754.76       88.61      -68.70  1.005e+04 -7.797e+05
31      29 8.290e+05  1.930e+04      -0.82      0.0      0.0  -6438.94     4035.67       89.71      146.73 -1.452e+04 -6.925e+05
          -6.925e+05 -1.452e+04  -1.85e-03      0.0    377.0  -5307.94     4035.67       89.71      146.73  1.930e+04  8.290e+05
31      30 7.389e+04  2.911e+05       0.02      0.0      0.0  -7444.89      365.13      524.29     2995.60  9.345e+04 -6.376e+04
          -6.376e+04  9.345e+04      -2.09      0.0    377.0  -6313.89      365.13      524.29     2995.60  2.911e+05  7.389e+04
31      31 3.512e+04 -1.094e+05      -0.03      0.0      0.0  -6305.55     -203.17     -381.87    -2993.42 -1.094e+05  3.512e+04
          -4.148e+04 -2.534e+05       2.09      0.0    377.0  -5174.55     -203.17     -381.87    -2993.42 -2.534e+05 -4.148e+04
31      32 9.504e+05    7243.97       1.62      0.0      0.0  -6869.59    -6707.49       81.16     -447.99 -2.335e+04  9.504e+05
          -1.578e+06 -2.335e+04   5.16e-03      0.0    377.0  -5738.59    -6707.49       81.16     -447.99    7243.97 -1.578e+06
31      33 1.578e+06  2.057e+04      -1.62      0.0      0.0  -6564.85     6685.33       87.77      574.64 -1.252e+04 -9.420e+05
          -9.420e+05 -1.252e+04   2.22e-03      0.0    377.0  -5433.85     6685.33       87.77      574.64  2.057e+04  1.578e+06
31      34 7.389e+04  2.911e+05       0.02      0.0      0.0  -7444.89      365.13      524.29     2995.60  9.345e+04 -6.376e+04
          -6.376e+04  9.345e+04      -2.09      0.0    377.0  -6313.89      365.13      524.29     2995.60  2.911e+05  7.389e+04
31      35 3.512e+04 -1.094e+05      -0.03      0.0      0.0  -6305.55     -203.17     -381.87    -2993.42 -1.094e+05  3.512e+04
          -4.148e+04 -2.534e+05       2.09      0.0    377.0  -5174.55     -203.17     -381.87    -2993.42 -2.534e+05 -4.148e+04
31      36 8.783e+05    9753.93       1.00      0.0      0.0  -7039.43    -5146.41       89.75     -172.09 -2.408e+04  8.783e+05
          -1.062e+06 -2.408e+04   5.05e-03      0.0    377.0  -5908.43    -5146.41       89.75     -172.09    9753.93 -1.062e+06
31      37 1.098e+06  1.930e+04      -1.01      0.0      0.0  -6740.61     5377.27       87.55      239.72 -1.370e+04 -9.289e+05
          -9.289e+05 -1.370e+04  -1.73e-03      0.0    377.0  -5609.61     5377.27       87.55      239.72  1.930e+04  1.098e+06
31      38 1.782e+04  1.403e+04  -5.08e-03      0.0      0.0  -6895.07       83.49       86.11       36.42 -1.844e+04 -1.366e+04
          -1.366e+04 -1.844e+04   2.44e-03      0.0    377.0  -5764.07       83.49       86.11       36.42  1.403e+04  1.782e+04
31      39 1.611e+04  1.489e+04  -6.57e-03      0.0      0.0  -6877.66       81.22       90.24       39.14 -1.913e+04 -1.451e+04
          -1.451e+04 -1.913e+04   2.48e-03      0.0    377.0  -5746.66       81.22       90.24       39.14  1.489e+04  1.611e+04
31      40 1.792e+04  1.420e+04  -5.32e-03      0.0      0.0  -7249.03       82.42       86.95       37.94 -1.858e+04 -1.315e+04
          -1.315e+04 -1.858e+04   2.44e-03      0.0    377.0  -6118.03       82.42       86.95       37.94  1.420e+04  1.792e+04
31      41 1.636e+04  1.476e+04  -6.35e-03      0.0      0.0  -6880.14       81.54       89.65       38.75 -1.903e+04 -1.439e+04
          -1.439e+04 -1.903e+04   2.47e-03      0.0    377.0  -5749.14       81.54       89.65       38.75  1.476e+04  1.636e+04
31      42 1.646e+04  1.494e+04  -6.58e-03      0.0      0.0  -7234.11       80.47       90.49       40.27 -1.917e+04 -1.388e+04
          -1.388e+04 -1.917e+04   2.48e-03      0.0    377.0  -6103.11       80.47       90.49       40.27  1.494e+04  1.646e+04
31      43 1.782e+04  1.403e+04  -5.08e-03      0.0      0.0  -6895.07       83.49       86.11       36.42 -1.844e+04 -1.366e+04
          -1.366e+04 -1.844e+04   2.44e-03      0.0    377.0  -5764.07       83.49       86.11       36.42  1.403e+04  1.782e+04
31      44 1.636e+04  1.476e+04  -6.35e-03      0.0      0.0  -6880.14       81.54       89.65       38.75 -1.903e+04 -1.439e+04
          -1.439e+04 -1.903e+04   2.47e-03      0.0    377.0  -5749.14       81.54       89.65       38.75  1.476e+04  1.636e+04
31      45 1.782e+04  1.403e+04  -5.08e-03      0.0      0.0  -6895.07       83.49       86.11       36.42 -1.844e+04 -1.366e+04
          -1.366e+04 -1.844e+04   2.44e-03      0.0    377.0  -5764.07       83.49       86.11       36.42  1.403e+04  1.782e+04
31      46 1.636e+04  1.476e+04  -6.35e-03      0.0      0.0  -6880.14       81.54       89.65       38.75 -1.903e+04 -1.439e+04
          -1.439e+04 -1.903e+04   2.47e-03      0.0    377.0  -5749.14       81.54       89.65       38.75  1.476e+04  1.636e+04
32       1 1.371e+04  4.884e+04      -0.01      0.0      0.0 -2.365e+04     -218.42     -159.96       11.20  4.884e+04  1.371e+04
          -6.820e+04 -1.114e+04  -7.26e-03      0.0    375.0 -2.182e+04     -218.42     -159.96       11.20 -1.114e+04 -6.820e+04
32       2   5020.02  4.881e+04      -0.02      0.0      0.0 -2.529e+04     -172.61     -159.49       15.25  4.881e+04    5020.02
          -5.971e+04 -1.100e+04   7.28e-03      0.0    375.0 -2.346e+04     -172.61     -159.49       15.25 -1.100e+04 -5.971e+04
32       3 1.764e+04  4.880e+04      -0.02      0.0      0.0 -2.848e+04     -310.80     -158.32       15.03  4.880e+04  1.764e+04
          -9.891e+04 -1.057e+04   7.38e-03      0.0    375.0 -2.666e+04     -310.80     -158.32       15.03 -1.057e+04 -9.891e+04
32       4   8949.03  4.877e+04      -0.02      0.0      0.0 -3.012e+04     -264.99     -157.85       19.08  4.877e+04    8949.03
          -9.042e+04 -1.042e+04   7.46e-03      0.0    375.0 -2.830e+04     -264.99     -157.85       19.08 -1.042e+04 -9.042e+04
32       5   9538.14  3.758e+04  -9.49e-03      0.0      0.0 -1.695e+04     -144.33     -123.47        7.63  3.758e+04    9538.14
          -4.458e+04   -8717.51  -5.57e-03      0.0    375.0 -1.554e+04     -144.33     -123.47        7.63   -8717.51 -4.458e+04
32       6    848.91  3.755e+04      -0.01      0.0      0.0 -1.859e+04      -98.51     -122.99       11.68  3.755e+04     848.91
          -3.609e+04   -8572.06   5.58e-03      0.0    375.0 -1.718e+04      -98.51     -122.99       11.68   -8572.06 -3.609e+04
32       7 1.347e+04  3.754e+04      -0.01      0.0      0.0 -2.179e+04     -236.71     -121.83       11.47  3.754e+04  1.347e+04
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         -7.530e+04   -8145.63   5.67e-03    0.0   375.0 -2.038e+04    -236.71   -121.83      11.47  -8145.63 -7.530e+04
32    8   4777.91  3.751e+04      -0.02    0.0     0.0 -2.343e+04    -190.90   -121.35      15.51 3.751e+04    4777.91
         -6.681e+04   -8000.18   5.75e-03    0.0   375.0 -2.202e+04    -190.90   -121.35      15.51  -8000.18 -6.681e+04
32    9  -3669.21  4.878e+04      -0.02    0.0     0.0 -2.693e+04    -126.80   -159.01      19.29 4.878e+04   -3669.21
         -5.122e+04 -1.085e+04   7.36e-03    0.0   375.0 -2.510e+04    -126.80   -159.01      19.29 -1.085e+04 -5.122e+04
32   10  1.646e+04  4.881e+04      -0.02    0.0     0.0 -2.703e+04    -283.09   -158.81      13.88 4.881e+04  1.646e+04
         -8.970e+04 -1.074e+04   7.32e-03    0.0   375.0 -2.521e+04    -283.09   -158.81      13.88 -1.074e+04 -8.970e+04
32   11   -918.91  4.875e+04      -0.02    0.0     0.0 -3.031e+04    -191.47   -157.86      21.98 4.875e+04    -918.91
         -7.272e+04 -1.045e+04   7.49e-03    0.0   375.0 -2.849e+04    -191.47   -157.86      21.98 -1.045e+04 -7.272e+04
32   12  -7840.32  3.752e+04      -0.01    0.0     0.0 -2.023e+04     -52.70   -122.52      15.72 3.752e+04   -7840.32
         -2.760e+04   -8426.60   5.66e-03    0.0   375.0 -1.882e+04     -52.70   -122.52      15.72  -8426.60 -2.760e+04
32   13  1.229e+04  3.755e+04      -0.01    0.0     0.0 -2.034e+04    -208.99   -122.32      10.32 3.755e+04  1.229e+04
         -6.608e+04   -8317.20   5.62e-03    0.0   375.0 -1.893e+04    -208.99   -122.32      10.32  -8317.20 -6.608e+04
32   14  -5090.02  3.749e+04      -0.02    0.0     0.0 -2.362e+04    -117.37   -121.37      18.41 3.749e+04   -5090.02
         -4.910e+04   -8026.29   5.78e-03    0.0   375.0 -2.221e+04    -117.37   -121.37      18.41  -8026.29 -4.910e+04
32   15  1.041e+04  3.757e+04      -0.01    0.0     0.0 -1.802e+04    -164.86   -123.11       8.48 3.757e+04  1.041e+04
         -5.141e+04   -8590.43  -5.58e-03    0.0   375.0 -1.662e+04    -164.86   -123.11       8.48  -8590.43 -5.141e+04
32   16   4618.43  3.755e+04      -0.01    0.0     0.0 -1.912e+04    -134.31   -122.79      11.18 3.755e+04    4618.43
         -4.575e+04   -8493.46   5.59e-03    0.0   375.0 -1.771e+04    -134.31   -122.79      11.18  -8493.46 -4.575e+04
32   17  1.303e+04  3.754e+04      -0.01    0.0     0.0 -2.125e+04    -226.45   -122.01      11.04 3.754e+04  1.303e+04
         -7.189e+04   -8209.18   5.65e-03    0.0   375.0 -1.984e+04    -226.45   -122.01      11.04  -8209.18 -7.189e+04
32   18   7237.77  3.752e+04      -0.01    0.0     0.0 -2.234e+04    -195.90   -121.69      13.74 3.752e+04    7237.77
         -6.623e+04   -8112.21   5.71e-03    0.0   375.0 -2.094e+04    -195.90   -121.69      13.74  -8112.21 -6.623e+04
32   19  -1174.39  3.753e+04      -0.01    0.0     0.0 -2.021e+04    -103.77   -122.47      13.88 3.753e+04   -1174.39
         -4.009e+04   -8396.49   5.64e-03    0.0   375.0 -1.881e+04    -103.77   -122.47      13.88  -8396.49 -4.009e+04
32   20  1.224e+04  3.755e+04      -0.01    0.0     0.0 -2.028e+04    -207.97   -122.34      10.27 3.755e+04  1.224e+04
         -6.574e+04   -8323.55   5.62e-03    0.0   375.0 -1.888e+04    -207.97   -122.34      10.27  -8323.55 -6.574e+04
32   21    659.15  3.751e+04      -0.02    0.0     0.0 -2.247e+04    -146.89   -121.70      15.67 3.751e+04     659.15
         -5.442e+04   -8129.61   5.72e-03    0.0   375.0 -2.106e+04    -146.89   -121.70      15.67  -8129.61 -5.442e+04
32   22  1.773e+05  5.612e+05       0.02    0.0     0.0 -2.151e+04   -1037.83   5010.89    3258.72 -1.318e+06  1.773e+05
         -2.119e+05 -1.318e+06      -2.91    0.0   375.0 -2.010e+04   -1037.83   5010.89    3258.72 5.612e+05 -2.119e+05
32   23  8.701e+04  1.318e+06      -0.04    0.0     0.0 -1.840e+04     648.77  -5046.90   -3210.93 1.318e+06 -1.563e+05
         -1.563e+05 -5.745e+05       2.92    0.0   375.0 -1.699e+04     648.77  -5046.90   -3210.93 -5.745e+05  8.701e+04
32   24  2.313e+06   9144.43       2.70    0.0     0.0 -1.710e+04 -1.133e+04      38.01   -1876.84  -5110.36  2.313e+06
         -1.935e+06   -5110.36   1.47e-03    0.0   375.0 -1.570e+04 -1.133e+04      38.01   -1876.84   9144.43 -1.935e+06
32   25  1.937e+06  7.345e+04      -2.66    0.0     0.0 -2.244e+04  1.133e+04    -259.03    1854.86 7.345e+04 -2.313e+06
         -2.313e+06 -2.368e+04      -0.01    0.0   375.0 -2.104e+04  1.133e+04    -259.03    1854.86 -2.368e+04  1.937e+06
32   26  1.679e+05  4.749e+05       0.02    0.0     0.0 -2.143e+04    -990.91   4776.45    2907.14 -1.316e+06  1.679e+05
         -2.037e+05 -1.316e+06      -2.08    0.0   375.0 -2.002e+04    -990.91   4776.45    2907.14 4.749e+05 -2.037e+05
32   27  7.827e+04  1.316e+06      -0.04    0.0     0.0 -1.848e+04     599.21  -4814.64   -2845.63 1.316e+06 -1.464e+05
         -1.464e+05 -4.891e+05       2.09    0.0   375.0 -1.708e+04     599.21  -4814.64   -2845.63 -4.891e+05  7.827e+04
32   28  1.960e+06   9714.68       0.81    0.0     0.0 -1.689e+04   -9253.40     -16.60    -831.86   9714.68  1.960e+06
         -1.510e+06    3490.08   2.51e-03    0.0   375.0 -1.548e+04   -9253.40     -16.60    -831.86   3490.08 -1.510e+06
32   29  1.361e+06  6.506e+04      -0.85    0.0     0.0 -2.243e+04    8831.61    -227.34     864.87 6.506e+04 -1.951e+06
         -1.951e+06 -2.019e+04  -8.84e-03    0.0   375.0 -2.102e+04    8831.61    -227.34     864.87 -2.019e+04  1.361e+06
32   30  1.693e+05  2.648e+05       0.02    0.0     0.0 -2.151e+04    -993.32   4215.14    2744.67 -1.316e+06  1.693e+05
         -2.032e+05 -1.316e+06      -2.00    0.0   375.0 -2.011e+04    -993.32   4215.14    2744.67 2.648e+05 -2.032e+05
32   31  7.956e+04  1.316e+06      -0.04    0.0     0.0 -1.838e+04     611.70  -4248.22   -2712.29 1.316e+06 -1.498e+05
         -1.498e+05 -2.771e+05       2.01    0.0   375.0 -1.697e+04     611.70  -4248.22   -2712.29 -2.771e+05  7.956e+04
32   32  2.311e+06   8959.11       1.64    0.0     0.0 -1.658e+04 -1.008e+04      36.15   -1635.43  -4596.31  2.311e+06
         -1.469e+06   -4596.31   1.44e-03    0.0   375.0 -1.518e+04 -1.008e+04      36.15   -1635.43   8959.11 -1.469e+06
32   33  1.477e+06  7.243e+04      -1.65    0.0     0.0 -2.251e+04  1.010e+04    -255.68    1642.27 7.243e+04 -2.311e+06
         -2.311e+06 -2.345e+04  -9.97e-03    0.0   375.0 -2.110e+04  1.010e+04    -255.68    1642.27 -2.345e+04  1.477e+06
32   34  1.693e+05  2.648e+05       0.02    0.0     0.0 -2.151e+04    -993.32   4215.14    2744.67 -1.316e+06  1.693e+05
         -2.032e+05 -1.316e+06      -2.00    0.0   375.0 -2.011e+04    -993.32   4215.14    2744.67 2.648e+05 -2.032e+05
32   35  7.956e+04  1.316e+06      -0.04    0.0     0.0 -1.838e+04     611.70  -4248.22   -2712.29 1.316e+06 -1.498e+05
         -1.498e+05 -2.771e+05       2.01    0.0   375.0 -1.697e+04     611.70  -4248.22   -2712.29 -2.771e+05  7.956e+04
32   36  2.028e+06   6970.98       0.88    0.0     0.0 -1.667e+04   -9278.12      -6.04    -822.91   6970.98  2.028e+06
         -1.451e+06    4707.16   2.19e-03    0.0   375.0 -1.527e+04   -9278.12      -6.04    -822.91   4707.16 -1.451e+06
32   37  1.282e+06  6.676e+04      -0.90    0.0     0.0 -2.265e+04    8722.79    -234.05     822.88 6.676e+04 -1.989e+06
         -1.989e+06 -2.101e+04  -9.02e-03    0.0   375.0 -2.124e+04    8722.79    -234.05     822.88 -2.101e+04  1.282e+06
32   38  1.041e+04  3.757e+04      -0.01    0.0     0.0 -1.802e+04    -164.86   -123.11       8.48 3.757e+04  1.041e+04
         -5.141e+04   -8590.43  -5.58e-03    0.0   375.0 -1.662e+04    -164.86   -123.11       8.48  -8590.43 -5.141e+04
32   39  1.224e+04  3.755e+04      -0.01    0.0     0.0 -2.028e+04    -207.97   -122.34      10.27 3.755e+04  1.224e+04
         -6.574e+04   -8323.55   5.62e-03    0.0   375.0 -1.888e+04    -207.97   -122.34      10.27  -8323.55 -6.574e+04
32   40   8094.13  3.757e+04      -0.01    0.0     0.0 -1.846e+04    -152.64   -122.98       9.56 3.757e+04    8094.13
         -4.915e+04   -8551.64  -5.58e-03    0.0   375.0 -1.706e+04    -152.64   -122.98       9.56  -8551.64 -4.915e+04
32   41  1.198e+04  3.756e+04      -0.01    0.0     0.0 -1.996e+04    -201.81   -122.45      10.02 3.756e+04  1.198e+04
         -6.370e+04   -8361.68   5.60e-03    0.0   375.0 -1.855e+04    -201.81   -122.45      10.02  -8361.68 -6.370e+04
32   42   9665.73  3.755e+04      -0.01    0.0     0.0 -2.040e+04    -189.59   -122.32      11.10 3.755e+04    9665.73
         -6.143e+04   -8322.89   5.63e-03    0.0   375.0 -1.899e+04    -189.59   -122.32      11.10  -8322.89 -6.143e+04
32   43  1.041e+04  3.757e+04      -0.01    0.0     0.0 -1.802e+04    -164.86   -123.11       8.48 3.757e+04  1.041e+04
         -5.141e+04   -8590.43  -5.58e-03    0.0   375.0 -1.662e+04    -164.86   -123.11       8.48  -8590.43 -5.141e+04
32   44  1.198e+04  3.756e+04      -0.01    0.0     0.0 -1.996e+04    -201.81   -122.45      10.02 3.756e+04  1.198e+04
         -6.370e+04   -8361.68   5.60e-03    0.0   375.0 -1.855e+04    -201.81   -122.45      10.02  -8361.68 -6.370e+04
32   45  1.041e+04  3.757e+04      -0.01    0.0     0.0 -1.802e+04    -164.86   -123.11       8.48 3.757e+04  1.041e+04
         -5.141e+04   -8590.43  -5.58e-03    0.0   375.0 -1.662e+04    -164.86   -123.11       8.48  -8590.43 -5.141e+04
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32	46	1.198e+04	3.756e+04	-0.01	0.0	0.0	-1.996e+04	-201.81	-122.45	10.02	3.756e+04	1.198e+04
		-6.370e+04	-8361.68	5.60e-03	0.0	375.0	-1.855e+04	-201.81	-122.45	10.02	-8361.68	-6.370e+04
33	1	8.650e+04	1.665e+04	-6.09e-03	0.0	0.0	-1.091e+04	-483.79	103.79	-13.39	-2.248e+04	8.650e+04
		-9.589e+04	-2.248e+04	3.04e-03	0.0	377.0	-9439.68	-483.79	103.79	-13.39	1.665e+04	-9.589e+04
33	2	9.113e+04	1.729e+04	-6.93e-03	0.0	0.0	-1.261e+04	-525.51	106.70	-15.56	-2.294e+04	9.113e+04
		-1.070e+05	-2.294e+04	3.04e-03	0.0	377.0	-1.114e+04	-525.51	106.70	-15.56	1.729e+04	-1.070e+05
33	3	1.033e+05	1.840e+04	-9.95e-03	0.0	0.0	-1.082e+04	-536.64	111.86	-16.55	-2.378e+04	1.033e+05
		-9.900e+04	-2.378e+04	3.10e-03	0.0	377.0	-9352.87	-536.64	111.86	-16.55	1.840e+04	-9.900e+04
33	4	1.079e+05	1.903e+04	-0.01	0.0	0.0	-1.252e+04	-578.37	114.77	-18.72	-2.423e+04	1.079e+05
		-1.101e+05	-2.423e+04	3.10e-03	0.0	377.0	-1.105e+04	-578.37	114.77	-18.72	1.903e+04	-1.101e+05
33	5	6.222e+04	1.236e+04	-3.70e-03	0.0	0.0	-8414.56	-358.59	77.77	-9.49	-1.696e+04	6.222e+04
		-7.296e+04	-1.696e+04	2.32e-03	0.0	377.0	-7283.56	-358.59	77.77	-9.49	1.236e+04	-7.296e+04
33	6	6.685e+04	1.300e+04	-4.53e-03	0.0	0.0	-1.011e+04	-400.32	80.68	-11.66	-1.742e+04	6.685e+04
		-8.407e+04	-1.742e+04	2.33e-03	0.0	377.0	-8980.41	-400.32	80.68	-11.66	1.300e+04	-8.407e+04
33	7	7.904e+04	1.411e+04	-7.55e-03	0.0	0.0	-8327.74	-411.45	85.84	-12.65	-1.826e+04	7.904e+04
		-7.607e+04	-1.826e+04	2.38e-03	0.0	377.0	-7196.74	-411.45	85.84	-12.65	1.411e+04	-7.607e+04
33	8	8.367e+04	1.474e+04	-8.39e-03	0.0	0.0	-1.002e+04	-453.18	88.75	-14.82	-1.871e+04	8.367e+04
		-8.718e+04	-1.871e+04	2.38e-03	0.0	377.0	-8893.59	-453.18	88.75	-14.82	1.474e+04	-8.718e+04
33	9	9.575e+04	1.793e+04	-7.77e-03	0.0	0.0	-1.430e+04	-567.24	109.61	-17.73	-2.340e+04	9.575e+04
		-1.181e+05	-2.340e+04	3.05e-03	0.0	377.0	-1.283e+04	-567.24	109.61	-17.73	1.793e+04	-1.181e+05
33	10	9.827e+04	1.787e+04	-8.79e-03	0.0	0.0	-1.085e+04	-520.79	109.44	-15.60	-2.339e+04	9.827e+04
		-9.806e+04	-2.339e+04	3.08e-03	0.0	377.0	-9378.91	-520.79	109.44	-15.60	1.787e+04	-9.806e+04
33	11	1.075e+05	1.915e+04	-0.01	0.0	0.0	-1.424e+04	-604.24	115.26	-19.94	-2.430e+04	1.075e+05
		-1.203e+05	-2.430e+04	3.09e-03	0.0	377.0	-1.277e+04	-604.24	115.26	-19.94	1.915e+04	-1.203e+05
33	12	7.148e+04	1.364e+04	-5.37e-03	0.0	0.0	-1.181e+04	-442.05	83.59	-13.83	-1.788e+04	7.148e+04
		-9.517e+04	-1.788e+04	2.33e-03	0.0	377.0	-1.068e+04	-442.05	83.59	-13.83	1.364e+04	-9.517e+04
33	13	7.400e+04	1.358e+04	-6.40e-03	0.0	0.0	-8353.78	-395.59	83.42	-11.70	-1.787e+04	7.400e+04
		-7.514e+04	-1.787e+04	2.36e-03	0.0	377.0	-7222.78	-395.59	83.42	-11.70	1.358e+04	-7.514e+04
33	14	8.325e+04	1.486e+04	-8.07e-03	0.0	0.0	-1.175e+04	-479.05	89.24	-16.04	-1.878e+04	8.325e+04
		-9.735e+04	-1.878e+04	2.37e-03	0.0	377.0	-1.062e+04	-479.05	89.24	-16.04	1.486e+04	-9.735e+04
33	15	6.596e+04	1.275e+04	-4.55e-03	0.0	0.0	-8395.26	-370.34	79.56	-10.19	-1.725e+04	6.596e+04
		-7.365e+04	-1.725e+04	2.33e-03	0.0	377.0	-7264.26	-370.34	79.56	-10.19	1.275e+04	-7.365e+04
33	16	6.905e+04	1.317e+04	-5.11e-03	0.0	0.0	-9526.50	-398.16	81.50	-11.64	-1.755e+04	6.905e+04
		-8.106e+04	-1.755e+04	2.34e-03	0.0	377.0	-8395.50	-398.16	81.50	-11.64	1.317e+04	-8.106e+04
33	17	7.718e+04	1.391e+04	-7.12e-03	0.0	0.0	-8337.39	-405.57	84.94	-12.30	-1.811e+04	7.718e+04
		-7.573e+04	-1.811e+04	2.37e-03	0.0	377.0	-7206.39	-405.57	84.94	-12.30	1.391e+04	-7.573e+04
33	18	8.026e+04	1.434e+04	-7.68e-03	0.0	0.0	-9468.62	-433.39	86.88	-13.74	-1.842e+04	8.026e+04
		-8.313e+04	-1.842e+04	2.38e-03	0.0	377.0	-8337.62	-433.39	86.88	-13.74	1.434e+04	-8.313e+04
33	19	7.213e+04	1.360e+04	-5.67e-03	0.0	0.0	-1.066e+04	-425.97	83.44	-13.09	-1.786e+04	7.213e+04
		-8.846e+04	-1.786e+04	2.34e-03	0.0	377.0	-9526.73	-425.97	83.44	-13.09	1.360e+04	-8.846e+04
33	20	7.381e+04	1.356e+04	-6.35e-03	0.0	0.0	-8354.75	-395.00	83.33	-11.66	-1.785e+04	7.381e+04
		-7.510e+04	-1.785e+04	2.36e-03	0.0	377.0	-7223.75	-395.00	83.33	-11.66	1.356e+04	-7.510e+04
33	21	7.998e+04	1.441e+04	-7.47e-03	0.0	0.0	-1.062e+04	-450.64	87.21	-14.56	-1.846e+04	7.998e+04
		-8.991e+04	-1.846e+04	2.37e-03	0.0	377.0	-9486.21	-450.64	87.21	-14.56	1.441e+04	-8.991e+04
33	22	1.144e+05	4.217e+05	0.01	0.0	0.0	-8886.26	-644.10	-524.33	305.80	4.217e+05	1.144e+05
		-1.284e+05	2.241e+05	-2.15	0.0	377.0	-7755.26	-644.10	-524.33	305.80	2.241e+05	-1.284e+05
33	23	2.981e+04	-1.937e+05	-0.02	0.0	0.0	-7829.49	-132.17	636.04	-301.48	-4.334e+05	2.981e+04
		-2.001e+04	-4.334e+05	2.15	0.0	377.0	-6698.49	-132.17	636.04	-301.48	-1.937e+05	-2.001e+04
33	24	4.744e+05	1.700e+04	2.02	0.0	0.0	-8096.75	-5499.63	81.85	-467.23	-1.386e+04	4.744e+05
		-1.599e+06	-1.386e+04	1.14e-03	0.0	377.0	-6965.75	-5499.63	81.85	-467.23	1.700e+04	-1.599e+06
33	25	1.599e+06	8792.03	-1.99	0.0	0.0	-9591.41	5493.06	75.38	416.95	-1.962e+04	-4.722e+05
		-4.722e+05	-1.962e+04	3.87e-03	0.0	377.0	-8460.41	5493.06	75.38	416.95	8792.03	1.599e+06
33	26	1.122e+05	3.280e+05	0.01	0.0	0.0	-8858.48	-629.88	-429.78	300.10	3.280e+05	1.122e+05
		-1.253e+05	1.659e+05	-1.63	0.0	377.0	-7727.48	-629.88	-429.78	300.10	1.659e+05	-1.253e+05
33	27	3.220e+04	-1.390e+05	-0.02	0.0	0.0	-7859.55	-147.13	526.05	-323.00	-3.373e+05	3.220e+04
		-2.327e+04	-3.373e+05	1.63	0.0	377.0	-6728.55	-147.13	526.05	-323.00	-1.390e+05	-2.327e+04
33	28	7.159e+05	1.651e+04	0.80	0.0	0.0	-7752.68	-4322.93	85.88	-115.36	-1.586e+04	7.159e+05
		-9.139e+05	-1.586e+04	1.26e-03	0.0	377.0	-6621.68	-4322.93	85.88	-115.36	1.651e+04	-9.139e+05
33	29	7.684e+05	1.023e+04	-0.82	0.0	0.0	-9141.03	3515.46	78.93	93.56	-1.952e+04	-5.569e+05
		-5.569e+05	-1.952e+04	3.59e-03	0.0	377.0	-8010.03	3515.46	78.93	93.56	1.023e+04	7.684e+05
33	30	1.270e+05	2.567e+05	0.02	0.0	0.0	-8889.08	-709.40	353.62	941.01	1.234e+05	1.270e+05
		-1.404e+05	1.234e+05	-2.10	0.0	377.0	-7758.08	-709.40	353.62	941.01	2.567e+05	-1.404e+05
33	31	1.659e+04	-1.382e+05	-0.03	0.0	0.0	-7819.50	-63.09	-220.40	-906.13	-1.382e+05	1.659e+04
		-7191.30	-2.212e+05	2.10	0.0	377.0	-6688.50	-63.09	-220.40	-906.13	-2.212e+05	-7191.30
33	32	9.386e+05	1.683e+04	1.62	0.0	0.0	-7574.24	-6730.29	81.31	-490.26	-1.382e+04	9.386e+05
		-1.599e+06	-1.382e+04	1.12e-03	0.0	377.0	-6443.24	-6730.29	81.31	-490.26	1.683e+04	-1.599e+06
33	33	1.598e+06	8837.32	-1.62	0.0	0.0	-9655.65	6707.76	75.32	517.45	-1.956e+04	-9.304e+05
		-9.304e+05	-1.956e+04	3.76e-03	0.0	377.0	-8524.65	6707.76	75.32	517.45	8837.32	1.598e+06
33	34	1.270e+05	2.567e+05	0.02	0.0	0.0	-8889.08	-709.40	353.62	941.01	1.234e+05	1.270e+05
		-1.404e+05	1.234e+05	-2.10	0.0	377.0	-7758.08	-709.40	353.62	941.01	2.567e+05	-1.404e+05
33	35	1.659e+04	-1.382e+05	-0.03	0.0	0.0	-7819.50	-63.09	-220.40	-906.13	-1.382e+05	1.659e+04
		-7191.30	-2.212e+05	2.10	0.0	377.0	-6688.50	-63.09	-220.40	-906.13	-2.212e+05	-7191.30
33	36	9.552e+05	1.673e+04	1.01	0.0	0.0	-7748.40	-5709.71	85.73	-209.01	-1.559e+04	9.552e+05
		-1.197e+06	-1.559e+04	1.18e-03	0.0	377.0	-6617.40	-5709.71	85.73	-209.01	1.673e+04	-1.197e+06
33	37	1.032e+06	1.004e+04	-1.01	0.0	0.0	-9157.59	4813.02	78.74	177.04	-1.964e+04	-7.821e+05
		-7.821e+05	-1.964e+04	3.65e-03	0.0	377.0	-8026.59	4813.02	78.74	177.04	1.004e+04	1.032e+06
33	38	6.596e+04	1.275e+04	-4.55e-03	0.0	0.0	-8395.26	-370.34	79.56	-10.19	-1.725e+04	6.596e+04

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     -7.365e+04 -1.725e+04   2.33e-03    0.0   377.0  -7264.26    -370.34       79.56      -10.19 1.275e+04 -7.365e+04
33  39 7.381e+04 1.356e+04  -6.35e-03    0.0     0.0  -8354.75    -395.00       83.33      -11.66 -1.785e+04 7.381e+04
     -7.510e+04 -1.785e+04   2.36e-03    0.0   377.0  -7223.75    -395.00       83.33      -11.66 1.356e+04 -7.510e+04
33  40 6.720e+04 1.292e+04  -4.78e-03    0.0     0.0  -8847.76    -381.46       80.34      -10.77 -1.737e+04 6.720e+04
     -7.662e+04 -1.737e+04   2.34e-03    0.0   377.0  -7716.76    -381.46       80.34      -10.77 1.292e+04 -7.662e+04
33  41 7.269e+04 1.345e+04  -6.10e-03    0.0     0.0  -8360.54    -391.48       82.79      -11.45 -1.777e+04 7.269e+04
     -7.490e+04 -1.777e+04   2.36e-03    0.0   377.0  -7229.54    -391.48       82.79      -11.45 1.345e+04 -7.490e+04
33  42 7.392e+04 1.362e+04  -6.32e-03    0.0     0.0  -8813.03    -402.61       83.57      -12.03 -1.789e+04 7.392e+04
     -7.786e+04 -1.789e+04   2.36e-03    0.0   377.0  -7682.03    -402.61       83.57      -12.03 1.362e+04 -7.786e+04
33  43 6.596e+04 1.275e+04  -4.55e-03    0.0     0.0  -8395.26    -370.34       79.56      -10.19 -1.725e+04 6.596e+04
     -7.365e+04 -1.725e+04   2.33e-03    0.0   377.0  -7264.26    -370.34       79.56      -10.19 1.275e+04 -7.365e+04
33  44 7.269e+04 1.345e+04  -6.10e-03    0.0     0.0  -8360.54    -391.48       82.79      -11.45 -1.777e+04 7.269e+04
     -7.490e+04 -1.777e+04   2.36e-03    0.0   377.0  -7229.54    -391.48       82.79      -11.45 1.345e+04 -7.490e+04
33  45 6.596e+04 1.275e+04  -4.55e-03    0.0     0.0  -8395.26    -370.34       79.56      -10.19 -1.725e+04 6.596e+04
     -7.365e+04 -1.725e+04   2.33e-03    0.0   377.0  -7264.26    -370.34       79.56      -10.19 1.275e+04 -7.365e+04
33  46 7.269e+04 1.345e+04  -6.10e-03    0.0     0.0  -8360.54    -391.48       82.79      -11.45 -1.777e+04 7.269e+04
     -7.490e+04 -1.777e+04   2.36e-03    0.0   377.0  -7229.54    -391.48       82.79      -11.45 1.345e+04 -7.490e+04
34   1 1.167e+05 4.457e+04     -0.02     0.0     0.0 -1.676e+04    183.82      -49.18       29.64 4.457e+04 4.778e+04
      4.778e+04 2.612e+04     -0.01     0.0   375.0 -1.493e+04    183.82      -49.18       29.64 2.612e+04 1.167e+05
34   2 1.156e+05 4.509e+04     -0.02     0.0     0.0 -1.766e+04    188.63      -46.12       41.93 4.509e+04 4.483e+04
      4.483e+04 2.779e+04     -0.01     0.0   375.0 -1.583e+04    188.63      -46.12       41.93 2.779e+04 1.156e+05
34   3 2.113e+05 4.582e+04     -0.03     0.0     0.0 -1.950e+04    529.42      -37.79       19.63 4.582e+04 1.272e+04
      1.272e+04 3.164e+04     -0.01     0.0   375.0 -1.767e+04    529.42      -37.79       19.63 3.164e+04 2.113e+05
34   4 2.101e+05 4.634e+04     -0.03     0.0     0.0 -2.040e+04    534.23      -34.73       31.93 4.634e+04    9770.30
      9770.30 3.331e+04     -0.01     0.0   375.0 -1.857e+04    534.23      -34.73       31.93 3.331e+04 2.101e+05
34   5 6.554e+04 3.396e+04     -0.01     0.0     0.0 -1.219e+04     52.78      -40.75       25.37 3.396e+04 4.575e+04
      4.575e+04 1.868e+04  -9.90e-03    0.0   375.0 -1.078e+04     52.78      -40.75       25.37 1.868e+04 6.554e+04
34   6 6.440e+04 3.448e+04     -0.01     0.0     0.0 -1.309e+04     57.60      -37.69       37.66 3.448e+04 4.280e+04
      4.280e+04 2.035e+04     -0.01     0.0   375.0 -1.168e+04     57.60      -37.69       37.66 2.035e+04 6.440e+04
34   7 1.601e+05 3.521e+04     -0.02     0.0     0.0 -1.493e+04    398.38      -29.36       15.36 3.521e+04 1.068e+04
      1.068e+04 2.420e+04     -0.01     0.0   375.0 -1.352e+04    398.38      -29.36       15.36 2.420e+04 1.601e+05
34   8 1.589e+05 3.573e+04     -0.02     0.0     0.0 -1.583e+04    403.20      -26.30       27.65 3.573e+04    7734.41
      7734.41 2.587e+04     -0.01     0.0   375.0 -1.442e+04    403.20      -26.30       27.65 2.587e+04 1.589e+05
34   9 1.144e+05 4.561e+04     -0.02     0.0     0.0 -1.855e+04    193.45      -43.06       54.23 4.561e+04 4.189e+04
      4.189e+04 2.947e+04     -0.01     0.0   375.0 -1.672e+04    193.45      -43.06       54.23 2.947e+04 1.144e+05
34  10 1.829e+05 4.544e+04     -0.02     0.0     0.0 -1.868e+04    425.74      -41.21       22.63 4.544e+04 2.324e+04
      2.324e+04 2.999e+04     -0.01     0.0   375.0 -1.685e+04    425.74      -41.21       22.63 2.999e+04 1.829e+05
34  11 1.806e+05 4.649e+04     -0.03     0.0     0.0 -2.047e+04    435.37      -35.09       47.22 4.649e+04 1.734e+04
      1.734e+04 3.333e+04     -0.01     0.0   375.0 -1.864e+04    435.37      -35.09       47.22 3.333e+04 1.806e+05
34  12 6.325e+04 3.501e+04     -0.01     0.0     0.0 -1.398e+04     62.41      -34.63       49.96 3.501e+04 3.985e+04
      3.985e+04 2.202e+04     -0.01     0.0   375.0 -1.257e+04     62.41      -34.63       49.96 2.202e+04 6.325e+04
34  13 1.317e+05 3.484e+04     -0.02     0.0     0.0 -1.411e+04    294.70      -32.78       18.36 3.484e+04 2.120e+04
      2.120e+04 2.254e+04     -0.01     0.0   375.0 -1.270e+04    294.70      -32.78       18.36 2.254e+04 1.317e+05
34  14 1.294e+05 3.588e+04     -0.02     0.0     0.0 -1.590e+04    304.33      -26.66       42.95 3.588e+04 1.531e+04
      1.531e+04 2.589e+04     -0.01     0.0   375.0 -1.449e+04    304.33      -26.66       42.95 2.589e+04 1.294e+05
34  15 8.655e+04 3.424e+04     -0.01     0.0     0.0 -1.280e+04    129.58      -38.22       23.14 3.424e+04 3.795e+04
      3.795e+04 1.991e+04     -0.01     0.0   375.0 -1.139e+04    129.58      -38.22       23.14 1.991e+04 8.655e+04
34  16 8.579e+04 3.459e+04     -0.01     0.0     0.0 -1.340e+04    132.79      -36.18       31.34 3.459e+04 3.599e+04
      3.599e+04 2.102e+04     -0.01     0.0   375.0 -1.199e+04    132.79      -36.18       31.34 2.102e+04 8.579e+04
34  17 1.496e+05 3.507e+04     -0.02     0.0     0.0 -1.463e+04    359.98      -30.63       16.47 3.507e+04 1.458e+04
      1.458e+04 2.359e+04     -0.01     0.0   375.0 -1.322e+04    359.98      -30.63       16.47 2.359e+04 1.496e+05
34  18 1.488e+05 3.542e+04     -0.02     0.0     0.0 -1.522e+04    363.19      -28.59       24.67 3.542e+04 1.261e+04
      1.261e+04 2.470e+04     -0.01     0.0   375.0 -1.382e+04    363.19      -28.59       24.67 2.470e+04 1.488e+05
34  19 8.502e+04 3.494e+04     -0.02     0.0     0.0 -1.399e+04    136.00      -34.14       39.54 3.494e+04 3.402e+04
      3.402e+04 2.213e+04     -0.01     0.0   375.0 -1.259e+04    136.00      -34.14       39.54 2.213e+04 8.502e+04
34  20 1.307e+05 3.482e+04     -0.02     0.0     0.0 -1.408e+04    290.86      -32.91       18.47 3.482e+04 2.159e+04
      2.159e+04 2.248e+04     -0.01     0.0   375.0 -1.267e+04    290.86      -32.91       18.47 2.248e+04 1.307e+05
34  21 1.291e+05 3.552e+04     -0.02     0.0     0.0 -1.527e+04    297.28      -28.82       34.86 3.552e+04 1.766e+04
      1.766e+04 2.471e+04     -0.01     0.0   375.0 -1.387e+04    297.28      -28.82       34.86 2.471e+04 1.291e+05
34  22 3.521e+05 9.698e+05      0.03     0.0     0.0 -2.013e+04  -1159.72     5929.00     1709.84 -1.254e+06 3.521e+05
     -8.282e+04 -1.254e+06     -2.91     0.0   375.0 -1.873e+04  -1159.72     5929.00     1709.84 9.698e+05 -8.282e+04
34  23 3.338e+05 1.254e+06     -0.05     0.0     0.0  -7522.95    1710.20    -5985.69    -1645.55 1.254e+06 -3.075e+05
     -3.075e+05 -9.908e+05      2.93     0.0   375.0  -6116.70    1710.20    -5985.69    -1645.55 -9.908e+05 3.338e+05
34  24 2.212e+06 1.426e+05      2.68     0.0     0.0  -4804.35   -9217.53      785.72    -3162.24 -1.521e+05 2.212e+06
     -1.245e+06 -1.521e+05     -0.01     0.0   375.0  -3398.10   -9217.53      785.72    -3162.24 1.426e+05 -1.245e+06
34  25 1.224e+06 2.270e+05     -2.64     0.0     0.0 -2.323e+04    9160.75     -880.00     3189.07 2.270e+05 -2.212e+06
     -2.212e+06 -1.030e+05     -0.03     0.0   375.0 -2.182e+04    9160.75     -880.00     3189.07 -1.030e+05 1.224e+06
34  26 3.355e+05 9.050e+05      0.03     0.0     0.0 -1.964e+04  -1086.77     5752.06     1324.65 -1.252e+06 3.355e+05
     -7.203e+04 -1.252e+06     -2.08     0.0   375.0 -1.824e+04  -1086.77     5752.06     1324.65 9.050e+05 -7.203e+04
34  27 3.223e+05 1.252e+06     -0.05     0.0     0.0  -8049.77    1632.73    -5840.12    -1243.22 1.252e+06 -2.899e+05
     -2.899e+05 -9.377e+05      2.09     0.0   375.0  -6643.52    1632.73    -5840.12    -1243.22 -9.377e+05 3.223e+05
34  28 1.519e+06 1.126e+05      0.81     0.0     0.0  -7619.61   -6122.82      577.71    -1697.62 -1.041e+05 1.519e+06
     -7.775e+05 -1.041e+05     -0.01     0.0   375.0  -6213.36   -6122.82      577.71    -1697.62 1.126e+05 -7.775e+05
34  29 8.074e+05 1.736e+05     -0.83     0.0     0.0 -2.022e+04    5919.61     -646.45     1791.91 1.736e+05 -1.412e+06
     -1.412e+06 -6.884e+04     -0.02     0.0   375.0 -1.881e+04    5919.61     -646.45     1791.91 -6.884e+04 8.074e+05
34  30 3.450e+05 6.772e+05      0.03     0.0     0.0 -2.013e+04  -1118.14     5143.46     1241.70 -1.252e+06 3.450e+05
     -7.428e+04 -1.252e+06     -2.00     0.0   375.0 -1.873e+04  -1118.14     5143.46     1241.70 6.772e+05 -7.428e+04
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34	31	3.274e+05	1.252e+06	-0.05	0.0	0.0	-7400.69	1683.23	-5161.37	-1194.57 1.252e+06	-3.038e+05
		-3.038e+05	-6.836e+05	2.01	0.0	375.0	-5994.44	1683.23	-5161.37	-1194.57 -6.836e+05	3.274e+05
34	32	2.210e+06	1.406e+05	1.62	0.0	0.0	-5160.01	-8088.33	771.07	-2612.24 -1.485e+05	2.210e+06
		-8.233e+05	-1.485e+05	-0.01	0.0	375.0	-3753.76	-8088.33	771.07	-2612.24 1.406e+05	-8.233e+05
34	33	7.659e+05	2.266e+05	-1.62	0.0	0.0	-2.322e+04	7934.47	-880.44	2637.99 2.266e+05	-2.210e+06
		-2.210e+06	-1.036e+05	-0.03	0.0	375.0	-2.182e+04	7934.47	-880.44	2637.99 -1.036e+05	7.659e+05
34	34	3.450e+05	6.772e+05	0.03	0.0	0.0	-2.013e+04	-1118.14	5143.46	1241.70 -1.252e+06	3.450e+05
		-7.428e+04	-1.252e+06	-2.00	0.0	375.0	-1.873e+04	-1118.14	5143.46	1241.70 6.772e+05	-7.428e+04
34	35	3.274e+05	1.252e+06	-0.05	0.0	0.0	-7400.69	1683.23	-5161.37	-1194.57 1.252e+06	-3.038e+05
		-3.038e+05	-6.836e+05	2.01	0.0	375.0	-5994.44	1683.23	-5161.37	-1194.57 -6.836e+05	3.274e+05
34	36	1.573e+06	1.220e+05	0.87	0.0	0.0	-6502.77	-6111.07	640.39	-1556.39 -1.181e+05	1.573e+06
		-7.184e+05	-1.181e+05	-0.01	0.0	375.0	-5096.52	-6111.07	640.39	-1556.39 1.220e+05	-7.184e+05
34	37	6.503e+05	1.846e+05	-0.88	0.0	0.0	-2.126e+04	5501.90	-695.60	1589.05 1.846e+05	-1.413e+06
		-1.413e+06	-7.627e+04	-0.02	0.0	375.0	-1.985e+04	5501.90	-695.60	1589.05 -7.627e+04	6.503e+05
34	38	8.655e+04	3.424e+04	-0.01	0.0	0.0	-1.280e+04	129.58	-38.22	23.14 3.424e+04	3.795e+04
		3.795e+04	1.991e+04	-0.01	0.0	375.0	-1.139e+04	129.58	-38.22	23.14 1.991e+04	8.655e+04
34	39	1.307e+05	3.482e+04	-0.02	0.0	0.0	-1.408e+04	290.86	-32.91	18.47 3.482e+04	2.159e+04
		2.159e+04	2.248e+04	-0.01	0.0	375.0	-1.267e+04	290.86	-32.91	18.47 2.248e+04	1.307e+05
34	40	8.624e+04	3.438e+04	-0.01	0.0	0.0	-1.304e+04	130.87	-37.40	26.42 3.438e+04	3.717e+04
		3.717e+04	2.035e+04	-0.01	0.0	375.0	-1.163e+04	130.87	-37.40	26.42 2.035e+04	8.624e+04
34	41	1.244e+05	3.474e+04	-0.02	0.0	0.0	-1.390e+04	267.82	-33.67	19.14 3.474e+04	2.393e+04
		2.393e+04	2.211e+04	-0.01	0.0	375.0	-1.249e+04	267.82	-33.67	19.14 2.211e+04	1.244e+05
34	42	1.241e+05	3.488e+04	-0.02	0.0	0.0	-1.413e+04	269.11	-32.85	22.42 3.488e+04	2.314e+04
		2.314e+04	2.256e+04	-0.01	0.0	375.0	-1.273e+04	269.11	-32.85	22.42 2.256e+04	1.241e+05
34	43	8.655e+04	3.424e+04	-0.01	0.0	0.0	-1.280e+04	129.58	-38.22	23.14 3.424e+04	3.795e+04
		3.795e+04	1.991e+04	-0.01	0.0	375.0	-1.139e+04	129.58	-38.22	23.14 1.991e+04	8.655e+04
34	44	1.244e+05	3.474e+04	-0.02	0.0	0.0	-1.390e+04	267.82	-33.67	19.14 3.474e+04	2.393e+04
		2.393e+04	2.211e+04	-0.01	0.0	375.0	-1.249e+04	267.82	-33.67	19.14 2.211e+04	1.244e+05
34	45	8.655e+04	3.424e+04	-0.01	0.0	0.0	-1.280e+04	129.58	-38.22	23.14 3.424e+04	3.795e+04
		3.795e+04	1.991e+04	-0.01	0.0	375.0	-1.139e+04	129.58	-38.22	23.14 1.991e+04	8.655e+04
34	46	1.244e+05	3.474e+04	-0.02	0.0	0.0	-1.390e+04	267.82	-33.67	19.14 3.474e+04	2.393e+04
		2.393e+04	2.211e+04	-0.01	0.0	375.0	-1.249e+04	267.82	-33.67	19.14 2.211e+04	1.244e+05
35	1	1.744e+05	9.268e+04	-0.01	0.0	0.0	-7701.27	874.22	482.15	-52.32 -8.909e+04	-1.552e+05
		-1.552e+05	-8.909e+04	-7.20e-03	0.0	377.0	-6230.97	874.22	482.15	-52.32 9.268e+04	1.744e+05
35	2	2.063e+05	9.651e+04	-0.02	0.0	0.0	-8529.59	992.73	501.72	-61.45 -9.264e+04	-1.679e+05
		-1.679e+05	-9.264e+04	-7.50e-03	0.0	377.0	-7059.29	992.73	501.72	-61.45 9.651e+04	2.063e+05
35	3	1.939e+05	1.037e+05	-0.01	0.0	0.0	-7813.63	1058.91	539.60	-57.09 -9.975e+04	-2.053e+05
		-2.053e+05	-9.975e+04	-7.95e-03	0.0	377.0	-6343.33	1058.91	539.60	-57.09 1.037e+05	1.939e+05
35	4	2.258e+05	1.075e+05	-0.02	0.0	0.0	-8641.94	1177.41	559.16	-66.22 -1.033e+05	-2.181e+05
		-2.181e+05	-1.033e+05	-8.25e-03	0.0	377.0	-7171.64	1177.41	559.16	-66.22 1.075e+05	2.258e+05
35	5	1.292e+05	6.847e+04	-0.01	0.0	0.0	-5895.25	625.13	356.16	-39.02 -6.580e+04	-1.065e+05
		-1.065e+05	-6.580e+04	-5.34e-03	0.0	377.0	-4764.25	625.13	356.16	-39.02 6.847e+04	1.292e+05
35	6	1.611e+05	7.230e+04	-0.01	0.0	0.0	-6723.56	743.63	375.72	-48.15 -6.935e+04	-1.192e+05
		-1.192e+05	-6.935e+04	-5.64e-03	0.0	377.0	-5592.56	743.63	375.72	-48.15 7.230e+04	1.611e+05
35	7	1.486e+05	7.947e+04	-0.01	0.0	0.0	-6007.60	809.81	413.60	-43.79 -7.646e+04	-1.567e+05
		-1.567e+05	-7.646e+04	-6.10e-03	0.0	377.0	-4876.60	809.81	413.60	-43.79 7.947e+04	1.486e+05
35	8	1.806e+05	8.330e+04	-0.01	0.0	0.0	-6835.91	928.31	433.17	-52.92 -8.000e+04	-1.694e+05
		-1.694e+05	-8.000e+04	-6.40e-03	0.0	377.0	-5704.91	928.31	433.17	-52.92 8.330e+04	1.806e+05
35	9	2.383e+05	1.003e+05	-0.02	0.0	0.0	-9357.90	1111.23	521.29	-70.58 -9.618e+04	-1.807e+05
		-1.807e+05	-9.618e+04	-7.80e-03	0.0	377.0	-7887.60	1111.23	521.29	-70.58 1.003e+05	2.383e+05
35	10	1.880e+05	1.004e+05	-0.01	0.0	0.0	-7779.92	1003.50	522.37	-55.66 -9.655e+04	-1.903e+05
		-1.903e+05	-9.655e+04	-7.72e-03	0.0	377.0	-6309.62	1003.50	522.37	-55.66 1.004e+05	1.880e+05
35	11	2.519e+05	1.080e+05	-0.02	0.0	0.0	-9436.55	1240.50	561.50	-73.92 -1.036e+05	-2.158e+05
		-2.158e+05	-1.036e+05	-8.33e-03	0.0	377.0	-7966.25	1240.50	561.50	-73.92 1.080e+05	2.519e+05
35	12	1.930e+05	7.613e+04	-0.02	0.0	0.0	-7551.87	862.13	395.29	-57.29 -7.289e+04	-1.320e+05
		-1.320e+05	-7.289e+04	-5.95e-03	0.0	377.0	-6420.87	862.13	395.29	-57.29 7.613e+04	1.930e+05
35	13	1.428e+05	7.617e+04	-0.01	0.0	0.0	-5973.89	754.40	396.37	-42.36 -7.326e+04	-1.416e+05
		-1.416e+05	-7.326e+04	-5.87e-03	0.0	377.0	-4842.89	754.40	396.37	-42.36 7.617e+04	1.428e+05
35	14	2.066e+05	8.383e+04	-0.02	0.0	0.0	-7630.52	991.41	435.50	-60.62 -8.035e+04	-1.671e+05
		-1.671e+05	-8.035e+04	-6.47e-03	0.0	377.0	-6499.52	991.41	435.50	-60.62 8.383e+04	2.066e+05
35	15	1.335e+05	7.092e+04	-0.01	0.0	0.0	-5920.21	666.17	368.92	-40.08 -6.817e+04	-1.176e+05
		-1.176e+05	-6.817e+04	-5.51e-03	0.0	377.0	-4789.21	666.17	368.92	-40.08 7.092e+04	1.335e+05
35	16	1.548e+05	7.347e+04	-0.01	0.0	0.0	-6472.42	745.17	381.97	-46.17 -7.053e+04	-1.261e+05
		-1.261e+05	-7.053e+04	-5.71e-03	0.0	377.0	-5341.42	745.17	381.97	-46.17 7.347e+04	1.548e+05
35	17	1.465e+05	7.825e+04	-0.01	0.0	0.0	-5995.12	789.29	407.22	-43.26 -7.527e+04	-1.511e+05
		-1.511e+05	-7.527e+04	-6.01e-03	0.0	377.0	-4864.12	789.29	407.22	-43.26 7.825e+04	1.465e+05
35	18	1.678e+05	8.080e+04	-0.01	0.0	0.0	-6547.33	868.29	420.26	-49.35 -7.764e+04	-1.596e+05
		-1.596e+05	-7.764e+04	-6.21e-03	0.0	377.0	-5416.33	868.29	420.26	-49.35 8.080e+04	1.678e+05
35	19	1.761e+05	7.602e+04	-0.02	0.0	0.0	-7024.63	824.17	395.01	-52.26 -7.290e+04	-1.346e+05
		-1.346e+05	-7.290e+04	-5.91e-03	0.0	377.0	-5893.63	824.17	395.01	-52.26 7.602e+04	1.761e+05
35	20	1.426e+05	7.605e+04	-0.01	0.0	0.0	-5972.65	752.35	395.73	-42.31 -7.314e+04	-1.410e+05
		-1.410e+05	-7.314e+04	-5.86e-03	0.0	377.0	-4841.65	752.35	395.73	-42.31 7.605e+04	1.426e+05
35	21	1.851e+05	8.116e+04	-0.02	0.0	0.0	-7077.06	910.35	421.82	-54.48 -7.787e+04	-1.581e+05
		-1.581e+05	-7.787e+04	-6.26e-03	0.0	377.0	-5946.06	910.35	421.82	-54.48 8.116e+04	1.851e+05
35	22	6.199e+04	1.135e+06	0.01	0.0	0.0	-8687.21	434.96	4007.50	180.92 -3.757e+05	-1.020e+05
		-1.020e+05	-3.757e+05	-2.15	0.0	377.0	-7556.21	434.96	4007.50	180.92 1.135e+06	6.199e+04
35	23	2.218e+05	3.530e+05	-0.03	0.0	0.0	-3107.69	1050.07	-3785.19	-218.43 3.530e+05	-1.741e+05

		-1.741e+05	-1.074e+06	2.15	0.0	377.0	-1976.69	1050.07	-3785.19	-218.43	-1.074e+06 2.218e+05
35	24	-4.726e+04	1.304e+05	2.03	0.0	0.0	-1452.13	-2968.82	642.81	-664.05	-1.120e+05 -4.726e+04
		-1.167e+06	-1.120e+05	-0.01	0.0	377.0	-321.13	-2968.82	642.81	-664.05	1.304e+05 -1.167e+06
35	25	1.206e+06	1.655e+04	-1.99	0.0	0.0	-9931.00	3123.39	122.53	560.22	-2.965e+04 2.843e+04
		2.843e+04	-2.965e+04	4.25e-03	0.0	377.0	-8800.00	3123.39	122.53	560.22	1.655e+04 1.206e+06
35	26	6.629e+04	9.660e+05	0.01	0.0	0.0	-8232.24	451.50	3711.60	173.76	-4.332e+05 -1.039e+05
		-1.039e+05	-4.332e+05	-1.63	0.0	377.0	-7101.24	451.50	3711.60	173.76	9.660e+05 6.629e+04
35	27	2.172e+05	3.955e+05	-0.03	0.0	0.0	-3651.28	1032.75	-3316.82	-244.06	3.955e+05 -1.721e+05
		-1.721e+05	-8.549e+05	1.63	0.0	377.0	-2520.28	1032.75	-3316.82	-244.06	-8.549e+05 2.172e+05
35	28	2.189e+05	1.169e+05	0.80	0.0	0.0	-3955.75	-1715.05	582.05	-269.35	-1.025e+05 2.189e+05
		-4.277e+05	-1.025e+05	-0.01	0.0	377.0	-2824.75	-1715.05	582.05	-269.35	1.169e+05 -4.277e+05
35	29	6.860e+05	3.288e+04	-0.82	0.0	0.0	-7895.75	2834.00	197.45	190.28	-4.156e+04 -3.824e+05
		-3.824e+05	-4.156e+04	4.94e-03	0.0	377.0	-6764.75	2834.00	197.45	190.28	3.288e+04 6.860e+05
35	30	5.247e+04	1.135e+06	0.01	0.0	0.0	-8732.24	380.02	4778.24	705.51	-6.661e+05 -9.079e+04
		-9.079e+04	-6.661e+05	-2.11	0.0	377.0	-7601.24	380.02	4778.24	705.51	1.135e+06 5.247e+04
35	31	2.323e+05	6.619e+05	-0.03	0.0	0.0	-2961.44	1109.15	-4766.42	-709.71	6.619e+05 -1.859e+05
		-1.859e+05	-1.135e+06	2.10	0.0	377.0	-1830.44	1109.15	-4766.42	-709.71	-1.135e+06 2.323e+05
35	32	3.736e+05	1.279e+05	1.63	0.0	0.0	-1817.83	-3730.70	630.42	-880.67	-1.098e+05 3.736e+05
		-1.033e+06	-1.098e+05	-9.70e-03	0.0	377.0	-686.83	-3730.70	630.42	-880.67	1.279e+05 -1.033e+06
35	33	1.204e+06	1.815e+04	-1.62	0.0	0.0	-9927.82	4332.77	131.24	884.58	-3.133e+04 -4.290e+05
		-4.290e+05	-3.133e+04	-4.05e-03	0.0	377.0	-8796.82	4332.77	131.24	884.58	1.815e+04 1.204e+06
35	34	5.247e+04	1.135e+06	0.01	0.0	0.0	-8732.24	380.02	4778.24	705.51	-6.661e+05 -9.079e+04
		-9.079e+04	-6.661e+05	-2.11	0.0	377.0	-7601.24	380.02	4778.24	705.51	1.135e+06 5.247e+04
35	35	2.323e+05	6.619e+05	-0.03	0.0	0.0	-2961.44	1109.15	-4766.42	-709.71	6.619e+05 -1.859e+05
		-1.859e+05	-1.135e+06	2.10	0.0	377.0	-1830.44	1109.15	-4766.42	-709.71	-1.135e+06 2.323e+05
35	36	4.283e+05	1.198e+05	1.01	0.0	0.0	-3146.95	-2836.07	594.23	-534.35	-1.042e+05 4.283e+05
		-6.409e+05	-1.042e+05	-0.01	0.0	377.0	-2015.95	-2836.07	594.23	-534.35	1.198e+05 -6.409e+05
35	37	8.742e+05	3.092e+04	-1.01	0.0	0.0	-8629.01	3749.29	189.56	436.53	-4.054e+04 -5.393e+05
		-5.393e+05	-4.054e+04	4.77e-03	0.0	377.0	-7498.01	3749.29	189.56	436.53	3.092e+04 8.742e+05
35	38	1.335e+05	7.092e+04	-0.01	0.0	0.0	-5920.21	666.17	368.92	-40.08	-6.817e+04 -1.176e+05
		-1.176e+05	-6.817e+04	-5.51e-03	0.0	377.0	-4789.21	666.17	368.92	-40.08	7.092e+04 1.335e+05
35	39	1.426e+05	7.605e+04	-0.01	0.0	0.0	-5972.65	752.35	395.73	-42.31	-7.314e+04 -1.410e+05
		-1.410e+05	-7.314e+04	-5.86e-03	0.0	377.0	-4841.65	752.35	395.73	-42.31	7.605e+04 1.426e+05
35	40	1.420e+05	7.194e+04	-0.01	0.0	0.0	-6141.10	697.77	374.14	-42.52	-6.911e+04 -1.210e+05
		-1.210e+05	-6.911e+04	-5.59e-03	0.0	377.0	-5010.10	697.77	374.14	-42.52	7.194e+04 1.420e+05
35	41	1.413e+05	7.532e+04	-0.01	0.0	0.0	-5965.16	740.04	391.90	-41.99	-7.243e+04 -1.377e+05
		-1.377e+05	-7.243e+04	-5.81e-03	0.0	377.0	-4834.16	740.04	391.90	-41.99	7.532e+04 1.413e+05
35	42	1.498e+05	7.634e+04	-0.01	0.0	0.0	-6186.04	771.64	397.12	-44.42	-7.338e+04 -1.411e+05
		-1.411e+05	-7.338e+04	-5.89e-03	0.0	377.0	-5055.04	771.64	397.12	-44.42	7.634e+04 1.498e+05
35	43	1.335e+05	7.092e+04	-0.01	0.0	0.0	-5920.21	666.17	368.92	-40.08	-6.817e+04 -1.176e+05
		-1.176e+05	-6.817e+04	-5.51e-03	0.0	377.0	-4789.21	666.17	368.92	-40.08	7.092e+04 1.335e+05
35	44	1.413e+05	7.532e+04	-0.01	0.0	0.0	-5965.16	740.04	391.90	-41.99	-7.243e+04 -1.377e+05
		-1.377e+05	-7.243e+04	-5.81e-03	0.0	377.0	-4834.16	740.04	391.90	-41.99	7.532e+04 1.413e+05
35	45	1.335e+05	7.092e+04	-0.01	0.0	0.0	-5920.21	666.17	368.92	-40.08	-6.817e+04 -1.176e+05
		-1.176e+05	-6.817e+04	-5.51e-03	0.0	377.0	-4789.21	666.17	368.92	-40.08	7.092e+04 1.335e+05
35	46	1.413e+05	7.532e+04	-0.01	0.0	0.0	-5965.16	740.04	391.90	-41.99	-7.243e+04 -1.377e+05
		-1.377e+05	-7.243e+04	-5.81e-03	0.0	377.0	-4834.16	740.04	391.90	-41.99	7.532e+04 1.413e+05
36	1	6.355e+04	4723.51	-0.01	0.0	0.0	-2.261e+04	-590.21	125.27	56.44	-4.225e+04 6.355e+04
		-1.578e+05	-4.225e+04	7.38e-03	0.0	375.0	-2.078e+04	-590.21	125.27	56.44	4723.51 -1.578e+05
36	2	7.574e+04	8057.80	-0.02	0.0	0.0	-2.392e+04	-638.06	147.05	62.57	-4.709e+04 7.574e+04
		-1.635e+05	-4.709e+04	7.72e-03	0.0	375.0	-2.209e+04	-638.06	147.05	62.57	8057.80 -1.635e+05
36	3	1.367e+05	1.506e+04	-0.02	0.0	0.0	-2.656e+04	-1090.61	192.68	74.25	-5.719e+04 1.367e+05
		-2.723e+05	-5.719e+04	8.42e-03	0.0	375.0	-2.473e+04	-1090.61	192.68	74.25	1.506e+04 -2.723e+05
36	4	1.489e+05	1.840e+04	-0.02	0.0	0.0	-2.787e+04	-1138.46	214.46	80.38	-6.202e+04 1.489e+05
		-2.780e+05	-6.202e+04	8.76e-03	0.0	375.0	-2.604e+04	-1138.46	214.46	80.38	1.840e+04 -2.780e+05
36	5	3.012e+04	982.19	-0.01	0.0	0.0	-1.638e+04	-325.70	79.08	38.85	-2.867e+04 3.012e+04
		-9.201e+04	-2.867e+04	5.42e-03	0.0	375.0	-1.497e+04	-325.70	79.08	38.85	982.19 -9.201e+04
36	6	4.232e+04	4316.49	-0.01	0.0	0.0	-1.769e+04	-373.55	100.85	44.98	-3.350e+04 4.232e+04
		-9.776e+04	-3.350e+04	5.75e-03	0.0	375.0	-1.628e+04	-373.55	100.85	44.98	4316.49 -9.776e+04
36	7	1.033e+05	1.132e+04	-0.01	0.0	0.0	-2.033e+04	-826.10	146.49	56.66	-4.361e+04 1.033e+05
		-2.065e+05	-4.361e+04	6.45e-03	0.0	375.0	-1.893e+04	-826.10	146.49	56.66	1.132e+04 -2.065e+05
36	8	1.155e+05	1.466e+04	-0.01	0.0	0.0	-2.164e+04	-873.95	168.26	62.79	-4.844e+04 1.155e+05
		-2.123e+05	-4.844e+04	6.79e-03	0.0	375.0	-2.023e+04	-873.95	168.26	62.79	1.466e+04 -2.123e+05
36	9	8.794e+04	1.139e+04	-0.02	0.0	0.0	-2.523e+04	-685.91	168.82	68.71	-5.192e+04 8.794e+04
		-1.693e+05	-5.192e+04	8.06e-03	0.0	375.0	-2.340e+04	-685.91	168.82	68.71	1.139e+04 -1.693e+05
36	10	1.148e+05	1.196e+04	-0.02	0.0	0.0	-2.538e+04	-940.49	172.46	68.90	-5.271e+04 1.148e+05
		-2.379e+05	-5.271e+04	8.11e-03	0.0	375.0	-2.355e+04	-940.49	172.46	68.90	1.196e+04 -2.379e+05
36	11	1.391e+05	1.863e+04	-0.02	0.0	0.0	-2.800e+04	-1036.18	216.01	81.17	-6.237e+04 1.391e+05
		-2.494e+05	-6.237e+04	8.79e-03	0.0	375.0	-2.617e+04	-1036.18	216.01	81.17	1.863e+04 -2.494e+05
36	12	5.452e+04	7650.78	-0.01	0.0	0.0	-1.900e+04	-421.40	122.63	51.12	-3.834e+04 5.452e+04
		-1.035e+05	-3.834e+04	6.09e-03	0.0	375.0	-1.759e+04	-421.40	122.63	51.12	7650.78 -1.035e+05
36	13	8.133e+04	8220.18	-0.01	0.0	0.0	-1.915e+04	-675.98	126.27	51.31	-3.913e+04 8.133e+04
		-1.722e+05	-3.913e+04	6.14e-03	0.0	375.0	-1.774e+04	-675.98	126.27	51.31	8220.18 -1.722e+05
36	14	1.057e+05	1.489e+04	-0.02	0.0	0.0	-2.176e+04	-771.67	169.82	63.58	-4.879e+04 1.057e+05
		-1.837e+05	-4.879e+04	6.82e-03	0.0	375.0	-2.036e+04	-771.67	169.82	63.58	1.489e+04 -1.837e+05
36	15	4.638e+04	3279.96	-0.01	0.0	0.0	-1.726e+04	-436.90	94.06	42.80	-3.199e+04 4.638e+04
		-1.175e+05	-3.199e+04	5.65e-03	0.0	375.0	-1.585e+04	-436.90	94.06	42.80	3279.96 -1.175e+05

36	16	5.451e+04	5502.83	-0.01	0.0	0.0	-1.813e+04	-468.80	108.58	46.89	-3.521e+04	5.451e+04
		-1.213e+05	-3.521e+04	5.87e-03	0.0	375.0	-1.672e+04	-468.80	108.58	46.89	5502.83	-1.213e+05
36	17	9.515e+04	1.017e+04	-0.01	0.0	0.0	-1.989e+04	-770.50	139.00	54.68	-4.195e+04	9.515e+04
		-1.938e+05	-4.195e+04	6.34e-03	0.0	375.0	-1.849e+04	-770.50	139.00	54.68	1.017e+04	-1.938e+05
36	18	1.033e+05	1.240e+04	-0.01	0.0	0.0	-2.077e+04	-802.40	153.52	58.77	-4.517e+04	1.033e+05
		-1.976e+05	-4.517e+04	6.56e-03	0.0	375.0	-1.936e+04	-802.40	153.52	58.77	1.240e+04	-1.976e+05
36	19	6.264e+04	7725.69	-0.01	0.0	0.0	-1.900e+04	-500.70	123.09	50.99	-3.843e+04	6.264e+04
		-1.251e+05	-3.843e+04	6.10e-03	0.0	375.0	-1.760e+04	-500.70	123.09	50.99	7725.69	-1.251e+05
36	20	8.052e+04	8105.29	-0.01	0.0	0.0	-1.910e+04	-670.42	125.52	51.12	-3.896e+04	8.052e+04
		-1.709e+05	-3.896e+04	6.13e-03	0.0	375.0	-1.770e+04	-670.42	125.52	51.12	8105.29	-1.709e+05
36	21	9.678e+04	1.255e+04	-0.01	0.0	0.0	-2.085e+04	-734.22	154.55	59.30	-4.541e+04	9.678e+04
		-1.786e+05	-4.541e+04	6.58e-03	0.0	375.0	-1.944e+04	-734.22	154.55	59.30	1.255e+04	-1.786e+05
36	22	2.578e+04	1.288e+06	-7.86e-03	0.0	0.0	-2.385e+04	-411.30	6921.39	5149.65	-1.307e+06	2.578e+04
		-1.285e+05	-1.307e+06	-2.90	0.0	375.0	-2.244e+04	-411.30	6921.39	5149.65	1.288e+06	-1.285e+05
36	23	1.256e+05	1.307e+06	-0.02	0.0	0.0	-1.387e+04	-863.07	-6920.03	-5028.87	1.307e+06	1.256e+05
		-1.981e+05	-1.288e+06	2.88	0.0	375.0	-1.246e+04	-863.07	-6920.03	-5028.87	-1.288e+06	-1.981e+05
36	24	2.295e+06	-1.520e+04	2.71	0.0	0.0	-3.264e+04	-9515.84	66.57	-2299.85	-4.016e+04	2.295e+06
		-1.273e+06	-4.016e+04	-0.01	0.0	375.0	-3.123e+04	-9515.84	66.57	-2299.85	-1.520e+04	-1.273e+06
36	25	1.295e+06	2.397e+04	-2.67	0.0	0.0	-4811.04	9573.27	142.73	2280.90	-2.956e+04	-2.295e+06
		-2.295e+06	-2.956e+04	3.40e-03	0.0	375.0	-3404.79	9573.27	142.73	2280.90	2.397e+04	1.295e+06
36	26	2.178e+04	1.290e+06	-8.30e-03	0.0	0.0	-2.443e+04	-392.03	6921.42	5029.55	-1.306e+06	2.178e+04
		-1.252e+05	-1.306e+06	-2.06	0.0	375.0	-2.303e+04	-392.03	6921.42	5029.55	1.290e+06	-1.252e+05
36	27	1.300e+05	1.305e+06	-0.02	0.0	0.0	-1.326e+04	-884.25	-6918.44	-4911.24	1.305e+06	1.300e+05
		-2.016e+05	-1.289e+06	2.05	0.0	375.0	-1.186e+04	-884.25	-6918.44	-4911.24	-1.289e+06	-2.016e+05
36	28	1.471e+06	-8130.88	0.82	0.0	0.0	-2.856e+04	-6178.79	85.09	-1063.79	-4.004e+04	1.471e+06
		-8.465e+05	-4.004e+04	8.71e-03	0.0	375.0	-2.716e+04	-6178.79	85.09	-1063.79	-8130.88	-8.465e+05
36	29	8.439e+05	2.202e+04	-0.85	0.0	0.0	-8774.80	6070.11	151.00	1144.75	-3.460e+04	-1.432e+06
		-1.432e+06	-3.460e+04	3.64e-03	0.0	375.0	-7368.55	6070.11	151.00	1144.75	2.202e+04	8.439e+05
36	30	2.252e+04	1.288e+06	-8.28e-03	0.0	0.0	-2.377e+04	-394.83	6917.22	5113.00	-1.306e+06	2.252e+04
		-1.255e+05	-1.306e+06	-1.98	0.0	375.0	-2.236e+04	-394.83	6917.22	5113.00	1.288e+06	-1.255e+05
36	31	1.267e+05	1.305e+06	-0.02	0.0	0.0	-1.405e+04	-869.93	-6911.94	-4985.80	1.305e+06	1.267e+05
		-1.995e+05	-1.287e+06	1.97	0.0	375.0	-1.264e+04	-869.93	-6911.94	-4985.80	-1.287e+06	-1.995e+05
36	32	2.293e+06	-1.495e+04	1.64	0.0	0.0	-3.259e+04	-8261.20	66.76	-1935.54	-3.999e+04	2.293e+06
		-8.050e+05	-3.999e+04	-0.01	0.0	375.0	-3.118e+04	-8261.20	66.76	-1935.54	-1.495e+04	-8.050e+05
36	33	8.643e+05	2.431e+04	-1.64	0.0	0.0	-5227.97	8419.22	145.90	1926.32	-3.040e+04	-2.293e+06
		-2.293e+06	-3.040e+04	3.37e-03	0.0	375.0	-3821.72	8419.22	145.90	1926.32	2.431e+04	8.643e+05
36	34	2.252e+04	1.288e+06	-8.28e-03	0.0	0.0	-2.377e+04	-394.83	6917.22	5113.00	-1.306e+06	2.252e+04
		-1.255e+05	-1.306e+06	-1.98	0.0	375.0	-2.236e+04	-394.83	6917.22	5113.00	1.288e+06	-1.255e+05
36	35	1.267e+05	1.305e+06	-0.02	0.0	0.0	-1.405e+04	-869.93	-6911.94	-4985.80	1.305e+06	1.267e+05
		-1.995e+05	-1.287e+06	1.97	0.0	375.0	-1.264e+04	-869.93	-6911.94	-4985.80	-1.287e+06	-1.995e+05
36	36	1.472e+06	-9847.63	0.88	0.0	0.0	-3.034e+04	-5728.88	80.35	-984.13	-3.998e+04	1.472e+06
		-6.761e+05	-3.998e+04	9.01e-03	0.0	375.0	-2.893e+04	-5728.88	80.35	-984.13	-9847.63	-6.761e+05
36	37	7.540e+05	2.254e+04	-0.90	0.0	0.0	-7252.85	5865.09	150.06	1018.09	-3.373e+04	-1.445e+06
		-1.445e+06	-3.373e+04	3.40e-03	0.0	375.0	-5846.60	5865.09	150.06	1018.09	2.254e+04	7.540e+05
36	38	4.638e+04	3279.96	-0.01	0.0	0.0	-1.726e+04	-436.90	94.06	42.80	-3.199e+04	4.638e+04
		-1.175e+05	-3.199e+04	5.65e-03	0.0	375.0	-1.585e+04	-436.90	94.06	42.80	3279.96	-1.175e+05
36	39	8.052e+04	8105.29	-0.01	0.0	0.0	-1.910e+04	-670.42	125.52	51.12	-3.896e+04	8.052e+04
		-1.709e+05	-3.896e+04	6.13e-03	0.0	375.0	-1.770e+04	-670.42	125.52	51.12	8105.29	-1.709e+05
36	40	4.963e+04	4169.11	-0.01	0.0	0.0	-1.761e+04	-449.66	99.87	44.44	-3.328e+04	4.963e+04
		-1.190e+05	-3.328e+04	5.74e-03	0.0	375.0	-1.620e+04	-449.66	99.87	44.44	4169.11	-1.190e+05
36	41	7.564e+04	7415.96	-0.01	0.0	0.0	-1.884e+04	-637.06	121.02	49.93	-3.797e+04	7.564e+04
		-1.633e+05	-3.797e+04	6.06e-03	0.0	375.0	-1.743e+04	-637.06	121.02	49.93	7415.96	-1.633e+05
36	42	7.889e+04	8305.10	-0.01	0.0	0.0	-1.919e+04	-649.82	126.83	51.56	-3.926e+04	7.889e+04
		-1.648e+05	-3.926e+04	6.15e-03	0.0	375.0	-1.778e+04	-649.82	126.83	51.56	8305.10	-1.648e+05
36	43	4.638e+04	3279.96	-0.01	0.0	0.0	-1.726e+04	-436.90	94.06	42.80	-3.199e+04	4.638e+04
		-1.175e+05	-3.199e+04	5.65e-03	0.0	375.0	-1.585e+04	-436.90	94.06	42.80	3279.96	-1.175e+05
36	44	7.564e+04	7415.96	-0.01	0.0	0.0	-1.884e+04	-637.06	121.02	49.93	-3.797e+04	7.564e+04
		-1.633e+05	-3.797e+04	6.06e-03	0.0	375.0	-1.743e+04	-637.06	121.02	49.93	7415.96	-1.633e+05
36	45	4.638e+04	3279.96	-0.01	0.0	0.0	-1.726e+04	-436.90	94.06	42.80	-3.199e+04	4.638e+04
		-1.175e+05	-3.199e+04	5.65e-03	0.0	375.0	-1.585e+04	-436.90	94.06	42.80	3279.96	-1.175e+05
36	46	7.564e+04	7415.96	-0.01	0.0	0.0	-1.884e+04	-637.06	121.02	49.93	-3.797e+04	7.564e+04
		-1.633e+05	-3.797e+04	6.06e-03	0.0	375.0	-1.743e+04	-637.06	121.02	49.93	7415.96	-1.633e+05
37	1	1.625e+05	3.200e+04	-6.68e-03	0.0	0.0	-1.038e+04	-916.42	-167.68	6.21	3.200e+04	1.625e+05
		-1.830e+05	-3.121e+04	-2.58e-03	0.0	377.0	-8906.79	-916.42	-167.68	6.21	-3.121e+04	-1.830e+05
37	2	1.796e+05	3.080e+04	7.94e-03	0.0	0.0	-1.158e+04	-1052.37	-160.45	8.09	3.080e+04	1.796e+05
		-2.172e+05	-2.969e+04	-2.54e-03	0.0	377.0	-1.011e+04	-1052.37	-160.45	8.09	-2.969e+04	-2.172e+05
37	3	2.183e+05	2.845e+04	-0.01	0.0	0.0	-1.051e+04	-1151.75	-146.79	8.18	2.845e+04	2.183e+05
		-2.159e+05	-2.689e+04	-2.42e-03	0.0	377.0	-9035.88	-1151.75	-146.79	8.18	-2.689e+04	-2.159e+05
37	4	2.355e+05	2.724e+04	-0.01	0.0	0.0	-1.171e+04	-1287.69	-139.55	10.06	2.724e+04	2.355e+05
		-2.500e+05	-2.537e+04	-2.37e-03	0.0	377.0	-1.024e+04	-1287.69	-139.55	10.06	-2.537e+04	-2.500e+05
37	5	1.106e+05	2.553e+04	5.08e-03	0.0	0.0	-7949.28	-644.60	-134.34	4.28	2.553e+04	1.106e+05
		-1.324e+05	-2.512e+04	-2.03e-03	0.0	377.0	-6818.28	-644.60	-134.34	4.28	-2.512e+04	-1.324e+05
37	6	1.278e+05	2.432e+04	7.75e-03	0.0	0.0	-9154.50	-780.54	-127.11	6.16	2.432e+04	1.278e+05
		-1.665e+05	-2.360e+04	-1.98e-03	0.0	377.0	-8023.50	-780.54	-127.11	6.16	-2.360e+04	-1.665e+05
37	7	1.665e+05	2.197e+04	-9.44e-03	0.0	0.0	-8078.36	-879.93	-113.45	6.24	2.197e+04	1.665e+05
		-1.652e+05	-2.080e+04	-1.86e-03	0.0	377.0	-6947.36	-879.93	-113.45	6.24	-2.080e+04	-1.652e+05
37	8	1.837e+05	2.077e+04	-8.94e-03	0.0	0.0	-9283.58	-1015.87	-106.21	8.12	2.077e+04	1.837e+05

		-1.993e+05	-1.928e+04	-1.82e-03	0.0	377.0	-8152.58	-1015.87	-106.21	8.12	-1.928e+04 -1.993e+05
37	9	1.967e+05	2.959e+04	0.01	0.0	0.0	-1.279e+04	-1188.31	-153.21	9.97	2.959e+04 1.967e+05
		-2.513e+05	-2.817e+04	-2.49e-03	0.0	377.0	-1.132e+04	-1188.31	-153.21	9.97	-2.817e+04 -2.513e+05
37	10	2.016e+05	2.951e+04	-0.01	0.0	0.0	-1.047e+04	-1081.15	-153.05	7.59	2.951e+04 2.016e+05
		-2.060e+05	-2.819e+04	-2.47e-03	0.0	377.0	-8997.15	-1081.15	-153.05	7.59	-2.819e+04 -2.060e+05
37	11	2.358e+05	2.710e+04	-0.01	0.0	0.0	-1.288e+04	-1353.04	-138.58	11.35	2.710e+04 2.358e+05
		-2.743e+05	-2.515e+04	-2.38e-03	0.0	377.0	-1.141e+04	-1353.04	-138.58	11.35	-2.515e+04 -2.743e+05
37	12	1.449e+05	2.312e+04	0.01	0.0	0.0	-1.036e+04	-916.49	-119.87	8.04	2.312e+04 1.449e+05
		-2.006e+05	-2.208e+04	-1.94e-03	0.0	377.0	-9228.72	-916.49	-119.87	8.04	-2.208e+04 -2.006e+05
37	13	1.498e+05	2.304e+04	-7.66e-03	0.0	0.0	-8039.64	-809.33	-119.72	5.65	2.304e+04 1.498e+05
		-1.554e+05	-2.209e+04	-1.91e-03	0.0	377.0	-6908.64	-809.33	-119.72	5.65	-2.209e+04 -1.554e+05
37	14	1.840e+05	2.063e+04	-8.73e-03	0.0	0.0	-1.045e+04	-1081.21	-105.24	9.41	2.063e+04 1.840e+05
		-2.236e+05	-1.905e+04	-1.82e-03	0.0	377.0	-9319.07	-1081.21	-105.24	9.41	-1.905e+04 -2.236e+05
37	15	1.231e+05	2.474e+04	-5.01e-03	0.0	0.0	-7977.97	-696.90	-129.70	4.71	2.474e+04 1.231e+05
		-1.397e+05	-2.416e+04	-1.99e-03	0.0	377.0	-6846.97	-696.90	-129.70	4.71	-2.416e+04 -1.397e+05
37	16	1.345e+05	2.393e+04	5.97e-03	0.0	0.0	-8781.45	-787.53	-124.88	5.97	2.393e+04 1.345e+05
		-1.624e+05	-2.314e+04	-1.96e-03	0.0	377.0	-7650.45	-787.53	-124.88	5.97	-2.314e+04 -1.624e+05
37	17	1.603e+05	2.237e+04	-8.78e-03	0.0	0.0	-8064.02	-853.78	-115.77	6.02	2.237e+04 1.603e+05
		-1.616e+05	-2.128e+04	-1.88e-03	0.0	377.0	-6933.02	-853.78	-115.77	6.02	-2.128e+04 -1.616e+05
37	18	1.717e+05	2.156e+04	-8.20e-03	0.0	0.0	-8867.50	-944.41	-110.95	7.28	2.156e+04 1.717e+05
		-1.843e+05	-2.026e+04	-1.85e-03	0.0	377.0	-7736.50	-944.41	-110.95	7.28	-2.026e+04 -1.843e+05
37	19	1.459e+05	2.313e+04	7.75e-03	0.0	0.0	-9584.92	-878.15	-120.05	7.22	2.313e+04 1.459e+05
		-1.852e+05	-2.213e+04	-1.93e-03	0.0	377.0	-8453.92	-878.15	-120.05	7.22	-2.213e+04 -1.852e+05
37	20	1.491e+05	2.308e+04	-7.59e-03	0.0	0.0	-8038.21	-806.71	-119.95	5.63	2.308e+04 1.491e+05
		-1.550e+05	-2.214e+04	-1.91e-03	0.0	377.0	-6907.21	-806.71	-119.95	5.63	-2.214e+04 -1.550e+05
37	21	1.720e+05	2.147e+04	-8.06e-03	0.0	0.0	-9645.16	-987.97	-110.30	8.14	2.147e+04 1.720e+05
		-2.005e+05	-2.011e+04	-1.85e-03	0.0	377.0	-8514.16	-987.97	-110.30	8.14	-2.011e+04 -2.005e+05
37	22	1.259e+05	1.158e+06	-6.29e-03	0.0	0.0	-8797.74	-672.04	6046.29	1616.38	-1.121e+06 1.259e+05
		-1.274e+05	-1.121e+06	-2.13	0.0	377.0	-7666.74	-672.04	6046.29	1616.38	1.158e+06 -1.274e+05
37	23	1.649e+05	1.108e+06	-9.18e-03	0.0	0.0	-7354.62	-909.93	-6011.40	-1599.89	1.108e+06 1.649e+05
		-1.781e+05	-1.158e+06	2.13	0.0	377.0	-6223.62	-909.93	-6011.40	-1599.89	-1.158e+06 -1.781e+05
37	24	-5.919e+04	6.243e+04	2.03	0.0	0.0	-1.366e+04	-3025.12	-322.60	-527.37	6.243e+04 -5.919e+04
		-1.200e+06	-5.919e+04	-6.46e-03	0.0	377.0	-1.252e+04	-3025.12	-322.60	-527.37	-5.919e+04 -1.200e+06
37	25	1.124e+06	9991.92	-1.99	0.0	0.0	-1676.32	2761.61	57.36	501.27	-1.163e+04 8.300e+04
		8.300e+04	-1.163e+04	4.05e-03	0.0	377.0	-545.32	2761.61	57.36	501.27	9991.92 1.124e+06
37	26	1.247e+05	1.158e+06	-6.33e-03	0.0	0.0	-9389.38	-663.75	6172.93	1566.61	-1.169e+06 1.247e+05
		-1.255e+05	-1.169e+06	-1.61	0.0	377.0	-8258.38	-663.75	6172.93	1566.61	1.158e+06 -1.255e+05
37	27	1.663e+05	1.161e+06	-9.11e-03	0.0	0.0	-6711.62	-919.12	-6151.08	-1555.39	1.161e+06 1.663e+05
		-1.802e+05	-1.158e+06	1.61	0.0	377.0	-5580.62	-919.12	-6151.08	-1555.39	-1.158e+06 -1.802e+05
37	28	3.690e+05	5.019e+04	0.80	0.0	0.0	-1.084e+04	-2749.69	-259.37	-156.19	5.019e+04 3.690e+05
		-6.676e+05	-4.760e+04	-4.62e-03	0.0	377.0	-9707.75	-2749.69	-259.37	-156.19	-4.760e+04 -6.676e+05
37	29	4.122e+05	2324.15	-0.82	0.0	0.0	-5092.85	1743.18	14.63	167.91	-3191.24 -2.450e+05
		-2.450e+05	-3191.24	1.30e-03	0.0	377.0	-3961.85	1743.18	14.63	167.91	2324.15 4.122e+05
37	30	1.280e+05	1.158e+06	-6.07e-03	0.0	0.0	-8727.10	-681.70	6157.04	2140.06	-1.163e+06 1.280e+05
		-1.290e+05	-1.163e+06	-2.08	0.0	377.0	-7596.10	-681.70	6157.04	2140.06	1.158e+06 -1.290e+05
37	31	1.624e+05	1.151e+06	-0.01	0.0	0.0	-7540.40	-896.77	-6126.85	-2121.99	1.151e+06 1.624e+05
		-1.757e+05	-1.158e+06	2.08	0.0	377.0	-6409.40	-896.77	-6126.85	-2121.99	-1.158e+06 -1.757e+05
37	32	4.092e+05	6.109e+04	1.63	0.0	0.0	-1.363e+04	-4245.21	-315.50	-628.88	6.109e+04 4.092e+05
		-1.191e+06	-5.786e+04	-6.34e-03	0.0	377.0	-1.250e+04	-4245.21	-315.50	-628.88	-5.786e+04 -1.191e+06
37	33	1.012e+06	8471.83	-1.63	0.0	0.0	-2076.36	3603.88	49.16	701.82	-1.006e+04 -3.463e+05
		-3.463e+05	-1.006e+04	4.69e-03	0.0	377.0	-945.36	3603.88	49.16	701.82	8471.83 1.012e+06
37	34	1.280e+05	1.158e+06	-6.07e-03	0.0	0.0	-8727.10	-681.70	6157.04	2140.06	-1.163e+06 1.280e+05
		-1.290e+05	-1.163e+06	-2.08	0.0	377.0	-7596.10	-681.70	6157.04	2140.06	1.158e+06 -1.290e+05
37	35	1.624e+05	1.151e+06	-0.01	0.0	0.0	-7540.40	-896.77	-6126.85	-2121.99	1.151e+06 1.624e+05
		-1.757e+05	-1.158e+06	2.08	0.0	377.0	-6409.40	-896.77	-6126.85	-2121.99	-1.158e+06 -1.757e+05
37	36	5.401e+05	5.206e+04	1.01	0.0	0.0	-1.198e+04	-3772.16	-268.85	-330.38	5.206e+04 5.401e+05
		-8.820e+05	-4.930e+04	-4.96e-03	0.0	377.0	-1.085e+04	-3772.16	-268.85	-330.38	-4.930e+04 -8.820e+05
37	37	6.295e+05	2967.49	-1.01	0.0	0.0	-3968.79	2875.66	18.47	328.13	-3994.09 -4.546e+05
		-4.546e+05	-3994.09	1.91e-03	0.0	377.0	-2837.79	2875.66	18.47	328.13	2967.49 6.295e+05
37	38	1.231e+05	2.474e+04	-5.01e-03	0.0	0.0	-7977.97	-696.90	-129.70	4.71	2.474e+04 1.231e+05
		-1.397e+05	-2.416e+04	-1.99e-03	0.0	377.0	-6846.97	-696.90	-129.70	4.71	-2.416e+04 -1.397e+05
37	39	1.491e+05	2.308e+04	-7.59e-03	0.0	0.0	-8038.21	-806.71	-119.95	5.63	2.308e+04 1.491e+05
		-1.550e+05	-2.214e+04	-1.91e-03	0.0	377.0	-6907.21	-806.71	-119.95	5.63	-2.214e+04 -1.550e+05
37	40	1.276e+05	2.442e+04	-5.26e-03	0.0	0.0	-8299.36	-733.15	-127.77	5.21	2.442e+04 1.276e+05
		-1.488e+05	-2.375e+04	-1.98e-03	0.0	377.0	-7168.36	-733.15	-127.77	5.21	-2.375e+04 -1.488e+05
37	41	1.454e+05	2.332e+04	-7.19e-03	0.0	0.0	-8029.60	-791.03	-121.34	5.50	2.332e+04 1.454e+05
		-1.528e+05	-2.243e+04	-1.93e-03	0.0	377.0	-6898.60	-791.03	-121.34	5.50	-2.243e+04 -1.528e+05
37	42	1.500e+05	2.299e+04	-6.95e-03	0.0	0.0	-8350.99	-827.28	-119.41	6.00	2.299e+04 1.500e+05
		-1.619e+05	-2.202e+04	-1.91e-03	0.0	377.0	-7219.99	-827.28	-119.41	6.00	-2.202e+04 -1.619e+05
37	43	1.231e+05	2.474e+04	-5.01e-03	0.0	0.0	-7977.97	-696.90	-129.70	4.71	2.474e+04 1.231e+05
		-1.397e+05	-2.416e+04	-1.99e-03	0.0	377.0	-6846.97	-696.90	-129.70	4.71	-2.416e+04 -1.397e+05
37	44	1.454e+05	2.332e+04	-7.19e-03	0.0	0.0	-8029.60	-791.03	-121.34	5.50	2.332e+04 1.454e+05
		-1.528e+05	-2.243e+04	-1.93e-03	0.0	377.0	-6898.60	-791.03	-121.34	5.50	-2.243e+04 -1.528e+05
37	45	1.231e+05	2.474e+04	-5.01e-03	0.0	0.0	-7977.97	-696.90	-129.70	4.71	2.474e+04 1.231e+05
		-1.397e+05	-2.416e+04	-1.99e-03	0.0	377.0	-6846.97	-696.90	-129.70	4.71	-2.416e+04 -1.397e+05
37	46	1.454e+05	2.332e+04	-7.19e-03	0.0	0.0	-8029.60	-791.03	-121.34	5.50	2.332e+04 1.454e+05
		-1.528e+05	-2.243e+04	-1.93e-03	0.0	377.0	-6898.60	-791.03	-121.34	5.50	-2.243e+04 -1.528e+05

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38      1 3.808e+04 1.482e+04      -0.01    0.0    0.0 -3.173e+04    -122.47     179.68      19.97 -5.256e+04 3.808e+04
          -7849.85 -5.256e+04   7.51e-03    0.0  375.0 -2.991e+04    -122.47     179.68      19.97 1.482e+04    -7849.85
38      2 5.239e+04 1.648e+04      -0.01    0.0    0.0 -3.424e+04    -197.50     197.54      22.16 -5.760e+04 5.239e+04
          -2.167e+04 -5.760e+04  8.19e-03    0.0  375.0 -3.241e+04    -197.50     197.54      22.16 1.648e+04 -2.167e+04
38      3 6.590e+04 1.982e+04      -0.01    0.0    0.0 -3.929e+04    -219.55     232.98      25.47 -6.754e+04 6.590e+04
          -1.643e+04 -6.754e+04  9.53e-03    0.0  375.0 -3.746e+04    -219.55     232.98      25.47 1.982e+04 -1.643e+04
38      4 8.021e+04 2.148e+04      -0.02    0.0    0.0 -4.180e+04    -294.58     250.83      27.65 -7.258e+04 8.021e+04
          -3.026e+04 -7.258e+04     0.01    0.0  375.0 -3.997e+04    -294.58     250.83      27.65 2.148e+04 -3.026e+04
38      5 2.216e+04 1.012e+04   -8.14e-03   0.0    0.0 -2.247e+04     -69.32     124.55      13.95 -3.659e+04 2.216e+04
          -3837.11 -3.659e+04   5.26e-03    0.0  375.0 -2.107e+04     -69.32     124.55      13.95 1.012e+04    -3837.11
38      6 3.647e+04 1.178e+04   -9.70e-03   0.0    0.0 -2.498e+04    -144.34     142.41      16.14 -4.163e+04 3.647e+04
          -1.766e+04 -4.163e+04  5.94e-03    0.0  375.0 -2.357e+04    -144.34     142.41      16.14 1.178e+04 -1.766e+04
38      7 4.998e+04 1.512e+04      -0.01    0.0    0.0 -3.003e+04    -166.40     177.85      19.45 -5.157e+04 4.998e+04
          -1.242e+04 -5.157e+04  7.28e-03    0.0  375.0 -2.862e+04    -166.40     177.85      19.45 1.512e+04 -1.242e+04
38      8 6.429e+04 1.678e+04      -0.01    0.0    0.0 -3.254e+04    -241.42     195.70      21.63 -5.661e+04 6.429e+04
          -2.624e+04 -5.661e+04  7.96e-03    0.0  375.0 -3.113e+04    -241.42     195.70      21.63 1.678e+04 -2.624e+04
38      9 6.671e+04 1.814e+04      -0.01    0.0    0.0 -3.675e+04    -272.52     215.40      24.34 -6.263e+04 6.671e+04
          -3.549e+04 -6.263e+04  8.87e-03    0.0  375.0 -3.492e+04    -272.52     215.40      24.34 1.814e+04 -3.549e+04
38     10 5.755e+04 1.832e+04      -0.01    0.0    0.0 -3.702e+04    -190.43     216.99      23.82 -6.305e+04 5.755e+04
          -1.386e+04 -6.305e+04  8.92e-03    0.0  375.0 -3.519e+04    -190.43     216.99      23.82 1.832e+04 -1.386e+04
38     11 8.618e+04 2.165e+04      -0.02    0.0    0.0 -4.204e+04    -340.48     252.70      28.19 -7.312e+04 8.618e+04
          -4.150e+04 -7.312e+04     0.01    0.0  375.0 -4.021e+04    -340.48     252.70      28.19 2.165e+04 -4.150e+04
38     12 5.078e+04 1.344e+04      -0.01    0.0    0.0 -2.749e+04    -219.37     160.27      18.32 -4.666e+04 5.078e+04
          -3.148e+04 -4.666e+04  6.62e-03    0.0  375.0 -2.608e+04    -219.37     160.27      18.32 1.344e+04 -3.148e+04
38     13 4.163e+04 1.362e+04   -9.99e-03   0.0    0.0 -2.776e+04    -137.27     161.86      17.80 -4.708e+04 4.163e+04
          -9846.48 -4.708e+04   6.67e-03    0.0  375.0 -2.636e+04    -137.27     161.86      17.80 1.362e+04    -9846.48
38     14 7.026e+04 1.694e+04      -0.01    0.0    0.0 -3.278e+04    -287.32     197.57      22.17 -5.715e+04 7.026e+04
          -3.749e+04 -5.715e+04  8.04e-03    0.0  375.0 -3.137e+04    -287.32     197.57      22.17 1.694e+04 -3.749e+04
38     15 2.834e+04 1.123e+04   -8.73e-03   0.0    0.0 -2.415e+04     -90.89     136.40      15.17 -3.992e+04 2.834e+04
          -5744.85 -3.992e+04   5.71e-03    0.0  375.0 -2.275e+04     -90.89     136.40      15.17 1.123e+04    -5744.85
38     16 3.788e+04 1.234e+04   -9.77e-03   0.0    0.0 -2.582e+04    -140.91     148.30      16.63 -4.328e+04 3.788e+04
          -1.496e+04 -4.328e+04  6.16e-03    0.0  375.0 -2.442e+04    -140.91     148.30      16.63 1.234e+04 -1.496e+04
38     17 4.689e+04 1.456e+04      -0.01    0.0    0.0 -2.919e+04    -155.61     171.92      18.84 -4.991e+04 4.689e+04
          -1.147e+04 -4.991e+04  7.05e-03    0.0  375.0 -2.778e+04    -155.61     171.92      18.84 1.456e+04 -1.147e+04
38     18 5.643e+04 1.567e+04      -0.01    0.0    0.0 -3.086e+04    -205.63     183.83      20.29 -5.326e+04 5.643e+04
          -2.068e+04 -5.326e+04  7.51e-03    0.0  375.0 -2.945e+04    -205.63     183.83      20.29 1.567e+04 -2.068e+04
38     19 4.742e+04 1.344e+04      -0.01    0.0    0.0 -2.750e+04    -190.92     160.21      18.09 -4.663e+04 4.742e+04
          -2.417e+04 -4.663e+04  6.62e-03    0.0  375.0 -2.609e+04    -190.92     160.21      18.09 1.344e+04 -2.417e+04
38     20 4.132e+04 1.356e+04   -9.96e-03   0.0    0.0 -2.768e+04    -136.19     161.27      17.74 -4.691e+04 4.132e+04
          -9751.09 -4.691e+04   6.65e-03    0.0  375.0 -2.627e+04    -136.19     161.27      17.74 1.356e+04    -9751.09
38     21 6.041e+04 1.578e+04      -0.01    0.0    0.0 -3.102e+04    -236.23     185.08      20.65 -5.362e+04 6.041e+04
          -2.818e+04 -5.362e+04  7.56e-03    0.0  375.0 -2.961e+04    -236.23     185.08      20.65 1.578e+04 -2.818e+04
38     22 1.524e+04 7.698e+05   -5.33e-03   0.0    0.0 -2.775e+04      -4.75    5768.61    4900.22 -1.393e+06 1.524e+04
          1.346e+04 -1.393e+06     -2.93    0.0  375.0 -2.634e+04      -4.75    5768.61    4900.22 7.698e+05 1.346e+04
38     23 6.460e+04 1.393e+06      -0.01    0.0    0.0 -2.661e+04    -259.19   -5767.30   -4851.14 1.393e+06 6.460e+04
          -3.259e+04 -7.695e+05     2.91    0.0  375.0 -2.521e+04    -259.19   -5767.30   -4851.14 -7.695e+05 -3.259e+04
38     24 2.399e+06 1.128e+04      2.74    0.0    0.0 -2.737e+04 -1.164e+04     156.05   -1509.46 -4.724e+04 2.399e+06
          -1.964e+06 -4.724e+04  -8.31e-03   0.0  375.0 -2.596e+04 -1.164e+04     156.05   -1509.46 1.128e+04 -1.964e+06
38     25 1.961e+06 1.559e+04     -2.69    0.0    0.0 -2.783e+04 1.163e+04     166.31    1477.72 -4.677e+04 -2.399e+06
          -2.399e+06 -4.677e+04  6.93e-03    0.0  375.0 -2.643e+04 1.163e+04     166.31    1477.72 1.559e+04 1.961e+06
38     26 1.666e+04 6.492e+05   -5.70e-03   0.0    0.0 -2.780e+04      12.82    5442.11    4788.25 -1.392e+06 1.185e+04
          1.185e+04 -1.392e+06     -2.09    0.0  375.0 -2.639e+04      12.82    5442.11    4788.25 6.492e+05 1.666e+04
38     27 6.821e+04 1.391e+06      -0.01    0.0    0.0 -2.656e+04    -277.80   -5460.34   -4743.13 1.391e+06 6.821e+04
          -3.597e+04 -6.562e+05     2.08    0.0  375.0 -2.515e+04    -277.80   -5460.34   -4743.13 -6.562e+05 -3.597e+04
38     28 2.030e+06 1.153e+04      0.84    0.0    0.0 -2.814e+04 -9299.58     152.93    -574.43 -4.582e+04 2.030e+06
          -1.458e+06 -4.582e+04  -6.64e-03   0.0  375.0 -2.674e+04 -9299.58     152.93    -574.43 1.153e+04 -1.458e+06
38     29 1.512e+06 1.523e+04     -0.86    0.0    0.0 -2.730e+04 9331.07     165.85     605.72 -4.697e+04 -1.988e+06
          -1.988e+06 -4.697e+04  6.54e-03    0.0  375.0 -2.589e+04 9331.07     165.85     605.72 1.523e+04 1.512e+06
38     30 1.606e+04 4.490e+05   -5.68e-03   0.0    0.0 -2.775e+04      9.31    4907.15    4810.93 -1.391e+06 1.256e+04
          1.256e+04 -1.391e+06     -2.01    0.0  375.0 -2.635e+04      9.31    4907.15    4810.93 4.490e+05 1.606e+04
38     31 6.594e+04 1.391e+06      -0.01    0.0    0.0 -2.663e+04    -266.50   -4907.14   -4750.51 1.391e+06 6.594e+04
          -3.400e+04 -4.492e+05     2.00    0.0  375.0 -2.522e+04    -266.50   -4907.14   -4750.51 -4.492e+05 -3.400e+04
38     32 2.397e+06 1.114e+04      1.67    0.0    0.0 -2.739e+04 -1.037e+04     154.64   -1339.99 -4.685e+04 2.397e+06
          -1.491e+06 -4.685e+04  -8.01e-03   0.0  375.0 -2.599e+04 -1.037e+04     154.64   -1339.99 1.114e+04 -1.491e+06
38     33 1.494e+06 1.574e+04     -1.67    0.0    0.0 -2.739e+04 1.037e+04     167.33    1340.23 -4.701e+04 -2.396e+06
          -2.396e+06 -4.701e+04  6.89e-03    0.0  375.0 -2.598e+04 1.037e+04     167.33    1340.23 1.574e+04 1.494e+06
38     34 1.606e+04 4.490e+05   -5.68e-03   0.0    0.0 -2.775e+04      9.31    4907.15    4810.93 -1.391e+06 1.256e+04
          1.256e+04 -1.391e+06     -2.01    0.0  375.0 -2.635e+04      9.31    4907.15    4810.93 4.490e+05 1.606e+04
38     35 6.594e+04 1.391e+06      -0.01    0.0    0.0 -2.663e+04    -266.50   -4907.14   -4750.51 1.391e+06 6.594e+04
          -3.400e+04 -4.492e+05     2.00    0.0  375.0 -2.522e+04    -266.50   -4907.14   -4750.51 -4.492e+05 -3.400e+04
38     36 2.097e+06 1.129e+04      0.90    0.0    0.0 -2.778e+04 -9329.32     152.12    -589.62 -4.576e+04 2.097e+06
          -1.401e+06 -4.576e+04  -6.68e-03   0.0  375.0 -2.638e+04 -9329.32     152.12    -589.62 1.129e+04 -1.401e+06
38     37 1.447e+06 1.542e+04     -0.91    0.0    0.0 -2.742e+04 9258.54     166.82     592.38 -4.713e+04 -2.025e+06
          -2.025e+06 -4.713e+04  6.55e-03    0.0  375.0 -2.602e+04 9258.54     166.82     592.38 1.542e+04 1.447e+06
38     38 2.834e+04 1.123e+04   -8.73e-03   0.0    0.0 -2.415e+04     -90.89     136.40      15.17 -3.992e+04 2.834e+04
          -5744.85 -3.992e+04   5.71e-03    0.0  375.0 -2.275e+04     -90.89     136.40      15.17 1.123e+04    -5744.85
38     39 4.132e+04 1.356e+04   -9.96e-03   0.0    0.0 -2.768e+04    -136.19     161.27      17.74 -4.691e+04 4.132e+04
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		-9751.09	-4.691e+04	6.65e-03	0.0	375.0	-2.627e+04	-136.19	161.27	17.74	1.356e+04	-9751.09
38	40	3.216e+04	1.167e+04	-9.14e-03	0.0	0.0	-2.482e+04	-110.90	141.16	15.76	-4.126e+04	3.216e+04
		-9430.36	-4.126e+04	5.89e-03	0.0	375.0	-2.342e+04	-110.90	141.16	15.76	1.167e+04	-9430.36
38	41	3.947e+04	1.323e+04	-9.78e-03	0.0	0.0	-2.717e+04	-129.72	157.71	17.37	-4.591e+04	3.947e+04
		-9178.77	-4.591e+04	6.51e-03	0.0	375.0	-2.577e+04	-129.72	157.71	17.37	1.323e+04	-9178.77
38	42	4.328e+04	1.367e+04	-0.01	0.0	0.0	-2.784e+04	-149.73	162.48	17.96	-4.726e+04	4.328e+04
		-1.286e+04	-4.726e+04	6.69e-03	0.0	375.0	-2.644e+04	-149.73	162.48	17.96	1.367e+04	-1.286e+04
38	43	2.834e+04	1.123e+04	-8.73e-03	0.0	0.0	-2.415e+04	-90.89	136.40	15.17	-3.992e+04	2.834e+04
		-5744.85	-3.992e+04	5.71e-03	0.0	375.0	-2.275e+04	-90.89	136.40	15.17	1.123e+04	-5744.85
38	44	3.947e+04	1.323e+04	-9.78e-03	0.0	0.0	-2.717e+04	-129.72	157.71	17.37	-4.591e+04	3.947e+04
		-9178.77	-4.591e+04	6.51e-03	0.0	375.0	-2.577e+04	-129.72	157.71	17.37	1.323e+04	-9178.77
38	45	2.834e+04	1.123e+04	-8.73e-03	0.0	0.0	-2.415e+04	-90.89	136.40	15.17	-3.992e+04	2.834e+04
		-5744.85	-3.992e+04	5.71e-03	0.0	375.0	-2.275e+04	-90.89	136.40	15.17	1.123e+04	-5744.85
38	46	3.947e+04	1.323e+04	-9.78e-03	0.0	0.0	-2.717e+04	-129.72	157.71	17.37	-4.591e+04	3.947e+04
		-9178.77	-4.591e+04	6.51e-03	0.0	375.0	-2.577e+04	-129.72	157.71	17.37	1.323e+04	-9178.77
39	1	4889.83	1.681e+04	-6.32e-03	0.0	0.0	-1.443e+04	18.98	-64.52	7.89	1.681e+04	-2263.76
		-2263.76	-7510.38	-3.25e-03	0.0	377.0	-1.296e+04	18.98	-64.52	7.89	-7510.38	4889.83
39	2	3882.86	1.778e+04	-7.19e-03	0.0	0.0	-1.702e+04	3.63	-66.64	9.81	1.778e+04	2516.16
		2516.16	-7345.82	-3.59e-03	0.0	377.0	-1.555e+04	3.63	-66.64	9.81	-7345.82	3882.86
39	3	1418.91	1.970e+04	-0.01	0.0	0.0	-1.433e+04	-31.01	-71.06	10.83	1.970e+04	1418.91
		-1.027e+04	-7092.38	-4.23e-03	0.0	377.0	-1.286e+04	-31.01	-71.06	10.83	-7092.38	-1.027e+04
39	4	6198.82	2.066e+04	-0.01	0.0	0.0	-1.692e+04	-46.36	-73.19	12.75	2.066e+04	6198.82
		-1.128e+04	-6927.82	-4.57e-03	0.0	377.0	-1.545e+04	-46.36	-73.19	12.75	-6927.82	-1.128e+04
39	5	7649.06	1.219e+04	-3.97e-03	0.0	0.0	-1.113e+04	27.41	-47.95	5.32	1.219e+04	-2685.62
		-2685.62	-5884.40	-2.25e-03	0.0	377.0	-9994.10	27.41	-47.95	5.32	-5884.40	7649.06
39	6	6642.09	1.316e+04	-4.92e-03	0.0	0.0	-1.372e+04	12.06	-50.07	7.24	1.316e+04	2094.30
		2094.30	-5719.83	-2.59e-03	0.0	377.0	-1.259e+04	12.06	-50.07	7.24	-5719.83	6642.09
39	7	997.04	1.508e+04	-7.73e-03	0.0	0.0	-1.102e+04	-22.57	-54.50	8.26	1.508e+04	997.04
		-7512.78	-5466.40	-3.23e-03	0.0	377.0	-9892.51	-22.57	-54.50	8.26	-5466.40	-7512.78
39	8	5776.96	1.604e+04	-8.60e-03	0.0	0.0	-1.361e+04	-37.92	-56.62	10.17	1.604e+04	5776.96
		-8519.76	-5301.83	-3.57e-03	0.0	377.0	-1.248e+04	-37.92	-56.62	10.17	-5301.83	-8519.76
39	9	7296.08	1.874e+04	-8.07e-03	0.0	0.0	-1.961e+04	-11.72	-68.76	11.73	1.874e+04	7296.08
		2875.88	-7181.25	-3.93e-03	0.0	377.0	-1.814e+04	-11.72	-68.76	11.73	-7181.25	2875.88
39	10	314.11	1.883e+04	-9.02e-03	0.0	0.0	-1.436e+04	-16.01	-69.10	9.95	1.883e+04	314.11
		-5723.46	-7217.78	-3.94e-03	0.0	377.0	-1.289e+04	-16.01	-69.10	9.95	-7217.78	-5723.46
39	11	9873.94	2.076e+04	-0.01	0.0	0.0	-1.954e+04	-46.71	-73.34	13.79	2.076e+04	9873.94
		-7737.41	-6888.65	-4.61e-03	0.0	377.0	-1.807e+04	-46.71	-73.34	13.79	-6888.65	-7737.41
39	12	6874.21	1.412e+04	-5.86e-03	0.0	0.0	-1.631e+04	-3.29	-52.19	9.15	1.412e+04	6874.21
		5635.11	-5555.27	-2.93e-03	0.0	377.0	-1.518e+04	-3.29	-52.19	9.15	-5555.27	5635.11
39	13	-107.76	1.421e+04	-6.57e-03	0.0	0.0	-1.105e+04	-7.58	-52.53	7.37	1.421e+04	-107.76
		-2964.23	-5591.80	-2.94e-03	0.0	377.0	-9922.99	-7.58	-52.53	7.37	-5591.80	-2964.23
39	14	9452.08	1.614e+04	-8.32e-03	0.0	0.0	-1.624e+04	-38.28	-56.78	11.21	1.614e+04	9452.08
		-4978.18	-5262.67	-3.61e-03	0.0	377.0	-1.511e+04	-38.28	-56.78	11.21	-5262.67	-4978.18
39	15	4279.76	1.283e+04	-4.73e-03	0.0	0.0	-1.110e+04	16.31	-49.40	5.97	1.283e+04	-1867.25
		-1867.25	-5791.51	-2.47e-03	0.0	377.0	-9971.52	16.31	-49.40	5.97	-5791.51	4279.76
39	16	3608.45	1.348e+04	-5.31e-03	0.0	0.0	-1.283e+04	6.07	-50.82	7.25	1.348e+04	1319.36
		1319.36	-5681.80	-2.69e-03	0.0	377.0	-1.170e+04	6.07	-50.82	7.25	-5681.80	3608.45
39	17	587.85	1.476e+04	-7.30e-03	0.0	0.0	-1.103e+04	-17.02	-53.77	7.93	1.476e+04	587.85
		-5828.13	-5512.84	-3.12e-03	0.0	377.0	-9903.80	-17.02	-53.77	7.93	-5512.84	-5828.13
39	18	3774.47	1.540e+04	-7.88e-03	0.0	0.0	-1.276e+04	-27.25	-55.18	9.21	1.540e+04	3774.47
		-6499.45	-5403.13	-3.35e-03	0.0	377.0	-1.163e+04	-27.25	-55.18	9.21	-5403.13	-6499.45
39	19	4505.97	1.412e+04	-5.89e-03	0.0	0.0	-1.456e+04	-4.16	-52.23	8.53	1.412e+04	4505.97
		2937.13	-5572.09	-2.92e-03	0.0	377.0	-1.343e+04	-4.16	-52.23	8.53	-5572.09	2937.13
39	20	-148.68	1.418e+04	-6.53e-03	0.0	0.0	-1.106e+04	-7.02	-52.46	7.34	1.418e+04	-148.68
		-2795.76	-5596.44	-2.93e-03	0.0	377.0	-9924.12	-7.02	-52.46	7.34	-5596.44	-2795.76
39	21	6224.55	1.547e+04	-7.69e-03	0.0	0.0	-1.451e+04	-27.49	-55.29	9.90	1.547e+04	6224.55
		-4138.40	-5377.02	-3.38e-03	0.0	377.0	-1.338e+04	-27.49	-55.29	9.90	-5377.02	-4138.40
39	22	1.818e+04	3.313e+05	-3.61e-03	0.0	0.0	-1.127e+04	96.45	226.75	2388.99	2.458e+05	-1.818e+04
		-1.818e+04	2.458e+05	-2.14	0.0	377.0	-1.013e+04	96.45	226.75	2388.99	3.313e+05	1.818e+04
39	23	1.780e+04	-2.321e+05	-9.03e-03	0.0	0.0	-1.086e+04	-106.01	-294.81	-2371.21	-2.321e+05	1.780e+04
		-2.216e+04	-3.432e+05	2.14	0.0	377.0	-9730.51	-106.01	-294.81	-2371.21	-3.432e+05	-2.216e+04
39	24	4.460e+05	1.904e+04	2.03	0.0	0.0	-1.113e+04	-5496.60	-79.44	-521.07	1.904e+04	4.460e+05
		-1.626e+06	-1.090e+04	-3.67e-03	0.0	377.0	-9994.17	-5496.60	-79.44	-521.07	-1.090e+04	-1.626e+06
39	25	1.626e+06	1.002e+04	-1.99	0.0	0.0	-1.168e+04	5503.12	-29.77	511.20	1.002e+04	-4.485e+05
		-4.485e+05	-1200.67	-2.23e-03	0.0	377.0	-1.055e+04	5503.12	-29.77	511.20	-1200.67	1.626e+06
39	26	2.023e+04	2.397e+05	-3.81e-03	0.0	0.0	-1.129e+04	105.79	117.52	2309.69	1.954e+05	-1.965e+04
		-1.965e+04	1.954e+05	-1.63	0.0	377.0	-1.016e+04	105.79	117.52	2309.69	2.397e+05	2.023e+04
39	27	1.939e+04	-1.757e+05	-8.93e-03	0.0	0.0	-1.084e+04	-116.09	-202.01	-2294.25	-1.757e+05	1.939e+04
		-2.437e+04	-2.519e+05	1.62	0.0	377.0	-9704.66	-116.09	-202.01	-2294.25	-2.519e+05	-2.437e+04
39	28	6.103e+05	1.717e+04	0.80	0.0	0.0	-1.136e+04	-3838.95	-69.74	-139.89	1.717e+04	6.103e+05
		-8.370e+05	-9125.72	-3.08e-03	0.0	377.0	-1.023e+04	-3838.95	-69.74	-139.89	-9125.72	-8.370e+05
39	29	8.558e+05	1.107e+04	-0.82	0.0	0.0	-1.077e+04	3996.77	-35.30	155.21	1.107e+04	-6.510e+05
		-6.510e+05	-2241.11	-2.70e-03	0.0	377.0	-9642.90	3996.77	-35.30	155.21	-2241.11	8.558e+05
39	30	1.604e+04	3.649e+05	-2.31e-03	0.0	0.0	-1.126e+04	84.75	1052.83	2911.02	-3.200e+04	-1.591e+04
		-1.591e+04	-3.200e+04	-2.09	0.0	377.0	-1.013e+04	84.75	1052.83	2911.02	3.649e+05	1.604e+04
39	31	1.504e+04	4.664e+04	-0.01	0.0	0.0	-1.087e+04	-91.25	-1125.21	-2896.99	4.664e+04	1.504e+04
		-1.937e+04	-3.776e+05	2.09	0.0	377.0	-9739.52	-91.25	-1125.21	-2896.99	-3.776e+05	-1.937e+04

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39   32  9.171e+05  1.879e+04       1.63      0.0     0.0-1.115e+04    -6745.66     -78.24    -485.61 1.879e+04 9.171e+05
             -1.626e+06 -1.071e+04   -3.60e-03    0.0   377.0-1.002e+04    -6745.66     -78.24    -485.61 -1.071e+04 -1.626e+06
39   33  1.626e+06  1.031e+04      -1.63      0.0     0.0-1.124e+04     6738.53     -31.13     549.34 1.031e+04 -9.144e+05
             -9.144e+05   -1422.29   -2.20e-03    0.0   377.0-1.010e+04     6738.53     -31.13     549.34   -1422.29 1.626e+06
39   34  1.604e+04  3.649e+05   -2.31e-03    0.0     0.0-1.126e+04       84.75    1052.83    2911.02-3.200e+04-1.591e+04
             -1.591e+04 -3.200e+04      -2.09     0.0   377.0-1.013e+04       84.75    1052.83    2911.02 3.649e+05 1.604e+04
39   35  1.504e+04  4.664e+04      -0.01      0.0     0.0-1.087e+04      -91.25   -1125.21   -2896.99 4.664e+04 1.504e+04
             -1.937e+04 -3.776e+05       2.09     0.0   377.0 -9739.52      -91.25   -1125.21   -2896.99-3.776e+05-1.937e+04
39   36  8.632e+05  1.736e+04       1.01      0.0     0.0-1.111e+04    -5295.19     -70.90    -194.82 1.736e+04 8.632e+05
             -1.133e+06   -9372.21   -3.15e-03    0.0   377.0 -9975.63    -5295.19     -70.90    -194.82   -9372.21 -1.133e+06
39   37  1.136e+06  1.104e+04      -1.01      0.0     0.0-1.108e+04     5396.13     -35.02     200.51 1.104e+04 -8.979e+05
             -8.979e+05   -2160.70   -2.64e-03    0.0   377.0 -9952.76     5396.13     -35.02     200.51   -2160.70 1.136e+06
39   38    4279.76  1.283e+04   -4.73e-03    0.0     0.0-1.110e+04       16.31     -49.40       5.97 1.283e+04   -1867.25
             -1867.25   -5791.51   -2.47e-03    0.0   377.0 -9971.52       16.31     -49.40       5.97   -5791.51    4279.76
39   39    -148.68  1.418e+04   -6.53e-03    0.0     0.0-1.106e+04       -7.02     -52.46       7.34 1.418e+04    -148.68
             -2795.76   -5596.44   -2.93e-03    0.0   377.0 -9924.12       -7.02     -52.46       7.34   -5596.44   -2795.76
39   40    4011.24  1.309e+04   -4.96e-03    0.0     0.0-1.179e+04       12.21     -49.97       6.48 1.309e+04    -592.61
             -592.61   -5747.62   -2.56e-03    0.0   377.0-1.066e+04       12.21     -49.97       6.48   -5747.62    4011.24
39   41    -394.19  1.399e+04   -6.27e-03    0.0     0.0-1.106e+04       -3.69     -52.02       7.14 1.399e+04    -394.19
             -1784.97   -5624.31   -2.86e-03    0.0   377.0 -9930.89       -3.69     -52.02       7.14   -5624.31   -1784.97
39   42     880.46  1.425e+04   -6.50e-03    0.0     0.0-1.175e+04       -7.78     -52.59       7.66 1.425e+04     880.46
             -2053.50   -5580.42   -2.95e-03    0.0   377.0-1.062e+04       -7.78     -52.59       7.66   -5580.42   -2053.50
39   43    4279.76  1.283e+04   -4.73e-03    0.0     0.0-1.110e+04       16.31     -49.40       5.97 1.283e+04   -1867.25
             -1867.25   -5791.51   -2.47e-03    0.0   377.0 -9971.52       16.31     -49.40       5.97   -5791.51    4279.76
39   44    -394.19  1.399e+04   -6.27e-03    0.0     0.0-1.106e+04       -3.69     -52.02       7.14 1.399e+04    -394.19
             -1784.97   -5624.31   -2.86e-03    0.0   377.0 -9930.89       -3.69     -52.02       7.14   -5624.31   -1784.97
39   45    4279.76  1.283e+04   -4.73e-03    0.0     0.0-1.110e+04       16.31     -49.40       5.97 1.283e+04   -1867.25
             -1867.25   -5791.51   -2.47e-03    0.0   377.0 -9971.52       16.31     -49.40       5.97   -5791.51    4279.76
39   46    -394.19  1.399e+04   -6.27e-03    0.0     0.0-1.106e+04       -3.69     -52.02       7.14 1.399e+04    -394.19
             -1784.97   -5624.31   -2.86e-03    0.0   377.0 -9930.89       -3.69     -52.02       7.14   -5624.31   -1784.97
40    1  1.945e+04  1.641e+04      -0.02      0.0     0.0-3.836e+04    -340.31     194.06      24.29-5.636e+04 1.945e+04
             -1.082e+05 -5.636e+04    7.94e-03    0.0   375.0-3.653e+04    -340.31     194.06      24.29 1.641e+04 -1.082e+05
40    2    5837.67  1.819e+04      -0.02      0.0     0.0-4.152e+04    -266.63     213.39      27.86-6.183e+04    5837.67
             -9.415e+04 -6.183e+04    8.68e-03    0.0   375.0-3.970e+04    -266.63     213.39      27.86 1.819e+04 -9.415e+04
40    3  2.853e+04  2.169e+04      -0.02      0.0     0.0-4.769e+04    -520.41     250.88      29.72-7.240e+04 2.853e+04
             -1.666e+05 -7.240e+04       0.01     0.0   375.0-4.586e+04    -520.41     250.88      29.72 2.169e+04 -1.666e+05
40    4  1.492e+04  2.347e+04      -0.02      0.0     0.0-5.085e+04    -446.73     270.22      33.29-7.786e+04 1.492e+04
             -1.526e+05 -7.786e+04       0.01     0.0   375.0-4.902e+04    -446.73     270.22      33.29 2.347e+04 -1.526e+05
40    5  1.263e+04  1.127e+04      -0.01      0.0     0.0-2.712e+04    -215.60     134.70      17.29-3.924e+04 1.263e+04
             -6.822e+04 -3.924e+04    5.55e-03    0.0   375.0-2.571e+04    -215.60     134.70      17.29 1.127e+04 -6.822e+04
40    6    -979.89  1.305e+04      -0.01      0.0     0.0-3.028e+04    -141.92     154.03      20.86-4.471e+04    -979.89
             -5.420e+04 -4.471e+04    6.29e-03    0.0   375.0-2.887e+04    -141.92     154.03      20.86 1.305e+04 -5.420e+04
40    7  2.172e+04  1.655e+04      -0.02      0.0     0.0-3.645e+04    -395.70     191.53      22.72-5.528e+04 2.172e+04
             -1.267e+05 -5.528e+04    7.72e-03    0.0   375.0-3.504e+04    -395.70     191.53      22.72 1.655e+04 -1.267e+05
40    8    8105.50  1.833e+04      -0.02      0.0     0.0-3.961e+04    -322.02     210.86      26.29-6.075e+04    8105.50
             -1.127e+05 -6.075e+04    8.46e-03    0.0   375.0-3.820e+04    -322.02     210.86      26.29 1.833e+04 -1.127e+05
40    9   -7772.53  1.998e+04      -0.02      0.0     0.0-4.468e+04    -192.95     232.72      31.43-6.729e+04   -7772.53
             -8.013e+04 -6.729e+04    9.43e-03    0.0   375.0-4.286e+04    -192.95     232.72      31.43 1.998e+04 -8.013e+04
40   10  2.581e+04  2.010e+04      -0.02      0.0     0.0-4.489e+04    -466.38     233.84      28.09-6.758e+04 2.581e+04
             -1.491e+05 -6.758e+04    9.46e-03    0.0   375.0-4.306e+04    -466.38     233.84      28.09 2.010e+04 -1.491e+05
40   11   -1412.75  2.367e+04      -0.02      0.0     0.0-5.121e+04    -319.02     272.50      35.23-7.852e+04   -1412.75
             -1.210e+05 -7.852e+04       0.01     0.0   375.0-4.938e+04    -319.02     272.50      35.23 2.367e+04 -1.210e+05
40   12 -1.459e+04  1.484e+04      -0.02      0.0     0.0-3.344e+04     -68.24     173.36      24.43-5.018e+04-1.459e+04
             -4.018e+04 -5.018e+04    7.04e-03    0.0   375.0-3.203e+04     -68.24     173.36      24.43 1.484e+04 -4.018e+04
40   13  1.899e+04  1.496e+04      -0.01      0.0     0.0-3.365e+04    -341.67     174.48      21.09-5.047e+04 1.899e+04
             -1.091e+05 -5.047e+04    7.07e-03    0.0   375.0-3.224e+04    -341.67     174.48      21.09 1.496e+04 -1.091e+05
40   14   -8230.31  1.853e+04      -0.02      0.0     0.0-3.997e+04    -194.31     213.14      28.23-6.140e+04   -8230.31
             -8.110e+04 -6.140e+04    8.56e-03    0.0   375.0-3.856e+04    -194.31     213.14      28.23 1.853e+04 -8.110e+04
40   15  1.465e+04  1.244e+04      -0.01      0.0     0.0-2.919e+04    -255.62     147.33      18.50-4.281e+04 1.465e+04
             -8.121e+04 -4.281e+04    6.03e-03    0.0   375.0-2.778e+04    -255.62     147.33      18.50 1.244e+04 -8.121e+04
40   16    5575.82  1.363e+04      -0.01      0.0     0.0-3.130e+04    -206.50     160.22      20.88-4.645e+04    5575.82
             -7.186e+04 -4.645e+04    6.53e-03    0.0   375.0-2.989e+04    -206.50     160.22      20.88 1.363e+04 -7.186e+04
40   17  2.071e+04  1.596e+04      -0.01      0.0     0.0-3.541e+04    -375.68     185.22      22.12-5.350e+04 2.071e+04
             -1.202e+05 -5.350e+04    7.48e-03    0.0   375.0-3.400e+04    -375.68     185.22      22.12 1.596e+04 -1.202e+05
40   18  1.163e+04  1.715e+04      -0.02      0.0     0.0-3.752e+04    -326.56     198.10      24.50-5.714e+04 1.163e+04
             -1.108e+05 -5.714e+04    7.97e-03    0.0   375.0-3.611e+04    -326.56     198.10      24.50 1.715e+04 -1.108e+05
40   19   -3497.64  1.482e+04      -0.01      0.0     0.0-3.340e+04    -157.38     173.10      23.26-5.009e+04   -3497.64
             -6.251e+04 -5.009e+04    7.02e-03    0.0   375.0-3.200e+04    -157.38     173.10      23.26 1.482e+04 -6.251e+04
40   20  1.889e+04  1.491e+04      -0.01      0.0     0.0-3.354e+04    -339.66     173.85      21.03-5.029e+04 1.889e+04
             -1.085e+05 -5.029e+04    7.04e-03    0.0   375.0-3.214e+04    -339.66     173.85      21.03 1.491e+04 -1.085e+05
40   21     742.21  1.728e+04      -0.02      0.0     0.0-3.776e+04    -241.43     199.62      25.79-5.758e+04     742.21
             -8.979e+04 -5.758e+04    8.04e-03    0.0   375.0-3.635e+04    -241.43     199.62      25.79 1.728e+04 -8.979e+04
40   22  6.335e+04  7.708e+05   -6.55e-03    0.0     0.0-3.332e+04    -556.40    5925.46    3546.30-1.451e+06 6.335e+04
             -1.453e+05 -1.451e+06      -2.94     0.0   375.0-3.191e+04    -556.40    5925.46    3546.30 7.708e+05 -1.453e+05
40   23 -2.376e+04  1.451e+06      -0.02      0.0     0.0-3.254e+04    -113.76   -5921.63   -3498.56 1.451e+06 -2.376e+04
             -6.642e+04 -7.696e+05       2.93     0.0   375.0-3.113e+04    -113.76   -5921.63   -3498.56 -7.696e+05 -6.642e+04
40   24  2.467e+06  1.486e+04       2.75      0.0     0.0-2.971e+04-1.184e+04     162.43   -1523.32-4.605e+04 2.467e+06
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Elem	Node											
		-1.973e+06	-4.605e+04	6.65e-03	0.0	375.0	-2.831e+04	-1.184e+04	162.43	-1523.32	1.486e+04	-1.973e+06
40	25	1.977e+06	1.503e+04	-2.71	0.0	0.0	-3.539e+04	1.185e+04	187.17	1515.66	-5.516e+04	-2.467e+06
		-2.467e+06	-5.516e+04	-8.49e-03	0.0	375.0	-3.398e+04	1.185e+04	187.17	1515.66	1.503e+04	1.977e+06
40	26	6.412e+04	6.427e+05	-6.82e-03	0.0	0.0	-3.335e+04	-560.60	5578.99	3257.32	-1.449e+06	6.412e+04
		-1.461e+05	-1.449e+06	-2.11	0.0	375.0	-3.194e+04	-560.60	5578.99	3257.32	6.427e+05	-1.461e+05
40	27	-2.503e+04	1.449e+06	-0.02	0.0	0.0	-3.250e+04	-107.07	-5601.77	-3211.40	1.449e+06	-2.503e+04
		-6.519e+04	-6.515e+05	2.09	0.0	375.0	-3.110e+04	-107.07	-5601.77	-3211.40	-6.515e+05	-6.519e+04
40	28	2.139e+06	1.452e+04	0.84	0.0	0.0	-2.930e+04	-9831.43	160.37	-593.08	-4.562e+04	2.139e+06
		-1.547e+06	-4.562e+04	6.33e-03	0.0	375.0	-2.789e+04	-9831.43	160.37	-593.08	1.452e+04	-1.547e+06
40	29	1.298e+06	1.478e+04	-0.88	0.0	0.0	-3.570e+04	9092.64	182.19	642.22	-5.354e+04	-2.112e+06
		-2.112e+06	-5.354e+04	7.58e-03	0.0	375.0	-3.429e+04	9092.64	182.19	642.22	1.478e+04	1.298e+06
40	30	6.273e+04	4.479e+05	-6.88e-03	0.0	0.0	-3.333e+04	-552.26	5058.23	3096.97	-1.449e+06	6.273e+04
		-1.444e+05	-1.449e+06	-2.03	0.0	375.0	-3.192e+04	-552.26	5058.23	3096.97	4.479e+05	-1.444e+05
40	31	-2.180e+04	1.449e+06	-0.02	0.0	0.0	-3.254e+04	-124.64	-5067.19	-3045.92	1.449e+06	-2.180e+04
		-6.854e+04	-4.515e+05	2.01	0.0	375.0	-3.114e+04	-124.64	-5067.19	-3045.92	-4.515e+05	-6.854e+04
40	32	2.465e+06	1.484e+04	1.68	0.0	0.0	-2.942e+04	-1.057e+04	162.27	-1351.98	-4.601e+04	2.465e+06
		-1.500e+06	-4.601e+04	6.61e-03	0.0	375.0	-2.802e+04	-1.057e+04	162.27	-1351.98	1.484e+04	-1.500e+06
40	33	1.527e+06	1.496e+04	-1.69	0.0	0.0	-3.558e+04	1.064e+04	186.89	1377.71	-5.512e+04	-2.465e+06
		-2.465e+06	-5.512e+04	-8.42e-03	0.0	375.0	-3.417e+04	1.064e+04	186.89	1377.71	1.496e+04	1.527e+06
40	34	6.273e+04	4.479e+05	-6.88e-03	0.0	0.0	-3.333e+04	-552.26	5058.23	3096.97	-1.449e+06	6.273e+04
		-1.444e+05	-1.449e+06	-2.03	0.0	375.0	-3.192e+04	-552.26	5058.23	3096.97	4.479e+05	-1.444e+05
40	35	-2.180e+04	1.449e+06	-0.02	0.0	0.0	-3.254e+04	-124.64	-5067.19	-3045.92	1.449e+06	-2.180e+04
		-6.854e+04	-4.515e+05	2.01	0.0	375.0	-3.114e+04	-124.64	-5067.19	-3045.92	-4.515e+05	-6.854e+04
40	36	2.208e+06	1.458e+04	0.91	0.0	0.0	-2.916e+04	-9805.68	159.88	-611.60	-4.538e+04	2.208e+06
		-1.469e+06	-4.538e+04	6.28e-03	0.0	375.0	-2.775e+04	-9805.68	159.88	-611.60	1.458e+04	-1.469e+06
40	37	1.218e+06	1.486e+04	-0.93	0.0	0.0	-3.593e+04	8991.45	183.83	631.82	-5.408e+04	-2.154e+06
		-2.154e+06	-5.408e+04	7.67e-03	0.0	375.0	-3.452e+04	8991.45	183.83	631.82	1.486e+04	1.218e+06
40	38	1.465e+04	1.244e+04	-0.01	0.0	0.0	-2.919e+04	-255.62	147.33	18.50	-4.281e+04	1.465e+04
		-8.121e+04	-4.281e+04	6.03e-03	0.0	375.0	-2.778e+04	-255.62	147.33	18.50	1.244e+04	-8.121e+04
40	39	1.889e+04	1.491e+04	-0.01	0.0	0.0	-3.354e+04	-339.66	173.85	21.03	-5.029e+04	1.889e+04
		-1.085e+05	-5.029e+04	7.04e-03	0.0	375.0	-3.214e+04	-339.66	173.85	21.03	1.491e+04	-1.085e+05
40	40	1.102e+04	1.292e+04	-0.01	0.0	0.0	-3.003e+04	-235.97	152.49	19.45	-4.426e+04	1.102e+04
		-7.747e+04	-4.426e+04	6.23e-03	0.0	375.0	-2.863e+04	-235.97	152.49	19.45	1.292e+04	-7.747e+04
40	41	1.828e+04	1.455e+04	-0.01	0.0	0.0	-3.292e+04	-327.66	170.06	20.67	-4.922e+04	1.828e+04
		-1.046e+05	-4.922e+04	6.90e-03	0.0	375.0	-3.152e+04	-327.66	170.06	20.67	1.455e+04	-1.046e+05
40	42	1.465e+04	1.503e+04	-0.01	0.0	0.0	-3.376e+04	-308.01	175.22	21.62	-5.068e+04	1.465e+04
		-1.008e+05	-5.068e+04	7.10e-03	0.0	375.0	-3.236e+04	-308.01	175.22	21.62	1.503e+04	-1.008e+05
40	43	1.465e+04	1.244e+04	-0.01	0.0	0.0	-2.919e+04	-255.62	147.33	18.50	-4.281e+04	1.465e+04
		-8.121e+04	-4.281e+04	6.03e-03	0.0	375.0	-2.778e+04	-255.62	147.33	18.50	1.244e+04	-8.121e+04
40	44	1.828e+04	1.455e+04	-0.01	0.0	0.0	-3.292e+04	-327.66	170.06	20.67	-4.922e+04	1.828e+04
		-1.046e+05	-4.922e+04	6.90e-03	0.0	375.0	-3.152e+04	-327.66	170.06	20.67	1.455e+04	-1.046e+05
40	45	1.465e+04	1.244e+04	-0.01	0.0	0.0	-2.919e+04	-255.62	147.33	18.50	-4.281e+04	1.465e+04
		-8.121e+04	-4.281e+04	6.03e-03	0.0	375.0	-2.778e+04	-255.62	147.33	18.50	1.244e+04	-8.121e+04
40	46	1.828e+04	1.455e+04	-0.01	0.0	0.0	-3.292e+04	-327.66	170.06	20.67	-4.922e+04	1.828e+04
		-1.046e+05	-4.922e+04	6.90e-03	0.0	375.0	-3.152e+04	-327.66	170.06	20.67	1.455e+04	-1.046e+05
41	1	1.320e+05	1.677e+04	-5.98e-03	0.0	0.0	-1.766e+04	-738.97	-61.33	-4.92	1.677e+04	1.320e+05
		-1.466e+05	-6354.18	-3.55e-03	0.0	377.0	-1.619e+04	-738.97	-61.33	-4.92	-6354.18	-1.466e+05
41	2	1.397e+05	1.785e+04	-6.79e-03	0.0	0.0	-2.095e+04	-812.45	-63.84	-5.71	1.785e+04	1.397e+05
		-1.666e+05	-6213.10	-3.92e-03	0.0	377.0	-1.948e+04	-812.45	-63.84	-5.71	-6213.10	-1.666e+05
41	3	1.634e+05	1.997e+04	-0.01	0.0	0.0	-1.744e+04	-835.67	-68.88	-6.98	1.997e+04	1.634e+05
		-1.516e+05	-5995.92	-4.61e-03	0.0	377.0	-1.597e+04	-835.67	-68.88	-6.98	-5995.92	-1.516e+05
41	4	1.711e+05	2.106e+04	-0.01	0.0	0.0	-2.074e+04	-909.15	-71.39	-7.77	2.106e+04	1.711e+05
		-1.717e+05	-5854.85	-4.98e-03	0.0	377.0	-1.927e+04	-909.15	-71.39	-7.77	-5854.85	-1.717e+05
41	5	9.352e+04	1.208e+04	4.15e-03	0.0	0.0	-1.364e+04	-543.64	-45.24	-3.26	1.208e+04	9.352e+04
		-1.114e+05	-4979.69	-2.46e-03	0.0	377.0	-1.251e+04	-543.64	-45.24	-3.26	-4979.69	-1.114e+05
41	6	1.012e+05	1.316e+04	5.79e-03	0.0	0.0	-1.693e+04	-617.13	-47.75	-4.05	1.316e+04	1.012e+05
		-1.315e+05	-4838.61	-2.83e-03	0.0	377.0	-1.580e+04	-617.13	-47.75	-4.05	-4838.61	-1.315e+05
41	7	1.249e+05	1.528e+04	-8.26e-03	0.0	0.0	-1.342e+04	-640.34	-52.79	-5.32	1.528e+04	1.249e+05
		-1.165e+05	-4621.44	-3.52e-03	0.0	377.0	-1.229e+04	-640.34	-52.79	-5.32	-4621.44	-1.165e+05
41	8	1.326e+05	1.637e+04	-8.28e-03	0.0	0.0	-1.672e+04	-713.83	-55.30	-6.11	1.637e+04	1.326e+05
		-1.366e+05	-4480.36	-3.89e-03	0.0	377.0	-1.559e+04	-713.83	-55.30	-6.11	-4480.36	-1.366e+05
41	9	1.474e+05	1.894e+04	-7.60e-03	0.0	0.0	-2.425e+04	-885.94	-66.34	-6.50	1.894e+04	1.474e+05
		-1.866e+05	-6072.03	-4.29e-03	0.0	377.0	-2.278e+04	-885.94	-66.34	-6.50	-6072.03	-1.866e+05
41	10	1.540e+05	1.901e+04	-9.34e-03	0.0	0.0	-1.751e+04	-806.66	-66.62	-6.36	1.901e+04	1.540e+05
		-1.501e+05	-6103.40	-4.29e-03	0.0	377.0	-1.604e+04	-806.66	-66.62	-6.36	-6103.40	-1.501e+05
41	11	1.693e+05	2.118e+04	-0.01	0.0	0.0	-2.410e+04	-953.63	-71.63	-7.94	2.118e+04	1.693e+05
		-1.902e+05	-5821.25	-5.04e-03	0.0	377.0	-2.263e+04	-953.63	-71.63	-7.94	-5821.25	-1.902e+05
41	12	1.088e+05	1.425e+04	7.43e-03	0.0	0.0	-2.023e+04	-690.62	-50.25	-4.84	1.425e+04	1.088e+05
		-1.515e+05	-4697.54	-3.20e-03	0.0	377.0	-1.910e+04	-690.62	-50.25	-4.84	-4697.54	-1.515e+05
41	13	1.155e+05	1.432e+04	-6.69e-03	0.0	0.0	-1.349e+04	-611.33	-50.53	-4.70	1.432e+04	1.155e+05
		-1.150e+05	-4728.91	-3.20e-03	0.0	377.0	-1.236e+04	-611.33	-50.53	-4.70	-4728.91	-1.150e+05
41	14	1.308e+05	1.649e+04	-7.93e-03	0.0	0.0	-2.008e+04	-758.31	-55.54	-6.28	1.649e+04	1.308e+05
		-1.551e+05	-4446.76	-3.94e-03	0.0	377.0	-1.895e+04	-758.31	-55.54	-6.28	-4446.76	-1.551e+05
41	15	1.005e+05	1.279e+04	-4.47e-03	0.0	0.0	-1.359e+04	-565.13	-46.92	-3.72	1.279e+04	1.005e+05
		-1.126e+05	-4900.08	-2.69e-03	0.0	377.0	-1.246e+04	-565.13	-46.92	-3.72	-4900.08	-1.126e+05
41	16	1.056e+05	1.351e+04	-5.01e-03	0.0	0.0	-1.579e+04	-614.12	-48.59	-4.24	1.351e+04	1.056e+05
		-1.259e+05	-4806.03	-2.94e-03	0.0	377.0	-1.466e+04	-614.12	-48.59	-4.24	-4806.03	-1.259e+05

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41   17 1.214e+05 1.493e+04   -7.68e-03      0.0     0.0-1.345e+04    -629.60     -51.95      -5.09 1.493e+04 1.214e+05
        -1.160e+05   -4661.24  -3.40e-03      0.0   377.0-1.232e+04    -629.60     -51.95      -5.09   -4661.24 -1.160e+05
41   18 1.265e+05 1.565e+04   -7.58e-03      0.0     0.0-1.564e+04    -678.59     -53.63      -5.61 1.565e+04 1.265e+05
        -1.293e+05   -4567.19  -3.65e-03      0.0   377.0-1.451e+04    -678.59     -53.63      -5.61   -4567.19 -1.293e+05
41   19 1.107e+05 1.424e+04   -5.55e-03      0.0     0.0-1.798e+04    -663.11     -50.26      -4.77 1.424e+04 1.107e+05
        -1.393e+05   -4711.98  -3.19e-03      0.0   377.0-1.685e+04    -663.11     -50.26      -4.77   -4711.98 -1.393e+05
41   20 1.151e+05 1.428e+04   -6.63e-03      0.0     0.0-1.349e+04    -610.26     -50.44      -4.68 1.428e+04 1.151e+05
        -1.149e+05   -4732.89  -3.19e-03      0.0   377.0-1.236e+04    -610.26     -50.44      -4.68   -4732.89 -1.149e+05
41   21 1.254e+05 1.573e+04   -7.35e-03      0.0     0.0-1.788e+04    -708.24     -53.79      -5.73 1.573e+04 1.254e+05
        -1.417e+05   -4544.79  -3.68e-03      0.0   377.0-1.675e+04    -708.24     -53.79      -5.73   -4544.79 -1.417e+05
41   22 1.272e+05 2.989e+05   -5.72e-03      0.0     0.0-1.364e+04    -688.38     -43.88     329.31 2.989e+05 1.272e+05
        -1.323e+05 2.824e+05      -2.15      0.0   377.0-1.251e+04    -688.38     -43.88     329.31 2.824e+05 -1.323e+05
41   23 1.001e+05-2.865e+05   -9.00e-03      0.0     0.0-1.337e+04    -526.73     -14.94    -329.31-2.865e+05 1.001e+05
        -9.846e+04-2.921e+05       2.15      0.0   377.0-1.224e+04    -526.73     -14.94    -329.31-2.921e+05 -9.846e+04
41   24 4.372e+05 1.059e+04       2.03      0.0     0.0-1.290e+04   -5539.51     -32.74    -539.56 1.059e+04 4.372e+05
        -1.651e+06   -1755.75  -2.53e-03      0.0   377.0-1.177e+04   -5539.51     -32.74    -539.56   -1755.75 -1.651e+06
41   25 1.651e+06 1.845e+04      -1.99      0.0     0.0-1.473e+04    5526.77     -70.84     509.54 1.845e+04 -4.328e+05
        -4.328e+05   -8252.55  -3.89e-03      0.0   377.0-1.360e+04    5526.77     -70.84     509.54   -8252.55 1.651e+06
41   26 1.282e+05 2.492e+05   -5.77e-03      0.0     0.0-1.366e+04    -694.61    -128.40     283.25 2.492e+05 1.282e+05
        -1.336e+05 2.008e+05      -1.63      0.0   377.0-1.252e+04    -694.61    -128.40     283.25 2.008e+05 -1.336e+05
41   27 9.896e+04-2.112e+05   -8.84e-03      0.0     0.0-1.336e+04    -519.48      45.73    -291.38-2.285e+05 9.896e+04
        -9.688e+04-2.285e+05       1.63      0.0   377.0-1.223e+04    -519.48      45.73    -291.38-2.112e+05 -9.688e+04
41   28 6.988e+05 1.107e+04       0.80      0.0     0.0-1.299e+04   -4473.63     -35.32    -154.88 1.107e+04 6.988e+05
        -9.877e+05   -2248.60  -2.75e-03      0.0   377.0-1.186e+04   -4473.63     -35.32    -154.88   -2248.60 -9.877e+05
41   29 7.579e+05 1.728e+04      -0.82      0.0     0.0-1.429e+04    3199.82     -65.33     146.81 1.728e+04 -4.484e+05
        -4.484e+05   -7352.75  -3.54e-03      0.0   377.0-1.316e+04    3199.82     -65.33     146.81   -7352.75 7.579e+05
41   30 1.300e+05 3.133e+05   -5.51e-03      0.0     0.0-1.365e+04    -702.96     774.53     969.86 2.131e+04 1.300e+05
        -1.350e+05 2.131e+04      -2.10      0.0   377.0-1.252e+04    -702.96     774.53     969.86 3.133e+05 -1.350e+05
41   31 9.791e+04   -4056.57      -0.01      0.0     0.0-1.337e+04    -515.59    -850.33    -963.34   -4056.57 9.791e+04
        -9.647e+04-3.246e+05       2.10      0.0   377.0-1.224e+04    -515.59    -850.33    -963.34-3.246e+05 -9.647e+04
41   32 9.087e+05 1.065e+04       1.63      0.0     0.0-1.261e+04   -6789.51     -33.14    -500.05 1.065e+04 9.087e+05
        -1.651e+06   -1839.46  -2.53e-03      0.0   377.0-1.148e+04   -6789.51     -33.14    -500.05   -1839.46 -1.651e+06
41   33 1.593e+06 1.837e+04      -1.63      0.0     0.0-1.492e+04    6563.45     -70.46     540.05 1.837e+04 -8.809e+05
        -8.809e+05   -8193.61  -3.91e-03      0.0   377.0-1.379e+04    6563.45     -70.46     540.05   -8193.61 1.593e+06
41   34 1.300e+05 3.133e+05   -5.51e-03      0.0     0.0-1.365e+04    -702.96     774.53     969.86 2.131e+04 1.300e+05
        -1.350e+05 2.131e+04      -2.10      0.0   377.0-1.252e+04    -702.96     774.53     969.86 3.133e+05 -1.350e+05
41   35 9.791e+04   -4056.57      -0.01      0.0     0.0-1.337e+04    -515.59    -850.33    -963.34   -4056.57 9.791e+04
        -9.647e+04-3.246e+05       2.10      0.0   377.0-1.224e+04    -515.59    -850.33    -963.34-3.246e+05 -9.647e+04
41   36 9.379e+05 1.085e+04       1.01      0.0     0.0-1.298e+04   -5885.26     -34.26    -204.11 1.085e+04 9.379e+05
        -1.281e+06   -2065.18  -2.69e-03      0.0   377.0-1.185e+04   -5885.26     -34.26    -204.11   -2065.18 -1.281e+06
41   37 1.035e+06 1.752e+04      -1.01      0.0     0.0-1.432e+04    4557.52     -66.42     186.33 1.752e+04 -6.837e+05
        -6.837e+05   -7516.60  -3.60e-03      0.0   377.0-1.318e+04    4557.52     -66.42     186.33   -7516.60 1.035e+06
41   38 1.005e+05 1.279e+04   -4.47e-03      0.0     0.0-1.359e+04    -565.13     -46.92      -3.72 1.279e+04 1.005e+05
        -1.126e+05   -4900.08  -2.69e-03      0.0   377.0-1.246e+04    -565.13     -46.92      -3.72   -4900.08 -1.126e+05
41   39 1.151e+05 1.428e+04   -6.63e-03      0.0     0.0-1.349e+04    -610.26     -50.44      -4.68 1.428e+04 1.151e+05
        -1.149e+05   -4732.89  -3.19e-03      0.0   377.0-1.236e+04    -610.26     -50.44      -4.68   -4732.89 -1.149e+05
41   40 1.025e+05 1.308e+04   -4.68e-03      0.0     0.0-1.447e+04    -584.73     -47.59      -3.93 1.308e+04 1.025e+05
        -1.179e+05   -4862.46  -2.79e-03      0.0   377.0-1.334e+04    -584.73     -47.59      -3.93   -4862.46 -1.179e+05
41   41 1.130e+05 1.407e+04   -6.28e-03      0.0     0.0-1.350e+04    -603.81     -49.94      -4.54 1.407e+04 1.130e+05
        -1.146e+05   -4756.78  -3.12e-03      0.0   377.0-1.237e+04    -603.81     -49.94      -4.54   -4756.78 -1.146e+05
41   42 1.151e+05 1.436e+04   -6.23e-03      0.0     0.0-1.438e+04    -623.41     -50.61      -4.75 1.436e+04 1.151e+05
        -1.199e+05   -4719.16  -3.22e-03      0.0   377.0-1.325e+04    -623.41     -50.61      -4.75   -4719.16 -1.199e+05
41   43 1.005e+05 1.279e+04   -4.47e-03      0.0     0.0-1.359e+04    -565.13     -46.92      -3.72 1.279e+04 1.005e+05
        -1.126e+05   -4900.08  -2.69e-03      0.0   377.0-1.246e+04    -565.13     -46.92      -3.72   -4900.08 -1.126e+05
41   44 1.130e+05 1.407e+04   -6.28e-03      0.0     0.0-1.350e+04    -603.81     -49.94      -4.54 1.407e+04 1.130e+05
        -1.146e+05   -4756.78  -3.12e-03      0.0   377.0-1.237e+04    -603.81     -49.94      -4.54   -4756.78 -1.146e+05
41   45 1.005e+05 1.279e+04   -4.47e-03      0.0     0.0-1.359e+04    -565.13     -46.92      -3.72 1.279e+04 1.005e+05
        -1.126e+05   -4900.08  -2.69e-03      0.0   377.0-1.246e+04    -565.13     -46.92      -3.72   -4900.08 -1.126e+05
41   46 1.130e+05 1.407e+04   -6.28e-03      0.0     0.0-1.350e+04    -603.81     -49.94      -4.54 1.407e+04 1.130e+05
        -1.146e+05   -4756.78  -3.12e-03      0.0   377.0-1.237e+04    -603.81     -49.94      -4.54   -4756.78 -1.146e+05
42    1 2.782e+05 1.190e+04      -0.03      0.0     0.0-2.708e+04     905.07     170.35      23.47-5.198e+04-6.116e+04
        -6.116e+04-5.198e+04   7.92e-03      0.0   375.0-2.525e+04     905.07     170.35      23.47 1.190e+04 2.782e+05
42    2 2.786e+05 1.581e+04      -0.03      0.0     0.0-2.877e+04     933.48     195.70      31.17-5.758e+04-7.142e+04
        -7.142e+04-5.758e+04   8.30e-03      0.0   375.0-2.694e+04     933.48     195.70      31.17 1.581e+04 2.786e+05
42    3 4.685e+05 2.411e+04      -0.04      0.0     0.0-3.223e+04    1651.89     249.41      18.79-6.942e+04-1.510e+05
        -1.510e+05-6.942e+04   9.16e-03      0.0   375.0-3.040e+04    1651.89     249.41      18.79 2.411e+04 4.685e+05
42    4 4.689e+05 2.801e+04      -0.04      0.0     0.0-3.391e+04    1680.31     274.76      26.48-7.502e+04-1.612e+05
        -1.612e+05-7.502e+04   9.64e-03      0.0   375.0-3.209e+04    1680.31     274.76      26.48 2.801e+04 4.689e+05
42    5 1.652e+05   6026.94      -0.02      0.0     0.0-1.951e+04     504.71     110.76      19.25-3.551e+04-2.402e+04
        -2.402e+04-3.551e+04   5.79e-03      0.0   375.0-1.811e+04     504.71     110.76      19.25   6026.94 1.652e+05
42    6 1.656e+05   9929.98      -0.02      0.0     0.0-2.120e+04     533.13     136.11      26.95-4.111e+04-3.429e+04
        -3.429e+04-4.111e+04   6.17e-03      0.0   375.0-1.979e+04     533.13     136.11      26.95   9929.98 1.656e+05
42    7 3.555e+05 1.823e+04      -0.03      0.0     0.0-2.466e+04    1251.54     189.82      14.57-5.295e+04-1.138e+05
        -1.138e+05-5.295e+04   7.01e-03      0.0   375.0-2.325e+04    1251.54     189.82      14.57 1.823e+04 3.555e+05
42    8 3.559e+05 2.214e+04      -0.03      0.0     0.0-2.634e+04    1279.95     215.17      22.27-5.855e+04-1.241e+05
        -1.241e+05-5.855e+04   7.49e-03      0.0   375.0-2.494e+04    1279.95     215.17      22.27 2.214e+04 3.559e+05
42    9 2.790e+05 1.971e+04      -0.03      0.0     0.0-3.045e+04     961.90     221.05      38.87-6.318e+04-8.169e+04
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		-8.169e+04	-6.318e+04	8.68e-03	0.0	375.0	-2.862e+04	961.90	221.05	38.87	1.971e+04	2.790e+05
42	10	4.114e+05	2.045e+04	-0.03	0.0	0.0	-3.069e+04	1427.84	225.69	20.19	-6.418e+04	-1.240e+05
		-1.240e+05	-6.418e+04	8.74e-03	0.0	375.0	-2.886e+04	1427.84	225.69	20.19	2.045e+04	4.114e+05
42	11	4.122e+05	2.825e+04	-0.04	0.0	0.0	-3.405e+04	1484.67	276.39	35.59	-7.539e+04	-1.445e+05
		-1.445e+05	-7.539e+04	9.67e-03	0.0	375.0	-3.222e+04	1484.67	276.39	35.59	2.825e+04	4.122e+05
42	12	1.660e+05	1.383e+04	-0.02	0.0	0.0	-2.288e+04	561.54	161.47	34.65	-4.672e+04	-4.455e+04
		-4.455e+04	-4.672e+04	6.55e-03	0.0	375.0	-2.147e+04	561.54	161.47	34.65	1.383e+04	1.660e+05
42	13	2.984e+05	1.457e+04	-0.03	0.0	0.0	-2.312e+04	1027.49	166.11	15.98	-4.772e+04	-8.688e+04
		-8.688e+04	-4.772e+04	6.61e-03	0.0	375.0	-2.171e+04	1027.49	166.11	15.98	1.457e+04	2.984e+05
42	14	2.992e+05	2.238e+04	-0.03	0.0	0.0	-2.648e+04	1084.32	216.81	31.37	-5.892e+04	-1.074e+05
		-1.074e+05	-5.892e+04	7.52e-03	0.0	375.0	-2.508e+04	1084.32	216.81	31.37	2.238e+04	2.992e+05
42	15	2.075e+05	8739.58	-0.02	0.0	0.0	-2.066e+04	670.67	128.33	18.21	-3.938e+04	-4.397e+04
		-4.397e+04	-3.938e+04	6.05e-03	0.0	375.0	-1.925e+04	670.67	128.33	18.21	8739.58	2.075e+05
42	16	2.078e+05	1.134e+04	-0.02	0.0	0.0	-2.178e+04	689.62	145.23	23.35	-4.312e+04	-5.082e+04
		-5.082e+04	-4.312e+04	6.31e-03	0.0	375.0	-2.037e+04	689.62	145.23	23.35	1.134e+04	2.078e+05
42	17	3.344e+05	1.688e+04	-0.03	0.0	0.0	-2.409e+04	1168.56	181.04	15.09	-5.101e+04	-1.038e+05
		-1.038e+05	-5.101e+04	6.85e-03	0.0	375.0	-2.268e+04	1168.56	181.04	15.09	1.688e+04	3.344e+05
42	18	3.346e+05	1.948e+04	-0.03	0.0	0.0	-2.521e+04	1187.50	197.94	20.22	-5.475e+04	-1.107e+05
		-1.107e+05	-5.475e+04	7.16e-03	0.0	375.0	-2.380e+04	1187.50	197.94	20.22	1.948e+04	3.346e+05
42	19	2.080e+05	1.394e+04	-0.02	0.0	0.0	-2.290e+04	708.56	162.13	28.48	-4.686e+04	-5.766e+04
		-5.766e+04	-4.686e+04	6.56e-03	0.0	375.0	-2.150e+04	708.56	162.13	28.48	1.394e+04	2.080e+05
42	20	2.963e+05	1.444e+04	-0.03	0.0	0.0	-2.306e+04	1019.19	165.23	16.03	-4.752e+04	-8.588e+04
		-8.588e+04	-4.752e+04	6.60e-03	0.0	375.0	-2.165e+04	1019.19	165.23	16.03	1.444e+04	2.963e+05
42	21	2.968e+05	1.964e+04	-0.03	0.0	0.0	-2.530e+04	1057.08	199.03	26.29	-5.500e+04	-9.957e+04
		-9.957e+04	-5.500e+04	7.19e-03	0.0	375.0	-2.390e+04	1057.08	199.03	26.29	1.964e+04	2.968e+05
42	22	2.324e+05	1.331e+06	-0.02	0.0	0.0	-2.773e+04	623.46	7143.67	2679.13	-1.348e+06	-1381.60
		-1381.60	-1.348e+06	-2.94	0.0	375.0	-2.633e+04	623.46	7143.67	2679.13	1.331e+06	2.324e+05
42	23	3.326e+05	1.348e+06	-0.03	0.0	0.0	-1.783e+04	1299.55	-7142.12	-2631.90	1.348e+06	-1.548e+05
		-1.548e+05	-1.330e+06	2.93	0.0	375.0	-1.642e+04	1299.55	-7142.12	-2631.90	-1.330e+06	3.326e+05
42	24	2.345e+06	3.127e+04	2.73	0.0	0.0	-1.206e+04	-9790.47	193.65	-2381.04	-4.135e+04	2.345e+06
		-1.326e+06	-4.135e+04	4.56e-03	0.0	375.0	-1.066e+04	-9790.47	193.65	-2381.04	3.127e+04	-1.326e+06
42	25	1.293e+06	-6813.01	-2.69	0.0	0.0	-3.363e+04	9701.01	110.94	2387.01	-4.842e+04	-2.345e+06
		-2.345e+06	-4.842e+04	-0.01	0.0	375.0	-3.223e+04	9701.01	110.94	2387.01	-6813.01	1.293e+06
42	26	2.308e+05	1.331e+06	-0.02	0.0	0.0	-2.837e+04	613.66	7140.05	2399.81	-1.347e+06	692.66
		692.66	-1.347e+06	-2.11	0.0	375.0	-2.697e+04	613.66	7140.05	2399.81	1.331e+06	2.308e+05
42	27	3.347e+05	1.346e+06	-0.03	0.0	0.0	-1.715e+04	1313.02	-7140.23	-2355.94	1.346e+06	-1.577e+05
		-1.577e+05	-1.331e+06	2.09	0.0	375.0	-1.574e+04	1313.02	-7140.23	-2355.94	-1.331e+06	3.347e+05
42	28	1.620e+06	3.009e+04	0.83	0.0	0.0	-1.567e+04	-6176.72	204.41	-1155.12	-4.657e+04	1.620e+06
		-6.960e+05	-4.657e+04	4.66e-03	0.0	375.0	-1.426e+04	-6176.72	204.41	-1155.12	3.009e+04	-6.960e+05
42	29	8.455e+05	-3760.09	-0.86	0.0	0.0	-2.988e+04	6641.20	109.59	1220.12	-4.486e+04	-1.645e+06
		-1.645e+06	-4.486e+04	-8.85e-03	0.0	375.0	-2.847e+04	6641.20	109.59	1220.12	-3760.09	8.455e+05
42	30	2.329e+05	1.331e+06	-0.02	0.0	0.0	-2.767e+04	623.35	7139.14	2312.97	-1.346e+06	-837.10
		-837.10	-1.346e+06	-2.03	0.0	375.0	-2.626e+04	623.35	7139.14	2312.97	1.331e+06	2.329e+05
42	31	3.303e+05	1.346e+06	-0.03	0.0	0.0	-1.801e+04	1287.81	-7138.63	-2260.33	1.346e+06	-1.526e+05
		-1.526e+05	-1.331e+06	2.01	0.0	375.0	-1.661e+04	1287.81	-7138.63	-2260.33	-1.331e+06	3.303e+05
42	32	2.343e+06	3.135e+04	1.66	0.0	0.0	-1.238e+04	-8631.74	195.50	-1997.47	-4.196e+04	2.343e+06
		-8.938e+05	-4.196e+04	4.49e-03	0.0	375.0	-1.097e+04	-8631.74	195.50	-1997.47	3.135e+04	-8.938e+05
42	33	8.252e+05	-7759.55	-1.66	0.0	0.0	-3.349e+04	8448.40	105.01	2011.33	-4.714e+04	-2.343e+06
		-2.343e+06	-4.714e+04	-0.01	0.0	375.0	-3.208e+04	8448.40	105.01	2011.33	-7759.55	8.252e+05
42	34	2.329e+05	1.331e+06	-0.02	0.0	0.0	-2.767e+04	623.35	7139.14	2312.97	-1.346e+06	-837.10
		-837.10	-1.346e+06	-2.03	0.0	375.0	-2.626e+04	623.35	7139.14	2312.97	1.331e+06	2.329e+05
42	35	3.303e+05	1.346e+06	-0.03	0.0	0.0	-1.801e+04	1287.81	-7138.63	-2260.33	1.346e+06	-1.526e+05
		-1.526e+05	-1.331e+06	2.01	0.0	375.0	-1.661e+04	1287.81	-7138.63	-2260.33	-1.331e+06	3.303e+05
42	36	1.684e+06	3.183e+04	0.90	0.0	0.0	-1.439e+04	-6191.53	209.48	-1075.60	-4.672e+04	1.684e+06
		-6.382e+05	-4.672e+04	4.46e-03	0.0	375.0	-1.299e+04	-6191.53	209.48	-1075.60	3.183e+04	-6.382e+05
42	37	6.826e+05	-5114.41	-0.91	0.0	0.0	-3.105e+04	6216.82	105.75	1094.59	-4.477e+04	-1.649e+06
		-1.649e+06	-4.477e+04	9.06e-03	0.0	375.0	-2.965e+04	6216.82	105.75	1094.59	-5114.41	6.826e+05
42	38	2.075e+05	8739.58	-0.02	0.0	0.0	-2.066e+04	670.67	128.33	18.21	-3.938e+04	-4.397e+04
		-4.397e+04	-3.938e+04	6.05e-03	0.0	375.0	-1.925e+04	670.67	128.33	18.21	8739.58	2.075e+05
42	39	2.963e+05	1.444e+04	-0.03	0.0	0.0	-2.306e+04	1019.19	165.23	16.03	-4.752e+04	-8.588e+04
		-8.588e+04	-4.752e+04	6.60e-03	0.0	375.0	-2.165e+04	1019.19	165.23	16.03	1.444e+04	2.963e+05
42	40	2.076e+05	9780.39	-0.02	0.0	0.0	-2.111e+04	678.25	135.09	20.27	-4.088e+04	-4.671e+04
		-4.671e+04	-4.088e+04	6.15e-03	0.0	375.0	-1.970e+04	678.25	135.09	20.27	9780.39	2.076e+05
42	41	2.836e+05	1.362e+04	-0.02	0.0	0.0	-2.272e+04	969.40	159.96	16.34	-4.636e+04	-7.989e+04
		-7.989e+04	-4.636e+04	6.52e-03	0.0	375.0	-2.131e+04	969.40	159.96	16.34	1.362e+04	2.836e+05
42	42	2.837e+05	1.466e+04	-0.02	0.0	0.0	-2.316e+04	976.98	166.72	18.39	-4.786e+04	-8.263e+04
		-8.263e+04	-4.786e+04	6.62e-03	0.0	375.0	-2.176e+04	976.98	166.72	18.39	1.466e+04	2.837e+05
42	43	2.075e+05	8739.58	-0.02	0.0	0.0	-2.066e+04	670.67	128.33	18.21	-3.938e+04	-4.397e+04
		-4.397e+04	-3.938e+04	6.05e-03	0.0	375.0	-1.925e+04	670.67	128.33	18.21	8739.58	2.075e+05
42	44	2.836e+05	1.362e+04	-0.02	0.0	0.0	-2.272e+04	969.40	159.96	16.34	-4.636e+04	-7.989e+04
		-7.989e+04	-4.636e+04	6.52e-03	0.0	375.0	-2.131e+04	969.40	159.96	16.34	1.362e+04	2.836e+05
42	45	2.075e+05	8739.58	-0.02	0.0	0.0	-2.066e+04	670.67	128.33	18.21	-3.938e+04	-4.397e+04
		-4.397e+04	-3.938e+04	6.05e-03	0.0	375.0	-1.925e+04	670.67	128.33	18.21	8739.58	2.075e+05
42	46	2.836e+05	1.362e+04	-0.02	0.0	0.0	-2.272e+04	969.40	159.96	16.34	-4.636e+04	-7.989e+04
		-7.989e+04	-4.636e+04	6.52e-03	0.0	375.0	-2.131e+04	969.40	159.96	16.34	1.362e+04	2.836e+05
43	1	3.236e+05	2.917e+04	-0.02	0.0	0.0	-1.239e+04	1603.68	-151.80	-11.40	2.917e+04	-2.809e+05
		-2.809e+05	-2.805e+04	-2.42e-03	0.0	377.0	-1.092e+04	1603.68	-151.80	-11.40	-2.805e+04	3.236e+05

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43      2 3.833e+05 2.773e+04      -0.03      0.0      0.0 -1.399e+04   1827.43   -143.20      -15.35 2.773e+04 -3.056e+05
         -3.056e+05 -2.625e+04 -2.37e-03      0.0    377.0 -1.252e+04   1827.43   -143.20      -15.35 -2.625e+04 3.833e+05
43      3 3.652e+05 2.487e+04      -0.02      0.0      0.0 -1.249e+04   1968.34   -126.72      -11.82 2.487e+04 -3.769e+05
         -3.769e+05 -2.291e+04 -2.21e-03      0.0    377.0 -1.102e+04   1968.34   -126.72      -11.82 -2.291e+04 3.652e+05
43      4 4.249e+05 2.343e+04      -0.03      0.0      0.0 -1.410e+04   2192.09   -118.12      -15.77 2.343e+04 -4.016e+05
         -4.016e+05 -2.111e+04 -2.15e-03      0.0    377.0 -1.263e+04   2192.09   -118.12      -15.77 -2.111e+04 4.249e+05
43      5 2.383e+05 2.355e+04      -0.02      0.0      0.0  -9501.06   1140.10   -123.20       -8.67 2.355e+04 -1.915e+05
         -1.915e+05 -2.290e+04 -1.92e-03      0.0    377.0  -8370.06   1140.10   -123.20       -8.67 -2.290e+04 2.383e+05
43      6 2.980e+05 2.211e+04      -0.02      0.0      0.0 -1.111e+04   1363.85   -114.60      -12.61 2.211e+04 -2.162e+05
         -2.162e+05 -2.110e+04 -1.86e-03      0.0    377.0  -9978.43   1363.85   -114.60      -12.61 -2.110e+04 2.980e+05
43      7 2.798e+05 1.924e+04      -0.02      0.0      0.0  -9602.87   1504.76    -98.12       -9.08 1.924e+04 -2.875e+05
         -2.875e+05 -1.775e+04 -1.71e-03      0.0    377.0  -8471.87   1504.76    -98.12       -9.08 -1.775e+04 2.798e+05
43      8 3.395e+05 1.780e+04      -0.02      0.0      0.0 -1.121e+04   1728.51    -89.52      -13.03 1.780e+04 -3.121e+05
         -3.121e+05 -1.595e+04 -1.65e-03      0.0    377.0 -1.008e+04   1728.51    -89.52      -13.03 -1.595e+04 3.395e+05
43      9 4.431e+05 2.630e+04      -0.04      0.0      0.0 -1.560e+04   2051.18   -134.61      -19.30 2.630e+04 -3.302e+05
         -3.302e+05 -2.445e+04 -2.31e-03      0.0    377.0 -1.413e+04   2051.18   -134.61      -19.30 -2.445e+04 4.431e+05
43     10 3.527e+05 2.616e+04      -0.02      0.0      0.0 -1.246e+04   1858.94   -134.24      -11.70 2.616e+04 -3.481e+05
         -3.481e+05 -2.445e+04 -2.27e-03      0.0    377.0 -1.099e+04   1858.94   -134.24      -11.70 -2.445e+04 3.527e+05
43     11 4.721e+05 2.328e+04      -0.04      0.0      0.0 -1.567e+04   2306.44   -117.05      -19.59 2.328e+04 -3.974e+05
         -3.974e+05 -2.085e+04 -2.16e-03      0.0    377.0 -1.420e+04   2306.44   -117.05      -19.59 -2.085e+04 4.721e+05
43     12 3.577e+05 2.067e+04      -0.03      0.0      0.0 -1.272e+04   1587.60   -106.01      -16.56 2.067e+04 -2.408e+05
         -2.408e+05 -1.930e+04 -1.81e-03      0.0    377.0 -1.159e+04   1587.60   -106.01      -16.56 -1.930e+04 3.577e+05
43     13 2.674e+05 2.053e+04      -0.02      0.0      0.0  -9572.32   1395.36   -105.64       -8.96 2.053e+04 -2.587e+05
         -2.587e+05 -1.930e+04 -1.77e-03      0.0    377.0  -8441.32   1395.36   -105.64       -8.96 -1.930e+04 2.674e+05
43     14 3.868e+05 1.765e+04      -0.03      0.0      0.0 -1.279e+04   1842.86    -88.45      -16.85 1.765e+04 -3.080e+05
         -3.080e+05 -1.569e+04 -1.66e-03      0.0    377.0 -1.166e+04   1842.86    -88.45      -16.85 -1.569e+04 3.868e+05
43     15 2.475e+05 2.259e+04      -0.02      0.0      0.0  -9523.68   1221.13   -117.63       -8.76 2.259e+04 -2.128e+05
         -2.128e+05 -2.176e+04 -1.87e-03      0.0    377.0  -8392.68   1221.13   -117.63       -8.76 -2.176e+04 2.475e+05
43     16 2.873e+05 2.163e+04      -0.02      0.0      0.0 -1.060e+04   1370.30   -111.90      -11.39 2.163e+04 -2.293e+05
         -2.293e+05 -2.056e+04 -1.83e-03      0.0    377.0  -9464.93   1370.30   -111.90      -11.39 -2.056e+04 2.873e+05
43     17 2.752e+05 1.972e+04      -0.02      0.0      0.0  -9591.55   1464.24   -100.91       -9.04 1.972e+04 -2.768e+05
         -2.768e+05 -1.833e+04 -1.73e-03      0.0    377.0  -8460.55   1464.24   -100.91       -9.04 -1.833e+04 2.752e+05
43     18 3.150e+05 1.876e+04      -0.02      0.0      0.0 -1.066e+04   1613.41    -95.18      -11.67 1.876e+04 -2.932e+05
         -2.932e+05 -1.712e+04 -1.69e-03      0.0    377.0  -9532.81   1613.41    -95.18      -11.67 -1.712e+04 3.150e+05
43     19 3.271e+05 2.067e+04      -0.03      0.0      0.0 -1.167e+04   1519.47   -106.17      -14.02 2.067e+04 -2.457e+05
         -2.457e+05 -1.935e+04 -1.80e-03      0.0    377.0 -1.054e+04   1519.47   -106.17      -14.02 -1.935e+04 3.271e+05
43     20 2.669e+05 2.058e+04      -0.02      0.0      0.0  -9571.19   1391.31   -105.92       -8.95 2.058e+04 -2.576e+05
         -2.576e+05 -1.935e+04 -1.77e-03      0.0    377.0  -8440.19   1391.31   -105.92       -8.95 -1.935e+04 2.669e+05
43     21 3.465e+05 1.866e+04      -0.03      0.0      0.0 -1.172e+04   1689.64    -94.46      -14.22 1.866e+04 -2.905e+05
         -2.905e+05 -1.695e+04 -1.70e-03      0.0    377.0 -1.058e+04   1689.64    -94.46      -14.22 -1.695e+04 3.465e+05
43     22 2.407e+05 1.175e+06      -0.01      0.0      0.0 -1.025e+04   1270.54   6201.87      963.39 1.175e+06 -2.383e+05
         -2.383e+05 -1.163e+06      -2.15      0.0    377.0  -9122.08   1270.54   6201.87      963.39 1.175e+06 2.407e+05
43     23 2.862e+05 1.152e+06      -0.02      0.0      0.0  -9002.56   1457.25  -6173.19     -976.01 1.152e+06 -2.632e+05
         -2.632e+05 -1.175e+06       2.15      0.0    377.0  -7871.56   1457.25  -6173.19     -976.01 -1.175e+06 2.862e+05
43     24 -1.162e+05 1.183e+04      2.03      0.0      0.0  -4527.46  -2588.01     65.64     -545.74 -1.291e+04 -1.162e+05
         -1.092e+06 -1.291e+04   4.32e-03      0.0    377.0  -3396.46  -2588.01     65.64     -545.74 1.183e+04 -1.092e+06
43     25 1.200e+06 5.654e+04      -1.99      0.0      0.0 -1.408e+04   2972.33   -291.04      502.57 5.654e+04 7.916e+04
          7.916e+04 -5.318e+04  -5.98e-03      0.0    377.0 -1.295e+04   2972.33   -291.04      502.57 -5.318e+04 1.200e+06
43     26 2.393e+05 1.174e+06      -0.01      0.0      0.0 -1.082e+04   1264.27   6260.14      895.45 -1.186e+06 -2.373e+05
         -2.373e+05 -1.186e+06      -1.63      0.0    377.0  -9690.45   1264.27   6260.14      895.45 1.174e+06 2.393e+05
43     27 2.878e+05 1.186e+06      -0.02      0.0      0.0  -8345.75   1464.61  -6260.87     -914.78 1.186e+06 -2.643e+05
         -2.643e+05 -1.174e+06       1.63      0.0    377.0  -7214.75   1464.61  -6260.87     -914.78 -1.174e+06 2.878e+05
43     28 8.084e+04    5049.15      0.80      0.0      0.0  -6974.52  -1106.08     27.82     -168.93   -5439.74 8.084e+04
         -3.361e+05   -5439.74   1.37e-03      0.0    377.0  -5843.52  -1106.08     27.82     -168.93    5049.15 -3.361e+05
43     29 8.073e+05 4.749e+04      -0.82      0.0      0.0 -1.200e+04   3125.25   -244.86      152.78 4.749e+04 -3.709e+05
         -3.709e+05 -4.482e+04  -4.43e-03      0.0    377.0 -1.087e+04   3125.25   -244.86      152.78 -4.482e+04 8.073e+05
43     30 2.385e+05 1.175e+06      -0.01      0.0      0.0 -1.017e+04   1258.30   6263.43     1519.31 -1.186e+06 -2.359e+05
         -2.359e+05 -1.186e+06      -2.11      0.0    377.0  -9034.13   1258.30   6263.43     1519.31 1.175e+06 2.385e+05
43     31 2.875e+05 1.186e+06      -0.02      0.0      0.0  -9191.20   1465.69  -6261.18    -1528.06 1.186e+06 -2.650e+05
         -2.650e+05 -1.175e+06       2.10      0.0    377.0  -8060.20   1465.69  -6261.18    -1528.06 -1.175e+06 2.875e+05
43     32 3.151e+05 1.069e+04      1.63      0.0      0.0  -4820.82  -3402.67     59.45     -654.54 -1.173e+04 3.151e+05
         -9.677e+05 -1.173e+04   4.33e-03      0.0    377.0  -3689.82  -3402.67     59.45     -654.54 1.069e+04 -9.677e+05
43     33 1.201e+06 5.553e+04      -1.63      0.0      0.0 -1.394e+04   4212.50   -285.81      711.67 5.553e+04 -3.873e+05
         -3.873e+05 -5.223e+04  -6.06e-03      0.0    377.0 -1.281e+04   4212.50   -285.81      711.67 -5.223e+04 1.201e+06
43     34 2.385e+05 1.175e+06      -0.01      0.0      0.0 -1.017e+04   1258.30   6263.43     1519.31 -1.186e+06 -2.359e+05
         -2.359e+05 -1.186e+06      -2.11      0.0    377.0  -9034.13   1258.30   6263.43     1519.31 1.175e+06 2.385e+05
43     35 2.875e+05 1.186e+06      -0.02      0.0      0.0  -9191.20   1465.69  -6261.18    -1528.06 1.186e+06 -2.650e+05
         -2.650e+05 -1.175e+06       2.10      0.0    377.0  -8060.20   1465.69  -6261.18    -1528.06 -1.175e+06 2.875e+05
43     36 2.988e+05    6742.70      1.01      0.0      0.0  -6097.54  -2274.33     37.23     -343.06   -7292.07 2.988e+05
         -5.586e+05   -7292.07   2.04e-03      0.0    377.0  -4966.54  -2274.33     37.23     -343.06    6742.70 -5.586e+05
43     37 1.004e+06 4.880e+04      -1.01      0.0      0.0 -1.280e+04   4080.41   -251.48      313.23 4.880e+04 -5.342e+05
         -5.342e+05 -4.600e+04  -4.70e-03      0.0    377.0 -1.167e+04   4080.41   -251.48      313.23 -4.600e+04 1.004e+06
43     38 2.475e+05 2.259e+04      -0.02      0.0      0.0  -9523.68   1221.13   -117.63       -8.76 2.259e+04 -2.128e+05
         -2.128e+05 -2.176e+04  -1.87e-03      0.0    377.0  -8392.68   1221.13   -117.63       -8.76 -2.176e+04 2.475e+05
43     39 2.669e+05 2.058e+04      -0.02      0.0      0.0  -9571.19   1391.31   -105.92       -8.95 2.058e+04 -2.576e+05
         -2.576e+05 -1.935e+04  -1.77e-03      0.0    377.0  -8440.19   1391.31   -105.92       -8.95 -1.935e+04 2.669e+05
43     40 2.635e+05 2.220e+04      -0.02      0.0      0.0  -9952.58   1280.80   -115.33       -9.81 2.220e+04 -2.194e+05
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        -2.194e+05 -2.128e+04    -1.85e-03    0.0   377.0  -8821.58   1280.80   -115.33      -9.81 -2.128e+04  2.635e+05
43  41  2.641e+05  2.087e+04        -0.02    0.0     0.0  -9564.40   1367.00   -107.59      -8.92  2.087e+04 -2.512e+05
        -2.512e+05 -1.970e+04    -1.78e-03    0.0   377.0  -8433.40   1367.00   -107.59      -8.92 -1.970e+04  2.641e+05
43  42  2.801e+05  2.048e+04        -0.02    0.0     0.0  -9993.30   1426.66   -105.30      -9.98  2.048e+04 -2.578e+05
        -2.578e+05 -1.922e+04    -1.77e-03    0.0   377.0  -8862.30   1426.66   -105.30      -9.98 -1.922e+04  2.801e+05
43  43  2.475e+05  2.259e+04        -0.02    0.0     0.0  -9523.68   1221.13   -117.63      -8.76  2.259e+04 -2.128e+05
        -2.128e+05 -2.176e+04    -1.87e-03    0.0   377.0  -8392.68   1221.13   -117.63      -8.76 -2.176e+04  2.475e+05
43  44  2.641e+05  2.087e+04        -0.02    0.0     0.0  -9564.40   1367.00   -107.59      -8.92  2.087e+04 -2.512e+05
        -2.512e+05 -1.970e+04    -1.78e-03    0.0   377.0  -8433.40   1367.00   -107.59      -8.92 -1.970e+04  2.641e+05
43  45  2.475e+05  2.259e+04        -0.02    0.0     0.0  -9523.68   1221.13   -117.63      -8.76  2.259e+04 -2.128e+05
        -2.128e+05 -2.176e+04    -1.87e-03    0.0   377.0  -8392.68   1221.13   -117.63      -8.76 -2.176e+04  2.475e+05
43  46  2.641e+05  2.087e+04        -0.02    0.0     0.0  -9564.40   1367.00   -107.59      -8.92  2.087e+04 -2.512e+05
        -2.512e+05 -1.970e+04    -1.78e-03    0.0   377.0  -8433.40   1367.00   -107.59      -8.92 -1.970e+04  2.641e+05
44   1  6.566e+04  4.296e+04        -0.01    0.0     0.0 -2.287e+04  -603.70   -127.47     -52.14  4.296e+04  6.566e+04
        -1.607e+05  -4841.15    -7.14e-03    0.0   375.0 -2.104e+04  -603.70   -127.47     -52.14  -4841.15 -1.607e+05
44   2  7.801e+04  4.785e+04        -0.02    0.0     0.0 -2.420e+04  -652.17   -149.51     -57.59  4.785e+04  7.801e+04
        -1.666e+05  -8211.28     7.71e-03    0.0   375.0 -2.237e+04  -652.17   -149.51     -57.59  -8211.28 -1.666e+05
44   3  1.399e+05  5.805e+04        -0.02    0.0     0.0 -2.688e+04 -1111.26   -195.49     -68.41  5.805e+04  1.399e+05
        -2.769e+05 -1.525e+04     8.92e-03    0.0   375.0 -2.505e+04 -1111.26   -195.49     -68.41 -1.525e+04 -2.769e+05
44   4  1.522e+05  6.295e+04        -0.02    0.0     0.0 -2.821e+04 -1159.73   -217.53     -73.87  6.295e+04  1.522e+05
        -2.827e+05 -1.862e+04     9.51e-03    0.0   375.0 -2.638e+04 -1159.73   -217.53     -73.87 -1.862e+04 -2.827e+05
44   5  3.149e+04  2.918e+04        -0.01    0.0     0.0 -1.656e+04  -334.24    -80.61     -35.93  2.918e+04  3.149e+04
        -9.386e+04  -1053.81    -5.26e-03    0.0   375.0 -1.516e+04  -334.24    -80.61     -35.93  -1053.81 -9.386e+04
44   6  4.384e+04  3.407e+04        -0.01    0.0     0.0 -1.789e+04  -382.71   -102.65     -41.39  3.407e+04  4.384e+04
        -9.968e+04  -4423.94     5.60e-03    0.0   375.0 -1.649e+04  -382.71   -102.65     -41.39  -4423.94 -9.968e+04
44   7  1.057e+05  4.427e+04        -0.01    0.0     0.0 -2.057e+04  -841.80   -148.63     -52.21  4.427e+04  1.057e+05
        -2.100e+05 -1.147e+04     6.82e-03    0.0   375.0 -1.917e+04  -841.80   -148.63     -52.21 -1.147e+04 -2.100e+05
44   8  1.180e+05  4.916e+04        -0.01    0.0     0.0 -2.190e+04  -890.27   -170.67     -57.66  4.916e+04  1.180e+05
        -2.158e+05 -1.484e+04     7.40e-03    0.0   375.0 -2.050e+04  -890.27   -170.67     -57.66 -1.484e+04 -2.158e+05
44   9  9.036e+04  5.275e+04        -0.02    0.0     0.0 -2.553e+04  -700.63   -171.54     -63.05  5.275e+04  9.036e+04
        -1.724e+05 -1.158e+04     8.29e-03    0.0   375.0 -2.370e+04  -700.63   -171.54     -63.05 -1.158e+04 -1.724e+05
44  10  1.176e+05  5.353e+04        -0.02    0.0     0.0 -2.568e+04  -959.00   -175.08     -63.53  5.353e+04  1.176e+05
        -2.420e+05 -1.213e+04     8.38e-03    0.0   375.0 -2.385e+04  -959.00   -175.08     -63.53 -1.213e+04 -2.420e+05
44  11  1.423e+05  6.331e+04        -0.02    0.0     0.0 -2.833e+04 -1055.93   -219.16     -74.44  6.331e+04  1.423e+05
        -2.537e+05 -1.887e+04     9.55e-03    0.0   375.0 -2.650e+04 -1055.93   -219.16     -74.44 -1.887e+04 -2.537e+05
44  12  5.619e+04  3.896e+04        -0.01    0.0     0.0 -1.922e+04  -431.17   -124.69     -46.84  3.896e+04  5.619e+04
        -1.055e+05  -7794.08     6.19e-03    0.0   375.0 -1.781e+04  -431.17   -124.69     -46.84  -7794.08 -1.055e+05
44  13  8.342e+04  3.974e+04        -0.01    0.0     0.0 -1.937e+04  -689.54   -128.23     -47.32  3.974e+04  8.342e+04
        -1.752e+05  -8343.33     6.28e-03    0.0   375.0 -1.796e+04  -689.54   -128.23     -47.32  -8343.33 -1.752e+05
44  14  1.081e+05  4.953e+04        -0.02    0.0     0.0 -2.203e+04  -786.47   -172.30     -58.24  4.953e+04  1.081e+05
        -1.868e+05 -1.508e+04     7.45e-03    0.0   375.0 -2.062e+04  -786.47   -172.30     -58.24 -1.508e+04 -1.868e+05
44  15  4.797e+04  3.253e+04        -0.01    0.0     0.0 -1.745e+04  -447.03    -95.73     -39.55  3.253e+04  4.797e+04
        -1.197e+05  -3367.94    -5.46e-03    0.0   375.0 -1.605e+04  -447.03    -95.73     -39.55  -3367.94 -1.197e+05
44  16  5.621e+04  3.579e+04        -0.01    0.0     0.0 -1.834e+04  -479.35   -110.42     -43.19  3.579e+04  5.621e+04
        -1.235e+05  -5614.70     5.81e-03    0.0   375.0 -1.693e+04  -479.35   -110.42     -43.19  -5614.70 -1.235e+05
44  17  9.743e+04  4.259e+04        -0.01    0.0     0.0 -2.013e+04  -785.41   -141.07     -50.40  4.259e+04  9.743e+04
        -1.971e+05 -1.031e+04     6.62e-03    0.0   375.0 -1.872e+04  -785.41   -141.07     -50.40 -1.031e+04 -1.971e+05
44  18  1.057e+05  4.586e+04        -0.01    0.0     0.0 -2.101e+04  -817.72   -155.77     -54.04  4.586e+04  1.057e+05
        -2.010e+05 -1.256e+04     7.01e-03    0.0   375.0 -1.961e+04  -817.72   -155.77     -54.04 -1.256e+04 -2.010e+05
44  19  6.444e+04  3.905e+04        -0.01    0.0     0.0 -1.923e+04  -511.66   -125.11     -46.82  3.905e+04  6.444e+04
        -1.274e+05  -7861.45     6.20e-03    0.0   375.0 -1.782e+04  -511.66   -125.11     -46.82  -7861.45 -1.274e+05
44  20  8.259e+04  3.957e+04        -0.01    0.0     0.0 -1.933e+04  -683.90   -127.47     -47.14  3.957e+04  8.259e+04
        -1.739e+05  -8227.62     6.26e-03    0.0   375.0 -1.792e+04  -683.90   -127.47     -47.14  -8227.62 -1.739e+05
44  21  9.906e+04  4.610e+04        -0.01    0.0     0.0 -2.110e+04  -748.52   -156.85     -54.42  4.610e+04  9.906e+04
        -1.816e+05 -1.272e+04     7.04e-03    0.0   375.0 -1.969e+04  -748.52   -156.85     -54.42 -1.272e+04 -1.816e+05
44  22  1.286e+05  1.290e+06        -0.02    0.0     0.0 -1.404e+04  -880.90   6932.23    5043.47 -1.309e+06  1.286e+05
        -2.017e+05 -1.309e+06        -2.89    0.0   375.0 -1.263e+04  -880.90   6932.23    5043.47  1.290e+06 -2.017e+05
44  23  2.672e+04  1.310e+06    -7.98e-03    0.0     0.0 -2.412e+04  -419.39  -6935.02   -5143.38  1.310e+06  2.672e+04
        -1.305e+05 -1.291e+06         2.90    0.0   375.0 -2.272e+04  -419.39  -6935.02   -5143.38 -1.291e+06 -1.305e+05
44  24  2.299e+06  3.124e+04         2.71    0.0     0.0 -3.287e+04 -9530.11    -18.34     310.11  3.124e+04  2.299e+06
        -1.275e+06  2.436e+04        -0.01    0.0   375.0 -3.146e+04 -9530.11    -18.34     310.11  2.436e+04 -1.275e+06
44  25  1.296e+06  3.963e+04        -2.67    0.0     0.0  -5012.10   9586.40   -194.59    -333.71  3.963e+04 -2.299e+06
        -2.299e+06 -3.334e+04     8.19e-03    0.0   375.0  -3605.85   9586.40   -194.59    -333.71 -3.334e+04  1.296e+06
44  26  1.330e+05  1.291e+06        -0.02    0.0     0.0 -1.344e+04  -901.72   6930.59    4922.48 -1.308e+06  1.330e+05
        -2.052e+05 -1.308e+06        -2.05    0.0   375.0 -1.203e+04  -901.72   6930.59    4922.48  1.291e+06 -2.052e+05
44  27  2.282e+04  1.308e+06    -8.41e-03    0.0     0.0 -2.470e+04  -400.52  -6933.86   -5026.27  1.308e+06  2.282e+04
        -1.274e+05 -1.292e+06         2.06    0.0   375.0 -2.330e+04  -400.52  -6933.86   -5026.27 -1.292e+06 -1.274e+05
44  28  1.474e+06  3.959e+04         0.82    0.0     0.0 -2.881e+04 -6189.73    -81.01     586.64  3.959e+04  1.474e+06
        -8.470e+05   9212.75    -9.26e-03    0.0   375.0 -2.740e+04 -6189.73    -81.01     586.64   9212.75 -8.470e+05
44  29  8.423e+05  3.626e+04        -0.85    0.0     0.0  -8972.58   6068.86   -158.98    -658.93  3.626e+04 -1.433e+06
        -1.433e+06 -2.335e+04     4.94e-03    0.0   375.0  -7566.33   6068.86   -158.98    -658.93 -2.335e+04  8.423e+05
44  30  1.297e+05  1.289e+06        -0.02    0.0     0.0 -1.422e+04  -887.50   6924.07    5005.26 -1.308e+06  1.297e+05
        -2.031e+05 -1.308e+06        -1.97    0.0   375.0 -1.281e+04  -887.50   6924.07    5005.26  1.289e+06 -2.031e+05
44  31  2.347e+04  1.308e+06    -8.41e-03    0.0     0.0 -2.405e+04  -402.94  -6929.04   -5100.71  1.308e+06  2.347e+04
        -1.276e+05 -1.291e+06         1.98    0.0   375.0 -2.264e+04  -402.94  -6929.04   -5100.71 -1.291e+06 -1.276e+05
44  32  2.296e+06  3.208e+04         1.65    0.0     0.0 -3.282e+04 -8274.11    -23.81     142.48  3.208e+04  2.296e+06
        -8.063e+05  2.315e+04        -0.01    0.0   375.0 -3.141e+04 -8274.11    -23.81     142.48  2.315e+04 -8.063e+05
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44    33 8.653e+05 3.975e+04      -1.65    0.0    0.0  -5428.91   8431.25   -193.85   -102.41 3.975e+04-2.296e+06
         -2.296e+06-3.295e+04   8.21e-03    0.0  375.0  -4022.66   8431.25   -193.85   -102.41-3.295e+04 8.653e+05
44    34 1.297e+05 1.289e+06      -0.02    0.0    0.0-1.422e+04   -887.50   6924.07   5005.26-1.308e+06 1.297e+05
         -2.031e+05-1.308e+06      -1.97    0.0  375.0-1.281e+04   -887.50   6924.07   5005.26 1.289e+06-2.031e+05
44    35 2.347e+04 1.308e+06   -8.41e-03    0.0    0.0-2.405e+04   -402.94  -6929.04  -5100.71 1.308e+06 2.347e+04
         -1.276e+05-1.291e+06       1.98    0.0  375.0-2.264e+04   -402.94  -6929.04  -5100.71-1.291e+06-1.276e+05
44    36 1.476e+06 3.934e+04       0.89    0.0    0.0-3.059e+04  -5739.71    -75.25    453.45 3.934e+04 1.476e+06
         -6.764e+05 1.112e+04   -9.66e-03    0.0  375.0-2.918e+04  -5739.71    -75.25    453.45 1.112e+04-6.764e+05
44    37 7.546e+04 3.549e+04      -0.90    0.0    0.0  -7438.33   5872.25   -158.57   -505.89 3.549e+04-1.448e+06
         -1.448e+06-2.397e+04    5.00e-03    0.0  375.0  -6032.08   5872.25   -158.57   -505.89-2.397e+04 7.546e+04
44    38 4.797e+04 3.253e+04      -0.01    0.0    0.0-1.745e+04   -447.03    -95.73    -39.55 3.253e+04 4.797e+04
         -1.197e+05   -3367.94   -5.46e-03    0.0  375.0-1.605e+04   -447.03    -95.73    -39.55   -3367.94-1.197e+05
44    39 8.259e+04 3.957e+04      -0.01    0.0    0.0-1.933e+04   -683.90   -127.47    -47.14 3.957e+04 8.259e+04
         -1.739e+05   -8227.62    6.26e-03    0.0  375.0-1.792e+04   -683.90   -127.47    -47.14   -8227.62-1.739e+05
44    40 5.127e+04 3.384e+04      -0.01    0.0    0.0-1.781e+04   -459.96   -101.60    -41.00 3.384e+04 5.127e+04
         -1.212e+05   -4266.64    5.57e-03    0.0  375.0-1.640e+04   -459.96   -101.60    -41.00   -4266.64-1.212e+05
44    41 7.765e+04 3.857e+04      -0.01    0.0    0.0-1.906e+04   -650.06   -122.94    -46.06 3.857e+04 7.765e+04
         -1.661e+05   -7533.38    6.14e-03    0.0  375.0-1.765e+04   -650.06   -122.94    -46.06   -7533.38-1.661e+05
44    42 8.094e+04 3.987e+04      -0.01    0.0    0.0-1.941e+04   -662.98   -128.81    -47.51 3.987e+04 8.094e+04
         -1.677e+05   -8432.08    6.29e-03    0.0  375.0-1.801e+04   -662.98   -128.81    -47.51   -8432.08-1.677e+05
44    43 4.797e+04 3.253e+04      -0.01    0.0    0.0-1.745e+04   -447.03    -95.73    -39.55 3.253e+04 4.797e+04
         -1.197e+05   -3367.94   -5.46e-03    0.0  375.0-1.605e+04   -447.03    -95.73    -39.55   -3367.94-1.197e+05
44    44 7.765e+04 3.857e+04      -0.01    0.0    0.0-1.906e+04   -650.06   -122.94    -46.06 3.857e+04 7.765e+04
         -1.661e+05   -7533.38    6.14e-03    0.0  375.0-1.765e+04   -650.06   -122.94    -46.06   -7533.38-1.661e+05
44    45 4.797e+04 3.253e+04      -0.01    0.0    0.0-1.745e+04   -447.03    -95.73    -39.55 3.253e+04 4.797e+04
         -1.197e+05   -3367.94   -5.46e-03    0.0  375.0-1.605e+04   -447.03    -95.73    -39.55   -3367.94-1.197e+05
44    46 7.765e+04 3.857e+04      -0.01    0.0    0.0-1.906e+04   -650.06   -122.94    -46.06 3.857e+04 7.765e+04
         -1.661e+05   -7533.38    6.14e-03    0.0  375.0-1.765e+04   -650.06   -122.94    -46.06   -7533.38-1.661e+05
45     1 1.646e+05 3.251e+04   -6.68e-03    0.0    0.0-1.049e+04   -928.75    174.35     -6.99-3.322e+04 1.646e+05
         -1.855e+05-3.322e+04    2.76e-03    0.0  377.0  -9021.32   -928.75    174.35     -6.99 3.251e+04-1.855e+05
45     2 1.820e+05 3.104e+04    8.13e-03    0.0    0.0-1.172e+04  -1066.42    167.34     -8.80-3.205e+04 1.820e+05
         -2.201e+05-3.205e+04    2.74e-03    0.0  377.0-1.025e+04  -1066.42    167.34     -8.80 3.104e+04-2.201e+05
45     3 2.213e+05 2.829e+04      -0.01    0.0    0.0-1.062e+04  -1167.39    153.97     -8.86-2.976e+04 2.213e+05
         -2.188e+05-2.976e+04    2.68e-03    0.0  377.0  -9148.98  -1167.39    153.97     -8.86 2.829e+04-2.188e+05
45     4 2.386e+05 2.681e+04      -0.01    0.0    0.0-1.184e+04  -1305.06    146.96    -10.67-2.859e+04 2.386e+05
         -2.534e+05-2.859e+04    2.66e-03    0.0  377.0-1.037e+04  -1305.06    146.96    -10.67 2.681e+04-2.534e+05
45     5 1.121e+05 2.609e+04    5.20e-03    0.0    0.0  -8037.75   -653.23    139.34     -4.90-2.644e+04 1.121e+05
         -1.342e+05-2.644e+04    2.14e-03    0.0  377.0  -6906.75   -653.23    139.34     -4.90 2.609e+04-1.342e+05
45     6 1.294e+05 2.462e+04    7.91e-03    0.0    0.0  -9261.57   -790.90    132.33     -6.70-2.527e+04 1.294e+05
         -1.687e+05-2.527e+04    2.13e-03    0.0  377.0  -8130.57   -790.90    132.33     -6.70 2.462e+04-1.687e+05
45     7 1.688e+05 2.187e+04   -9.54e-03    0.0    0.0  -8165.41   -891.88    118.96     -6.77-2.298e+04 1.688e+05
         -1.674e+05-2.298e+04    2.06e-03    0.0  377.0  -7034.41   -891.88    118.96     -6.77 2.187e+04-1.674e+05
45     8 1.861e+05 2.039e+04   -8.94e-03    0.0    0.0  -9389.23  -1029.54    111.96     -8.58-2.181e+04 1.861e+05
         -2.020e+05-2.181e+04    2.04e-03    0.0  377.0  -8258.23  -1029.54    111.96     -8.58 2.039e+04-2.020e+05
45     9 1.993e+05 2.956e+04       0.01    0.0    0.0-1.294e+04  -1204.08    160.33    -10.60-3.088e+04 1.993e+05
         -2.546e+05-3.088e+04    2.72e-03    0.0  377.0-1.147e+04  -1204.08    160.33    -10.60 2.956e+04-2.546e+05
45    10 2.043e+05 2.955e+04      -0.01    0.0    0.0-1.058e+04  -1095.80    160.08     -8.30-3.080e+04 2.043e+05
         -2.088e+05-3.080e+04    2.70e-03    0.0  377.0  -9110.68  -1095.80    160.08     -8.30 2.955e+04-2.088e+05
45    11 2.390e+05 2.661e+04      -0.01    0.0    0.0-1.303e+04  -1371.13    146.07    -11.91-2.846e+04 2.390e+05
         -2.779e+05-2.846e+04    2.67e-03    0.0  377.0-1.156e+04  -1371.13    146.07    -11.91 2.661e+04-2.779e+05
45    12 1.468e+05 2.315e+04       0.01    0.0    0.0-1.049e+04   -928.56    125.32     -8.51-2.410e+04 1.468e+05
         -2.033e+05-2.410e+04    2.11e-03    0.0  377.0  -9354.39   -928.56    125.32     -8.51 2.315e+04-2.033e+05
45    13 1.518e+05 2.313e+04   -7.73e-03    0.0    0.0  -8127.11   -820.28    125.07     -6.21-2.402e+04 1.518e+05
         -1.575e+05-2.402e+04    2.09e-03    0.0  377.0  -6996.11   -820.28    125.07     -6.21 2.313e+04-1.575e+05
45    14 1.865e+05 2.019e+04   -8.73e-03    0.0    0.0-1.057e+04  -1095.61    111.06     -9.82-2.168e+04 1.865e+05
         -2.266e+05-2.168e+04    2.05e-03    0.0  377.0  -9443.75  -1095.61    111.06     -9.82 2.019e+04-2.266e+05
45    15 1.247e+05 2.515e+04   -5.01e-03    0.0    0.0  -8066.12   -706.27    134.81     -5.31-2.567e+04 1.247e+05
         -1.416e+05-2.567e+04    2.13e-03    0.0  377.0  -6935.12   -706.27    134.81     -5.31 2.515e+04-1.416e+05
45    16 1.363e+05 2.417e+04    6.12e-03    0.0    0.0  -8882.00   -798.04    130.14     -6.52-2.489e+04 1.363e+05
         -1.646e+05-2.489e+04    2.11e-03    0.0  377.0  -7751.00   -798.04    130.14     -6.52 2.417e+04-1.646e+05
45    17 1.625e+05 2.234e+04   -8.87e-03    0.0    0.0  -8151.22   -865.36    121.23     -6.56-2.337e+04 1.625e+05
         -1.638e+05-2.337e+04    2.07e-03    0.0  377.0  -7020.22   -865.36    121.23     -6.56 2.234e+04-1.638e+05
45    18 1.740e+05 2.135e+04   -8.27e-03    0.0    0.0  -8967.10   -957.14    116.55     -7.77-2.259e+04 1.740e+05
         -1.868e+05-2.259e+04    2.06e-03    0.0  377.0  -7836.10   -957.14    116.55     -7.77 2.135e+04-1.868e+05
45    19 1.478e+05 2.319e+04    7.92e-03    0.0    0.0  -9697.88   -889.82    125.47     -7.72-2.411e+04 1.478e+05
         -1.876e+05-2.411e+04    2.10e-03    0.0  377.0  -8566.88   -889.82    125.47     -7.72 2.319e+04-1.876e+05
45    20 1.512e+05 2.318e+04   -7.67e-03    0.0    0.0  -8125.69   -817.63    125.30     -6.19-2.406e+04 1.512e+05
         -1.571e+05-2.406e+04    2.09e-03    0.0  377.0  -6994.69   -817.63    125.30     -6.19 2.318e+04-1.571e+05
45    21 1.743e+05 2.122e+04   -8.06e-03    0.0    0.0  -9757.45  -1001.18    115.96     -8.60-2.250e+04 1.743e+05
         -2.032e+05-2.250e+04    2.06e-03    0.0  377.0  -8626.45  -1001.18    115.96     -8.60 2.122e+04-2.032e+05
45    22 1.671e+05 1.159e+06   -9.11e-03    0.0    0.0  -7427.92   -922.09   6012.26   1602.13-1.107e+06 1.671e+05
         -1.805e+05-1.107e+06      -2.13    0.0  377.0  -6296.92   -922.09   6012.26   1602.13 1.159e+06-1.805e+05
45    23 1.277e+05 1.121e+06   -6.39e-03    0.0    0.0  -8915.15   -681.14  -6048.91  -1612.19 1.121e+06 1.277e+05
         -1.291e+05-1.159e+06       2.13    0.0  377.0  -7784.15   -681.14  -6048.91  -1612.19-1.159e+06-1.291e+05
45    24-6.046e+04 6.602e+04       2.03    0.0    0.0-1.375e+04  -3021.66    358.03   -503.40-6.896e+04-6.046e+04
         -1.200e+06-6.896e+04   -7.83e-03    0.0  377.0-1.262e+04  -3021.66    358.03   -503.40 6.602e+04-1.200e+06
45    25 1.125e+06 1.599e+04      -1.99    0.0    0.0  -1742.28   2760.88    -80.95    486.16 1.599e+04 8.400e+04
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		8.400e+04	-1.453e+04	4.53e-03	0.0	377.0	-611.28	2760.88	-80.95	486.16	-1.453e+04	1.125e+06
45	26	1.684e+05	1.159e+06	-9.03e-03	0.0	0.0	-6791.04	-931.22	6152.46	1553.42	-1.161e+06	1.684e+05
		-1.826e+05	-1.161e+06	-1.61	0.0	377.0	-5660.04	-931.22	6152.46	1553.42	1.159e+06	-1.826e+05
45	27	1.265e+05	1.170e+06	-6.43e-03	0.0	0.0	-9503.69	-673.03	-6177.88	-1567.11	1.170e+06	1.265e+05
		-1.273e+05	-1.159e+06	1.61	0.0	377.0	-8372.69	-673.03	-6177.88	-1567.11	-1.159e+06	-1.273e+05
45	28	3.691e+05	4.981e+04	0.80	0.0	0.0	-1.094e+04	-2755.38	270.90	-116.98	-5.232e+04	3.691e+05
		-6.697e+05	-5.232e+04	4.32e-03	0.0	377.0	-9810.84	-2755.38	270.90	-116.98	4.981e+04	-6.697e+05
45	29	4.108e+05	3383.40	-0.82	0.0	0.0	-5162.67	1734.07	-15.53	106.10	3383.40	-2.429e+05
		-2.429e+05	-2469.75	1.29e-03	0.0	377.0	-4031.67	1734.07	-15.53	106.10	-2469.75	4.108e+05
45	30	1.646e+05	1.159e+06	-0.01	0.0	0.0	-7614.94	-909.13	6127.07	2127.73	-1.151e+06	1.646e+05
		-1.782e+05	-1.151e+06	-2.08	0.0	377.0	-6483.94	-909.13	6127.07	2127.73	1.159e+06	-1.782e+05
45	31	1.296e+05	1.163e+06	-6.17e-03	0.0	0.0	-8846.27	-690.52	-6160.71	-2133.87	1.163e+06	1.296e+05
		-1.307e+05	-1.159e+06	2.08	0.0	377.0	-7715.27	-690.52	-6160.71	-2133.87	-1.159e+06	-1.307e+05
45	32	4.083e+05	6.408e+04	1.63	0.0	0.0	-1.373e+04	-4245.09	347.82	-316.44	-6.705e+04	4.083e+05
		-1.192e+06	-6.705e+04	-6.99e-03	0.0	377.0	-1.260e+04	-4245.09	347.82	-316.44	6.408e+04	-1.192e+06
45	33	1.013e+06	1.500e+04	-1.63	0.0	0.0	-2142.08	3604.96	-75.76	350.48	1.500e+04	-3.457e+05
		-3.457e+05	-1.357e+04	4.29e-03	0.0	377.0	-1011.08	3604.96	-75.76	350.48	-1.357e+04	1.013e+06
45	34	1.646e+05	1.159e+06	-0.01	0.0	0.0	-7614.94	-909.13	6127.07	2127.73	-1.151e+06	1.646e+05
		-1.782e+05	-1.151e+06	-2.08	0.0	377.0	-6483.94	-909.13	6127.07	2127.73	1.159e+06	-1.782e+05
45	35	1.296e+05	1.163e+06	-6.17e-03	0.0	0.0	-8846.27	-690.52	-6160.71	-2133.87	1.163e+06	1.296e+05
		-1.307e+05	-1.159e+06	2.08	0.0	377.0	-7715.27	-690.52	-6160.71	-2133.87	-1.159e+06	-1.307e+05
45	36	5.404e+05	5.216e+04	1.01	0.0	0.0	-1.208e+04	-3779.30	283.79	-40.65	-5.483e+04	5.404e+05
		-8.844e+05	-5.483e+04	4.54e-03	0.0	377.0	-1.095e+04	-3779.30	283.79	-40.65	5.216e+04	-8.844e+05
45	37	6.288e+05	4758.11	-1.01	0.0	0.0	-4038.60	2872.27	-22.40	25.73	4758.11	-4.540e+05
		-4.540e+05	-3688.07	1.32e-03	0.0	377.0	-2907.60	2872.27	-22.40	25.73	-3688.07	6.288e+05
45	38	1.247e+05	2.515e+04	-5.01e-03	0.0	0.0	-8066.12	-706.27	134.81	-5.31	-2.567e+04	1.247e+05
		-1.416e+05	-2.567e+04	2.13e-03	0.0	377.0	-6935.12	-706.27	134.81	-5.31	2.515e+04	-1.416e+05
45	39	1.512e+05	2.318e+04	-7.67e-03	0.0	0.0	-8125.69	-817.63	125.30	-6.19	-2.406e+04	1.512e+05
		-1.571e+05	-2.406e+04	2.09e-03	0.0	377.0	-6994.69	-817.63	125.30	-6.19	2.318e+04	-1.571e+05
45	40	1.293e+05	2.476e+04	-5.26e-03	0.0	0.0	-8392.47	-742.98	132.94	-5.79	-2.536e+04	1.293e+05
		-1.508e+05	-2.536e+04	2.12e-03	0.0	377.0	-7261.47	-742.98	132.94	-5.79	2.476e+04	-1.508e+05
45	41	1.474e+05	2.346e+04	-7.27e-03	0.0	0.0	-8117.18	-801.72	126.66	-6.06	-2.429e+04	1.474e+05
		-1.549e+05	-2.429e+04	2.09e-03	0.0	377.0	-6986.18	-801.72	126.66	-6.06	2.346e+04	-1.549e+05
45	42	1.520e+05	2.307e+04	-7.02e-03	0.0	0.0	-8443.53	-838.43	124.79	-6.54	-2.398e+04	1.520e+05
		-1.641e+05	-2.398e+04	2.09e-03	0.0	377.0	-7312.53	-838.43	124.79	-6.54	2.307e+04	-1.641e+05
45	43	1.247e+05	2.515e+04	-5.01e-03	0.0	0.0	-8066.12	-706.27	134.81	-5.31	-2.567e+04	1.247e+05
		-1.416e+05	-2.567e+04	2.13e-03	0.0	377.0	-6935.12	-706.27	134.81	-5.31	2.515e+04	-1.416e+05
45	44	1.474e+05	2.346e+04	-7.27e-03	0.0	0.0	-8117.18	-801.72	126.66	-6.06	-2.429e+04	1.474e+05
		-1.549e+05	-2.429e+04	2.09e-03	0.0	377.0	-6986.18	-801.72	126.66	-6.06	2.346e+04	-1.549e+05
45	45	1.247e+05	2.515e+04	-5.01e-03	0.0	0.0	-8066.12	-706.27	134.81	-5.31	-2.567e+04	1.247e+05
		-1.416e+05	-2.567e+04	2.13e-03	0.0	377.0	-6935.12	-706.27	134.81	-5.31	2.515e+04	-1.416e+05
45	46	1.474e+05	2.346e+04	-7.27e-03	0.0	0.0	-8117.18	-801.72	126.66	-6.06	-2.429e+04	1.474e+05
		-1.549e+05	-2.429e+04	2.09e-03	0.0	377.0	-6986.18	-801.72	126.66	-6.06	2.346e+04	-1.549e+05
46	1	3.919e+04	5.284e+04	-0.01	0.0	0.0	-3.215e+04	-127.35	-181.10	-19.04	5.284e+04	3.919e+04
		-8568.54	-1.507e+04	7.92e-03	0.0	375.0	-3.032e+04	-127.35	-181.10	-19.04	-1.507e+04	-8568.54
46	2	5.369e+04	5.785e+04	-0.01	0.0	0.0	-3.470e+04	-203.38	-198.91	-20.74	5.785e+04	5.369e+04
		-2.258e+04	-1.674e+04	8.66e-03	0.0	375.0	-3.287e+04	-203.38	-198.91	-20.74	-1.674e+04	-2.258e+04
46	3	6.734e+04	6.776e+04	-0.01	0.0	0.0	-3.983e+04	-225.52	-234.22	-24.42	6.776e+04	6.734e+04
		-1.724e+04	-2.008e+04	0.01	0.0	375.0	-3.800e+04	-225.52	-234.22	-24.42	-2.008e+04	-1.724e+04
46	4	8.184e+04	7.277e+04	-0.02	0.0	0.0	-4.238e+04	-301.56	-252.03	-26.11	7.277e+04	8.184e+04
		-3.125e+04	-2.174e+04	0.01	0.0	375.0	-4.055e+04	-301.56	-252.03	-26.11	-2.174e+04	-3.125e+04
46	5	2.293e+04	3.682e+04	-8.11e-03	0.0	0.0	-2.276e+04	-72.78	-125.69	-13.27	3.682e+04	2.293e+04
		-4368.73	-1.031e+04	5.52e-03	0.0	375.0	-2.135e+04	-72.78	-125.69	-13.27	-1.031e+04	-4368.73
46	6	3.742e+04	4.183e+04	-9.68e-03	0.0	0.0	-2.531e+04	-148.82	-143.49	-14.96	4.183e+04	3.742e+04
		-1.838e+04	-1.198e+04	6.26e-03	0.0	375.0	-2.390e+04	-148.82	-143.49	-14.96	-1.198e+04	-1.838e+04
46	7	5.107e+04	5.174e+04	-0.01	0.0	0.0	-3.044e+04	-170.96	-178.81	-18.65	5.174e+04	5.107e+04
		-1.304e+04	-1.531e+04	7.74e-03	0.0	375.0	-2.903e+04	-170.96	-178.81	-18.65	-1.531e+04	-1.304e+04
46	8	6.557e+04	5.675e+04	-0.01	0.0	0.0	-3.299e+04	-247.00	-196.62	-20.34	5.675e+04	6.557e+04
		-2.705e+04	-1.698e+04	8.48e-03	0.0	375.0	-3.158e+04	-247.00	-196.62	-20.34	-1.698e+04	-2.705e+04
46	9	6.819e+04	6.287e+04	-0.01	0.0	0.0	-3.724e+04	-279.42	-216.71	-22.43	6.287e+04	6.819e+04
		-3.660e+04	-1.840e+04	9.40e-03	0.0	375.0	-3.542e+04	-279.42	-216.71	-22.43	-1.840e+04	-3.660e+04
46	10	5.889e+04	6.328e+04	-0.01	0.0	0.0	-3.752e+04	-196.07	-218.29	-22.81	6.328e+04	5.889e+04
		-1.464e+04	-1.857e+04	9.47e-03	0.0	375.0	-3.569e+04	-196.07	-218.29	-22.81	-1.857e+04	-1.464e+04
46	11	8.789e+04	7.331e+04	-0.02	0.0	0.0	-4.262e+04	-348.15	-253.90	-26.19	7.331e+04	8.789e+04
		-4.267e+04	-2.190e+04	0.01	0.0	375.0	-4.079e+04	-348.15	-253.90	-26.19	-2.190e+04	-4.267e+04
46	12	5.192e+04	4.685e+04	-0.01	0.0	0.0	-2.786e+04	-224.86	-161.30	-16.65	4.685e+04	5.192e+04
		-3.240e+04	-1.364e+04	7.00e-03	0.0	375.0	-2.645e+04	-224.86	-161.30	-16.65	-1.364e+04	-3.240e+04
46	13	4.263e+04	4.726e+04	-9.95e-03	0.0	0.0	-2.814e+04	-141.51	-162.87	-17.03	4.726e+04	4.263e+04
		-1.044e+04	-1.381e+04	7.07e-03	0.0	375.0	-2.673e+04	-141.51	-162.87	-17.03	-1.381e+04	-1.044e+04
46	14	7.163e+04	5.729e+04	-0.01	0.0	0.0	-3.323e+04	-293.59	-198.49	-20.42	5.729e+04	7.163e+04
		-3.847e+04	-1.714e+04	8.55e-03	0.0	375.0	-3.183e+04	-293.59	-198.49	-20.42	-1.714e+04	-3.847e+04
46	15	2.918e+04	4.014e+04	-8.70e-03	0.0	0.0	-2.447e+04	-94.60	-137.49	-14.46	4.014e+04	2.918e+04
		-6294.86	-1.142e+04	6.02e-03	0.0	375.0	-2.306e+04	-94.60	-137.49	-14.46	-1.142e+04	-6294.86
46	16	3.885e+04	4.348e+04	-9.74e-03	0.0	0.0	-2.616e+04	-145.29	-149.36	-15.59	4.348e+04	3.885e+04
		-1.564e+04	-1.253e+04	6.51e-03	0.0	375.0	-2.476e+04	-145.29	-149.36	-15.59	-1.253e+04	-1.564e+04
46	17	4.795e+04	5.008e+04	-0.01	0.0	0.0	-2.959e+04	-160.05	-172.91	-18.05	5.008e+04	4.795e+04
		-1.207e+04	-1.476e+04	7.49e-03	0.0	375.0	-2.818e+04	-160.05	-172.91	-18.05	-1.476e+04	-1.207e+04

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46   18 5.761e+04 5.342e+04    -0.01   0.0    0.0-3.129e+04    -210.75    -184.78    -19.18 5.342e+04 5.761e+04
        -2.142e+04-1.587e+04  7.98e-03  0.0  375.0-2.988e+04    -210.75    -184.78    -19.18-1.587e+04-2.142e+04
46   19 4.851e+04 4.682e+04    -0.01   0.0    0.0-2.786e+04    -195.99    -161.23    -16.72 4.682e+04 4.851e+04
        -2.498e+04-1.364e+04  7.00e-03  0.0  375.0-2.646e+04    -195.99    -161.23    -16.72-1.364e+04-2.498e+04
46   20 4.232e+04 4.710e+04  -9.92e-03  0.0    0.0-2.805e+04    -140.42    -162.28    -16.97 4.710e+04 4.232e+04
        -1.034e+04-1.376e+04  7.05e-03  0.0  375.0-2.664e+04    -140.42    -162.28    -16.97-1.376e+04-1.034e+04
46   21 6.165e+04 5.378e+04    -0.01   0.0    0.0-3.145e+04    -241.80    -186.03    -19.23 5.378e+04 6.165e+04
        -2.903e+04-1.598e+04  8.03e-03  0.0  375.0-3.004e+04    -241.80    -186.03    -19.23-1.598e+04-2.903e+04
46   22 6.642e+04 7.692e+05    -0.01   0.0    0.0-2.697e+04    -267.57    5776.40    4865.72-1.397e+06 6.642e+04
        -3.392e+04-1.397e+06   -2.91   0.0  375.0-2.556e+04    -267.57    5776.40    4865.72 7.692e+05-3.392e+04
46   23 1.536e+04 1.397e+06  -5.43e-03  0.0    0.0-2.812e+04      -4.60   -5777.35   -4898.71 1.397e+06 1.536e+04
         1.364e+04-7.694e+05    2.93   0.0  375.0-2.671e+04      -4.60   -5777.35   -4898.71-7.694e+05 1.364e+04
46   24 2.403e+06 4.458e+04    2.74    0.0    0.0-2.774e+04-1.165e+04    -145.49    -376.21 4.458e+04 2.403e+06
        -1.965e+06   -9980.27 -7.13e-03  0.0  375.0-2.633e+04-1.165e+04    -145.49    -376.21   -9980.27-1.965e+06
46   25 1.962e+06 4.946e+04   -2.70    0.0    0.0-2.823e+04 1.164e+04    -177.77    363.34 4.946e+04-2.403e+06
        -2.403e+06-1.721e+04  8.61e-03  0.0  375.0-2.683e+04 1.164e+04    -177.77    363.34-1.721e+04 1.962e+06
46   26 6.999e+04 6.561e+05    -0.01   0.0    0.0-2.691e+04    -286.01    5469.91    4753.99-1.395e+06 6.999e+04
        -3.727e+04-1.395e+06   -2.08   0.0  375.0-2.551e+04    -286.01    5469.91    4753.99 6.561e+05-3.727e+04
46   27 1.679e+04 1.395e+06  -5.79e-03  0.0    0.0-2.817e+04      12.72   -5453.19   -4789.66 1.395e+06 1.202e+04
         1.202e+04-6.496e+05    2.09   0.0  375.0-2.676e+04      12.72   -5453.19   -4789.66-6.496e+05 1.679e+04
46   28 2.033e+06 4.579e+04    0.84    0.0    0.0-2.851e+04-9305.60    -153.05    141.08 4.579e+04 2.033e+06
        -1.457e+06-1.160e+04  6.73e-03  0.0  375.0-2.710e+04-9305.60    -153.05    141.08-1.160e+04-1.457e+06
46   29 1.510e+06 4.734e+04    -0.86   0.0    0.0-2.766e+04 9329.22    -167.68    -168.18 4.734e+04-1.989e+06
        -1.989e+06-1.554e+04  7.17e-03  0.0  375.0-2.626e+04 9329.22    -167.68    -168.18-1.554e+04 1.510e+06
46   30 6.772e+04 4.490e+05    -0.01   0.0    0.0-2.698e+04    -274.68    4916.63    4769.55-1.395e+06 6.772e+04
        -3.529e+04-1.395e+06   -2.00   0.0  375.0-2.558e+04    -274.68    4916.63    4769.55 4.490e+05-3.529e+04
46   31 1.624e+04 1.395e+06  -5.78e-03  0.0    0.0-2.812e+04       9.54   -4916.31   -4802.39 1.395e+06 1.266e+04
         1.266e+04-4.487e+05    2.01   0.0  375.0-2.672e+04       9.54   -4916.31   -4802.39-4.487e+05 1.624e+04
46   32 2.401e+06 4.457e+04    1.67    0.0    0.0-2.776e+04-1.038e+04    -145.55    -368.90 4.457e+04 2.401e+06
        -1.492e+06-1.001e+04 -7.07e-03  0.0  375.0-2.636e+04-1.038e+04    -145.55    -368.90-1.001e+04-1.492e+06
46   33 1.494e+06 4.941e+04    -1.67   0.0    0.0-2.779e+04 1.039e+04    -177.43    401.75 4.941e+04-2.401e+06
        -2.401e+06-1.712e+04  8.57e-03  0.0  375.0-2.638e+04 1.039e+04    -177.43    401.75-1.712e+04 1.494e+06
46   34 6.772e+04 4.490e+05    -0.01   0.0    0.0-2.698e+04    -274.68    4916.63    4769.55-1.395e+06 6.772e+04
        -3.529e+04-1.395e+06   -2.00   0.0  375.0-2.558e+04    -274.68    4916.63    4769.55 4.490e+05-3.529e+04
46   35 1.624e+04 1.395e+06  -5.78e-03  0.0    0.0-2.812e+04       9.54   -4916.31   -4802.39 1.395e+06 1.266e+04
         1.266e+04-4.487e+05    2.01   0.0  375.0-2.672e+04       9.54   -4916.31   -4802.39-4.487e+05 1.624e+04
46   36 2.100e+06 4.570e+04    0.90    0.0    0.0-2.815e+04-9336.11    -152.25    93.83 4.570e+04 2.100e+06
        -1.401e+06-1.139e+04  6.65e-03  0.0  375.0-2.675e+04-9336.11    -152.25    93.83-1.139e+04-1.401e+06
46   37 1.445e+06 4.749e+04    -0.91   0.0    0.0-2.780e+04 9256.93    -168.47    -117.32 4.749e+04-2.026e+06
        -2.026e+06-1.568e+04  7.25e-03  0.0  375.0-2.640e+04 9256.93    -168.47    -117.32-1.568e+04 1.445e+06
46   38 2.918e+04 4.014e+04  -8.70e-03  0.0    0.0-2.447e+04     -94.60    -137.49    -14.46 4.014e+04 2.918e+04
        -6294.86-1.142e+04  6.02e-03  0.0  375.0-2.306e+04     -94.60    -137.49    -14.46-1.142e+04   -6294.86
46   39 4.232e+04 4.710e+04  -9.92e-03  0.0    0.0-2.805e+04    -140.42    -162.28    -16.97 4.710e+04 4.232e+04
        -1.034e+04-1.376e+04  7.05e-03  0.0  375.0-2.664e+04    -140.42    -162.28    -16.97-1.376e+04-1.034e+04
46   40 3.305e+04 4.147e+04  -9.11e-03  0.0    0.0-2.515e+04    -114.88    -142.24    -14.92 4.147e+04 3.305e+04
        -1.003e+04-1.187e+04  6.21e-03  0.0  375.0-2.374e+04    -114.88    -142.24    -14.92-1.187e+04-1.003e+04
46   41 4.044e+04 4.610e+04  -9.75e-03  0.0    0.0-2.754e+04    -133.87    -158.74    -16.62 4.610e+04 4.044e+04
        -9761.87-1.342e+04  6.90e-03  0.0  375.0-2.613e+04    -133.87    -158.74    -16.62-1.342e+04   -9761.87
46   42 4.431e+04 4.744e+04    -0.01   0.0    0.0-2.822e+04    -154.15    -163.49    -17.07 4.744e+04 4.431e+04
        -1.350e+04-1.387e+04  7.10e-03  0.0  375.0-2.681e+04    -154.15    -163.49    -17.07-1.387e+04-1.350e+04
46   43 2.918e+04 4.014e+04  -8.70e-03  0.0    0.0-2.447e+04     -94.60    -137.49    -14.46 4.014e+04 2.918e+04
        -6294.86-1.142e+04  6.02e-03  0.0  375.0-2.306e+04     -94.60    -137.49    -14.46-1.142e+04   -6294.86
46   44 4.044e+04 4.610e+04  -9.75e-03  0.0    0.0-2.754e+04    -133.87    -158.74    -16.62 4.610e+04 4.044e+04
        -9761.87-1.342e+04  6.90e-03  0.0  375.0-2.613e+04    -133.87    -158.74    -16.62-1.342e+04   -9761.87
46   45 2.918e+04 4.014e+04  -8.70e-03  0.0    0.0-2.447e+04     -94.60    -137.49    -14.46 4.014e+04 2.918e+04
        -6294.86-1.142e+04  6.02e-03  0.0  375.0-2.306e+04     -94.60    -137.49    -14.46-1.142e+04   -6294.86
46   46 4.044e+04 4.610e+04  -9.75e-03  0.0    0.0-2.754e+04    -133.87    -158.74    -16.62 4.610e+04 4.044e+04
        -9761.87-1.342e+04  6.90e-03  0.0  375.0-2.613e+04    -133.87    -158.74    -16.62-1.342e+04   -9761.87
47    1    4695.80    7810.33  -6.32e-03  0.0    0.0-1.461e+04      18.05      66.37     -8.85-1.721e+04   -2109.11
        -2109.11-1.721e+04  3.45e-03  0.0  377.0-1.314e+04      18.05      66.37     -8.85    7810.33    4695.80
47    2    3692.07    7657.93  -7.19e-03  0.0    0.0-1.725e+04       2.58      68.54    -10.83-1.818e+04    2719.13
         2719.13-1.818e+04  3.82e-03  0.0  377.0-1.578e+04       2.58      68.54    -10.83    7657.93    3692.07
47    3    1629.63    7413.49    -0.01   0.0    0.0-1.451e+04     -32.69      73.02    -11.65-2.012e+04    1629.63
        -1.069e+04-2.012e+04  4.54e-03  0.0  377.0-1.304e+04     -32.69      73.02    -11.65    7413.49-1.069e+04
47    4    6457.87    7261.08    -0.01   0.0    0.0-1.715e+04     -48.16      75.19    -13.63-2.109e+04    6457.87
        -1.170e+04-2.109e+04  4.92e-03  0.0  377.0-1.567e+04     -48.16      75.19    -13.63    7261.08-1.170e+04
47    5    7557.98    6109.71  -3.97e-03  0.0    0.0-1.127e+04      26.89      49.35     -6.09-1.249e+04   -2581.04
        -2581.04-1.249e+04  2.37e-03  0.0  377.0-1.014e+04      26.89      49.35     -6.09    6109.71    7557.98
47    6    6554.25    5957.30  -4.91e-03  0.0    0.0-1.390e+04      11.42      51.52     -8.07-1.347e+04    2247.20
         2247.20-1.347e+04  2.75e-03  0.0  377.0-1.277e+04      11.42      51.52     -8.07    5957.30    6554.25
47    7    1157.70    5712.86  -7.72e-03  0.0    0.0-1.117e+04     -23.84      56.00     -8.89-1.540e+04    1157.70
        -7830.73-1.540e+04  3.47e-03  0.0  377.0-1.003e+04     -23.84      56.00     -8.89    5712.86-7830.73
47    8    5985.94    5560.45  -8.60e-03  0.0    0.0-1.380e+04     -39.31      58.17    -10.87-1.637e+04    5985.94
        -8834.46-1.637e+04  3.84e-03  0.0  377.0-1.267e+04     -39.31      58.17    -10.87    5560.45-8834.46
47    9    7547.37    7505.53  -8.06e-03  0.0    0.0-1.988e+04     -12.89      70.71    -12.82-1.915e+04    7547.37
         2688.34-1.915e+04  4.20e-03  0.0  377.0-1.841e+04     -12.89      70.71    -12.82    7505.53    2688.34
47   10     508.01    7532.54  -9.01e-03  0.0    0.0-1.454e+04     -17.46      71.03    -10.81-1.924e+04     508.01
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		-6076.29	-1.924e+04	4.21e-03	0.0	377.0	-1.307e+04	-17.46	71.03	-10.81	7532.54	-6076.29
47	11	1.016e+04	7227.74	-0.01	0.0	0.0	-1.981e+04	-48.40	75.37	-14.78	-2.119e+04	1.016e+04
		-8083.75	-2.119e+04	4.96e-03	0.0	377.0	-1.834e+04	-48.40	75.37	-14.78	7227.74	-8083.75
47	12	7075.44	5804.90	-5.86e-03	0.0	0.0	-1.654e+04	-4.04	53.69	-10.05	-1.444e+04	7075.44
		5550.51	-1.444e+04	3.12e-03	0.0	377.0	-1.540e+04	-4.04	53.69	-10.05	5804.90	5550.51
47	13	36.07	5831.91	-6.57e-03	0.0	0.0	-1.120e+04	-8.62	54.00	-8.05	-1.453e+04	36.07
		-3214.11	-1.453e+04	3.14e-03	0.0	377.0	-1.007e+04	-8.62	54.00	-8.05	5831.91	-3214.11
47	14	9692.56	5527.11	-8.31e-03	0.0	0.0	-1.646e+04	-39.56	58.35	-12.02	-1.647e+04	9692.56
		-5221.58	-1.647e+04	3.89e-03	0.0	377.0	-1.533e+04	-39.56	58.35	-12.02	5527.11	-5221.58
47	15	4138.26	6021.52	-4.73e-03	0.0	0.0	-1.125e+04	15.62	50.83	-6.71	-1.314e+04	-1750.21
		-1750.21	-1.314e+04	2.62e-03	0.0	377.0	-1.011e+04	15.62	50.83	-6.71	6021.52	4138.26
47	16	3469.11	5919.92	-5.31e-03	0.0	0.0	-1.300e+04	5.31	52.27	-8.03	-1.379e+04	1468.61
		1468.61	-1.379e+04	2.87e-03	0.0	377.0	-1.187e+04	5.31	52.27	-8.03	5919.92	3469.11
47	17	742.28	5756.95	-7.30e-03	0.0	0.0	-1.118e+04	-18.20	55.26	-8.58	-1.508e+04	742.28
		-6120.87	-1.508e+04	3.34e-03	0.0	377.0	-1.005e+04	-18.20	55.26	-8.58	5756.95	-6120.87
47	18	3961.11	5655.35	-7.88e-03	0.0	0.0	-1.293e+04	-28.52	56.71	-9.90	-1.572e+04	3961.11
		-6790.02	-1.572e+04	3.59e-03	0.0	377.0	-1.180e+04	-28.52	56.71	-9.90	5655.35	-6790.02
47	19	4687.44	5818.31	-5.89e-03	0.0	0.0	-1.476e+04	-5.01	53.72	-9.36	-1.443e+04	4687.44
		2799.96	-1.443e+04	3.11e-03	0.0	377.0	-1.363e+04	-5.01	53.72	-9.36	5818.31	2799.96
47	20	-5.47	5836.32	-6.53e-03	0.0	0.0	-1.120e+04	-8.06	53.93	-8.02	-1.450e+04	-5.47
		-3043.13	-1.450e+04	3.13e-03	0.0	377.0	-1.007e+04	-8.06	53.93	-8.02	5836.32	-3043.13
47	21	6432.19	5633.12	-7.69e-03	0.0	0.0	-1.471e+04	-28.68	56.83	-10.66	-1.579e+04	6432.19
		-4381.44	-1.579e+04	3.63e-03	0.0	377.0	-1.358e+04	-28.68	56.83	-10.66	5633.12	-4381.44
47	22	1.823e+04	3.436e+05	-8.96e-03	0.0	0.0	-1.100e+04	-108.70	291.96	2370.59	2.335e+05	1.823e+04
		-2.275e+04	2.335e+05	-2.14	0.0	377.0	-9869.89	-108.70	291.96	2370.59	3.436e+05	-2.275e+04
47	23	1.834e+04	-2.482e+05	-3.68e-03	0.0	0.0	-1.141e+04	97.29	-218.42	-2383.37	-2.482e+05	-1.834e+04
		-1.834e+04	-3.305e+05	2.14	0.0	377.0	-1.028e+04	97.29	-218.42	-2383.37	-3.305e+05	1.834e+04
47	24	4.449e+05	1.183e+04	2.03	0.0	0.0	-1.127e+04	-5497.56	83.08	-505.26	-1.949e+04	4.449e+05
		-1.628e+06	-1.949e+04	2.64e-03	0.0	377.0	-1.014e+04	-5497.56	83.08	-505.26	1.183e+04	-1.628e+06
47	25	1.628e+06	773.46	-1.99	0.0	0.0	-1.186e+04	5504.21	29.09	474.63	-1.020e+04	-4.474e+05
		-4.474e+05	-1.020e+04	3.84e-03	0.0	377.0	-1.073e+04	5504.21	29.09	474.63	773.46	1.628e+06
47	26	1.983e+04	2.522e+05	-8.86e-03	0.0	0.0	-1.098e+04	-118.78	199.15	2289.32	1.771e+05	1.983e+04
		-2.496e+04	1.771e+05	-1.63	0.0	377.0	-9844.34	-118.78	199.15	2289.32	2.522e+05	-2.496e+04
47	27	2.035e+04	-1.970e+05	-3.87e-03	0.0	0.0	-1.143e+04	106.48	-111.59	-2308.86	-1.970e+05	-1.979e+04
		-1.979e+04	-2.391e+05	1.62	0.0	377.0	-1.030e+04	106.48	-111.59	-2308.86	-2.391e+05	2.035e+04
47	28	6.090e+05	9524.54	0.80	0.0	0.0	-1.150e+04	-3837.24	71.96	-131.67	-1.760e+04	6.090e+05
		-8.376e+05	-1.760e+04	2.95e-03	0.0	377.0	-1.037e+04	-3837.24	71.96	-131.67	9524.54	-8.376e+05
47	29	8.560e+05	2318.75	-0.82	0.0	0.0	-1.092e+04	3993.44	36.00	116.92	-1.125e+04	-6.495e+05
		-6.495e+05	-1.125e+04	3.20e-03	0.0	377.0	-9788.22	3993.44	36.00	116.92	2318.75	8.560e+05
47	30	1.551e+04	3.781e+05	-0.01	0.0	0.0	-1.101e+04	-94.17	1122.96	2900.51	-4.523e+04	1.551e+04
		-1.999e+04	-4.523e+04	-2.09	0.0	377.0	-9878.87	-94.17	1122.96	2900.51	3.781e+05	-1.999e+04
47	31	1.625e+04	2.990e+04	-2.42e-03	0.0	0.0	-1.141e+04	85.93	-1044.89	-2904.01	2.990e+04	-1.614e+04
		-1.614e+04	-3.640e+05	2.09	0.0	377.0	-1.028e+04	85.93	-1044.89	-2904.01	-3.640e+05	1.625e+04
47	32	9.162e+05	1.157e+04	1.63	0.0	0.0	-1.129e+04	-6746.99	81.69	-443.05	-1.923e+04	9.162e+05
		-1.627e+06	-1.923e+04	2.69e-03	0.0	377.0	-1.016e+04	-6746.99	81.69	-443.05	1.157e+04	-1.627e+06
47	33	1.627e+06	884.04	-1.63	0.0	0.0	-1.141e+04	6740.46	29.63	480.89	-1.029e+04	-9.137e+05
		-9.137e+05	-1.029e+04	3.82e-03	0.0	377.0	-1.028e+04	6740.46	29.63	480.89	884.04	1.627e+06
47	34	1.551e+04	3.781e+05	-0.01	0.0	0.0	-1.101e+04	-94.17	1122.96	2900.51	-4.523e+04	1.551e+04
		-1.999e+04	-4.523e+04	-2.09	0.0	377.0	-9878.87	-94.17	1122.96	2900.51	3.781e+05	-1.999e+04
47	35	1.625e+04	2.990e+04	-2.42e-03	0.0	0.0	-1.141e+04	85.93	-1044.89	-2904.01	2.990e+04	-1.614e+04
		-1.614e+04	-3.640e+05	2.09	0.0	377.0	-1.028e+04	85.93	-1044.89	-2904.01	-3.640e+05	1.625e+04
47	36	8.624e+05	9869.91	1.01	0.0	0.0	-1.125e+04	-5295.70	73.67	-160.93	-1.790e+04	8.624e+05
		-1.134e+06	-1.790e+04	2.92e-03	0.0	377.0	-1.012e+04	-5295.70	73.67	-160.93	9869.91	-1.134e+06
47	37	1.137e+06	2145.54	-1.01	0.0	0.0	-1.123e+04	5394.82	35.18	138.42	-1.112e+04	-8.968e+05
		-8.968e+05	-1.112e+04	3.23e-03	0.0	377.0	-1.010e+04	5394.82	35.18	138.42	2145.54	1.137e+06
47	38	4138.26	6021.52	-4.73e-03	0.0	0.0	-1.125e+04	15.62	50.83	-6.71	-1.314e+04	-1750.21
		-1750.21	-1.314e+04	2.62e-03	0.0	377.0	-1.011e+04	15.62	50.83	-6.71	6021.52	4138.26
47	39	-5.47	5836.32	-6.53e-03	0.0	0.0	-1.120e+04	-8.06	53.93	-8.02	-1.450e+04	-5.47
		-3043.13	-1.450e+04	3.13e-03	0.0	377.0	-1.007e+04	-8.06	53.93	-8.02	5836.32	-3043.13
47	40	3870.60	5980.88	-4.96e-03	0.0	0.0	-1.195e+04	11.49	51.41	-7.24	-1.340e+04	-462.68
		-462.68	-1.340e+04	2.72e-03	0.0	377.0	-1.082e+04	11.49	51.41	-7.24	5980.88	3870.60
47	41	-254.72	5862.78	-6.27e-03	0.0	0.0	-1.120e+04	-4.68	53.49	-7.83	-1.430e+04	-254.72
		-2017.22	-1.430e+04	3.05e-03	0.0	377.0	-1.007e+04	-4.68	53.49	-7.83	5862.78	-2017.22
47	42	1032.81	5822.14	-6.50e-03	0.0	0.0	-1.191e+04	-8.80	54.07	-8.36	-1.456e+04	1032.81
		-2284.88	-1.456e+04	3.15e-03	0.0	377.0	-1.078e+04	-8.80	54.07	-8.36	5822.14	-2284.88
47	43	4138.26	6021.52	-4.73e-03	0.0	0.0	-1.125e+04	15.62	50.83	-6.71	-1.314e+04	-1750.21
		-1750.21	-1.314e+04	2.62e-03	0.0	377.0	-1.011e+04	15.62	50.83	-6.71	6021.52	4138.26
47	44	-254.72	5862.78	-6.27e-03	0.0	0.0	-1.120e+04	-4.68	53.49	-7.83	-1.430e+04	-254.72
		-2017.22	-1.430e+04	3.05e-03	0.0	377.0	-1.007e+04	-4.68	53.49	-7.83	5862.78	-2017.22
47	45	4138.26	6021.52	-4.73e-03	0.0	0.0	-1.125e+04	15.62	50.83	-6.71	-1.314e+04	-1750.21
		-1750.21	-1.314e+04	2.62e-03	0.0	377.0	-1.011e+04	15.62	50.83	-6.71	6021.52	4138.26
47	46	-254.72	5862.78	-6.27e-03	0.0	0.0	-1.120e+04	-4.68	53.49	-7.83	-1.430e+04	-254.72
		-2017.22	-1.430e+04	3.05e-03	0.0	377.0	-1.007e+04	-4.68	53.49	-7.83	5862.78	-2017.22
48	1	1.987e+04	5.640e+04	-0.02	0.0	0.0	-3.887e+04	-345.39	-194.56	-22.80	5.640e+04	1.987e+04
		-1.097e+05	-1.656e+04	8.39e-03	0.0	375.0	-3.704e+04	-345.39	-194.56	-22.80	-1.656e+04	-1.097e+05
48	2	6159.52	6.181e+04	-0.02	0.0	0.0	-4.208e+04	-271.12	-213.72	-25.77	6.181e+04	6159.52
		-9.551e+04	-1.833e+04	9.18e-03	0.0	375.0	-4.025e+04	-271.12	-213.72	-25.77	-1.833e+04	-9.551e+04

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48       3 2.928e+04 7.230e+04      -0.02      0.0      0.0-4.835e+04      -529.12      -250.96      -27.86 7.230e+04 2.928e+04
          -1.691e+05 -2.181e+04      0.01      0.0      375.0-4.652e+04      -529.12      -250.96      -27.86 -2.181e+04 -1.691e+05
48       4 1.558e+04 7.772e+04      -0.02      0.0      0.0-5.156e+04      -454.85      -270.13      -30.84 7.772e+04 1.558e+04
          -1.550e+05 -2.358e+04      0.01      0.0      375.0-4.973e+04      -454.85      -270.13      -30.84 -2.358e+04 -1.550e+05
48       5 1.287e+04 3.930e+04      -0.01      0.0      0.0-2.747e+04      -218.58      -135.20      -16.24 3.930e+04 1.287e+04
          -6.910e+04 -1.140e+04      5.85e-03      0.0      375.0-2.606e+04      -218.58      -135.20      -16.24 -1.140e+04 -6.910e+04
48       6    -839.49 4.472e+04      -0.01      0.0      0.0-3.068e+04      -144.30      -154.36      -19.21 4.472e+04     -839.49
          -5.495e+04 -1.317e+04      6.64e-03      0.0      375.0-2.927e+04      -144.30      -154.36      -19.21 -1.317e+04 -5.495e+04
48       7 2.228e+04 5.521e+04      -0.02      0.0      0.0-3.695e+04      -402.31      -191.60      -21.30 5.521e+04 2.228e+04
          -1.286e+05 -1.664e+04      8.21e-03      0.0      375.0-3.554e+04      -402.31      -191.60      -21.30 -1.664e+04 -1.286e+05
48       8    8578.01 6.062e+04      -0.02      0.0      0.0-4.016e+04      -328.03      -210.77      -24.28 6.062e+04    8578.01
          -1.144e+05 -1.841e+04      9.00e-03      0.0      375.0-3.875e+04      -328.03      -210.77      -24.28 -1.841e+04 -1.144e+05
48       9   -7546.12 6.723e+04      -0.02      0.0      0.0-4.529e+04      -196.84      -232.89      -28.75 6.723e+04   -7546.12
          -8.136e+04 -2.010e+04      9.98e-03      0.0      375.0-4.346e+04      -196.84      -232.89      -28.75 -2.010e+04 -8.136e+04
48      10 2.646e+04 6.753e+04      -0.02      0.0      0.0-4.550e+04      -474.00      -234.04      -26.34 6.753e+04 2.646e+04
          -1.513e+05 -2.023e+04      0.01      0.0      375.0-4.367e+04      -474.00      -234.04      -26.34 -2.023e+04 -1.513e+05
48      11    -953.87 7.836e+04      -0.02      0.0      0.0-5.193e+04      -325.45      -272.37      -32.29 7.836e+04    -953.87
          -1.230e+05 -2.378e+04      0.01      0.0      375.0-5.010e+04      -325.45      -272.37      -32.29 -2.378e+04 -1.230e+05
48      12 -1.455e+04 5.014e+04      -0.02      0.0      0.0-3.389e+04       -70.03      -173.53      -22.19 5.014e+04 -1.455e+04
          -4.081e+04 -1.494e+04      7.44e-03      0.0      375.0-3.248e+04       -70.03      -173.53      -22.19 -1.494e+04 -4.081e+04
48      13 1.946e+04 5.044e+04      -0.01      0.0      0.0-3.410e+04      -347.19      -174.68      -19.78 5.044e+04 1.946e+04
          -1.107e+05 -1.507e+04      7.50e-03      0.0      375.0-3.270e+04      -347.19      -174.68      -19.78 -1.507e+04 -1.107e+05
48      14   -7952.88 6.127e+04      -0.02      0.0      0.0-4.053e+04      -198.64      -213.01      -25.74 6.127e+04   -7952.88
          -8.244e+04 -1.861e+04      9.09e-03      0.0      375.0-3.912e+04      -198.64      -213.01      -25.74 -1.861e+04 -8.244e+04
48      15 1.496e+04 4.284e+04      -0.01      0.0      0.0-2.957e+04      -259.41      -147.73      -17.36 4.284e+04 1.496e+04
          -8.232e+04 -1.256e+04      6.37e-03      0.0      375.0-2.817e+04      -259.41      -147.73      -17.36 -1.256e+04 -8.232e+04
48      16    5821.84 4.645e+04      -0.01      0.0      0.0-3.171e+04      -209.89      -160.51      -19.35 4.645e+04    5821.84
          -7.289e+04 -1.374e+04      6.90e-03      0.0      375.0-3.031e+04      -209.89      -160.51      -19.35 -1.374e+04 -7.289e+04
48      17 2.124e+04 5.344e+04      -0.01      0.0      0.0-3.589e+04      -381.89      -185.33      -20.74 5.344e+04 2.124e+04
          -1.220e+05 -1.606e+04      7.95e-03      0.0      375.0-3.449e+04      -381.89      -185.33      -20.74 -1.606e+04 -1.220e+05
48      18 1.210e+04 5.705e+04      -0.02      0.0      0.0-3.803e+04      -332.38      -198.11      -22.72 5.705e+04 1.210e+04
          -1.125e+05 -1.724e+04      8.47e-03      0.0      375.0-3.663e+04      -332.38      -198.11      -22.72 -1.724e+04 -1.125e+05
48      19   -3315.26 5.006e+04      -0.01      0.0      0.0-3.386e+04      -160.37      -173.29      -21.33 5.006e+04   -3315.26
          -6.346e+04 -1.492e+04      7.43e-03      0.0      375.0-3.245e+04      -160.37      -173.29      -21.33 -1.492e+04 -6.346e+04
48      20 1.935e+04 5.026e+04      -0.01      0.0      0.0-3.400e+04      -345.15      -174.05      -19.73 5.026e+04 1.935e+04
          -1.101e+05 -1.501e+04      7.47e-03      0.0      375.0-3.259e+04      -345.15      -174.05      -19.73 -1.501e+04 -1.101e+05
48      21    1079.57 5.748e+04      -0.02      0.0      0.0-3.828e+04      -246.11      -199.61      -23.69 5.748e+04    1079.57
          -9.121e+04 -1.737e+04      8.53e-03      0.0      375.0-3.687e+04      -246.11      -199.61      -23.69 -1.737e+04 -9.121e+04
48      22 -2.347e+04 7.693e+05      -0.02      0.0      0.0-3.297e+04      -118.21      5932.50      3500.17 -1.455e+06 -2.347e+04
          -6.780e+04 -1.455e+06      -2.93      0.0      375.0-3.157e+04      -118.21      5932.50      3500.17 7.693e+05 -6.780e+04
48      23 6.397e+04 1.456e+06      -6.67e-03      0.0      0.0-3.377e+04      -562.58      -5936.70      -3534.67 1.456e+06 6.397e+04
          -1.470e+05 -7.706e+05      2.94      0.0      375.0-3.236e+04      -562.58      -5936.70      -3534.67 -7.706e+05 -1.470e+05
48      24 2.472e+06 4.769e+04      2.75      0.0      0.0-3.013e+04 -1.186e+04      -170.10      -343.96 4.769e+04 2.472e+06
          -1.974e+06 -1.610e+04      7.87e-03      0.0      375.0-2.873e+04 -1.186e+04      -170.10      -343.96 -1.610e+04 -1.974e+06
48      25 1.978e+06 5.331e+04      -2.72      0.0      0.0-3.580e+04      1.187e+04      -179.49      308.99 5.331e+04 -2.472e+06
          -2.472e+06 -1.400e+04      -7.83e-03      0.0      375.0-3.440e+04      1.187e+04      -179.49      308.99 -1.400e+04 1.978e+06
48      26 -2.463e+04 6.525e+05      -0.02      0.0      0.0-3.294e+04      -112.06      5616.07      3209.69 -1.454e+06 -2.463e+04
          -6.665e+04 -1.454e+06      -2.09      0.0      375.0-3.153e+04      -112.06      5616.07      3209.69 6.525e+05 -6.665e+04
48      27 6.466e+04 1.454e+06      -6.94e-03      0.0      0.0-3.380e+04      -566.36      -5592.57      -3249.06 1.454e+06 6.466e+04
          -1.477e+05 -6.434e+05      2.11      0.0      375.0-3.239e+04      -566.36      -5592.57      -3249.06 -6.434e+05 -1.477e+05
48      28 2.141e+06 4.582e+04      0.84      0.0      0.0-2.972e+04      -9831.95      -161.54      163.48 4.582e+04 2.141e+06
          -1.546e+06 -1.476e+04      6.94e-03      0.0      375.0-2.831e+04      -9831.95      -161.54      163.48 -1.476e+04 -1.546e+06
48      29 1.293e+06 5.329e+04      -0.88      0.0      0.0-3.615e+04      9081.48      -181.45      -205.84 5.329e+04 -2.113e+06
          -2.113e+06 -1.476e+04      7.75e-03      0.0      375.0-3.474e+04      9081.48      -181.45      -205.84 -1.476e+04 1.293e+06
48      30 -2.150e+04 4.511e+05      -0.02      0.0      0.0-3.298e+04      -129.10      5077.96      3053.40 -1.453e+06 -2.150e+04
          -6.992e+04 -1.453e+06      -2.02      0.0      375.0-3.157e+04      -129.10      5077.96      3053.40 4.511e+05 -6.992e+04
48      31 6.331e+04 1.453e+06      -7.01e-03      0.0      0.0-3.378e+04      -558.26      -5071.08      -3080.70 1.453e+06 6.331e+04
          -1.460e+05 -4.483e+05      2.03      0.0      375.0-3.237e+04      -558.26      -5071.08      -3080.70 -4.483e+05 -1.460e+05
48      32 2.470e+06 4.752e+04      1.68      0.0      0.0-2.984e+04 -1.059e+04      -169.30      -339.44 4.752e+04 2.470e+06
          -1.500e+06 -1.597e+04      7.79e-03      0.0      375.0-2.844e+04 -1.059e+04      -169.30      -339.44 -1.597e+04 -1.500e+06
48      33 1.529e+06 5.341e+04      -1.69      0.0      0.0-3.600e+04      1.066e+04      -179.97      350.24 5.341e+04 -2.470e+06
          -2.470e+06 -1.408e+04      -7.82e-03      0.0      375.0-3.459e+04      1.066e+04      -179.97      350.24 -1.408e+04 1.529e+06
48      34 -2.150e+04 4.511e+05      -0.02      0.0      0.0-3.298e+04      -129.10      5077.96      3053.40 -1.453e+06 -2.150e+04
          -6.992e+04 -1.453e+06      -2.02      0.0      375.0-3.157e+04      -129.10      5077.96      3053.40 4.511e+05 -6.992e+04
48      35 6.331e+04 1.453e+06      -7.01e-03      0.0      0.0-3.378e+04      -558.26      -5071.08      -3080.70 1.453e+06 6.331e+04
          -1.460e+05 -4.483e+05      2.03      0.0      375.0-3.237e+04      -558.26      -5071.08      -3080.70 -4.483e+05 -1.460e+05
48      36 2.211e+06 4.560e+04      0.91      0.0      0.0-2.958e+04      -9812.34      -161.07      119.28 4.560e+04 2.211e+06
          -1.468e+06 -1.480e+04      6.94e-03      0.0      375.0-2.817e+04      -9812.34      -161.07      119.28 -1.480e+04 -1.468e+06
48      37 1.213e+06 5.384e+04      -0.93      0.0      0.0-3.638e+04      8980.43      -183.20      -157.83 5.384e+04 -2.155e+06
          -2.155e+06 -1.486e+04      7.82e-03      0.0      375.0-3.497e+04      8980.43      -183.20      -157.83 -1.486e+04 1.213e+06
48      38 1.496e+04 4.284e+04      -0.01      0.0      0.0-2.957e+04      -259.41      -147.73      -17.36 4.284e+04 1.496e+04
          -8.232e+04 -1.256e+04      6.37e-03      0.0      375.0-2.817e+04      -259.41      -147.73      -17.36 -1.256e+04 -8.232e+04
48      39 1.935e+04 5.026e+04      -0.01      0.0      0.0-3.400e+04      -345.15      -174.05      -19.73 5.026e+04 1.935e+04
          -1.101e+05 -1.501e+04      7.47e-03      0.0      375.0-3.259e+04      -345.15      -174.05      -19.73 -1.501e+04 -1.101e+05
48      40 1.130e+04 4.428e+04      -0.01      0.0      0.0-3.043e+04      -239.60      -152.84      -18.16 4.428e+04 1.130e+04
          -7.855e+04 -1.303e+04      6.58e-03      0.0      375.0-2.902e+04      -239.60      -152.84      -18.16 -1.303e+04 -7.855e+04
48      41 1.873e+04 4.920e+04      -0.01      0.0      0.0-3.337e+04      -332.90      -170.29      -19.39 4.920e+04 1.873e+04
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		-1.061e+05	-1.466e+04	7.32e-03	0.0	375.0	-3.196e+04	-332.90	-170.29	-19.39	-1.466e+04	-1.061e+05
48	42	1.507e+04	5.064e+04	-0.01	0.0	0.0	-3.422e+04	-313.09	-175.40	-20.18	5.064e+04	1.507e+04
		-1.023e+05	-1.513e+04	7.53e-03	0.0	375.0	-3.282e+04	-313.09	-175.40	-20.18	-1.513e+04	-1.023e+05
48	43	1.496e+04	4.284e+04	-0.01	0.0	0.0	-2.957e+04	-259.41	-147.73	-17.36	4.284e+04	1.496e+04
		-8.232e+04	-1.256e+04	6.37e-03	0.0	375.0	-2.817e+04	-259.41	-147.73	-17.36	-1.256e+04	-8.232e+04
48	44	1.873e+04	4.920e+04	-0.01	0.0	0.0	-3.337e+04	-332.90	-170.29	-19.39	4.920e+04	1.873e+04
		-1.061e+05	-1.466e+04	7.32e-03	0.0	375.0	-3.196e+04	-332.90	-170.29	-19.39	-1.466e+04	-1.061e+05
48	45	1.496e+04	4.284e+04	-0.01	0.0	0.0	-2.957e+04	-259.41	-147.73	-17.36	4.284e+04	1.496e+04
		-8.232e+04	-1.256e+04	6.37e-03	0.0	375.0	-2.817e+04	-259.41	-147.73	-17.36	-1.256e+04	-8.232e+04
48	46	1.873e+04	4.920e+04	-0.01	0.0	0.0	-3.337e+04	-332.90	-170.29	-19.39	4.920e+04	1.873e+04
		-1.061e+05	-1.466e+04	7.32e-03	0.0	375.0	-3.196e+04	-332.90	-170.29	-19.39	-1.466e+04	-1.061e+05
49	1	1.335e+05	6639.83	-5.98e-03	0.0	0.0	-1.789e+04	-747.26	63.03	3.47	-1.712e+04	1.335e+05
		-1.482e+05	-1.712e+04	3.74e-03	0.0	377.0	-1.642e+04	-747.26	63.03	3.47	6639.83	-1.482e+05
49	2	1.413e+05	6511.55	-6.79e-03	0.0	0.0	-2.124e+04	-821.83	65.58	4.16	-1.821e+04	1.413e+05
		-1.685e+05	-1.821e+04	4.14e-03	0.0	377.0	-1.977e+04	-821.83	65.58	4.16	6511.55	-1.685e+05
49	3	1.654e+05	6306.14	-0.01	0.0	0.0	-1.767e+04	-845.59	70.68	5.47	-2.034e+04	1.654e+05
		-1.534e+05	-2.034e+04	4.91e-03	0.0	377.0	-1.620e+04	-845.59	70.68	5.47	6306.14	-1.534e+05
49	4	1.732e+05	6177.86	-0.01	0.0	0.0	-2.102e+04	-920.16	73.23	6.16	-2.143e+04	1.732e+05
		-1.737e+05	-2.143e+04	5.32e-03	0.0	377.0	-1.955e+04	-920.16	73.23	6.16	6177.86	-1.737e+05
49	5	9.454e+04	5193.12	4.23e-03	0.0	0.0	-1.382e+04	-549.61	46.53	2.15	-1.235e+04	9.454e+04
		-1.127e+05	-1.235e+04	2.57e-03	0.0	377.0	-1.269e+04	-549.61	46.53	2.15	5193.12	-1.127e+05
49	6	1.023e+05	5064.85	5.90e-03	0.0	0.0	-1.717e+04	-624.18	49.07	2.85	-1.344e+04	1.023e+05
		-1.330e+05	-1.344e+04	2.98e-03	0.0	377.0	-1.603e+04	-624.18	49.07	2.85	5064.85	-1.330e+05
49	7	1.264e+05	4859.43	-8.35e-03	0.0	0.0	-1.360e+04	-647.93	54.17	4.15	-1.556e+04	1.264e+05
		-1.179e+05	-1.556e+04	3.75e-03	0.0	377.0	-1.246e+04	-647.93	54.17	4.15	4859.43	-1.179e+05
49	8	1.342e+05	4731.15	-8.27e-03	0.0	0.0	-1.694e+04	-722.50	56.72	4.85	-1.665e+04	1.342e+05
		-1.382e+05	-1.665e+04	4.16e-03	0.0	377.0	-1.581e+04	-722.50	56.72	4.85	4731.15	-1.382e+05
49	9	1.491e+05	6383.28	-7.60e-03	0.0	0.0	-2.459e+04	-896.40	68.13	4.85	-1.930e+04	1.491e+05
		-1.889e+05	-1.930e+04	4.55e-03	0.0	377.0	-2.312e+04	-896.40	68.13	4.85	6383.28	-1.889e+05
49	10	1.558e+05	6406.24	-9.44e-03	0.0	0.0	-1.773e+04	-816.09	68.39	4.87	-1.938e+04	1.558e+05
		-1.518e+05	-1.938e+04	4.56e-03	0.0	377.0	-1.626e+04	-816.09	68.39	4.87	6406.24	-1.518e+05
49	11	1.714e+05	6149.69	-0.01	0.0	0.0	-2.443e+04	-965.23	73.48	6.25	-2.155e+04	1.714e+05
		-1.925e+05	-2.155e+04	5.37e-03	0.0	377.0	-2.296e+04	-965.23	73.48	6.25	6149.69	-1.925e+05
49	12	1.101e+05	4936.57	7.58e-03	0.0	0.0	-2.051e+04	-698.75	51.62	3.54	-1.452e+04	1.101e+05
		-1.533e+05	-1.452e+04	3.39e-03	0.0	377.0	-1.938e+04	-698.75	51.62	3.54	4936.57	-1.533e+05
49	13	1.169e+05	4959.54	-6.75e-03	0.0	0.0	-1.366e+04	-618.43	51.88	3.55	-1.460e+04	1.169e+05
		-1.163e+05	-1.460e+04	3.40e-03	0.0	377.0	-1.253e+04	-618.43	51.88	3.55	4959.54	-1.163e+05
49	14	1.324e+05	4702.99	-7.93e-03	0.0	0.0	-2.036e+04	-767.57	56.97	4.94	-1.678e+04	1.324e+05
		-1.570e+05	-1.678e+04	4.21e-03	0.0	377.0	-1.923e+04	-767.57	56.97	4.94	4702.99	-1.570e+05
49	15	1.016e+05	5118.97	-4.46e-03	0.0	0.0	-1.377e+04	-571.46	48.23	2.60	-1.306e+04	1.016e+05
		-1.138e+05	-1.306e+04	2.84e-03	0.0	377.0	-1.264e+04	-571.46	48.23	2.60	5118.97	-1.138e+05
49	16	1.068e+05	5033.45	-5.00e-03	0.0	0.0	-1.600e+04	-621.17	49.92	3.06	-1.379e+04	1.068e+05
		-1.274e+05	-1.379e+04	3.11e-03	0.0	377.0	-1.487e+04	-621.17	49.92	3.06	5033.45	-1.274e+05
49	17	1.229e+05	4896.51	-7.76e-03	0.0	0.0	-1.362e+04	-637.01	53.32	3.93	-1.521e+04	1.229e+05
		-1.173e+05	-1.521e+04	3.62e-03	0.0	377.0	-1.249e+04	-637.01	53.32	3.93	4896.51	-1.173e+05
49	18	1.281e+05	4810.99	-7.58e-03	0.0	0.0	-1.585e+04	-686.72	55.02	4.39	-1.593e+04	1.281e+05
		-1.308e+05	-1.593e+04	3.89e-03	0.0	377.0	-1.472e+04	-686.72	55.02	4.39	4810.99	-1.308e+05
49	19	1.120e+05	4947.93	-5.54e-03	0.0	0.0	-1.823e+04	-670.88	51.62	3.52	-1.451e+04	1.120e+05
		-1.409e+05	-1.451e+04	3.38e-03	0.0	377.0	-1.710e+04	-670.88	51.62	3.52	4947.93	-1.409e+05
49	20	1.165e+05	4963.25	-6.70e-03	0.0	0.0	-1.366e+04	-617.34	51.79	3.53	-1.456e+04	1.165e+05
		-1.162e+05	-1.456e+04	3.38e-03	0.0	377.0	-1.253e+04	-617.34	51.79	3.53	4963.25	-1.162e+05
49	21	1.269e+05	4792.21	-7.34e-03	0.0	0.0	-1.813e+04	-716.77	55.19	4.46	-1.601e+04	1.269e+05
		-1.434e+05	-1.601e+04	3.93e-03	0.0	377.0	-1.700e+04	-716.77	55.19	4.46	4792.21	-1.434e+05
49	22	1.013e+05	2.924e+05	-8.93e-03	0.0	0.0	-1.354e+04	-532.96	10.96	335.26	2.882e+05	1.013e+05
		-9.961e+04	2.882e+05	-2.15	0.0	377.0	-1.241e+04	-532.96	10.96	335.26	2.924e+05	-9.961e+04
49	23	1.287e+05	-2.816e+05	-5.81e-03	0.0	0.0	-1.382e+04	-696.21	52.14	-327.59	-3.013e+05	1.287e+05
		-1.337e+05	-3.013e+05	2.15	0.0	377.0	-1.269e+04	-696.21	52.14	-327.59	-2.816e+05	-1.337e+05
49	24	4.361e+05	1508.07	2.03	0.0	0.0	-1.306e+04	-5541.39	32.54	-483.18	-1.076e+04	4.361e+05
		-1.653e+06	-1.076e+04	3.40e-03	0.0	377.0	-1.193e+04	-5541.39	32.54	-483.18	1508.07	-1.653e+06
49	25	1.653e+06	8937.10	-1.99	0.0	0.0	-1.488e+04	5528.49	73.58	474.51	-1.880e+04	-4.317e+05
		-4.317e+05	-1.880e+04	3.32e-03	0.0	377.0	-1.375e+04	5528.49	73.58	474.51	8937.10	1.653e+06
49	26	1.002e+05	2.292e+05	-8.75e-03	0.0	0.0	-1.353e+04	-526.07	-46.34	292.28	2.292e+05	1.002e+05
		-9.810e+04	2.117e+05	-1.63	0.0	377.0	-1.240e+04	-526.07	-46.34	292.28	2.117e+05	-9.810e+04
49	27	1.297e+05	-2.002e+05	-5.85e-03	0.0	0.0	-1.383e+04	-702.25	134.26	-286.03	-2.508e+05	1.297e+05
		-1.351e+05	-2.508e+05	1.63	0.0	377.0	-1.270e+04	-702.25	134.26	-286.03	-2.002e+05	-1.351e+05
49	28	6.979e+05	2366.71	0.80	0.0	0.0	-1.317e+04	-4475.03	36.21	-115.62	-1.128e+04	6.979e+05
		-9.892e+05	-1.128e+04	3.12e-03	0.0	377.0	-1.204e+04	-4475.03	36.21	-115.62	2366.71	-9.892e+05
49	29	7.566e+05	7695.28	-0.82	0.0	0.0	-1.447e+04	3186.47	67.15	123.38	-1.762e+04	-4.447e+05
		-4.447e+05	-1.762e+04	3.52e-03	0.0	377.0	-1.334e+04	3186.47	67.15	123.38	7695.28	7.566e+05
49	30	9.916e+04	3.250e+05	-0.01	0.0	0.0	-1.355e+04	-522.08	846.29	971.16	5993.15	9.916e+04
		-9.766e+04	5993.15	-2.10	0.0	377.0	-1.242e+04	-522.08	846.29	971.16	3.250e+05	-9.766e+04
49	31	1.315e+05	-2.301e+04	-5.60e-03	0.0	0.0	-1.382e+04	-710.49	-768.09	-964.03	-2.301e+04	1.315e+05
		-1.364e+05	-3.126e+05	2.10	0.0	377.0	-1.269e+04	-710.49	-768.09	-964.03	-3.126e+05	-1.364e+05
49	32	9.078e+05	1637.30	1.63	0.0	0.0	-1.276e+04	-6791.74	33.09	-426.93	-1.084e+04	9.078e+05
		-1.653e+06	-1.084e+04	3.37e-03	0.0	377.0	-1.163e+04	-6791.74	33.09	-426.93	1637.30	-1.653e+06
49	33	1.591e+06	8955.49	-1.63	0.0	0.0	-1.508e+04	6552.80	73.74	486.65	-1.884e+04	-8.789e+05
		-8.789e+05	-1.884e+04	3.31e-03	0.0	377.0	-1.395e+04	6552.80	73.74	486.65	8955.49	1.591e+06

49	34 9.916e+04 3.250e+05	-0.01	0.0	0.0 -1.355e+04	-522.08	846.29	971.16	5993.15 9.916e+04
	-9.766e+04 5993.15	-2.10	0.0	377.0 -1.242e+04	-522.08	846.29	971.16 3.250e+05 -9.766e+04
49	35 1.315e+05 -2.301e+04	-5.60e-03	0.0	0.0 -1.382e+04	-710.49	-768.09	-964.03 -2.301e+04 1.315e+05
	-1.364e+05 -3.126e+05	2.10	0.0	377.0 -1.269e+04	-710.49	-768.09	-964.03 -3.126e+05 -1.364e+05
49	36 9.380e+05 2110.32	1.01	0.0	0.0 -1.316e+04	-5891.38	34.76	-149.49 -1.100e+04 9.380e+05
	-1.283e+06 -1.100e+04	3.13e-03	0.0	377.0 -1.203e+04	-5891.38	34.76	-149.49 2110.32 -1.283e+06
49	37 1.034e+06 7916.54	-1.01	0.0	0.0 -1.449e+04	4546.08	68.55	149.62 -1.793e+04 -6.803e+05
	-6.803e+05 -1.793e+04	3.55e-03	0.0	377.0 -1.336e+04	4546.08	68.55	149.62 7916.54 1.034e+06
49	38 1.016e+05 5118.97	-4.46e-03	0.0	0.0 -1.377e+04	-571.46	48.23	2.60 -1.306e+04 1.016e+05
	-1.138e+05 -1.306e+04	2.84e-03	0.0	377.0 -1.264e+04	-571.46	48.23	2.60 5118.97 -1.138e+05
49	39 1.165e+05 4963.25	-6.70e-03	0.0	0.0 -1.366e+04	-617.34	51.79	3.53 -1.456e+04 1.165e+05
	-1.162e+05 -1.456e+04	3.38e-03	0.0	377.0 -1.253e+04	-617.34	51.79	3.53 4963.25 -1.162e+05
49	40 1.037e+05 5084.76	-4.68e-03	0.0	0.0 -1.466e+04	-591.34	48.90	2.78 -1.335e+04 1.037e+05
	-1.192e+05 -1.335e+04	2.94e-03	0.0	377.0 -1.353e+04	-591.34	48.90	2.78 5084.76 -1.192e+05
49	41 1.144e+05 4985.49	-6.34e-03	0.0	0.0 -1.368e+04	-610.79	51.28	3.40 -1.435e+04 1.144e+05
	-1.159e+05 -1.435e+04	3.31e-03	0.0	377.0 -1.255e+04	-610.79	51.28	3.40 4985.49 -1.159e+05
49	42 1.164e+05 4951.28	-6.22e-03	0.0	0.0 -1.457e+04	-630.67	51.96	3.58 -1.464e+04 1.164e+05
	-1.213e+05 -1.464e+04	3.41e-03	0.0	377.0 -1.344e+04	-630.67	51.96	3.58 4951.28 -1.213e+05
49	43 1.016e+05 5118.97	-4.46e-03	0.0	0.0 -1.377e+04	-571.46	48.23	2.60 -1.306e+04 1.016e+05
	-1.138e+05 -1.306e+04	2.84e-03	0.0	377.0 -1.264e+04	-571.46	48.23	2.60 5118.97 -1.138e+05
49	44 1.144e+05 4985.49	-6.34e-03	0.0	0.0 -1.368e+04	-610.79	51.28	3.40 -1.435e+04 1.144e+05
	-1.159e+05 -1.435e+04	3.31e-03	0.0	377.0 -1.255e+04	-610.79	51.28	3.40 4985.49 -1.159e+05
49	45 1.016e+05 5118.97	-4.46e-03	0.0	0.0 -1.377e+04	-571.46	48.23	2.60 -1.306e+04 1.016e+05
	-1.138e+05 -1.306e+04	2.84e-03	0.0	377.0 -1.264e+04	-571.46	48.23	2.60 5118.97 -1.138e+05
49	46 1.144e+05 4985.49	-6.34e-03	0.0	0.0 -1.368e+04	-610.79	51.28	3.40 -1.435e+04 1.144e+05
	-1.159e+05 -1.435e+04	3.31e-03	0.0	377.0 -1.255e+04	-610.79	51.28	3.40 4985.49 -1.159e+05
50	1 2.829e+05 5.233e+04	-0.03	0.0	0.0 -2.740e+04	924.77	-170.58	-22.95 5.233e+04 -6.387e+04
	-6.387e+04 -1.163e+04	8.12e-03	0.0	375.0 -2.557e+04	924.77	-170.58	-22.95 -1.163e+04 2.829e+05
50	2 2.833e+05 5.796e+04	-0.03	0.0	0.0 -2.911e+04	953.43	-196.00	-29.58 5.796e+04 -7.425e+04
	-7.425e+04 -1.553e+04	8.79e-03	0.0	375.0 -2.728e+04	953.43	-196.00	-29.58 -1.553e+04 2.833e+05
50	3 4.760e+05 6.984e+04	-0.04	0.0	0.0 -3.262e+04	1682.97	-249.73	-19.63 6.984e+04 -1.551e+05
	-1.551e+05 -2.381e+04	0.01	0.0	375.0 -3.079e+04	1682.97	-249.73	-19.63 -2.381e+04 4.760e+05
50	4 4.764e+05 7.547e+04	-0.04	0.0	0.0 -3.433e+04	1711.63	-275.15	-26.26 7.547e+04 -1.655e+05
	-1.655e+05 -2.771e+04	0.01	0.0	375.0 -3.250e+04	1711.63	-275.15	-26.26 -2.771e+04 4.764e+05
50	5 1.681e+05 3.577e+04	-0.02	0.0	0.0 -1.974e+04	516.95	-110.92	-18.51 3.577e+04 -2.574e+04
	-2.574e+04 -5826.41	5.72e-03	0.0	375.0 -1.833e+04	516.95	-110.92	-18.51 -5826.41 1.681e+05
50	6 1.685e+05 4.140e+04	-0.02	0.0	0.0 -2.144e+04	545.61	-136.34	-25.14 4.140e+04 -3.611e+04
	-3.611e+04 -9727.55	6.38e-03	0.0	375.0 -2.004e+04	545.61	-136.34	-25.14 -9727.55 1.685e+05
50	7 3.612e+05 5.327e+04	-0.03	0.0	0.0 -2.496e+04	1275.15	-190.07	-15.18 5.327e+04 -1.170e+05
	-1.170e+05 -1.800e+04	7.78e-03	0.0	375.0 -2.355e+04	1275.15	-190.07	-15.18 -1.800e+04 3.612e+05
50	8 3.616e+05 5.890e+04	-0.03	0.0	0.0 -2.667e+04	1303.81	-215.49	-21.81 5.890e+04 -1.274e+05
	-1.274e+05 -2.190e+04	8.44e-03	0.0	375.0 -2.526e+04	1303.81	-215.49	-21.81 -2.190e+04 3.616e+05
50	9 2.837e+05 6.360e+04	-0.03	0.0	0.0 -3.081e+04	982.10	-221.42	-36.21 6.360e+04 -8.463e+04
	-8.463e+04 -1.944e+04	9.45e-03	0.0	375.0 -2.899e+04	982.10	-221.42	-36.21 -1.944e+04 2.837e+05
50	10 4.181e+05 6.459e+04	-0.04	0.0	0.0 -3.105e+04	1455.51	-225.98	-20.62 6.459e+04 -1.277e+05
	-1.277e+05 -2.016e+04	9.56e-03	0.0	375.0 -2.923e+04	1455.51	-225.98	-20.62 -2.016e+04 4.181e+05
50	11 4.188e+05 7.585e+04	-0.04	0.0	0.0 -3.447e+04	1512.84	-276.82	-33.89 7.585e+04 -1.485e+05
	-1.485e+05 -2.796e+04	0.01	0.0	375.0 -3.264e+04	1512.84	-276.82	-33.89 -2.796e+04 4.188e+05
50	12 1.689e+05 4.703e+04	-0.02	0.0	0.0 -2.315e+04	574.28	-161.76	-31.77 4.703e+04 -4.649e+04
	-4.649e+04 -1.363e+04	7.05e-03	0.0	375.0 -2.175e+04	574.28	-161.76	-31.77 -1.363e+04 1.689e+05
50	13 3.033e+05 4.802e+04	-0.03	0.0	0.0 -2.339e+04	1047.69	-166.32	-16.18 4.802e+04 -8.961e+04
	-8.961e+04 -1.435e+04	7.16e-03	0.0	375.0 -2.199e+04	1047.69	-166.32	-16.18 -1.435e+04 3.033e+05
50	14 3.040e+05 5.928e+04	-0.03	0.0	0.0 -2.681e+04	1105.02	-217.16	-29.44 5.928e+04 -1.104e+05
	-1.104e+05 -2.215e+04	8.49e-03	0.0	375.0 -2.540e+04	1105.02	-217.16	-29.44 -2.215e+04 3.040e+05
50	15 2.110e+05 3.966e+04	-0.02	0.0	0.0 -2.090e+04	685.44	-128.51	-17.77 3.966e+04 -4.601e+04
	-4.601e+04 -8532.46	6.18e-03	0.0	375.0 -1.949e+04	685.44	-128.51	-17.77 -8532.46 2.110e+05
50	16 2.113e+05 4.341e+04	-0.02	0.0	0.0 -2.204e+04	704.55	-145.45	-22.19 4.341e+04 -5.293e+04
	-5.293e+04 -1.113e+04	6.62e-03	0.0	375.0 -2.063e+04	704.55	-145.45	-22.19 -1.113e+04 2.113e+05
50	17 3.397e+05 5.133e+04	-0.03	0.0	0.0 -2.438e+04	1190.90	-181.27	-15.55 5.133e+04 -1.068e+05
	-1.068e+05 -1.665e+04	7.55e-03	0.0	375.0 -2.297e+04	1190.90	-181.27	-15.55 -1.665e+04 3.397e+05
50	18 3.400e+05 5.508e+04	-0.03	0.0	0.0 -2.552e+04	1210.01	-198.22	-19.97 5.508e+04 -1.138e+05
	-1.138e+05 -1.925e+04	7.99e-03	0.0	375.0 -2.411e+04	1210.01	-198.22	-19.97 -1.925e+04 3.400e+05
50	19 2.115e+05 4.717e+04	-0.02	0.0	0.0 -2.317e+04	723.66	-162.40	-26.61 4.717e+04 -5.985e+04
	-5.985e+04 -1.373e+04	7.06e-03	0.0	375.0 -2.177e+04	723.66	-162.40	-26.61 -1.373e+04 2.115e+05
50	20 3.011e+05 4.783e+04	-0.03	0.0	0.0 -2.333e+04	1039.26	-165.44	-16.22 4.783e+04 -8.859e+04
	-8.859e+04 -1.422e+04	7.14e-03	0.0	375.0 -2.193e+04	1039.26	-165.44	-16.22 -1.422e+04 3.011e+05
50	21 3.016e+05 5.533e+04	-0.03	0.0	0.0 -2.561e+04	1077.48	-199.34	-25.06 5.533e+04 -1.024e+05
	-1.024e+05 -1.942e+04	8.02e-03	0.0	375.0 -2.420e+04	1077.48	-199.34	-25.06 -1.942e+04 3.016e+05
50	22 3.376e+05 1.333e+06	-0.03	0.0	0.0 -1.805e+04	1321.94	7157.16	2630.84 -1.351e+06 -1.581e+05
	-1.581e+05 -1.351e+06	-2.93	0.0	375.0 -1.664e+04	1321.94	7157.16	2630.84 1.333e+06 3.376e+05
50	23 2.365e+05 1.351e+06	-0.02	0.0	0.0 -2.807e+04	639.45	-7158.45	-2667.92 1.351e+06 -3246.50
	-3246.50 -1.333e+06	2.94	0.0	375.0 -2.666e+04	639.45	-7158.45	-2667.92 -1.333e+06 2.365e+05
50	24 2.349e+06 5.212e+04	2.73	0.0	0.0 -1.234e+04	-9804.14	-248.97	394.88 5.212e+04 2.349e+06
	-1.328e+05 -4.124e+04	9.93e-03	0.0	375.0 -1.094e+04	-9804.14	-248.97	394.88 -4.124e+04 -1.328e+05
50	25 1.294e+06 3.856e+04	-2.69	0.0	0.0 -3.391e+04	9714.21	-57.72	-441.63 3.856e+04 -2.348e+06
	-2.348e+06 1.691e+04	-0.01	0.0	375.0 -3.250e+04	9714.21	-57.72	-441.63 1.691e+04 1.294e+06
50	26 3.397e+05 1.334e+06	-0.03	0.0	0.0 -1.738e+04	1334.67	7155.31	2351.30 -1.349e+06 -1.608e+05

		-1.608e+05	-1.349e+06	-2.09	0.0	375.0	-1.597e+04	1334.67	7155.31	2351.30	1.334e+06	3.397e+05
50	27	2.350e+05	1.349e+06	-0.02	0.0	0.0	-2.870e+04	630.31	-7155.08	-2391.63	1.349e+06	-1323.46
		-1323.46	-1.334e+06	2.11	0.0	375.0	-2.729e+04	630.31	-7155.08	-2391.63	-1.334e+06	2.350e+05
50	28	1.620e+06	4.805e+04	0.83	0.0	0.0	-1.593e+04	-6164.70	-211.28	674.45	4.805e+04	1.620e+06
		-6.914e+05	-3.118e+04	6.34e-03	0.0	375.0	-1.453e+04	-6164.70	-211.28	674.45	-3.118e+04	-6.914e+05
50	29	8.457e+05	4.394e+04	-0.86	0.0	0.0	-3.016e+04	6650.64	-103.04	-731.99	4.394e+04	-1.648e+06
		-1.648e+06	5305.50	-9.41e-03	0.0	375.0	-2.876e+04	6650.64	-103.04	-731.99	5305.50	8.457e+05
50	30	3.354e+05	1.333e+06	-0.03	0.0	0.0	-1.824e+04	1310.10	7153.16	2264.56	-1.349e+06	-1.559e+05
		-1.559e+05	-1.349e+06	-2.01	0.0	375.0	-1.683e+04	1310.10	7153.16	2264.56	1.333e+06	3.354e+05
50	31	2.371e+05	1.349e+06	-0.02	0.0	0.0	-2.800e+04	639.53	-7154.15	-2297.05	1.349e+06	-2750.18
		-2750.18	-1.334e+06	2.02	0.0	375.0	-2.659e+04	639.53	-7154.15	-2297.05	-1.334e+06	2.371e+05
50	32	2.346e+06	5.160e+04	1.66	0.0	0.0	-1.265e+04	-8645.08	-244.91	209.05	5.160e+04	2.346e+06
		-8.956e+05	-4.024e+04	9.68e-03	0.0	375.0	-1.125e+04	-8645.08	-244.91	209.05	-4.024e+04	-8.956e+05
50	33	8.265e+05	3.814e+04	-1.67	0.0	0.0	-3.376e+04	8460.68	-56.36	-189.86	3.814e+04	-2.346e+06
		-2.346e+06	1.700e+04	-0.01	0.0	375.0	-3.235e+04	8460.68	-56.36	-189.86	1.700e+04	8.265e+05
50	34	3.354e+05	1.333e+06	-0.03	0.0	0.0	-1.824e+04	1310.10	7153.16	2264.56	-1.349e+06	-1.559e+05
		-1.559e+05	-1.349e+06	-2.01	0.0	375.0	-1.683e+04	1310.10	7153.16	2264.56	1.333e+06	3.354e+05
50	35	2.371e+05	1.349e+06	-0.02	0.0	0.0	-2.800e+04	639.53	-7154.15	-2297.05	1.349e+06	-2750.18
		-2750.18	-1.334e+06	2.02	0.0	375.0	-2.659e+04	639.53	-7154.15	-2297.05	-1.334e+06	2.371e+05
50	36	1.684e+06	4.841e+04	0.90	0.0	0.0	-1.465e+04	-6180.27	-217.40	541.54	4.841e+04	1.684e+06
		-6.337e+05	-3.311e+04	6.52e-03	0.0	375.0	-1.325e+04	-6180.27	-217.40	541.54	-3.311e+04	-6.337e+05
50	37	6.825e+05	4.380e+04	-0.91	0.0	0.0	-3.134e+04	6225.77	-98.89	-579.08	4.380e+04	-1.652e+06
		-1.652e+06	6715.33	-9.72e-03	0.0	375.0	-2.993e+04	6225.77	-98.89	-579.08	6715.33	6.825e+05
50	38	2.110e+05	3.966e+04	-0.02	0.0	0.0	-2.090e+04	685.44	-128.51	-17.77	3.966e+04	-4.601e+04
		-4.601e+04	-8532.46	6.18e-03	0.0	375.0	-1.949e+04	685.44	-128.51	-17.77	-8532.46	2.110e+05
50	39	3.011e+05	4.783e+04	-0.03	0.0	0.0	-2.333e+04	1039.26	-165.44	-16.22	4.783e+04	-8.859e+04
		-8.859e+04	-1.422e+04	7.14e-03	0.0	375.0	-2.193e+04	1039.26	-165.44	-16.22	-1.422e+04	3.011e+05
50	40	2.111e+05	4.116e+04	-0.02	0.0	0.0	-2.135e+04	693.08	-135.28	-19.54	4.116e+04	-4.878e+04
		-4.878e+04	-9572.76	6.35e-03	0.0	375.0	-1.995e+04	693.08	-135.28	-19.54	-9572.76	2.111e+05
50	41	2.883e+05	4.666e+04	-0.02	0.0	0.0	-2.299e+04	988.72	-160.17	-16.44	4.666e+04	-8.251e+04
		-8.251e+04	-1.340e+04	7.00e-03	0.0	375.0	-2.158e+04	988.72	-160.17	-16.44	-1.340e+04	2.883e+05
50	42	2.884e+05	4.816e+04	-0.03	0.0	0.0	-2.344e+04	996.36	-166.94	-18.21	4.816e+04	-8.528e+04
		-8.528e+04	-1.444e+04	7.18e-03	0.0	375.0	-2.204e+04	996.36	-166.94	-18.21	-1.444e+04	2.884e+05
50	43	2.110e+05	3.966e+04	-0.02	0.0	0.0	-2.090e+04	685.44	-128.51	-17.77	3.966e+04	-4.601e+04
		-4.601e+04	-8532.46	6.18e-03	0.0	375.0	-1.949e+04	685.44	-128.51	-17.77	-8532.46	2.110e+05
50	44	2.883e+05	4.666e+04	-0.02	0.0	0.0	-2.299e+04	988.72	-160.17	-16.44	4.666e+04	-8.251e+04
		-8.251e+04	-1.340e+04	7.00e-03	0.0	375.0	-2.158e+04	988.72	-160.17	-16.44	-1.340e+04	2.883e+05
50	45	2.110e+05	3.966e+04	-0.02	0.0	0.0	-2.090e+04	685.44	-128.51	-17.77	3.966e+04	-4.601e+04
		-4.601e+04	-8532.46	6.18e-03	0.0	375.0	-1.949e+04	685.44	-128.51	-17.77	-8532.46	2.110e+05
50	46	2.883e+05	4.666e+04	-0.02	0.0	0.0	-2.299e+04	988.72	-160.17	-16.44	4.666e+04	-8.251e+04
		-8.251e+04	-1.340e+04	7.00e-03	0.0	375.0	-2.158e+04	988.72	-160.17	-16.44	-1.340e+04	2.883e+05
51	1	3.280e+05	2.968e+04	-0.02	0.0	0.0	-1.253e+04	1625.36	160.15	7.82	-3.069e+04	-2.848e+05
		-2.848e+05	-3.069e+04	2.62e-03	0.0	377.0	-1.105e+04	1625.36	160.15	7.82	2.968e+04	3.280e+05
51	2	3.885e+05	2.796e+04	-0.03	0.0	0.0	-1.416e+04	1852.12	151.93	11.14	-2.932e+04	-3.097e+05
		-3.097e+05	-2.932e+04	2.60e-03	0.0	377.0	-1.269e+04	1852.12	151.93	11.14	2.796e+04	3.885e+05
51	3	3.701e+05	2.472e+04	-0.02	0.0	0.0	-1.262e+04	1995.32	136.05	8.18	-2.657e+04	-3.821e+05
		-3.821e+05	-2.657e+04	2.50e-03	0.0	377.0	-1.115e+04	1995.32	136.05	8.18	2.472e+04	3.701e+05
51	4	4.306e+05	2.300e+04	-0.03	0.0	0.0	-1.426e+04	2222.09	127.83	11.50	-2.519e+04	-4.071e+05
		-4.071e+05	-2.519e+04	2.48e-03	0.0	377.0	-1.279e+04	2222.09	127.83	11.50	2.300e+04	4.306e+05
51	5	2.415e+05	2.411e+04	-0.02	0.0	0.0	-9609.50	1155.41	129.37	5.93	-2.467e+04	-1.941e+05
		-1.941e+05	-2.467e+04	2.05e-03	0.0	377.0	-8478.50	1155.41	129.37	5.93	2.411e+04	2.415e+05
51	6	3.020e+05	2.239e+04	-0.03	0.0	0.0	-1.124e+04	1382.18	121.15	9.25	-2.329e+04	-2.191e+05
		-2.191e+05	-2.329e+04	2.02e-03	0.0	377.0	-1.011e+04	1382.18	121.15	9.25	2.239e+04	3.020e+05
51	7	2.836e+05	1.914e+04	-0.02	0.0	0.0	-9707.96	1525.38	105.27	6.29	-2.054e+04	-2.914e+05
		-2.914e+05	-2.054e+04	1.93e-03	0.0	377.0	-8576.96	1525.38	105.27	6.29	1.914e+04	2.836e+05
51	8	3.441e+05	1.742e+04	-0.02	0.0	0.0	-1.134e+04	1752.14	97.06	9.61	-1.917e+04	-3.164e+05
		-3.164e+05	-1.917e+04	1.90e-03	0.0	377.0	-1.021e+04	1752.14	97.06	9.61	1.742e+04	3.441e+05
51	9	4.490e+05	2.624e+04	-0.04	0.0	0.0	-1.579e+04	2078.89	143.72	14.46	-2.794e+04	-3.347e+05
		-3.347e+05	-2.794e+04	2.57e-03	0.0	377.0	-1.432e+04	2078.89	143.72	14.46	2.624e+04	4.490e+05
51	10	3.575e+05	2.621e+04	-0.02	0.0	0.0	-1.259e+04	1884.33	143.28	8.08	-2.781e+04	-3.529e+05
		-3.529e+05	-2.781e+04	2.54e-03	0.0	377.0	-1.112e+04	1884.33	143.28	8.08	2.621e+04	3.575e+05
51	11	4.785e+05	2.277e+04	-0.04	0.0	0.0	-1.586e+04	2337.86	126.85	14.72	-2.505e+04	-4.029e+05
		-4.029e+05	-2.505e+04	2.48e-03	0.0	377.0	-1.439e+04	2337.86	126.85	14.72	2.277e+04	4.785e+05
51	12	3.625e+05	2.066e+04	-0.03	0.0	0.0	-1.288e+04	1608.94	112.94	12.57	-2.191e+04	-2.441e+05
		-2.441e+05	-2.191e+04	1.99e-03	0.0	377.0	-1.175e+04	1608.94	112.94	12.57	2.066e+04	3.625e+05
51	13	2.710e+05	2.063e+04	-0.02	0.0	0.0	-9678.42	1414.39	112.50	6.18	-2.178e+04	-2.622e+05
		-2.622e+05	-2.178e+04	1.96e-03	0.0	377.0	-8547.42	1414.39	112.50	6.18	2.063e+04	2.710e+05
51	14	3.920e+05	1.719e+04	-0.03	0.0	0.0	-1.295e+04	1867.92	96.07	12.82	-1.903e+04	-3.122e+05
		-3.122e+05	-1.903e+04	1.91e-03	0.0	377.0	-1.181e+04	1867.92	96.07	12.82	1.719e+04	3.920e+05
51	15	2.509e+05	2.300e+04	-0.02	0.0	0.0	-9631.38	1237.63	124.01	6.01	-2.375e+04	-2.157e+05
		-2.157e+05	-2.375e+04	2.02e-03	0.0	377.0	-8500.38	1237.63	124.01	6.01	2.300e+04	2.509e+05
51	16	2.912e+05	2.186e+04	-0.02	0.0	0.0	-1.072e+04	1388.80	118.54	8.22	-2.283e+04	-2.324e+05
		-2.324e+05	-2.283e+04	2.00e-03	0.0	377.0	-9589.31	1388.80	118.54	8.22	2.186e+04	2.912e+05
51	17	2.790e+05	1.970e+04	-0.02	0.0	0.0	-9697.02	1484.27	107.95	6.25	-2.100e+04	-2.806e+05
		-2.806e+05	-2.100e+04	1.94e-03	0.0	377.0	-8566.02	1484.27	107.95	6.25	1.970e+04	2.790e+05
51	18	3.193e+05	1.855e+04	-0.02	0.0	0.0	-1.079e+04	1635.45	102.47	8.46	-2.008e+04	-2.973e+05
		-2.973e+05	-2.008e+04	1.92e-03	0.0	377.0	-9654.94	1635.45	102.47	8.46	1.855e+04	3.193e+05

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51   19 3.315e+05 2.071e+04      -0.03    0.0      0.0-1.181e+04    1539.98     113.06      10.43-2.192e+04-2.490e+05
        -2.490e+05-2.192e+04   1.99e-03    0.0    377.0-1.068e+04    1539.98     113.06      10.43 2.071e+04 3.315e+05
51   20 2.705e+05 2.069e+04      -0.02    0.0      0.0  -9677.33    1410.28     112.77       6.17-2.183e+04-2.611e+05
        -2.611e+05-2.183e+04   1.97e-03    0.0    377.0  -8546.33    1410.28     112.77       6.17 2.069e+04 2.705e+05
51   21 3.512e+05 1.839e+04      -0.03    0.0      0.0-1.186e+04    1712.63     101.82      10.60-1.999e+04-2.945e+05
        -2.945e+05-1.999e+04   1.93e-03    0.0    377.0-1.072e+04    1712.63     101.82      10.60 1.839e+04 3.512e+05
51   22 2.900e+05 1.176e+06      -0.02    0.0      0.0  -9095.67    1476.85    6174.78     979.03-1.152e+06-2.668e+05
        -2.668e+05-1.152e+06      -2.15    0.0    377.0  -7964.67    1476.85    6174.78     979.03 1.176e+06 2.900e+05
51   23 2.440e+05 1.163e+06      -0.01    0.0      0.0-1.039e+04    1288.05   -6204.54    -962.61 1.163e+06-2.416e+05
        -2.416e+05-1.176e+06       2.15    0.0    377.0  -9259.09    1288.05   -6204.54    -962.61-1.176e+06 2.440e+05
51   24-1.180e+05 1.733e+04       2.03    0.0      0.0  -4638.44   -2578.62     -89.47    -485.01 1.733e+04-1.180e+05
        -1.090e+06-1.640e+04   4.86e-03    0.0    377.0  -3507.44   -2578.62     -89.47    -485.01-1.640e+04-1.090e+06
51   25 1.200e+06 6.021e+04      -1.99    0.0      0.0-1.420e+04    2968.98     327.46     486.30-6.324e+04 8.040e+04
         8.040e+04-6.324e+04  -7.34e-03    0.0    377.0-1.307e+04    2968.98     327.46     486.30 6.021e+04 1.200e+06
51   26 2.916e+05 1.175e+06      -0.02    0.0      0.0  -8443.00    1483.89    6266.89     913.03-1.187e+06-2.679e+05
        -2.679e+05-1.187e+06      -1.63    0.0    377.0  -7312.00    1483.89    6266.89     913.03 1.175e+06 2.916e+05
51   27 2.427e+05 1.187e+06      -0.01    0.0      0.0-1.096e+04    1281.97   -6266.12    -898.94 1.187e+06-2.406e+05
        -2.406e+05-1.175e+06       1.63    0.0    377.0  -9824.09    1281.97   -6266.12    -898.94-1.175e+06 2.427e+05
51   28 7.670e+04    5397.23       0.80    0.0      0.0  -7064.78   -1086.78     -27.41    -106.00    5397.23 7.670e+04
        -3.330e+05   -4937.55   1.46e-03    0.0    377.0  -5933.78   -1086.78     -27.41    -106.00   -4937.55-3.330e+05
51   29 8.106e+05 4.737e+04      -0.82    0.0      0.0-1.212e+04    3134.98     258.13     118.72-4.994e+04-3.713e+05
        -3.713e+05-4.994e+04   4.13e-03    0.0    377.0-1.099e+04    3134.98     258.13     118.72 4.737e+04 8.106e+05
51   30 2.913e+05 1.176e+06      -0.02    0.0      0.0  -9285.95    1485.10    6263.99    1532.93-1.185e+06-2.686e+05
        -2.686e+05-1.185e+06      -2.11    0.0    377.0  -8154.95    1485.10    6263.99    1532.93 1.176e+06 2.913e+05
51   31 2.418e+05 1.188e+06      -0.01    0.0      0.0-1.030e+04    1276.01   -6269.40   -1514.50 1.188e+06-2.392e+05
        -2.392e+05-1.176e+06       2.10    0.0    377.0  -9173.83    1276.01   -6269.40   -1514.50-1.176e+06 2.418e+05
51   32 3.133e+05 1.560e+04       1.64    0.0      0.0  -4931.53   -3393.32     -80.37    -292.83 1.560e+04 3.133e+05
        -9.659e+05-1.470e+04   4.14e-03    0.0    377.0  -3800.53   -3393.32     -80.37    -292.83-1.470e+04-9.659e+05
51   33 1.201e+06 5.983e+04      -1.63    0.0      0.0-1.405e+04    4210.21     325.33     343.17-6.282e+04-3.864e+05
        -3.864e+05-6.282e+04  -7.17e-03    0.0    377.0-1.292e+04    4210.21     325.33     343.17 5.983e+04 1.201e+06
51   34 2.913e+05 1.176e+06      -0.02    0.0      0.0  -9285.95    1485.10    6263.99    1532.93-1.185e+06-2.686e+05
        -2.686e+05-1.185e+06      -2.11    0.0    377.0  -8154.95    1485.10    6263.99    1532.93 1.176e+06 2.913e+05
51   35 2.418e+05 1.188e+06      -0.01    0.0      0.0-1.030e+04    1276.01   -6269.40   -1514.50 1.188e+06-2.392e+05
        -2.392e+05-1.176e+06       2.10    0.0    377.0  -9173.83    1276.01   -6269.40   -1514.50-1.176e+06 2.418e+05
51   36 2.950e+05    7924.64       1.01    0.0      0.0  -6186.14   -2256.84     -40.41     -29.78    7924.64 2.950e+05
        -5.559e+05   -7311.44   1.69e-03    0.0    377.0  -5055.14   -2256.84     -40.41     -29.78   -7311.44-5.559e+05
51   37 1.008e+06 4.909e+04      -1.01    0.0      0.0-1.292e+04    4091.40     267.60      38.20-5.179e+04-5.349e+05
        -5.349e+05-5.179e+04   4.30e-03    0.0    377.0-1.179e+04    4091.40     267.60      38.20 4.909e+04 1.008e+06
51   38 2.509e+05 2.300e+04      -0.02    0.0      0.0  -9631.38    1237.63     124.01       6.01-2.375e+04-2.157e+05
        -2.157e+05-2.375e+04   2.02e-03    0.0    377.0  -8500.38    1237.63     124.01       6.01 2.300e+04 2.509e+05
51   39 2.705e+05 2.069e+04      -0.02    0.0      0.0  -9677.33    1410.28     112.77       6.17-2.183e+04-2.611e+05
        -2.611e+05-2.183e+04   1.97e-03    0.0    377.0  -8546.33    1410.28     112.77       6.17 2.069e+04 2.705e+05
51   40 2.670e+05 2.254e+04      -0.02    0.0      0.0-1.007e+04    1298.10     121.82       6.89-2.338e+04-2.224e+05
        -2.224e+05-2.338e+04   2.02e-03    0.0    377.0  -8935.95    1298.10     121.82       6.89 2.254e+04 2.670e+05
51   41 2.677e+05 2.102e+04      -0.02    0.0      0.0  -9670.76    1385.61     114.37       6.15-2.210e+04-2.547e+05
        -2.547e+05-2.210e+04   1.97e-03    0.0    377.0  -8539.76    1385.61     114.37       6.15 2.102e+04 2.677e+05
51   42 2.839e+05 2.056e+04      -0.02    0.0      0.0-1.011e+04    1446.08     112.18       7.04-2.173e+04-2.613e+05
        -2.613e+05-2.173e+04   1.97e-03    0.0    377.0  -8975.33    1446.08     112.18       7.04 2.056e+04 2.839e+05
51   43 2.509e+05 2.300e+04      -0.02    0.0      0.0  -9631.38    1237.63     124.01       6.01-2.375e+04-2.157e+05
        -2.157e+05-2.375e+04   2.02e-03    0.0    377.0  -8500.38    1237.63     124.01       6.01 2.300e+04 2.509e+05
51   44 2.677e+05 2.102e+04      -0.02    0.0      0.0  -9670.76    1385.61     114.37       6.15-2.210e+04-2.547e+05
        -2.547e+05-2.210e+04   1.97e-03    0.0    377.0  -8539.76    1385.61     114.37       6.15 2.102e+04 2.677e+05
51   45 2.509e+05 2.300e+04      -0.02    0.0      0.0  -9631.38    1237.63     124.01       6.01-2.375e+04-2.157e+05
        -2.157e+05-2.375e+04   2.02e-03    0.0    377.0  -8500.38    1237.63     124.01       6.01 2.300e+04 2.509e+05
51   46 2.677e+05 2.102e+04      -0.02    0.0      0.0  -9670.76    1385.61     114.37       6.15-2.210e+04-2.547e+05
        -2.547e+05-2.210e+04   1.97e-03    0.0    377.0  -8539.76    1385.61     114.37       6.15 2.102e+04 2.677e+05
52    1-3.905e+04-2.168e+04      -0.02    0.0      0.0-1.408e+04      -6.64      67.85    -104.25-4.712e+04-3.905e+04
        -4.154e+04-4.712e+04       0.01    0.0    375.0-1.225e+04      -6.64      67.85    -104.25-2.168e+04-4.154e+04
52    2-3.653e+04-2.312e+04      -0.02    0.0      0.0-1.478e+04     -13.64      65.24    -112.54-4.759e+04-3.653e+04
        -4.165e+04-4.759e+04       0.01    0.0    375.0-1.295e+04     -13.64      65.24    -112.54-2.312e+04-4.165e+04
52    3-1.159e+04-2.630e+04      -0.02    0.0      0.0-1.617e+04    -222.84      59.03    -136.35-4.843e+04-1.159e+04
        -9.516e+04-4.843e+04       0.01    0.0    375.0-1.434e+04    -222.84      59.03    -136.35-2.630e+04-9.516e+04
52    4   -9080.37-2.774e+04      -0.02    0.0      0.0-1.687e+04    -229.84      56.42    -144.65-4.890e+04   -9080.37
        -9.527e+04-4.890e+04       0.01    0.0    375.0-1.504e+04    -229.84      56.42    -144.65-2.774e+04-9.527e+04
52    5-1.820e+04-1.549e+04      -0.01    0.0      0.0-1.030e+04      50.33      54.46     -71.96-3.591e+04-3.708e+04
        -3.708e+04-3.591e+04   9.92e-03    0.0    375.0  -8890.13      50.33      54.46     -71.96-1.549e+04-1.820e+04
52    6-1.831e+04-1.694e+04      -0.01    0.0      0.0-1.099e+04      43.33      51.85     -80.25-3.638e+04-3.456e+04
        -3.456e+04-3.638e+04       0.01    0.0    375.0  -9585.75      43.33      51.85     -80.25-1.694e+04-1.831e+04
52    7   -9621.50-2.011e+04      -0.02    0.0      0.0-1.239e+04    -165.87      45.63    -104.06-3.722e+04   -9621.50
        -7.182e+04-3.722e+04       0.01    0.0    375.0-1.098e+04    -165.87      45.63    -104.06-2.011e+04-7.182e+04
52    8   -7109.06-2.155e+04      -0.02    0.0      0.0-1.308e+04    -172.87      43.02    -112.36-3.769e+04   -7109.06
        -7.193e+04-3.769e+04       0.01    0.0    375.0-1.168e+04    -172.87      43.02    -112.36-2.155e+04-7.193e+04
52    9-3.402e+04-2.457e+04      -0.02    0.0      0.0-1.547e+04     -20.63      62.63    -120.83-4.806e+04-3.402e+04
        -4.176e+04-4.806e+04       0.01    0.0    375.0-1.365e+04     -20.63      62.63    -120.83-2.457e+04-4.176e+04
52   10-1.983e+04-2.491e+04      -0.02    0.0      0.0-1.555e+04    -157.98      61.67    -126.72-4.804e+04-1.983e+04
        -7.907e+04-4.804e+04       0.01    0.0    375.0-1.372e+04    -157.98      61.67    -126.72-2.491e+04-7.907e+04
52   11-1.480e+04-2.780e+04      -0.02    0.0      0.0-1.694e+04    -171.97      56.45    -143.31-4.897e+04-1.480e+04
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        -7.929e+04 -4.897e+04    0.01    0.0   375.0 -1.511e+04   -171.97     56.45   -143.31 -2.780e+04 -7.929e+04
52   12 -1.843e+04 -1.838e+04   -0.01    0.0     0.0 -1.169e+04     36.34     49.23    -88.54 -3.685e+04 -3.205e+04
        -3.205e+04 -3.685e+04    0.01    0.0   375.0 -1.028e+04     36.34     49.23    -88.54 -1.838e+04 -1.843e+04
52   13 -1.786e+04 -1.872e+04   -0.01    0.0     0.0 -1.176e+04   -101.01     48.28    -94.43 -3.683e+04 -1.786e+04
        -5.574e+04 -3.683e+04    0.01    0.0   375.0 -1.035e+04   -101.01     48.28    -94.43 -1.872e+04 -5.574e+04
52   14 -1.283e+04 -2.162e+04   -0.02    0.0     0.0 -1.315e+04   -115.00     43.06   -111.02 -3.776e+04 -1.283e+04
        -5.596e+04 -3.776e+04    0.01    0.0   375.0 -1.174e+04   -115.00     43.06   -111.02 -2.162e+04 -5.596e+04
52   15 -3.012e+04 -1.652e+04   -0.01    0.0     0.0 -1.076e+04      2.28     52.50    -79.09 -3.620e+04 -3.097e+04
        -3.097e+04 -3.620e+04    0.01    0.0   375   -9354.62      2.28     52.50    -79.09 -1.652e+04 -3.012e+04
52   16 -2.930e+04 -1.748e+04   -0.01    0.0     0.0 -1.122e+04     -2.38     50.75    -84.62 -3.651e+04 -2.930e+04
        -3.019e+04 -3.651e+04    0.01    0.0   375   -9818.37     -2.38     50.75    -84.62 -1.748e+04 -3.019e+04
52   17 -1.267e+04 -1.960e+04   -0.01    0.0     0.0 -1.215e+04   -141.85     46.61   -100.50 -3.708e+04 -1.267e+04
        -6.587e+04 -3.708e+04    0.01    0.0   375.0 -1.075e+04   -141.85     46.61   -100.50 -1.960e+04 -6.587e+04
52   18 -1.100e+04 -2.056e+04   -0.02    0.0     0.0 -1.262e+04   -146.51     44.87   -106.02 -3.739e+04 -1.100e+04
        -6.594e+04 -3.739e+04    0.01    0.0   375.0 -1.121e+04   -146.51     44.87   -106.02 -2.056e+04 -6.594e+04
52   19 -2.762e+04 -1.845e+04   -0.01    0.0     0.0 -1.169e+04     -7.05     49.01    -90.15 -3.683e+04 -2.762e+04
        -3.027e+04 -3.683e+04    0.01    0.0   375.0 -1.028e+04     -7.05     49.01    -90.15 -1.845e+04 -3.027e+04
52   20 -1.816e+04 -1.867e+04   -0.01    0.0     0.0 -1.174e+04    -98.61     48.38    -94.07 -3.681e+04 -1.816e+04
        -5.514e+04 -3.681e+04    0.01    0.0   375.0 -1.033e+04    -98.61     48.38    -94.07 -1.867e+04 -5.514e+04
52   21 -1.481e+04 -2.060e+04   -0.02    0.0     0.0 -1.266e+04   -107.94     44.90   -105.13 -3.744e+04 -1.481e+04
        -5.529e+04 -3.744e+04    0.01    0.0   375.0 -1.126e+04   -107.94     44.90   -105.13 -2.060e+04 -5.529e+04
52   22  1.735e+05  9.574e+05   -0.03    0.0     0.0  -5480.34   -933.45   5829.83   5472.61 -1.229e+06  1.735e+05
        -1.765e+05 -1.229e+06   -2.88    0.0   375.0  -4074.09   -933.45   5829.83   5472.61  9.574e+05 -1.765e+05
52   23  7.347e+04  1.229e+06    0.02    0.0     0.0 -1.767e+04    766.00  -5767.36  -5637.51  1.229e+06 -2.138e+05
        -2.138e+05 -9.342e+05    2.86    0.0   375.0 -1.626e+04    766.00  -5767.36  -5637.51 -9.342e+05  7.347e+04
52   24  2.170e+06  1.276e+05    2.67    0.0     0.0 -2.394e+04  -9007.79   1032.26   1205.47 -2.595e+05  2.170e+06
        -1.208e+06 -2.595e+05   -0.03    0.0   375.0 -2.253e+04  -9007.79   1032.26   1205.47  1.276e+05 -1.208e+06
52   25  1.234e+06  1.730e+05   -2.64    0.0     0.0    174.50   9078.71   -870.54  -1246.15  1.730e+05 -2.170e+06
        -2.170e+06 -1.534e+05    0.02    0.0   375.0   1580.75   9078.71   -870.54  -1246.15 -1.534e+05  1.234e+06
52   26  1.636e+05  9.036e+05   -0.03    0.0     0.0  -5980.82   -889.54   5682.51   5485.94 -1.227e+06  1.636e+05
        -1.700e+05 -1.227e+06   -2.05    0.0   375.0  -4574.57   -889.54   5682.51   5485.94  9.036e+05 -1.700e+05
52   27  6.734e+04  1.227e+06    0.02    0.0     0.0 -1.719e+04    724.69  -5602.46  -5639.62  1.227e+06 -2.044e+05
        -2.044e+05 -8.739e+05    2.03    0.0   375.0 -1.579e+04    724.69  -5602.46  -5639.62 -8.739e+05  6.734e+04
52   28  1.233e+06  7.795e+04    0.79    0.0     0.0 -2.002e+04  -5416.34    704.61   1147.17 -1.863e+05  1.233e+06
        -7.983e+05 -1.863e+05    0.02    0.0   375.0 -1.861e+04  -5416.34    704.61   1147.17  7.795e+04 -7.983e+05
52   29  8.387e+05  1.128e+05   -0.83    0.0     0.0  -2891.29   5754.01   -605.44  -1288.14  1.128e+05 -1.319e+06
        -1.319e+06 -1.142e+05    0.01    0.0   375.0  -1485.04   5754.01   -605.44  -1288.14 -1.142e+05  8.387e+05
52   30  1.854e+05  6.533e+05   -0.03    0.0     0.0  -5238.92   -996.96   5013.87   5513.11 -1.227e+06  1.854e+05
        -1.884e+05 -1.227e+06   -1.97    0.0   375.0  -3832.67   -996.96   5013.87   5513.11  6.533e+05 -1.884e+05
52   31  8.350e+04  1.227e+06    0.02    0.0     0.0 -1.781e+04    817.54  -4994.06  -5712.07  1.227e+06 -2.231e+05
        -2.231e+05 -6.461e+05    1.95    0.0   375.0 -1.640e+04    817.54  -4994.06  -5712.07 -6.461e+05  8.350e+04
52   32  2.168e+06  1.249e+05    1.61    0.0     0.0 -2.370e+04  -7815.61   1013.73    859.77 -2.552e+05  2.168e+06
        -7.629e+05 -2.552e+05   -0.03    0.0   375.0 -2.229e+04  -7815.61   1013.73    859.77  1.249e+05 -7.629e+05
52   33  8.133e+05  1.696e+05   -1.62    0.0     0.0   -212.59   7950.25   -856.46   -813.61  1.696e+05 -2.168e+06
        -2.168e+06 -1.516e+05    0.02    0.0   375.0   1193.66   7950.25   -856.46   -813.61 -1.516e+05  8.133e+05
52   34  1.854e+05  6.533e+05   -0.03    0.0     0.0  -5238.92   -996.96   5013.87   5513.11 -1.227e+06  1.854e+05
        -1.884e+05 -1.227e+06   -1.97    0.0   375.0  -3832.67   -996.96   5013.87   5513.11  6.533e+05 -1.884e+05
52   35  8.350e+04  1.227e+06    0.02    0.0     0.0 -1.781e+04    817.54  -4994.06  -5712.07  1.227e+06 -2.231e+05
        -2.231e+05 -6.461e+05    1.95    0.0   375.0 -1.640e+04    817.54  -4994.06  -5712.07 -6.461e+05  8.350e+04
52   36  1.229e+06  8.781e+04    0.86    0.0     0.0 -2.160e+04  -4964.67    770.51    943.09 -2.011e+05  1.229e+06
        -6.323e+05 -2.011e+05   -0.02    0.0   375.0 -2.019e+04  -4964.67    770.51    943.09  8.781e+04 -6.323e+05
52   37  7.044e+05  1.231e+05   -0.88    0.0     0.0  -1733.39   5391.93   -650.19  -1040.27  1.231e+05 -1.318e+06
        -1.318e+06 -1.207e+05    0.02    0.0   375.0   -327.14   5391.93   -650.19  -1040.27 -1.207e+05  7.044e+05
52   38 -3.012e+04 -1.652e+04   -0.01    0.0     0.0 -1.076e+04      2.28     52.50    -79.09 -3.620e+04 -3.097e+04
        -3.097e+04 -3.620e+04    0.01    0.0   375.0  -9354.62      2.28     52.50    -79.09 -1.652e+04 -3.012e+04
52   39 -1.816e+04 -1.867e+04   -0.01    0.0     0.0 -1.174e+04    -98.61     48.38    -94.07 -3.681e+04 -1.816e+04
        -5.514e+04 -3.681e+04    0.01    0.0   375.0 -1.033e+04    -98.61     48.38    -94.07 -1.867e+04 -5.514e+04
52   40 -3.015e+04 -1.690e+04   -0.01    0.0     0.0 -1.095e+04      0.42     51.80    -81.30 -3.633e+04 -3.030e+04
        -3.030e+04 -3.633e+04    0.01    0.0   375.0  -9540.12      0.42     51.80    -81.30 -1.690e+04 -3.015e+04
52   41 -1.999e+04 -1.836e+04   -0.01    0.0     0.0 -1.160e+04    -84.20     48.97    -91.93 -3.673e+04 -1.999e+04
        -5.157e+04 -3.673e+04    0.01    0.0   375.0 -1.019e+04    -84.20     48.97    -91.93 -1.836e+04 -5.157e+04
52   42 -1.932e+04 -1.875e+04   -0.01    0.0     0.0 -1.178e+04    -86.06     48.27    -94.15 -3.685e+04 -1.932e+04
        -5.160e+04 -3.685e+04    0.01    0.0   375.0 -1.038e+04    -86.06     48.27    -94.15 -1.875e+04 -5.160e+04
52   43 -3.012e+04 -1.652e+04   -0.01    0.0     0.0 -1.076e+04      2.28     52.50    -79.09 -3.620e+04 -3.097e+04
        -3.097e+04 -3.620e+04    0.01    0.0   375.0  -9354.62      2.28     52.50    -79.09 -1.652e+04 -3.012e+04
52   44 -1.999e+04 -1.836e+04   -0.01    0.0     0.0 -1.160e+04    -84.20     48.97    -91.93 -3.673e+04 -1.999e+04
        -5.157e+04 -3.673e+04    0.01    0.0   375.0 -1.019e+04    -84.20     48.97    -91.93 -1.836e+04 -5.157e+04
52   45 -3.012e+04 -1.652e+04   -0.01    0.0     0.0 -1.076e+04      2.28     52.50    -79.09 -3.620e+04 -3.097e+04
        -3.097e+04 -3.620e+04    0.01    0.0   375.0  -9354.62      2.28     52.50    -79.09 -1.652e+04 -3.012e+04
52   46 -1.999e+04 -1.836e+04   -0.01    0.0     0.0 -1.160e+04    -84.20     48.97    -91.93 -3.673e+04 -1.999e+04
        -5.157e+04 -3.673e+04    0.01    0.0   375.0 -1.019e+04    -84.20     48.97    -91.93 -1.836e+04 -5.157e+04
53    1  8.535e+04  8.282e+04  -6.61e-03  0.0     0.0  -6542.91   -468.96   -446.89    -39.17  8.282e+04  8.535e+04
        -9.145e+04 -8.566e+04  6.80e-03   0.0   377.0  -5072.61   -468.96   -446.89    -39.17 -8.566e+04 -9.145e+04
53    2  9.449e+04  8.588e+04  -7.53e-03  0.0     0.0  -7170.96   -541.25   -463.72    -45.08  8.588e+04  9.449e+04
        -1.096e+05 -8.895e+04  7.13e-03   0.0   377.0  -5700.66   -541.25   -463.72    -45.08 -8.895e+04 -1.096e+05
53    3  1.128e+05  9.192e+04   -0.01    0.0     0.0  -6648.04   -579.17   -495.89    -45.08  9.192e+04  1.128e+05
        -1.055e+05 -9.503e+04  7.64e-03   0.0   377.0  -5177.74   -579.17   -495.89    -45.08 -9.503e+04 -1.055e+05
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53	4	1.220e+05	9.497e+04	-0.01	0.0	0.0	-7276.09	-651.46	-512.72	-50.98	9.497e+04	1.220e+05
		-1.236e+05	-9.832e+04	7.97e-03	0.0	377.0	-5805.79	-651.46	-512.72	-50.98	-9.832e+04	-1.236e+05
53	5	5.861e+04	6.137e+04	-4.10e-03	0.0	0.0	-5006.05	-332.48	-331.20	-28.62	6.137e+04	5.861e+04
		-6.674e+04	-6.349e+04	5.01e-03	0.0	377.0	-3875.05	-332.48	-331.20	-28.62	-6.349e+04	-6.674e+04
53	6	6.775e+04	6.443e+04	-5.01e-03	0.0	0.0	-5634.10	-404.77	-348.03	-34.53	6.443e+04	6.775e+04
		-8.485e+04	-6.677e+04	5.34e-03	0.0	377.0	-4503.10	-404.77	-348.03	-34.53	-6.677e+04	-8.485e+04
53	7	8.609e+04	7.047e+04	-7.95e-03	0.0	0.0	-5111.18	-442.69	-380.20	-34.52	7.047e+04	8.609e+04
		-8.080e+04	-7.286e+04	5.86e-03	0.0	377.0	-3980.18	-442.69	-380.20	-34.52	-7.286e+04	-8.080e+04
53	8	9.524e+04	7.353e+04	-8.86e-03	0.0	0.0	-5739.23	-514.98	-397.03	-40.43	7.353e+04	9.524e+04
		-9.891e+04	-7.615e+04	6.19e-03	0.0	377.0	-4608.23	-514.98	-397.03	-40.43	-7.615e+04	-9.891e+04
53	9	1.036e+05	8.894e+04	-8.44e-03	0.0	0.0	-7799.01	-613.55	-480.55	-50.99	8.894e+04	1.036e+05
		-1.277e+05	-9.223e+04	7.46e-03	0.0	377.0	-6328.71	-613.55	-480.55	-50.99	-9.223e+04	-1.277e+05
53	10	1.046e+05	8.919e+04	-9.30e-03	0.0	0.0	-6616.50	-546.11	-481.19	-43.30	8.919e+04	1.046e+05
		-1.013e+05	-9.222e+04	7.39e-03	0.0	377.0	-5146.20	-546.11	-481.19	-43.30	-9.222e+04	-1.013e+05
53	11	1.229e+05	9.530e+04	-0.01	0.0	0.0	-7872.60	-690.69	-514.85	-55.12	9.530e+04	1.229e+05
		-1.375e+05	-9.879e+04	8.05e-03	0.0	377.0	-6402.30	-690.69	-514.85	-55.12	-9.879e+04	-1.375e+05
53	12	7.690e+04	6.749e+04	-5.93e-03	0.0	0.0	-6262.15	-477.07	-364.86	-40.43	6.749e+04	7.690e+04
		-1.030e+05	-7.006e+04	5.67e-03	0.0	377.0	-5131.15	-477.07	-364.86	-40.43	-7.006e+04	-1.030e+05
53	13	7.785e+04	6.774e+04	-6.79e-03	0.0	0.0	-5079.64	-409.63	-365.50	-32.75	6.774e+04	7.785e+04
		-7.658e+04	-7.005e+04	5.61e-03	0.0	377.0	-3948.64	-409.63	-365.50	-32.75	-7.005e+04	-7.658e+04
53	14	9.614e+04	7.386e+04	-8.62e-03	0.0	0.0	-6335.74	-554.21	-399.16	-44.57	7.386e+04	9.614e+04
		-1.128e+05	-7.662e+04	6.26e-03	0.0	377.0	-5204.74	-554.21	-399.16	-44.57	-7.662e+04	-1.128e+05
53	15	6.471e+04	6.340e+04	-4.95e-03	0.0	0.0	-5029.41	-356.97	-342.09	-29.93	6.340e+04	6.471e+04
		-6.986e+04	-6.557e+04	5.20e-03	0.0	377.0	-3898.41	-356.97	-342.09	-29.93	-6.557e+04	-6.986e+04
53	16	7.081e+04	6.543e+04	-5.56e-03	0.0	0.0	-5448.11	-405.17	-353.31	-33.87	6.543e+04	7.081e+04
		-8.194e+04	-6.776e+04	5.42e-03	0.0	377.0	-4317.11	-405.17	-353.31	-33.87	-6.776e+04	-8.194e+04
53	17	8.304e+04	6.946e+04	-7.52e-03	0.0	0.0	-5099.50	-430.44	-374.75	-33.87	6.946e+04	8.304e+04
		-7.924e+04	-7.182e+04	5.77e-03	0.0	377.0	-3968.50	-430.44	-374.75	-33.87	-7.182e+04	-7.924e+04
53	18	8.913e+04	7.150e+04	-8.13e-03	0.0	0.0	-5518.20	-478.64	-385.97	-37.80	7.150e+04	8.913e+04
		-9.131e+04	-7.401e+04	5.98e-03	0.0	377.0	-4387.20	-478.64	-385.97	-37.80	-7.401e+04	-9.131e+04
53	19	7.691e+04	6.747e+04	-6.18e-03	0.0	0.0	-5866.82	-453.36	-364.53	-37.81	6.747e+04	7.691e+04
		-9.401e+04	-6.995e+04	5.64e-03	0.0	377.0	-4735.82	-453.36	-364.53	-37.81	-6.995e+04	-9.401e+04
53	20	7.754e+04	6.764e+04	-6.75e-03	0.0	0.0	-5078.47	-408.40	-364.95	-32.69	6.764e+04	7.754e+04
		-7.643e+04	-6.995e+04	5.60e-03	0.0	377.0	-3947.47	-408.40	-364.95	-32.69	-6.995e+04	-7.643e+04
53	21	8.973e+04	7.172e+04	-7.97e-03	0.0	0.0	-5915.88	-504.79	-387.39	-40.56	7.172e+04	8.973e+04
		-1.006e+05	-7.433e+04	6.03e-03	0.0	377.0	-4784.88	-504.79	-387.39	-40.56	-7.433e+04	-1.006e+05
53	22	1.357e+05	1.054e+06	-0.02	0.0	0.0	-2325.42	-777.62	3710.81	2419.30	-3.448e+05	1.357e+05
		-1.575e+05	-3.448e+05	-2.13	0.0	377.0	-1194.42	-777.62	3710.81	2419.30	1.054e+06	-1.575e+05
53	23	1.552e+04	3.708e+05	9.57e-03	0.0	0.0	-7713.93	-23.48	-3968.51	-2456.02	3.708e+05	1.552e+04
		6671.94	-1.125e+06	2.13	0.0	377.0	-6582.93	-23.48	-3968.51	-2456.02	-1.125e+06	6671.94
53	24	-1.010e+04	1.705e+04	2.04	0.0	0.0	-1.024e+04	-3175.89	-46.53	-444.36	1.705e+04	-1.010e+04
		-1.207e+06	-494.50	-7.86e-03	0.0	377.0	-9110.92	-3175.89	-46.53	-444.36	-494.50	-1.207e+06
53	25	1.145e+06	1.098e+05	-2.00	0.0	0.0	306.52	2943.74	-635.21	400.03	1.098e+05	3.554e+04
		3.554e+04	-1.296e+05	0.02	0.0	377.0	1437.52	2943.74	-635.21	400.03	-1.296e+05	1.145e+06
53	26	1.321e+05	8.372e+05	-0.02	0.0	0.0	-2887.21	-755.15	3245.44	2249.68	-3.864e+05	1.321e+05
		-1.526e+05	-3.864e+05	-1.61	0.0	377.0	-1756.21	-755.15	3245.44	2249.68	8.372e+05	-1.526e+05
53	27	1.897e+04	4.213e+05	8.79e-03	0.0	0.0	-7201.38	-45.23	-3603.96	-2308.05	4.213e+05	1.897e+04
		1918.66	-9.374e+05	1.61	0.0	377.0	-6070.38	-45.23	-3603.96	-2308.05	-9.374e+05	1918.66
53	28	3.928e+05	3.625e+04	0.80	0.0	0.0	-7293.93	-2588.86	-165.10	-81.25	3.625e+04	3.928e+05
		-5.832e+05	-2.599e+05	-5.30e-03	0.0	377.0	-6162.93	-2588.86	-165.10	-81.25	-2.599e+05	-5.832e+05
53	29	4.528e+05	9.700e+04	-0.82	0.0	0.0	-2788.97	2040.26	-553.79	20.44	9.700e+04	-3.163e+05
		-3.163e+05	-1.118e+05	0.01	0.0	377.0	-1657.97	2040.26	-553.79	20.44	-1.118e+05	4.528e+05
53	30	1.257e+05	1.125e+06	-0.03	0.0	0.0	-2070.08	-730.08	4713.05	2940.54	-6.515e+05	1.257e+05
		-1.496e+05	-6.515e+05	-2.08	0.0	377.0	-939.08	-730.08	4713.05	2940.54	1.125e+06	-1.496e+05
53	31	2.607e+04	6.557e+05	0.02	0.0	0.0	-7852.57	-74.83	-4724.68	-2925.08	6.557e+05	2.607e+04
		-2141.75	-1.126e+06	2.08	0.0	377.0	-6721.57	-74.83	-4724.68	-2925.08	-1.126e+06	-2141.75
53	32	4.327e+05	1.999e+04	1.64	0.0	0.0	-9995.53	-4183.66	-63.13	-145.43	1.999e+04	4.327e+05
		-1.145e+06	-3812.20	-6.96e-03	0.0	377.0	-8864.53	-4183.66	-63.13	-145.43	-3812.20	-1.145e+06
53	33	1.029e+06	1.079e+05	-1.63	0.0	0.0	-86.31	3749.96	-624.50	123.05	1.079e+05	-3.850e+05
		-3.850e+05	-1.275e+05	0.02	0.0	377.0	1044.69	3749.96	-624.50	123.05	-1.275e+05	1.029e+06
53	34	1.257e+05	1.125e+06	-0.03	0.0	0.0	-2070.08	-730.08	4713.05	2940.54	-6.515e+05	1.257e+05
		-1.496e+05	-6.515e+05	-2.08	0.0	377.0	-939.08	-730.08	4713.05	2940.54	1.125e+06	-1.496e+05
53	35	2.607e+04	6.557e+05	0.02	0.0	0.0	-7852.57	-74.83	-4724.68	-2925.08	6.557e+05	2.607e+04
		-2141.75	-1.126e+06	2.08	0.0	377.0	-6721.57	-74.83	-4724.68	-2925.08	-1.126e+06	-2141.75
53	36	5.586e+05	3.415e+04	1.01	0.0	0.0	-8348.33	-3575.49	-150.56	101.36	3.415e+04	5.586e+05
		-7.893e+05	-2.261e+05	-5.28e-03	0.0	377.0	-7217.33	-3575.49	-150.56	101.36	-2.261e+05	-7.893e+05
53	37	6.559e+05	9.747e+04	-1.01	0.0	0.0	-1728.12	3048.62	-558.60	-160.37	9.747e+04	-4.935e+05
		-4.935e+05	-1.131e+05	0.01	0.0	377.0	-597.12	3048.62	-558.60	-160.37	-1.131e+05	6.559e+05
53	38	6.471e+04	6.340e+04	-4.95e-03	0.0	0.0	-5029.41	-356.97	-342.09	-29.93	6.340e+04	6.471e+04
		-6.986e+04	-6.557e+04	5.20e-03	0.0	377.0	-3898.41	-356.97	-342.09	-29.93	-6.557e+04	-6.986e+04
53	39	7.754e+04	6.764e+04	-6.75e-03	0.0	0.0	-5078.47	-408.40	-364.95	-32.69	6.764e+04	7.754e+04
		-7.643e+04	-6.995e+04	5.60e-03	0.0	377.0	-3947.47	-408.40	-364.95	-32.69	-6.995e+04	-7.643e+04
53	40	6.715e+04	6.421e+04	-5.20e-03	0.0	0.0	-5196.89	-376.25	-346.58	-31.51	6.421e+04	6.715e+04
		-7.469e+04	-6.645e+04	5.29e-03	0.0	377.0	-4065.89	-376.25	-346.58	-31.51	-6.645e+04	-7.469e+04
53	41	7.571e+04	6.703e+04	-6.49e-03	0.0	0.0	-5071.47	-401.05	-361.69	-32.29	6.703e+04	7.571e+04
		-7.549e+04	-6.932e+04	5.54e-03	0.0	377.0	-3940.47	-401.05	-361.69	-32.29	-6.932e+04	-7.549e+04
53	42	7.815e+04	6.785e+04	-6.74e-03	0.0	0.0	-5238.95	-420.33	-366.17	-33.87	6.785e+04	7.815e+04

		-8.032e+04 -7.020e+04	5.63e-03	0.0	377.0	-4107.95	-420.33	-366.17	-33.87 -7.020e+04	-8.032e+04
53	43	6.471e+04 6.340e+04	-4.95e-03	0.0	0.0	-5029.41	-356.97	-342.09	-29.93 6.340e+04	6.471e+04
		-6.986e+04 -6.557e+04	5.20e-03	0.0	377.0	-3898.41	-356.97	-342.09	-29.93 -6.557e+04	-6.986e+04
53	44	7.571e+04 6.703e+04	-6.49e-03	0.0	0.0	-5071.47	-401.05	-361.69	-32.29 6.703e+04	7.571e+04
		-7.549e+04 -6.932e+04	5.54e-03	0.0	377.0	-3940.47	-401.05	-361.69	-32.29 -6.932e+04	-7.549e+04
53	45	6.471e+04 6.340e+04	-4.95e-03	0.0	0.0	-5029.41	-356.97	-342.09	-29.93 6.340e+04	6.471e+04
		-6.986e+04 -6.557e+04	5.20e-03	0.0	377.0	-3898.41	-356.97	-342.09	-29.93 -6.557e+04	-6.986e+04
53	46	7.571e+04 6.703e+04	-6.49e-03	0.0	0.0	-5071.47	-401.05	-361.69	-32.29 6.703e+04	7.571e+04
		-7.549e+04 -6.932e+04	5.54e-03	0.0	377.0	-3940.47	-401.05	-361.69	-32.29 -6.932e+04	-7.549e+04
54	1	4.110e+04 1.189e+04	-0.01	0.0	0.0	-1.978e+04	188.21	172.27	-24.54 -5.272e+04	-2.948e+04
		-2.948e+04 -5.272e+04	8.24e-03	0.0	375.0	-1.795e+04	188.21	172.27	-24.54 1.189e+04	4.110e+04
54	2	3.678e+04 1.180e+04	-0.01	0.0	0.0	-2.108e+04	165.30	172.64	-25.37 -5.294e+04	-2.521e+04
		-2.521e+04 -5.294e+04	8.31e-03	0.0	375.0	-1.925e+04	165.30	172.64	-25.37 1.180e+04	3.678e+04
54	3	4.416e+04 1.150e+04	-0.02	0.0	0.0	-2.371e+04	179.86	172.97	-36.03 -5.336e+04	-2.329e+04
		-2.329e+04 -5.336e+04	8.52e-03	0.0	375.0	-2.188e+04	179.86	172.97	-36.03 1.150e+04	4.416e+04
54	4	3.984e+04 1.142e+04	-0.02	0.0	0.0	-2.501e+04	156.95	173.34	-36.86 -5.358e+04	-1.902e+04
		-1.902e+04 -5.358e+04	8.59e-03	0.0	375.0	-2.318e+04	156.95	173.34	-36.86 1.142e+04	3.984e+04
54	5	3.083e+04 9241.47	-9.20e-03	0.0	0.0	-1.421e+04	146.92	132.34	-15.93 -4.039e+04	-2.426e+04
		-2.426e+04 -4.039e+04	6.27e-03	0.0	375.0	-1.280e+04	146.92	132.34	-15.93 9241.47	3.083e+04
54	6	2.651e+04 9160.20	-0.01	0.0	0.0	-1.551e+04	124.01	132.71	-16.76 -4.061e+04	-2.000e+04
		-2.000e+04 -4.061e+04	6.34e-03	0.0	375.0	-1.410e+04	124.01	132.71	-16.76 9160.20	2.651e+04
54	7	3.389e+04 8856.80	-0.01	0.0	0.0	-1.813e+04	138.57	133.03	-27.42 -4.103e+04	-1.807e+04
		-1.807e+04 -4.103e+04	6.54e-03	0.0	375.0	-1.673e+04	138.57	133.03	-27.42 8856.80	3.389e+04
54	8	2.957e+04 8775.53	-0.01	0.0	0.0	-1.943e+04	115.66	133.40	-28.25 -4.125e+04	-1.380e+04
		-1.380e+04 -4.125e+04	6.62e-03	0.0	375.0	-1.803e+04	115.66	133.40	-28.25 8775.53	2.957e+04
54	9	3.245e+04 1.172e+04	-0.02	0.0	0.0	-2.238e+04	142.39	173.01	-26.19 -5.316e+04	-2.094e+04
		-2.094e+04 -5.316e+04	8.39e-03	0.0	375.0	-2.055e+04	142.39	173.01	-26.19 1.172e+04	3.245e+04
54	10	4.324e+04 1.162e+04	-0.02	0.0	0.0	-2.253e+04	182.36	172.76	-32.58 -5.317e+04	-2.515e+04
		-2.515e+04 -5.317e+04	8.43e-03	0.0	375.0	-2.070e+04	182.36	172.76	-32.58 1.162e+04	4.324e+04
54	11	3.460e+04 1.145e+04	-0.02	0.0	0.0	-2.513e+04	136.54	173.50	-34.24 -5.361e+04	-1.661e+04
		-1.661e+04 -5.361e+04	8.59e-03	0.0	375.0	-2.330e+04	136.54	173.50	-34.24 1.145e+04	3.460e+04
54	12	2.218e+04 9078.93	-0.01	0.0	0.0	-1.681e+04	101.10	133.08	-17.58 -4.083e+04	-1.573e+04
		-1.573e+04 -4.083e+04	6.42e-03	0.0	375.0	-1.540e+04	101.10	133.08	-17.58 9078.93	2.218e+04
54	13	3.297e+04 8972.20	-0.01	0.0	0.0	-1.696e+04	141.07	132.83	-23.97 -4.084e+04	-1.993e+04
		-1.993e+04 -4.084e+04	6.46e-03	0.0	375.0	-1.555e+04	141.07	132.83	-23.97 8972.20	3.297e+04
54	14	2.433e+04 8809.66	-0.02	0.0	0.0	-1.956e+04	95.25	133.57	-25.63 -4.128e+04	-1.139e+04
		-1.139e+04 -4.128e+04	6.61e-03	0.0	375.0	-1.815e+04	95.25	133.57	-25.63 8809.66	2.433e+04
54	15	3.151e+04 9155.98	-9.95e-03	0.0	0.0	-1.508e+04	145.06	132.50	-18.48 -4.053e+04	-2.289e+04
		-2.289e+04 -4.053e+04	6.33e-03	0.0	375.0	-1.368e+04	145.06	132.50	-18.48 9155.98	3.151e+04
54	16	2.863e+04 9101.80	-0.01	0.0	0.0	-1.595e+04	129.79	132.74	-19.03 -4.068e+04	-2.004e+04
		-2.004e+04 -4.068e+04	6.38e-03	0.0	375.0	-1.454e+04	129.79	132.74	-19.03 9101.80	2.863e+04
54	17	3.355e+04 8899.54	-0.01	0.0	0.0	-1.770e+04	139.50	132.96	-26.14 -4.096e+04	-1.876e+04
		-1.876e+04 -4.096e+04	6.51e-03	0.0	375.0	-1.629e+04	139.50	132.96	-26.14 8899.54	3.355e+04
54	18	3.067e+04 8845.36	-0.01	0.0	0.0	-1.856e+04	124.22	133.20	-26.70 -4.111e+04	-1.591e+04
		-1.591e+04 -4.111e+04	6.56e-03	0.0	375.0	-1.716e+04	124.22	133.20	-26.70 8845.36	3.067e+04
54	19	2.575e+04 9047.62	-0.01	0.0	0.0	-1.682e+04	114.51	132.99	-19.59 -4.082e+04	-1.720e+04
		-1.720e+04 -4.082e+04	6.43e-03	0.0	375.0	-1.541e+04	114.51	132.99	-19.59 9047.62	2.575e+04
54	20	3.294e+04 8976.47	-0.01	0.0	0.0	-1.691e+04	141.17	132.82	-23.85 -4.083e+04	-2.000e+04
		-2.000e+04 -4.083e+04	6.46e-03	0.0	375.0	-1.551e+04	141.17	132.82	-23.85 8976.47	3.294e+04
54	21	2.717e+04 8868.11	-0.01	0.0	0.0	-1.865e+04	110.62	133.31	-24.95 -4.112e+04	-1.431e+04
		-1.431e+04 -4.112e+04	6.56e-03	0.0	375.0	-1.724e+04	110.62	133.31	-24.95 8868.11	2.717e+04
54	22	7.246e+04 5.673e+05	-0.04	0.0	0.0	-1.492e+04	-320.01	4933.99	5473.34 -1.283e+06	7.246e+04
		-4.755e+04 -1.283e+06	-2.91	0.0	375.0	-1.351e+04	-320.01	4933.99	5473.34 5.673e+05	-4.755e+04
54	23	1.139e+05 1.283e+06	0.01	0.0	0.0	-1.838e+04	608.27	-4895.31	-5512.80 1.283e+06	-1.142e+05
		-1.142e+05 -5.530e+05	2.89	0.0	375.0	-1.697e+04	608.27	-4895.31	-5512.80 -5.530e+05	1.139e+05
54	24	2.260e+06 3.259e+04	2.70	0.0	0.0	-1.608e+04	-1.116e+04	353.19	37.29 -9.986e+04	2.260e+06
		-1.927e+04 -9.986e+04	-0.01	0.0	375.0	-1.467e+04	-1.116e+04	353.19	37.29 3.259e+04	-1.927e+04
54	25	1.929e+06 2.264e+04	-2.67	0.0	0.0	-1.664e+04	1.117e+04	-102.26	-38.32 2.264e+04	-2.260e+06
		-2.260e+06 -1.571e+04	3.96e-03	0.0	375.0	-1.523e+04	1.117e+04	-102.26	-38.32 -1.571e+04	1.929e+06
54	26	6.770e+04 4.841e+05	-0.03	0.0	0.0	-1.502e+04	-296.34	4707.93	5440.08 -1.281e+06	6.770e+04
		-4.343e+04 -1.281e+06	-2.07	0.0	375.0	-1.362e+04	-296.34	4707.93	5440.08 4.841e+05	-4.343e+04
54	27	1.100e+05 1.281e+06	0.01	0.0	0.0	-1.828e+04	586.09	-4667.54	-5467.73 1.281e+06	-1.098e+05
		-1.098e+05 -4.692e+05	2.06	0.0	375.0	-1.687e+04	586.09	-4667.54	-5467.73 -4.692e+05	1.100e+05
54	28	1.785e+06 2.670e+04	0.81	0.0	0.0	-1.758e+04	-8450.26	300.80	408.40 -8.610e+04	1.785e+06
		-1.384e+06 -8.610e+04	0.01	0.0	375.0	-1.617e+04	-8450.26	300.80	408.40 2.670e+04	-1.384e+06
54	29	1.500e+06 4884.52	-0.84	0.0	0.0	-1.654e+04	8948.02	-36.32	-436.59 4884.52	-1.855e+06
		-1.855e+06 -8735.09	1.59e-03	0.0	375.0	-1.514e+04	8948.02	-36.32	-436.59 -8735.09	1.500e+06
54	30	8.362e+04 2.708e+05	-0.03	0.0	0.0	-1.490e+04	-380.23	4138.09	5328.59 -1.281e+06	8.362e+04
		-5.897e+04 -1.281e+06	-2.00	0.0	375.0	-1.349e+04	-380.23	4138.09	5328.59 2.708e+05	-5.897e+04
54	31	1.238e+05 1.281e+06	0.01	0.0	0.0	-1.838e+04	660.26	-4103.10	-5400.55 1.281e+06	-1.238e+05
		-1.238e+05 -2.579e+05	1.98	0.0	375.0	-1.697e+04	660.26	-4103.10	-5400.55 -2.579e+05	1.238e+05
54	32	2.258e+06 3.245e+04	1.64	0.0	0.0	-1.648e+04	-9915.57	350.75	-29.05 -9.908e+04	2.258e+06
		-1.461e+04 -9.908e+04	-0.01	0.0	375.0	-1.507e+04	-9915.57	350.75	-29.05 3.245e+04	-1.461e+04
54	33	1.468e+06 2.241e+04	-1.65	0.0	0.0	-1.618e+04	9935.82	-101.64	87.33 2.241e+04	-2.258e+06
		-2.258e+06 -1.571e+04	4.04e-03	0.0	375.0	-1.478e+04	9935.82	-101.64	87.33 -1.571e+04	1.468e+06
54	34	8.362e+04 2.708e+05	-0.03	0.0	0.0	-1.490e+04	-380.23	4138.09	5328.59 -1.281e+06	8.362e+04
		-5.897e+04 -1.281e+06	-2.00	0.0	375.0	-1.349e+04	-380.23	4138.09	5328.59 2.708e+05	-5.897e+04

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54  35 1.238e+05 1.281e+06     0.01    0.0    0.0-1.838e+04    660.26   -4103.10  -5400.55 1.281e+06 -1.238e+05
       -1.238e+05 -2.579e+05     1.98    0.0  375.0-1.697e+04    660.26   -4103.10  -5400.55 -2.579e+05 1.238e+05
54  36 1.844e+06 2.863e+04     0.88    0.0    0.0-1.731e+04  -8451.82    318.34    332.52 -9.074e+04 1.844e+06
       -1.326e+06 -9.074e+04     0.01    0.0  375.0-1.590e+04  -8451.82    318.34    332.52 2.863e+04 -1.326e+06
54  37 1.438e+06    9022.10    -0.89    0.0    0.0-1.643e+04   8885.02    -51.74   -347.77    9022.10 -1.894e+06
       -1.894e+06 -1.038e+04  1.82e-03   0.0  375.0-1.502e+04   8885.02    -51.74   -347.77 -1.038e+04 1.438e+06
54  38 3.151e+04    9155.98  -9.95e-03   0.0    0.0-1.508e+04    145.06    132.50    -18.48 -4.053e+04 -2.289e+04
       -2.289e+04 -4.053e+04  6.33e-03   0.0  375.0-1.368e+04    145.06    132.50    -18.48    9155.98 3.151e+04
54  39 3.294e+04    8976.47    -0.01    0.0    0.0-1.691e+04    141.17    132.82    -23.85 -4.083e+04 -2.000e+04
       -2.000e+04 -4.083e+04  6.46e-03   0.0  375.0-1.551e+04    141.17    132.82    -23.85    8976.47 3.294e+04
54  40 3.036e+04    9134.31    -0.01    0.0    0.0-1.543e+04    138.95    132.59    -18.70 -4.059e+04 -2.175e+04
       -2.175e+04 -4.059e+04  6.35e-03   0.0  375.0-1.402e+04    138.95    132.59    -18.70    9134.31 3.036e+04
54  41 3.273e+04    9002.12    -0.01    0.0    0.0-1.665e+04    141.72    132.77    -23.08 -4.079e+04 -2.041e+04
       -2.041e+04 -4.079e+04  6.44e-03   0.0  375.0-1.525e+04    141.72    132.77    -23.08    9002.12 3.273e+04
54  42 3.158e+04    8980.44    -0.01    0.0    0.0-1.700e+04    135.61    132.87    -23.30 -4.085e+04 -1.927e+04
       -1.927e+04 -4.085e+04  6.46e-03   0.0  375.0-1.559e+04    135.61    132.87    -23.30    8980.44 3.158e+04
54  43 3.151e+04    9155.98  -9.95e-03   0.0    0.0-1.508e+04    145.06    132.50    -18.48 -4.053e+04 -2.289e+04
       -2.289e+04 -4.053e+04  6.33e-03   0.0  375.0-1.368e+04    145.06    132.50    -18.48    9155.98 3.151e+04
54  44 3.273e+04    9002.12    -0.01    0.0    0.0-1.665e+04    141.72    132.77    -23.08 -4.079e+04 -2.041e+04
       -2.041e+04 -4.079e+04  6.44e-03   0.0  375.0-1.525e+04    141.72    132.77    -23.08    9002.12 3.273e+04
54  45 3.151e+04    9155.98  -9.95e-03   0.0    0.0-1.508e+04    145.06    132.50    -18.48 -4.053e+04 -2.289e+04
       -2.289e+04 -4.053e+04  6.33e-03   0.0  375.0-1.368e+04    145.06    132.50    -18.48    9155.98 3.151e+04
54  46 3.273e+04    9002.12    -0.01    0.0    0.0-1.665e+04    141.72    132.77    -23.08 -4.079e+04 -2.041e+04
       -2.041e+04 -4.079e+04  6.44e-03   0.0  375.0-1.525e+04    141.72    132.77    -23.08    9002.12 3.273e+04
55   1 2.294e+04 2.427e+04  -6.71e-03   0.0    0.0   -9002.73    108.02   -113.80    -49.72 2.427e+04 -1.778e+04
       -1.778e+04 -1.863e+04  -3.08e-03   0.0  377.0   -7532.43    108.02   -113.80    -49.72 -1.863e+04 2.294e+04
55   2 2.333e+04 2.480e+04  -7.62e-03   0.0    0.0-1.034e+04    103.92   -117.00    -55.57 2.480e+04 -1.585e+04
       -1.585e+04 -1.931e+04  -3.07e-03   0.0  377.0   -8869.07    103.92   -117.00    -55.57 -1.931e+04 2.333e+04
55   3 1.922e+04 2.577e+04    -0.01    0.0    0.0   -8965.05    102.87   -122.75    -55.55 2.577e+04 -1.956e+04
       -1.956e+04 -2.051e+04  -3.09e-03   0.0  377.0   -7494.75    102.87   -122.75    -55.55 -2.051e+04 1.922e+04
55   4 1.960e+04 2.630e+04    -0.01    0.0    0.0-1.030e+04     98.77   -125.95    -61.40 2.630e+04 -1.764e+04
       -1.764e+04 -2.119e+04  -3.08e-03   0.0  377.0   -8831.39     98.77   -125.95    -61.40 -2.119e+04 1.960e+04
55   5 1.860e+04 1.829e+04  -4.42e-03   0.0    0.0   -6934.84     84.41    -85.24    -36.75 1.829e+04 -1.322e+04
       -1.322e+04 -1.385e+04  -2.36e-03   0.0  377.0   -5803.84     84.41    -85.24    -36.75 -1.385e+04 1.860e+04
55   6 1.899e+04 1.881e+04  -5.33e-03   0.0    0.0   -8271.48     80.31    -88.44    -42.61 1.881e+04 -1.129e+04
       -1.129e+04 -1.453e+04  -2.36e-03   0.0  377.0   -7140.48     80.31    -88.44    -42.61 -1.453e+04 1.899e+04
55   7 1.488e+04 1.979e+04  -7.73e-03   0.0    0.0   -6897.16     79.26    -94.19    -42.58 1.979e+04 -1.500e+04
       -1.500e+04 -1.573e+04  -2.38e-03   0.0  377.0   -5766.16     79.26    -94.19    -42.58 -1.573e+04 1.488e+04
55   8 1.526e+04 2.031e+04  -8.60e-03   0.0    0.0   -8233.80     75.16    -97.40    -48.43 2.031e+04 -1.308e+04
       -1.308e+04 -1.641e+04  -2.37e-03   0.0  377.0   -7102.80     75.16    -97.40    -48.43 -1.641e+04 1.526e+04
55   9 2.371e+04 2.532e+04  -8.53e-03   0.0    0.0-1.168e+04     99.81   -120.21    -61.43 2.532e+04 -1.392e+04
       -1.392e+04 -1.999e+04  -3.06e-03   0.0  377.0-1.021e+04     99.81   -120.21    -61.43 -1.999e+04 2.371e+04
55  10 2.034e+04 2.532e+04  -9.02e-03   0.0    0.0   -8976.36    104.41   -120.06    -53.80 2.532e+04 -1.903e+04
       -1.903e+04 -1.994e+04  -3.09e-03   0.0  377.0   -7506.06    104.41   -120.06    -53.80 -1.994e+04 2.034e+04
55  11 2.110e+04 2.637e+04    -0.01    0.0    0.0-1.165e+04     96.21   -126.47    -65.51 2.637e+04 -1.517e+04
       -1.517e+04 -2.131e+04  -3.07e-03   0.0  377.0-1.018e+04     96.21   -126.47    -65.51 -2.131e+04 2.110e+04
55  12 1.937e+04 1.934e+04  -6.24e-03   0.0    0.0   -9608.11     76.21    -91.65    -48.46 1.934e+04    -9363.22
          -9363.22 -1.521e+04  -2.35e-03   0.0  377.0   -8477.11     76.21    -91.65    -48.46 -1.521e+04 1.937e+04
55  13 1.600e+04 1.934e+04  -6.59e-03   0.0    0.0   -6908.47     80.81    -91.51    -40.83 1.934e+04 -1.447e+04
       -1.447e+04 -1.516e+04  -2.37e-03   0.0  377.0   -5777.47     80.81    -91.51    -40.83 -1.516e+04 1.600e+04
55  14 1.676e+04 2.039e+04  -8.38e-03   0.0    0.0   -9581.73     72.60    -97.92    -52.54 2.039e+04 -1.061e+04
       -1.061e+04 -1.653e+04  -2.36e-03   0.0  377.0   -8450.73     72.60    -97.92    -52.54 -1.653e+04 1.676e+04
55  15 1.778e+04 1.862e+04  -5.06e-03   0.0    0.0   -6926.47     83.27    -87.23    -38.05 1.862e+04 -1.361e+04
       -1.361e+04 -1.427e+04  -2.37e-03   0.0  377.0   -5795.47     83.27    -87.23    -38.05 -1.427e+04 1.778e+04
55  16 1.803e+04 1.897e+04  -5.67e-03   0.0    0.0   -7817.56     80.53    -89.37    -41.95 1.897e+04 -1.233e+04
       -1.233e+04 -1.472e+04  -2.36e-03   0.0  377.0   -6686.56     80.53    -89.37    -41.95 -1.472e+04 1.803e+04
55  17 1.529e+04 1.962e+04  -7.30e-03   0.0    0.0   -6901.35     79.84    -93.20    -41.93 1.962e+04 -1.480e+04
       -1.480e+04 -1.552e+04  -2.38e-03   0.0  377.0   -5770.35     79.84    -93.20    -41.93 -1.552e+04 1.529e+04
55  18 1.555e+04 1.997e+04  -7.88e-03   0.0    0.0   -7792.44     77.10    -95.33    -45.83 1.997e+04 -1.352e+04
       -1.352e+04 -1.597e+04  -2.37e-03   0.0  377.0   -6661.44     77.10    -95.33    -45.83 -1.597e+04 1.555e+04
55  19 1.828e+04 1.932e+04  -6.28e-03   0.0    0.0   -8708.65     77.80    -91.50    -45.85 1.932e+04 -1.104e+04
       -1.104e+04 -1.518e+04  -2.36e-03   0.0  377.0   -7577.65     77.80    -91.50    -45.85 -1.518e+04 1.828e+04
55  20 1.604e+04 1.932e+04  -6.55e-03   0.0    0.0   -6908.88     80.86    -91.41    -40.77 1.932e+04 -1.445e+04
       -1.445e+04 -1.514e+04  -2.37e-03   0.0  377.0   -5777.88     80.86    -91.41    -40.77 -1.514e+04 1.604e+04
55  21 1.655e+04 2.002e+04  -7.74e-03   0.0    0.0   -8691.06     75.40    -95.68    -48.57 2.002e+04 -1.188e+04
       -1.188e+04 -1.605e+04  -2.36e-03   0.0  377.0   -7560.06     75.40    -95.68    -48.57 -1.605e+04 1.655e+04
55  22 4.594e+04 4.033e+05    -0.02    0.0    0.0   -6339.27   -258.23   -474.58   2386.27 4.033e+05 4.594e+04
       -5.141e+04 2.244e+05    -2.15    0.0  377.0   -5208.27   -258.23   -474.58   2386.27 2.244e+05 -5.141e+04
55  23 8.454e+04 -2.560e+05  9.17e-03   0.0    0.0   -7480.89    423.60    359.42  -2427.71 -3.915e+05 -7.516e+04
       -7.516e+04 -3.915e+05     2.14    0.0  377.0   -6349.89    423.60    359.42  -2427.71 -2.560e+05 8.454e+04
55  24 4.832e+05 2.333e+04     2.04    0.0    0.0   -6445.64  -5470.08    -79.00   -606.59 2.333e+04 4.832e+05
       -1.579e+06    -6456.03  -6.58e-03   0.0  377.0   -5314.64  -5470.08    -79.00   -606.59    -6456.03 -1.579e+06
55  25 1.579e+06 1.299e+04    -2.00    0.0    0.0   -7100.86   5464.46    -92.26    529.27 1.299e+04 -4.811e+05
       -4.811e+05 -2.179e+04  4.68e-03   0.0  377.0   -5969.86   5464.46    -92.26    529.27 -2.179e+04 1.579e+06
55  26 4.245e+04 3.092e+05    -0.02    0.0    0.0   -6378.10   -238.15   -388.66   2218.49 3.092e+05 4.245e+04
       -4.733e+04 1.627e+05    -1.63    0.0  377.0   -5247.10   -238.15   -388.66   2218.49 1.627e+05 -4.733e+04
55  27 8.059e+04 -1.915e+05  8.44e-03   0.0    0.0   -7443.81    404.12    285.65  -2284.45 -2.992e+05 -7.176e+04
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		-7.176e+04 -2.992e+05	1.63	0.0	377.0	-6312.81	404.12	285.65	-2284.45 -1.915e+05	8.059e+04
55	28	6.376e+05 2.357e+04	0.80	0.0	0.0	-7307.80	-3769.80	-89.26	-204.91 2.357e+04	6.376e+05
		-7.836e+05 -1.008e+04	-5.11e-03	0.0	377.0	-6176.80	-3769.80	-89.26	-204.91 -1.008e+04	-7.836e+05
55	29	8.329e+05 1.469e+04	-0.82	0.0	0.0	-6472.98	4050.73	-91.41	125.59 1.469e+04	-6.942e+05
		-6.942e+05 -1.977e+04	2.88e-03	0.0	377.0	-5341.98	4050.73	-91.41	125.59 -1.977e+04	8.329e+05
55	30	3.459e+04 2.531e+05	-0.03	0.0	0.0	-6340.99	-200.12	380.20	2993.35 1.098e+05	3.459e+04
		-4.086e+04 1.098e+05	-2.09	0.0	377.0	-5209.99	-200.12	380.20	2993.35 2.531e+05	-4.086e+04
55	31	7.323e+04 -9.372e+04	0.02	0.0	0.0	-7471.57	361.95	-522.86	-2984.06 -9.372e+04	-6.322e+04
		-6.322e+04 -2.908e+05	2.09	0.0	377.0	-6340.57	361.95	-522.86	-2984.06 -2.908e+05	7.323e+04
55	32	9.473e+05 2.367e+04	1.64	0.0	0.0	-6846.26	-6700.41	-81.13	-484.70 2.367e+04	9.473e+05
		-1.579e+06 -6914.84	-6.33e-03	0.0	377.0	-5715.26	-6700.41	-81.13	-484.70 -6914.84	-1.579e+06
55	33	1.579e+06 1.272e+04	-1.63	0.0	0.0	-6643.59	6680.39	-90.78	459.16 1.272e+04	-9.397e+05
		-9.397e+05 -2.150e+04	4.44e-03	0.0	377.0	-5512.59	6680.39	-90.78	459.16 -2.150e+04	1.579e+06
55	34	3.459e+04 2.531e+05	-0.03	0.0	0.0	-6340.99	-200.12	380.20	2993.35 1.098e+05	3.459e+04
		-4.086e+04 1.098e+05	-2.09	0.0	377.0	-5209.99	-200.12	380.20	2993.35 2.531e+05	-4.086e+04
55	35	7.323e+04 -9.372e+04	0.02	0.0	0.0	-7471.57	361.95	-522.86	-2984.06 -9.372e+04	-6.322e+04
		-6.322e+04 -2.908e+05	2.09	0.0	377.0	-6340.57	361.95	-522.86	-2984.06 -2.908e+05	7.323e+04
55	36	8.812e+05 2.420e+04	1.01	0.0	0.0	-7069.69	-5169.12	-89.92	-186.99 2.420e+04	8.812e+05
		-1.068e+06 -9700.55	-5.37e-03	0.0	377.0	-5938.69	-5169.12	-89.92	-186.99 -9700.55	-1.068e+06
55	37	1.104e+06 1.393e+04	-1.01	0.0	0.0	-6777.11	5399.22	-89.56	100.54 1.393e+04	-9.318e+05
		-9.318e+05 -1.984e+04	2.95e-03	0.0	377.0	-5646.11	5399.22	-89.56	100.54 -1.984e+04	1.104e+06
55	38	1.778e+04 1.862e+04	-5.06e-03	0.0	0.0	-6926.47	83.27	-87.23	-38.05 1.862e+04	-1.361e+04
		-1.361e+04 -1.427e+04	-2.37e-03	0.0	377.0	-5795.47	83.27	-87.23	-38.05 -1.427e+04	1.778e+04
55	39	1.604e+04 1.932e+04	-6.55e-03	0.0	0.0	-6908.88	80.86	-91.41	-40.77 1.932e+04	-1.445e+04
		-1.445e+04 -1.514e+04	-2.37e-03	0.0	377.0	-5777.88	80.86	-91.41	-40.77 -1.514e+04	1.604e+04
55	40	1.788e+04 1.876e+04	-5.31e-03	0.0	0.0	-7282.90	82.17	-88.09	-39.61 1.876e+04	-1.310e+04
		-1.310e+04 -1.445e+04	-2.37e-03	0.0	377.0	-6151.90	82.17	-88.09	-39.61 -1.445e+04	1.788e+04
55	41	1.629e+04 1.922e+04	-6.33e-03	0.0	0.0	-6911.40	81.21	-90.81	-40.38 1.922e+04	-1.433e+04
		-1.433e+04 -1.502e+04	-2.37e-03	0.0	377.0	-5780.40	81.21	-90.81	-40.38 -1.502e+04	1.629e+04
55	42	1.639e+04 1.936e+04	-6.57e-03	0.0	0.0	-7267.83	80.11	-91.67	-41.94 1.936e+04	-1.381e+04
		-1.381e+04 -1.520e+04	-2.37e-03	0.0	377.0	-6136.83	80.11	-91.67	-41.94 -1.520e+04	1.639e+04
55	43	1.778e+04 1.862e+04	-5.06e-03	0.0	0.0	-6926.47	83.27	-87.23	-38.05 1.862e+04	-1.361e+04
		-1.361e+04 -1.427e+04	-2.37e-03	0.0	377.0	-5795.47	83.27	-87.23	-38.05 -1.427e+04	1.778e+04
55	44	1.629e+04 1.922e+04	-6.33e-03	0.0	0.0	-6911.40	81.21	-90.81	-40.38 1.922e+04	-1.433e+04
		-1.433e+04 -1.502e+04	-2.37e-03	0.0	377.0	-5780.40	81.21	-90.81	-40.38 -1.502e+04	1.629e+04
55	45	1.778e+04 1.862e+04	-5.06e-03	0.0	0.0	-6926.47	83.27	-87.23	-38.05 1.862e+04	-1.361e+04
		-1.361e+04 -1.427e+04	-2.37e-03	0.0	377.0	-5795.47	83.27	-87.23	-38.05 -1.427e+04	1.778e+04
55	46	1.629e+04 1.922e+04	-6.33e-03	0.0	0.0	-6911.40	81.21	-90.81	-40.38 1.922e+04	-1.433e+04
		-1.433e+04 -1.502e+04	-2.37e-03	0.0	377.0	-5780.40	81.21	-90.81	-40.38 -1.502e+04	1.629e+04
56	1	1.389e+04 1.112e+04	-0.01	0.0	0.0	-2.376e+04	-220.05	162.03	-10.37 -4.964e+04	1.389e+04
		-6.863e+04 -4.964e+04	7.77e-03	0.0	375.0	-2.193e+04	-220.05	162.03	-10.37 1.112e+04	-6.863e+04
56	2	5150.58 1.098e+04	-0.02	0.0	0.0	-2.541e+04	-173.98	161.60	-13.90 -4.962e+04	5150.58
		-6.009e+04 -4.962e+04	7.81e-03	0.0	375.0	-2.358e+04	-173.98	161.60	-13.90 1.098e+04	-6.009e+04
56	3	1.787e+04 1.053e+04	-0.02	0.0	0.0	-2.863e+04	-313.20	160.44	-14.17 -4.963e+04	1.787e+04
		-9.958e+04 -4.963e+04	7.96e-03	0.0	375.0	-2.680e+04	-313.20	160.44	-14.17 1.053e+04	-9.958e+04
56	4	9132.89 1.038e+04	-0.02	0.0	0.0	-3.028e+04	-267.13	160.01	-17.70 -4.962e+04	9132.89
		-9.104e+04 -4.962e+04	8.00e-03	0.0	375.0	-2.845e+04	-267.13	160.01	-17.70 1.038e+04	-9.104e+04
56	5	9661.31 8709.00	-9.50e-03	0.0	0.0	-1.703e+04	-145.39	125.05	-7.00 -3.818e+04	9661.31
		-4.486e+04 -3.818e+04	5.93e-03	0.0	375.0	-1.562e+04	-145.39	125.05	-7.00 8709.00	-4.486e+04
56	6	924.75 8561.03	-0.01	0.0	0.0	-1.868e+04	-99.32	124.61	-10.53 -3.817e+04	924.75
		-3.632e+04 -3.817e+04	5.97e-03	0.0	375.0	-1.727e+04	-99.32	124.61	-10.53 8561.03	-3.632e+04
56	7	1.364e+04 8117.34	-0.01	0.0	0.0	-2.190e+04	-238.53	123.46	-10.80 -3.818e+04	1.364e+04
		-7.581e+04 -3.818e+04	6.12e-03	0.0	375.0	-2.049e+04	-238.53	123.46	-10.80 8117.34	-7.581e+04
56	8	4907.06 7969.36	-0.02	0.0	0.0	-2.355e+04	-192.46	123.02	-14.33 -3.816e+04	4907.06
		-6.727e+04 -3.816e+04	6.16e-03	0.0	375.0	-2.214e+04	-192.46	123.02	-14.33 7969.36	-6.727e+04
56	9	-3585.98 1.083e+04	-0.02	0.0	0.0	-2.706e+04	-127.91	161.16	-17.43 -4.961e+04	-3585.98
		-5.155e+04 -4.961e+04	7.85e-03	0.0	375.0	-2.523e+04	-127.91	161.16	-17.43 1.083e+04	-5.155e+04
56	10	1.667e+04 1.071e+04	-0.02	0.0	0.0	-2.717e+04	-285.26	160.92	-13.03 -4.963e+04	1.667e+04
		-9.030e+04 -4.963e+04	7.91e-03	0.0	375.0	-2.534e+04	-285.26	160.92	-13.03 1.071e+04	-9.030e+04
56	11	-798.36 1.041e+04	-0.02	0.0	0.0	-3.047e+04	-193.11	160.05	-20.09 -4.960e+04	-798.36
		-7.322e+04 -4.960e+04	7.99e-03	0.0	375.0	-2.864e+04	-193.11	160.05	-20.09 1.041e+04	-7.322e+04
56	12	-7811.81 8413.05	-0.01	0.0	0.0	-2.033e+04	-53.25	124.18	-14.06 -3.815e+04	-7811.81
		-2.778e+04 -3.815e+04	6.01e-03	0.0	375.0	-1.892e+04	-53.25	124.18	-14.06 8413.05	-2.778e+04
56	13	1.245e+04 8294.84	-0.01	0.0	0.0	-2.044e+04	-210.59	123.93	-9.66 -3.818e+04	1.245e+04
		-6.652e+04 -3.818e+04	6.06e-03	0.0	375.0	-1.903e+04	-210.59	123.93	-9.66 8294.84	-6.652e+04
56	14	-5024.19 7998.89	-0.02	0.0	0.0	-2.374e+04	-118.45	123.07	-16.72 -3.815e+04	-5024.19
		-4.944e+04 -3.815e+04	6.14e-03	0.0	375.0	-2.233e+04	-118.45	123.07	-16.72 7998.89	-4.944e+04
56	15	1.055e+04 8577.52	-0.01	0.0	0.0	-1.811e+04	-166.09	124.69	-7.85 -3.818e+04	1.055e+04
		-5.174e+04 -3.818e+04	5.97e-03	0.0	375.0	-1.670e+04	-166.09	124.69	-7.85 8577.52	-5.174e+04
56	16	4721.89 8478.87	-0.01	0.0	0.0	-1.921e+04	-135.37	124.40	-10.20 -3.817e+04	4721.89
		-4.604e+04 -3.817e+04	6.00e-03	0.0	375.0	-1.780e+04	-135.37	124.40	-10.20 8478.87	-4.604e+04
56	17	1.320e+04 8183.08	-0.01	0.0	0.0	-2.136e+04	-228.18	123.63	-10.38 -3.818e+04	1.320e+04
		-7.237e+04 -3.818e+04	6.10e-03	0.0	375.0	-1.995e+04	-228.18	123.63	-10.38 8183.08	-7.237e+04
56	18	7376.77 8084.43	-0.01	0.0	0.0	-2.246e+04	-197.47	123.34	-12.73 -3.817e+04	7376.77
		-6.667e+04 -3.817e+04	6.13e-03	0.0	375.0	-2.105e+04	-197.47	123.34	-12.73 8084.43	-6.667e+04
56	19	-1102.48 8380.22	-0.01	0.0	0.0	-2.031e+04	-104.66	124.12	-12.55 -3.816e+04	-1102.48
		-4.035e+04 -3.816e+04	6.02e-03	0.0	375.0	-1.890e+04	-104.66	124.12	-12.55 8380.22	-4.035e+04

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56    20 1.240e+04   8301.41      -0.01        0.0    0.0-2.038e+04   -209.56      123.95     -9.62-3.818e+04 1.240e+04
         -6.618e+04-3.818e+04   6.06e-03       0.0  375.0-1.898e+04   -209.56      123.95     -9.62   8301.41-6.618e+04
56    21    755.94   8104.11      -0.02        0.0    0.0-2.258e+04   -148.13      123.37    -14.32-3.816e+04    755.94
         -5.479e+04-3.816e+04   6.12e-03       0.0  375.0-2.118e+04   -148.13      123.37    -14.32   8104.11-5.479e+04
56    22 8.614e+04 5.748e+05      -0.04        0.0    0.0-1.851e+04    644.81     5050.55   3210.76-1.319e+06-1.557e+05
         -1.557e+05-1.319e+06      -2.92       0.0  375.0-1.710e+04    644.81     5050.55   3210.76 5.748e+05 8.614e+04
56    23 1.768e+05 1.319e+06       0.02        0.0    0.0-2.159e+04  -1036.19    -5014.53  -3246.42 1.319e+06 1.768e+05
         -2.118e+05-5.615e+05       2.91       0.0  375.0-2.019e+04  -1036.19    -5014.53  -3246.42-5.615e+05-2.118e+05
56    24 2.314e+06   6643.24       2.72        0.0    0.0-1.724e+04-1.134e+04     -45.31     40.48   6643.24 2.314e+06
         -1.939e+06-1.035e+04   2.38e-03       0.0  375.0-1.583e+04-1.134e+04     -45.31     40.48-1.035e+04-1.939e+06
56    25 1.940e+06 2.491e+04      -2.68        0.0    0.0-2.253e+04 1.134e+04     270.51    -60.21-7.653e+04-2.314e+06
         -2.314e+06-7.653e+04      -0.01       0.0  375.0-2.113e+04 1.134e+04     270.51    -60.21 2.491e+04 1.940e+06
56    26 7.751e+04 4.894e+05      -0.04        0.0    0.0-1.859e+04    595.77     4818.26   2841.93-1.317e+06-1.459e+05
         -1.459e+05-1.317e+06      -2.09       0.0  375.0-1.719e+04    595.77     4818.26   2841.93 4.894e+05 7.751e+04
56    27 1.676e+05 1.317e+06       0.02        0.0    0.0-2.151e+04   -989.80    -4779.96  -2898.22 1.317e+06 1.676e+05
         -2.036e+05-4.752e+05       2.08       0.0  375.0-2.011e+04   -989.80    -4779.96  -2898.22-4.752e+05-2.036e+05
56    28 1.970e+06  -3887.93       0.82        0.0    0.0-1.697e+04  -9293.58      14.85     422.56  -9456.69 1.970e+06
         -1.515e+06  -9456.69   2.78e-03       0.0  375.0-1.557e+04  -9293.58      14.85     422.56  -3887.93-1.515e+06
56    29 1.364e+06 2.056e+04      -0.85        0.0    0.0-2.254e+04  8866.82     232.54    -450.59-6.664e+04-1.961e+06
         -1.961e+06-6.664e+04   9.22e-03       0.0  375.0-2.113e+04  8866.82     232.54    -450.59 2.056e+04 1.364e+06
56    30 7.875e+04 2.775e+05      -0.04        0.0    0.0-1.849e+04    608.06     4252.05   2718.77-1.317e+06-1.493e+05
         -1.493e+05-1.317e+06      -2.01       0.0  375.0-1.708e+04    608.06     4252.05   2718.77 2.775e+05 7.875e+04
56    31 1.688e+05 1.317e+06       0.02        0.0    0.0-2.160e+04   -991.48    -4218.53  -2727.80 1.317e+06 1.688e+05
         -2.030e+05-2.651e+05       2.00       0.0  375.0-2.019e+04   -991.48    -4218.53  -2727.80-2.651e+05-2.030e+05
56    32 2.312e+06   6073.17       1.65        0.0    0.0-1.672e+04-1.009e+04     -43.10    -28.57   6073.17 2.312e+06
         -1.472e+06-1.009e+04   2.33e-03       0.0  375.0-1.532e+04-1.009e+04     -43.10    -28.57-1.009e+04-1.472e+06
56    33 1.479e+06 2.451e+04      -1.66        0.0    0.0-2.259e+04 1.011e+04     266.27     58.60-7.534e+04-2.312e+06
         -2.312e+06-7.534e+04      -0.01       0.0  375.0-2.119e+04 1.011e+04     266.27     58.60 2.451e+04 1.479e+06
56    34 7.875e+04 2.775e+05      -0.04        0.0    0.0-1.849e+04    608.06     4252.05   2718.77-1.317e+06-1.493e+05
         -1.493e+05-1.317e+06      -2.01       0.0  375.0-1.708e+04    608.06     4252.05   2718.77 2.775e+05 7.875e+04
56    35 1.688e+05 1.317e+06       0.02        0.0    0.0-2.160e+04   -991.48    -4218.53  -2727.80 1.317e+06 1.688e+05
         -2.030e+05-2.651e+05       2.00       0.0  375.0-2.019e+04   -991.48    -4218.53  -2727.80-2.651e+05-2.030e+05
56    36 2.037e+06  -5090.25       0.88        0.0    0.0-1.678e+04  -9301.61       4.23     350.44  -6677.67 2.037e+06
         -1.451e+06  -6677.67   2.54e-03       0.0  375.0-1.537e+04  -9301.61       4.23     350.44  -5090.25-1.451e+06
56    37 1.286e+06 2.136e+04      -0.90        0.0    0.0-2.276e+04  8758.81     239.13    -370.42-6.831e+04-1.999e+06
         -1.999e+06-6.831e+04   9.38e-03       0.0  375.0-2.135e+04  8758.81     239.13    -370.42 2.136e+04 1.286e+06
56    38 1.055e+04   8577.52      -0.01        0.0    0.0-1.811e+04   -166.09      124.69     -7.85-3.818e+04 1.055e+04
         -5.174e+04-3.818e+04   5.97e-03       0.0  375.0-1.670e+04   -166.09      124.69     -7.85   8577.52-5.174e+04
56    39 1.240e+04   8301.41      -0.01        0.0    0.0-2.038e+04   -209.56      123.95     -9.62-3.818e+04 1.240e+04
         -6.618e+04-3.818e+04   6.06e-03       0.0  375.0-1.898e+04   -209.56      123.95     -9.62   8301.41-6.618e+04
56    40   8216.52   8538.06      -0.01        0.0    0.0-1.855e+04   -153.80      124.58     -8.79-3.818e+04   8216.52
         -4.946e+04-3.818e+04   5.98e-03       0.0  375.0-1.714e+04   -153.80      124.58     -8.79   8538.06-4.946e+04
56    41 1.214e+04   8340.86      -0.01        0.0    0.0-2.006e+04   -203.35      124.06     -9.37-3.818e+04 1.214e+04
         -6.412e+04-3.818e+04   6.05e-03       0.0  375.0-1.865e+04   -203.35      124.06     -9.37   8340.86-6.412e+04
56    42   9809.44   8301.40      -0.01        0.0    0.0-2.050e+04   -191.06      123.94    -10.31-3.818e+04   9809.44
         -6.184e+04-3.818e+04   6.06e-03       0.0  375.0-1.909e+04   -191.06      123.94    -10.31   8301.40-6.184e+04
56    43 1.055e+04   8577.52      -0.01        0.0    0.0-1.811e+04   -166.09      124.69     -7.85-3.818e+04 1.055e+04
         -5.174e+04-3.818e+04   5.97e-03       0.0  375.0-1.670e+04   -166.09      124.69     -7.85   8577.52-5.174e+04
56    44 1.214e+04   8340.86      -0.01        0.0    0.0-2.006e+04   -203.35      124.06     -9.37-3.818e+04 1.214e+04
         -6.412e+04-3.818e+04   6.05e-03       0.0  375.0-1.865e+04   -203.35      124.06     -9.37   8340.86-6.412e+04
56    45 1.055e+04   8577.52      -0.01        0.0    0.0-1.811e+04   -166.09      124.69     -7.85-3.818e+04 1.055e+04
         -5.174e+04-3.818e+04   5.97e-03       0.0  375.0-1.670e+04   -166.09      124.69     -7.85   8577.52-5.174e+04
56    46 1.214e+04   8340.86      -0.01        0.0    0.0-2.006e+04   -203.35      124.06     -9.37-3.818e+04 1.214e+04
         -6.412e+04-3.818e+04   6.05e-03       0.0  375.0-1.865e+04   -203.35      124.06     -9.37   8340.86-6.412e+04
57     1 8.698e+04 2.269e+04   -6.07e-03       0.0    0.0-1.096e+04   -486.51     -105.09     11.92 2.269e+04 8.698e+04
         -9.643e+04-1.693e+04  -2.94e-03       0.0  377.0  -9490.28   -486.51     -105.09     11.92-1.693e+04-9.643e+04
57     2 9.164e+04 2.315e+04   -6.90e-03       0.0    0.0-1.267e+04   -528.54     -108.04     13.95 2.315e+04 9.164e+04
         -1.076e+05-1.758e+04  -2.92e-03       0.0  377.0-1.120e+04   -528.54     -108.04     13.95-1.758e+04-1.076e+05
57     3 1.039e+05 2.399e+04   -9.93e-03       0.0    0.0-1.087e+04   -539.78     -113.24     15.08 2.399e+04 1.039e+05
         -9.957e+04-1.870e+04  -2.92e-03       0.0  377.0  -9402.59   -539.78     -113.24     15.08-1.870e+04-9.957e+04
57     4 1.086e+05 2.446e+04      -0.01        0.0    0.0-1.258e+04   -581.82     -116.20     17.11 2.446e+04 1.086e+05
         -1.108e+05-1.935e+04  -2.90e-03       0.0  377.0-1.111e+04   -581.82     -116.20     17.11-1.935e+04-1.108e+05
57     5 6.256e+04 1.712e+04   -3.68e-03       0.0    0.0  -8453.70   -360.57      -78.75      8.36 1.712e+04 6.256e+04
         -7.337e+04-1.257e+04  -2.27e-03       0.0  377.0  -7322.70   -360.57      -78.75      8.36-1.257e+04-7.337e+04
57     6 6.722e+04 1.758e+04   -4.51e-03       0.0    0.0-1.016e+04   -402.61      -81.70     10.39 1.758e+04 6.722e+04
         -8.456e+04-1.322e+04  -2.24e-03       0.0  377.0  -9031.36   -402.61      -81.70     10.39-1.322e+04-8.456e+04
57     7 7.951e+04 1.842e+04   -7.54e-03       0.0    0.0  -8366.01   -413.85      -86.90     11.52 1.842e+04 7.951e+04
         -7.651e+04-1.434e+04  -2.25e-03       0.0  377.0  -7235.01   -413.85      -86.90     11.52-1.434e+04-7.651e+04
57     8 8.417e+04 1.889e+04   -8.37e-03       0.0    0.0-1.007e+04   -455.89      -89.86     13.55 1.889e+04 8.417e+04
         -8.770e+04-1.499e+04  -2.22e-03       0.0  377.0  -8943.67   -455.89      -89.86     13.55-1.499e+04-8.770e+04
57     9 9.630e+04 2.361e+04   -7.74e-03       0.0    0.0-1.438e+04   -570.58     -111.00     15.98 2.361e+04 9.630e+04
         -1.188e+05-1.823e+04  -2.89e-03       0.0  377.0-1.291e+04   -570.58     -111.00     15.98-1.823e+04-1.188e+05
57    10 9.884e+04 2.360e+04   -8.77e-03       0.0    0.0-1.090e+04   -523.80     -110.80     14.13 2.360e+04 9.884e+04
         -9.863e+04-1.817e+04  -2.93e-03       0.0  377.0  -9428.90   -523.80     -110.80     14.13-1.817e+04-9.863e+04
57    11 1.082e+05 2.453e+04      -0.01        0.0    0.0-1.432e+04   -607.87     -116.71     18.19 2.453e+04 1.082e+05
         -1.210e+05-1.947e+04  -2.88e-03       0.0  377.0-1.285e+04   -607.87     -116.71     18.19-1.947e+04-1.210e+05
57    12 7.189e+04 1.804e+04   -5.35e-03       0.0    0.0-1.187e+04   -444.64      -84.66     12.42 1.804e+04 7.189e+04
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		-9.574e+04	-1.387e+04	-2.22e-03	0.0	377.0	-1.074e+04	-444.64	-84.66	12.42	-1.387e+04	-9.574e+04
57	13	7.443e+04	1.803e+04	-6.38e-03	0.0	0.0	-8392.32	-397.87	-84.45	10.57	1.803e+04	7.443e+04
		-7.557e+04	-1.381e+04	-2.25e-03	0.0	377.0	-7261.32	-397.87	-84.45	10.57	-1.381e+04	-7.557e+04
57	14	8.375e+04	1.896e+04	-8.05e-03	0.0	0.0	-1.181e+04	-481.94	-90.37	14.63	1.896e+04	8.375e+04
		-9.794e+04	-1.511e+04	-2.21e-03	0.0	377.0	-1.068e+04	-481.94	-90.37	14.63	-1.511e+04	-9.794e+04
57	15	6.633e+04	1.741e+04	-4.54e-03	0.0	0.0	-8434.22	-372.41	-80.56	9.06	1.741e+04	6.633e+04
		-7.407e+04	-1.296e+04	-2.26e-03	0.0	377.0	-7303.22	-372.41	-80.56	9.06	-1.296e+04	-7.407e+04
57	16	6.944e+04	1.772e+04	-5.09e-03	0.0	0.0	-9573.32	-400.44	-82.53	10.42	1.772e+04	6.944e+04
		-8.153e+04	-1.340e+04	-2.25e-03	0.0	377.0	-8442.32	-400.44	-82.53	10.42	-1.340e+04	-8.153e+04
57	17	7.763e+04	1.828e+04	-7.11e-03	0.0	0.0	-8375.76	-407.93	-86.00	11.17	1.828e+04	7.763e+04
		-7.616e+04	-1.414e+04	-2.25e-03	0.0	377.0	-7244.76	-407.93	-86.00	11.17	-1.414e+04	-7.616e+04
57	18	8.073e+04	1.859e+04	-7.66e-03	0.0	0.0	-9514.86	-435.96	-87.97	12.52	1.859e+04	8.073e+04
		-8.362e+04	-1.458e+04	-2.23e-03	0.0	377.0	-8383.86	-435.96	-87.97	12.52	-1.458e+04	-8.362e+04
57	19	7.254e+04	1.803e+04	-5.65e-03	0.0	0.0	-1.071e+04	-428.46	-84.50	11.77	1.803e+04	7.254e+04
		-8.899e+04	-1.383e+04	-2.23e-03	0.0	377.0	-9581.43	-428.46	-84.50	11.77	-1.383e+04	-8.899e+04
57	20	7.424e+04	1.802e+04	-6.34e-03	0.0	0.0	-8393.29	-397.28	-84.36	10.54	1.802e+04	7.424e+04
		-7.554e+04	-1.379e+04	-2.25e-03	0.0	377.0	-7262.29	-397.28	-84.36	10.54	-1.379e+04	-7.554e+04
57	21	8.045e+04	1.863e+04	-7.45e-03	0.0	0.0	-1.067e+04	-453.32	-88.31	13.24	1.863e+04	8.045e+04
		-9.045e+04	-1.466e+04	-2.22e-03	0.0	377.0	-9540.51	-453.32	-88.31	13.24	-1.466e+04	-9.045e+04
57	22	3.049e+04	4.337e+05	-0.02	0.0	0.0	-7872.62	-135.89	-637.33	309.96	4.337e+05	3.049e+04
		-2.074e+04	1.935e+05	-2.15	0.0	377.0	-6741.62	-135.89	-637.33	309.96	1.935e+05	-2.074e+04
57	23	1.145e+05	-2.240e+05	0.01	0.0	0.0	-8920.32	-644.32	525.50	-307.86	-4.221e+05	1.145e+05
		-1.284e+05	-4.221e+05	2.15	0.0	377.0	-7789.32	-644.32	525.50	-307.86	-2.240e+05	-1.284e+05
57	24	4.710e+05	1.390e+04	2.04	0.0	0.0	-8173.65	-5491.73	-83.71	-557.96	1.390e+04	4.710e+05
		-1.599e+06	-1.766e+04	2.74e-03	0.0	377.0	-7042.65	-5491.73	-83.71	-557.96	-1.766e+04	-1.599e+06
57	25	1.599e+06	1.996e+04	-2.00	0.0	0.0	-9624.56	5484.85	-75.82	569.28	1.996e+04	-4.687e+05
		-4.687e+05	-8623.66	-4.52e-03	0.0	377.0	-8493.56	5484.85	-75.82	569.28	-8623.66	1.599e+06
57	26	3.288e+04	3.376e+05	-0.02	0.0	0.0	-7902.16	-150.83	-527.19	326.63	3.376e+05	3.288e+04
		-2.399e+04	1.388e+05	-1.63	0.0	377.0	-6771.16	-150.83	-527.19	326.63	1.388e+05	-2.399e+04
57	27	1.123e+05	-1.660e+05	0.01	0.0	0.0	-8892.92	-630.68	430.47	-306.66	-3.283e+05	1.123e+05
		-1.254e+05	-3.283e+05	1.63	0.0	377.0	-7761.92	-630.68	430.47	-306.66	-1.660e+05	-1.254e+05
57	28	7.178e+05	1.599e+04	0.80	0.0	0.0	-7791.21	-4339.98	-87.21	-156.07	1.599e+04	7.178e+05
		-9.183e+05	-1.689e+04	1.69e-03	0.0	377.0	-6660.21	-4339.98	-87.21	-156.07	-1.689e+04	-9.183e+05
57	29	7.719e+05	1.973e+04	-0.82	0.0	0.0	-9181.77	3526.79	-79.69	177.58	1.973e+04	-5.577e+05
		-5.577e+05	-1.031e+04	-3.67e-03	0.0	377.0	-8050.77	3526.79	-79.69	177.58	-1.031e+04	7.719e+05
57	30	1.720e+04	2.211e+05	-0.03	0.0	0.0	-7862.64	-66.45	218.80	915.78	1.386e+05	1.720e+04
		-7850.71	1.386e+05	-2.10	0.0	377.0	-6731.64	-66.45	218.80	915.78	2.211e+05	-7850.71
57	31	1.271e+05	-1.237e+05	0.02	0.0	0.0	-8923.30	-709.82	-352.28	-938.74	-1.237e+05	1.271e+05
		-1.405e+05	-2.565e+05	2.10	0.0	377.0	-7792.30	-709.82	-352.28	-938.74	-2.565e+05	-1.405e+05
57	32	9.356e+05	1.386e+04	1.64	0.0	0.0	-7655.68	-6723.19	-83.03	-439.49	1.386e+04	9.356e+05
		-1.599e+06	-1.745e+04	2.66e-03	0.0	377.0	-6524.68	-6723.19	-83.03	-439.49	-1.745e+04	-1.599e+06
57	33	1.599e+06	1.976e+04	-1.63	0.0	0.0	-9688.11	6702.67	-75.22	513.38	1.976e+04	-9.280e+05
		-9.280e+05	-8594.44	-4.43e-03	0.0	377.0	-8557.11	6702.67	-75.22	513.38	-8594.44	1.599e+06
57	34	1.720e+04	2.211e+05	-0.03	0.0	0.0	-7862.64	-66.45	218.80	915.78	1.386e+05	1.720e+04
		-7850.71	1.386e+05	-2.10	0.0	377.0	-6731.64	-66.45	218.80	915.78	2.211e+05	-7850.71
57	35	1.271e+05	-1.237e+05	0.02	0.0	0.0	-8923.30	-709.82	-352.28	-938.74	-1.237e+05	1.271e+05
		-1.405e+05	-2.565e+05	2.10	0.0	377.0	-7792.30	-709.82	-352.28	-938.74	-2.565e+05	-1.405e+05
57	36	9.556e+05	1.578e+04	1.01	0.0	0.0	-7785.05	-5724.21	-87.38	-146.92	1.578e+04	9.556e+05
		-1.202e+06	-1.717e+04	1.84e-03	0.0	377.0	-6654.05	-5724.21	-87.38	-146.92	-1.717e+04	-1.202e+06
57	37	1.037e+06	1.979e+04	-1.01	0.0	0.0	-9198.04	4830.41	-79.19	161.28	1.979e+04	-7.839e+05
		-7.839e+05	-1.006e+04	-3.76e-03	0.0	377.0	-8067.04	4830.41	-79.19	161.28	-1.006e+04	1.037e+06
57	38	6.633e+04	1.741e+04	-4.54e-03	0.0	0.0	-8434.22	-372.41	-80.56	9.06	1.741e+04	6.633e+04
		-7.407e+04	-1.296e+04	-2.26e-03	0.0	377.0	-7303.22	-372.41	-80.56	9.06	-1.296e+04	-7.407e+04
57	39	7.424e+04	1.802e+04	-6.34e-03	0.0	0.0	-8393.29	-397.28	-84.36	10.54	1.802e+04	7.424e+04
		-7.554e+04	-1.379e+04	-2.25e-03	0.0	377.0	-7262.29	-397.28	-84.36	10.54	-1.379e+04	-7.554e+04
57	40	6.757e+04	1.753e+04	-4.76e-03	0.0	0.0	-8889.86	-383.62	-81.35	9.61	1.753e+04	6.757e+04
		-7.705e+04	-1.314e+04	-2.26e-03	0.0	377.0	-7758.86	-383.62	-81.35	9.61	-1.314e+04	-7.705e+04
57	41	7.311e+04	1.793e+04	-6.08e-03	0.0	0.0	-8399.14	-393.73	-83.82	10.33	1.793e+04	7.311e+04
		-7.533e+04	-1.367e+04	-2.25e-03	0.0	377.0	-7268.14	-393.73	-83.82	10.33	-1.367e+04	-7.533e+04
57	42	7.435e+04	1.805e+04	-6.30e-03	0.0	0.0	-8854.78	-404.94	-84.61	10.87	1.805e+04	7.435e+04
		-7.831e+04	-1.385e+04	-2.25e-03	0.0	377.0	-7723.78	-404.94	-84.61	10.87	-1.385e+04	-7.831e+04
57	43	6.633e+04	1.741e+04	-4.54e-03	0.0	0.0	-8434.22	-372.41	-80.56	9.06	1.741e+04	6.633e+04
		-7.407e+04	-1.296e+04	-2.26e-03	0.0	377.0	-7303.22	-372.41	-80.56	9.06	-1.296e+04	-7.407e+04
57	44	7.311e+04	1.793e+04	-6.08e-03	0.0	0.0	-8399.14	-393.73	-83.82	10.33	1.793e+04	7.311e+04
		-7.533e+04	-1.367e+04	-2.25e-03	0.0	377.0	-7268.14	-393.73	-83.82	10.33	-1.367e+04	-7.533e+04
57	45	6.633e+04	1.741e+04	-4.54e-03	0.0	0.0	-8434.22	-372.41	-80.56	9.06	1.741e+04	6.633e+04
		-7.407e+04	-1.296e+04	-2.26e-03	0.0	377.0	-7303.22	-372.41	-80.56	9.06	-1.296e+04	-7.407e+04
57	46	7.311e+04	1.793e+04	-6.08e-03	0.0	0.0	-8399.14	-393.73	-83.82	10.33	1.793e+04	7.311e+04
		-7.533e+04	-1.367e+04	-2.25e-03	0.0	377.0	-7268.14	-393.73	-83.82	10.33	-1.367e+04	-7.533e+04
58	1	1.177e+05	-2.679e+04	-0.02	0.0	0.0	-1.685e+04	187.19	49.69	-27.47	-4.542e+04	4.749e+04
		4.749e+04	-4.542e+04	0.01	0.0	375.0	-1.502e+04	187.19	49.69	-27.47	-2.679e+04	1.177e+05
58	2	1.165e+05	-2.848e+04	-0.02	0.0	0.0	-1.775e+04	192.10	46.69	-39.28	-4.599e+04	4.450e+04
		4.450e+04	-4.599e+04	0.01	0.0	375.0	-1.592e+04	192.10	46.69	-39.28	-2.848e+04	1.165e+05
58	3	2.129e+05	-3.238e+04	-0.03	0.0	0.0	-1.961e+04	535.61	38.37	-16.62	-4.677e+04	1.209e+05
		1.209e+04	-4.677e+04	0.02	0.0	375.0	-1.778e+04	535.61	38.37	-16.62	-3.238e+04	2.129e+05
58	4	2.118e+05	-3.407e+04	-0.03	0.0	0.0	-2.051e+04	540.53	35.37	-28.43	-4.733e+04	9101.14
		9101.14	-4.733e+04	0.02	0.0	375.0	-1.868e+04	540.53	35.37	-28.43	-3.407e+04	2.118e+05

58	5	6.610e+04	-1.917e+04	-0.01	0.0	0.0	-1.225e+04	54.65	41.12	-23.91	-3.460e+04	4.560e+04
		4.560e+04	-3.460e+04	0.01	0.0	375.0	-1.085e+04	54.65	41.12	-23.91	-1.917e+04	6.610e+04
58	6	6.495e+04	-2.086e+04	-0.01	0.0	0.0	-1.316e+04	59.57	38.13	-35.73	-3.516e+04	4.262e+04
		4.262e+04	-3.516e+04	0.01	0.0	375.0	-1.175e+04	59.57	38.13	-35.73	-2.086e+04	6.495e+04
58	7	1.614e+05	-2.477e+04	-0.02	0.0	0.0	-1.501e+04	403.08	29.81	-13.06	-3.594e+04	1.021e+04
		1.021e+04	-3.594e+04	0.01	0.0	375.0	-1.361e+04	403.08	29.81	-13.06	-2.477e+04	1.614e+05
58	8	1.602e+05	-2.645e+04	-0.02	0.0	0.0	-1.592e+04	407.99	26.81	-24.88	-3.650e+04	7219.31
		7219.31	-3.650e+04	0.01	0.0	375.0	-1.451e+04	407.99	26.81	-24.88	-2.645e+04	1.602e+05
58	9	1.154e+05	-3.016e+04	-0.02	0.0	0.0	-1.865e+04	197.02	43.69	-51.09	-4.655e+04	4.151e+04
		4.151e+04	-4.655e+04	0.01	0.0	375.0	-1.683e+04	197.02	43.69	-51.09	-3.016e+04	1.154e+05
58	10	1.844e+05	-3.070e+04	-0.02	0.0	0.0	-1.878e+04	431.09	41.76	-19.88	-4.637e+04	2.271e+04
		2.271e+04	-4.637e+04	0.01	0.0	375.0	-1.695e+04	431.09	41.76	-19.88	-3.070e+04	1.844e+05
58	11	1.821e+05	-3.408e+04	-0.03	0.0	0.0	-2.059e+04	440.91	35.77	-43.50	-4.749e+04	1.673e+04
		1.673e+04	-4.749e+04	0.02	0.0	375.0	-1.876e+04	440.91	35.77	-43.50	-3.408e+04	1.821e+05
58	12	6.381e+04	-2.255e+04	-0.01	0.0	0.0	-1.406e+04	64.48	35.13	-47.54	-3.572e+04	3.963e+04
		3.963e+04	-3.572e+04	0.01	0.0	375.0	-1.265e+04	64.48	35.13	-47.54	-2.255e+04	6.381e+04
58	13	1.328e+05	-2.309e+04	-0.02	0.0	0.0	-1.418e+04	298.55	33.20	-16.32	-3.554e+04	2.083e+04
		2.083e+04	-3.554e+04	0.01	0.0	375.0	-1.278e+04	298.55	33.20	-16.32	-2.309e+04	1.328e+05
58	14	1.305e+05	-2.646e+04	-0.02	0.0	0.0	-1.599e+04	308.38	27.20	-39.94	-3.666e+04	1.485e+04
		1.485e+04	-3.666e+04	0.01	0.0	375.0	-1.458e+04	308.38	27.20	-39.94	-2.646e+04	1.305e+05
58	15	8.727e+04	-2.042e+04	-0.01	0.0	0.0	-1.287e+04	132.08	38.61	-21.50	-3.490e+04	3.774e+04
		3.774e+04	-3.490e+04	0.01	0.0	375.0	-1.146e+04	132.08	38.61	-21.50	-2.042e+04	8.727e+04
58	16	8.651e+04	-2.154e+04	-0.01	0.0	0.0	-1.347e+04	135.36	36.61	-29.38	-3.527e+04	3.575e+04
		3.575e+04	-3.527e+04	0.01	0.0	375.0	-1.206e+04	135.36	36.61	-29.38	-2.154e+04	8.651e+04
58	17	1.508e+05	-2.414e+04	-0.02	0.0	0.0	-1.471e+04	364.36	31.06	-14.27	-3.579e+04	1.414e+04
		1.414e+04	-3.579e+04	0.01	0.0	375.0	-1.330e+04	364.36	31.06	-14.27	-2.414e+04	1.508e+05
58	18	1.500e+05	-2.527e+04	-0.02	0.0	0.0	-1.531e+04	367.64	29.06	-22.14	-3.617e+04	1.215e+04
		1.215e+04	-3.617e+04	0.01	0.0	375.0	-1.390e+04	367.64	29.06	-22.14	-2.527e+04	1.500e+05
58	19	8.574e+04	-2.266e+04	-0.02	0.0	0.0	-1.407e+04	138.63	34.61	-37.25	-3.564e+04	3.376e+04
		3.376e+04	-3.564e+04	0.01	0.0	375.0	-1.266e+04	138.63	34.61	-37.25	-2.266e+04	8.574e+04
58	20	1.317e+05	-2.303e+04	-0.02	0.0	0.0	-1.415e+04	294.68	33.33	-16.44	-3.552e+04	2.122e+04
		2.122e+04	-3.552e+04	0.01	0.0	375.0	-1.275e+04	294.68	33.33	-16.44	-2.303e+04	1.317e+05
58	21	1.302e+05	-2.527e+04	-0.02	0.0	0.0	-1.536e+04	301.23	29.33	-32.19	-3.627e+04	1.724e+04
		1.724e+04	-3.627e+04	0.01	0.0	375.0	-1.395e+04	301.23	29.33	-32.19	-2.527e+04	1.302e+05
58	22	3.337e+05	9.912e+05	-0.05	0.0	0.0	-7649.89	1706.15	5988.97	1640.76	-1.255e+06	-3.061e+05
		-3.061e+05	-1.255e+06	-2.93	0.0	375.0	-6243.64	1706.15	5988.97	1640.76	9.912e+05	3.337e+05
58	23	3.498e+05	1.254e+06	0.03	0.0	0.0	-2.015e+04	-1147.86	-5931.63	-1692.08	1.254e+06	3.498e+05
		-8.065e+04	-9.699e+05	2.91	0.0	375.0	-1.875e+04	-1147.86	-5931.63	-1692.08	-9.699e+05	-8.065e+04
58	24	2.213e+06	1.635e+05	2.70	0.0	0.0	-4895.27	-9227.43	-843.30	1341.03	1.635e+05	2.213e+06
		-1.247e+06	-1.527e+05	0.02	0.0	375.0	-3489.02	-9227.43	-843.30	1341.03	-1.527e+05	-1.247e+06
58	25	1.228e+06	1.118e+05	-2.65	0.0	0.0	-2.326e+04	9177.22	936.63	-1410.12	-2.395e+05	-2.213e+06
		-2.213e+06	-2.395e+05	-0.03	0.0	375.0	-2.186e+04	9177.22	936.63	-1410.12	1.118e+05	1.228e+06
58	26	3.224e+05	9.381e+05	-0.05	0.0	0.0	-8165.70	1629.64	5843.29	1234.58	-1.253e+06	-2.887e+05
		-2.887e+05	-1.253e+06	-2.09	0.0	375.0	-6759.45	1629.64	5843.29	1234.58	9.381e+05	3.224e+05
58	27	3.334e+05	1.253e+06	0.03	0.0	0.0	-1.967e+04	-1075.70	-5754.66	-1309.57	1.253e+06	3.334e+05
		-6.996e+04	-9.051e+05	2.08	0.0	375.0	-1.827e+04	-1075.70	-5754.66	-1309.57	-9.051e+05	-6.996e+04
58	28	1.527e+06	1.075e+05	0.81	0.0	0.0	-7689.39	-6155.99	-595.80	1305.49	1.075e+05	1.527e+06
		-7.811e+05	-1.160e+05	0.01	0.0	375.0	-6283.14	-6155.99	-595.80	1305.49	-1.160e+05	-7.811e+05
58	29	8.083e+05	7.111e+04	-0.83	0.0	0.0	-2.030e+04	5943.24	665.22	-1392.14	-1.783e+05	-1.420e+06
		-1.420e+06	-1.783e+05	0.02	0.0	375.0	-1.890e+04	5943.24	665.22	-1392.14	7.111e+04	8.083e+05
58	30	3.273e+05	6.839e+05	-0.05	0.0	0.0	-7527.56	1679.44	5164.33	1195.90	-1.253e+06	-3.025e+05
		-3.025e+05	-1.253e+06	-2.01	0.0	375.0	-6121.31	1679.44	5164.33	1195.90	6.839e+05	3.273e+05
58	31	3.428e+05	1.252e+06	0.03	0.0	0.0	-2.016e+04	-1106.27	-5145.78	-1219.91	1.252e+06	3.428e+05
		-7.210e+04	-6.772e+05	1.99	0.0	375.0	-1.875e+04	-1106.27	-5145.78	-1219.91	-6.772e+05	-7.210e+04
58	32	2.211e+06	1.590e+05	1.64	0.0	0.0	-5248.37	-8097.64	-823.81	959.85	1.590e+05	2.211e+06
		-8.254e+05	-1.499e+05	0.02	0.0	375.0	-3842.12	-8097.64	-823.81	959.85	-1.499e+05	-8.254e+05
58	33	7.694e+05	1.116e+05	-1.63	0.0	0.0	-2.326e+04	7947.54	933.03	-948.23	-2.383e+05	-2.211e+06
		-2.211e+06	-2.383e+05	-0.03	0.0	375.0	-2.185e+04	7947.54	933.03	-948.23	1.116e+05	7.694e+05
58	34	3.273e+05	6.839e+05	-0.05	0.0	0.0	-7527.56	1679.44	5164.33	1195.90	-1.253e+06	-3.025e+05
		-3.025e+05	-1.253e+06	-2.01	0.0	375.0	-6121.31	1679.44	5164.33	1195.90	6.839e+05	3.273e+05
58	35	3.428e+05	1.252e+06	0.03	0.0	0.0	-2.016e+04	-1106.27	-5145.78	-1219.91	1.252e+06	3.428e+05
		-7.210e+04	-6.772e+05	1.99	0.0	375.0	-1.875e+04	-1106.27	-5145.78	-1219.91	-6.772e+05	-7.210e+04
58	36	1.583e+06	1.219e+05	0.88	0.0	0.0	-6569.84	-6147.97	-660.01	1098.96	1.219e+05	1.583e+06
		-7.222e+05	-1.256e+05	0.02	0.0	375.0	-5163.59	-6147.97	-660.01	1098.96	-1.256e+05	-7.222e+05
58	37	6.506e+05	7.866e+04	-0.89	0.0	0.0	-2.135e+04	5524.61	715.39	-1148.80	-1.896e+05	-1.421e+06
		-1.421e+06	-1.896e+05	-0.02	0.0	375.0	-1.994e+04	5524.61	715.39	-1148.80	7.866e+04	6.506e+05
58	38	8.727e+04	-2.042e+04	-0.01	0.0	0.0	-1.287e+04	132.08	38.61	-21.50	-3.490e+04	3.774e+04
		3.774e+04	-3.490e+04	0.01	0.0	375.0	-1.146e+04	132.08	38.61	-21.50	-2.042e+04	8.727e+04
58	39	1.317e+05	-2.303e+04	-0.02	0.0	0.0	-1.415e+04	294.68	33.33	-16.44	-3.552e+04	2.122e+04
		2.122e+04	-3.552e+04	0.01	0.0	375.0	-1.275e+04	294.68	33.33	-16.44	-2.303e+04	1.317e+05
58	40	8.696e+04	-2.087e+04	-0.01	0.0	0.0	-1.311e+04	133.39	37.81	-24.65	-3.505e+04	3.694e+04
		3.694e+04	-3.505e+04	0.01	0.0	375.0	-1.170e+04	133.39	37.81	-24.65	-2.087e+04	8.696e+04
58	41	1.254e+05	-2.265e+04	-0.02	0.0	0.0	-1.397e+04	271.45	34.08	-17.16	-3.543e+04	2.358e+04
		2.358e+04	-3.543e+04	0.01	0.0	375.0	-1.256e+04	271.45	34.08	-17.16	-2.265e+04	1.254e+05
58	42	1.251e+05	-2.310e+04	-0.02	0.0	0.0	-1.421e+04	272.76	33.28	-20.31	-3.558e+04	2.278e+04
		2.278e+04	-3.558e+04	0.01	0.0	375.0	-1.280e+04	272.76	33.28	-20.31	-2.310e+04	1.251e+05
58	43	8.727e+04	-2.042e+04	-0.01	0.0	0.0	-1.287e+04	132.08	38.61	-21.50	-3.490e+04	3.774e+04

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              3.774e+04 -3.490e+04      0.01    0.0   375.0 -1.146e+04     132.08       38.61     -21.50 -2.042e+04 8.727e+04
58   44 1.254e+05 -2.265e+04     -0.02    0.0     0.0 -1.397e+04     271.45       34.08     -17.16 -3.543e+04 2.358e+04
              2.358e+04 -3.543e+04      0.01    0.0   375.0 -1.256e+04     271.45       34.08     -17.16 -2.265e+04 1.254e+05
58   45 8.727e+04 -2.042e+04     -0.01    0.0     0.0 -1.287e+04     132.08       38.61     -21.50 -3.490e+04 3.774e+04
              3.774e+04 -3.490e+04      0.01    0.0   375.0 -1.146e+04     132.08       38.61     -21.50 -2.042e+04 8.727e+04
58   46 1.254e+05 -2.265e+04     -0.02    0.0     0.0 -1.397e+04     271.45       34.08     -17.16 -3.543e+04 2.358e+04
              2.358e+04 -3.543e+04      0.01    0.0   375.0 -1.256e+04     271.45       34.08     -17.16 -2.265e+04 1.254e+05
59    1 1.755e+05 9.055e+04     -0.01    0.0     0.0 -7742.02     879.62     -490.30      52.17 9.055e+04 -1.561e+05
             -1.561e+05 -9.430e+04   7.66e-03    0.0   377.0 -6271.72     879.62     -490.30      52.17 -9.430e+04 1.755e+05
59    2 2.077e+05 9.415e+04     -0.02    0.0     0.0 -8576.39     999.00     -510.20      61.36 9.415e+04 -1.689e+05
             -1.689e+05 -9.820e+04   8.05e-03    0.0   377.0 -7106.09     999.00     -510.20      61.36 -9.820e+04 2.077e+05
59    3 1.951e+05 1.013e+05     -0.01    0.0     0.0 -7855.62    1065.65     -548.54      57.08 1.013e+05 -2.066e+05
             -2.066e+05 -1.055e+05   8.65e-03    0.0   377.0 -6385.32    1065.65     -548.54      57.08 -1.055e+05 1.951e+05
59    4 2.273e+05 1.049e+05     -0.02    0.0     0.0 -8690.00    1185.03     -568.44      66.27 1.049e+05 -2.195e+05
             -2.195e+05 -1.094e+05   9.04e-03    0.0   377.0 -7219.70    1185.03     -568.44      66.27 -1.094e+05 2.273e+05
59    5 1.300e+05 6.688e+04     -0.01    0.0     0.0 -5926.27     628.93     -362.22      38.87 6.688e+04 -1.071e+05
             -1.071e+05 -6.967e+04   5.64e-03    0.0   377.0 -4795.27     628.93     -362.22      38.87 -6.967e+04 1.300e+05
59    6 1.621e+05 7.048e+04     -0.01    0.0     0.0 -6760.64     748.31     -382.12      48.06 7.048e+04 -1.200e+05
             -1.200e+05 -7.357e+04   6.02e-03    0.0   377.0 -5629.64     748.31     -382.12      48.06 -7.357e+04 1.621e+05
59    7 1.496e+05 7.768e+04     -0.01    0.0     0.0 -6039.87     814.96     -420.46      43.78 7.768e+04 -1.576e+05
             -1.576e+05 -8.083e+04   6.63e-03    0.0   377.0 -4908.87     814.96     -420.46      43.78 -8.083e+04 1.496e+05
59    8 1.818e+05 8.128e+04     -0.02    0.0     0.0 -6874.25     934.34     -440.36      52.97 8.128e+04 -1.705e+05
             -1.705e+05 -8.473e+04   7.02e-03    0.0   377.0 -5743.25     934.34     -440.36      52.97 -8.473e+04 1.818e+05
59    9 2.398e+05 9.775e+04     -0.02    0.0     0.0 -9410.77    1118.37     -530.10      70.55 9.775e+04 -1.818e+05
             -1.818e+05 -1.021e+05   8.43e-03    0.0   377.0 -7940.47    1118.37     -530.10      70.55 -1.021e+05 2.398e+05
59   10 1.893e+05 9.811e+04     -0.01    0.0     0.0 -7821.54    1009.84     -531.07      55.61 9.811e+04 -1.915e+05
             -1.915e+05 -1.021e+05   8.36e-03    0.0   377.0 -6351.24    1009.84     -531.07      55.61 -1.021e+05 1.893e+05
59   11 2.536e+05 1.053e+05     -0.02    0.0     0.0 -9490.29    1248.59     -570.87      73.99 1.053e+05 -2.172e+05
             -2.172e+05 -1.099e+05   9.13e-03    0.0   377.0 -8019.99    1248.59     -570.87      73.99 -1.099e+05 2.536e+05
59   12 1.943e+05 7.408e+04     -0.02    0.0     0.0 -7595.02     867.68     -402.02      57.25 7.408e+04 -1.328e+05
             -1.328e+05 -7.748e+04   6.41e-03    0.0   377.0 -6464.02     867.68     -402.02      57.25 -7.748e+04 1.943e+05
59   13 1.437e+05 7.444e+04     -0.01    0.0     0.0 -6005.79     759.15     -402.99      42.31 7.444e+04 -1.425e+05
             -1.425e+05 -7.749e+04   6.33e-03    0.0   377.0 -4874.79     759.15     -402.99      42.31 -7.749e+04 1.437e+05
59   14 2.080e+05 8.164e+04     -0.02    0.0     0.0 -7674.54     997.90     -442.79      60.69 8.164e+04 -1.682e+05
             -1.682e+05 -8.529e+04   7.10e-03    0.0   377.0 -6543.54     997.90     -442.79      60.69 -8.529e+04 2.080e+05
59   15 1.344e+05 6.928e+04     -0.01    0.0     0.0 -5951.51     670.27     -375.16      39.97 6.928e+04 -1.183e+05
             -1.183e+05 -7.215e+04   5.86e-03    0.0   377.0 -4820.51     670.27     -375.16      39.97 -7.215e+04 1.344e+05
59   16 1.558e+05 7.168e+04     -0.01    0.0     0.0 -6507.76     749.85     -388.43      46.09 7.168e+04 -1.269e+05
             -1.269e+05 -7.475e+04   6.12e-03    0.0   377.0 -5376.76     749.85     -388.43      46.09 -7.475e+04 1.558e+05
59   17 1.474e+05 7.648e+04     -0.01    0.0     0.0 -6027.25     794.29     -413.99      43.24 7.648e+04 -1.520e+05
             -1.520e+05 -7.959e+04   6.52e-03    0.0   377.0 -4896.25     794.29     -413.99      43.24 -7.959e+04 1.474e+05
59   18 1.689e+05 7.888e+04     -0.01    0.0     0.0 -6583.50     873.87     -427.26      49.36 7.888e+04 -1.606e+05
             -1.606e+05 -8.219e+04   6.78e-03    0.0   377.0 -5452.50     873.87     -427.26      49.36 -8.219e+04 1.689e+05
59   19 1.772e+05 7.408e+04     -0.02    0.0     0.0 -7064.01     829.44     -401.69      52.22 7.408e+04 -1.355e+05
             -1.355e+05 -7.735e+04   6.37e-03    0.0   377.0 -5933.01     829.44     -401.69      52.22 -7.735e+04 1.772e+05
59   20 1.435e+05 7.432e+04     -0.01    0.0     0.0 -6004.53     757.09     -402.34      42.26 7.432e+04 -1.419e+05
             -1.419e+05 -7.736e+04   6.32e-03    0.0   377.0 -4873.53     757.09     -402.34      42.26 -7.736e+04 1.435e+05
59   21 1.864e+05 7.912e+04     -0.02    0.0     0.0 -7117.03     916.25     -428.87      54.51 7.912e+04 -1.591e+05
             -1.591e+05 -8.256e+04   6.84e-03    0.0   377.0 -5986.03     916.25     -428.87      54.51 -8.256e+04 1.864e+05
59   22 2.222e+05 1.073e+06     -0.03    0.0     0.0 -3158.80    1052.67    3782.30     225.70 -3.526e+05 -1.747e+05
             -1.747e+05 -3.526e+05     -2.15    0.0   377.0 -2027.80    1052.67    3782.30     225.70 1.073e+06 2.222e+05
59   23 6.347e+04 3.756e+05      0.01    0.0     0.0 -8697.73     442.08   -4007.97    -180.40 3.756e+05 -1.032e+05
             -1.032e+05 -1.135e+06      2.15    0.0   377.0 -7566.73     442.08   -4007.97    -180.40 -1.135e+06 6.347e+04
59   24 -4.694e+04 1.172e+05      2.04    0.0     0.0 -1467.52   -2994.58    -673.85    -347.49 1.172e+05 -4.694e+04
             -1.176e+06 -1.369e+05      0.02    0.0   377.0  -336.52   -2994.58    -673.85    -347.49 -1.369e+05 -1.176e+06
59   25 1.207e+06 2.699e+04     -2.00    0.0     0.0 -9952.07    3120.86    -105.72     417.33 2.699e+04 3.086e+04
              3.086e+04 -1.287e+04  -7.09e-03    0.0   377.0 -8821.07    3120.86    -105.72     417.33 -1.287e+04 1.207e+06
59   26 2.177e+05 8.545e+05     -0.03    0.0     0.0 -3698.00    1035.43    3314.62     246.76 -3.951e+05 -1.727e+05
             -1.727e+05 -3.951e+05     -1.63    0.0   377.0 -2567.00    1035.43    3314.62     246.76 8.545e+05 2.177e+05
59   27 6.766e+04 4.331e+05      0.01    0.0     0.0 -8245.79     458.10   -3711.78    -177.43 4.331e+05 -1.050e+05
             -1.050e+05 -9.663e+05      1.63    0.0   377.0 -7114.79     458.10   -3711.78    -177.43 -9.663e+05 6.766e+04
59   28 2.194e+05 1.050e+05      0.80    0.0     0.0 -3980.27   -1722.42    -596.83       3.96 1.050e+05 2.194e+05
             -4.300e+05 -1.200e+05      0.01    0.0   377.0 -2849.27   -1722.42    -596.83       3.96 -1.200e+05 -4.300e+05
59   29 6.894e+05 4.138e+04     -0.82    0.0     0.0 -7933.03    2842.58    -195.75      76.85 4.138e+04 -3.822e+05
             -3.822e+05 -3.241e+04  -5.46e-03    0.0   377.0 -6802.03    2842.58    -195.75      76.85 -3.241e+04 6.894e+05
59   30 2.327e+05 1.135e+06     -0.03    0.0     0.0 -3012.20    1112.00    4766.68     717.37 -6.616e+05 -1.865e+05
             -1.865e+05 -6.616e+05     -2.11    0.0   377.0 -1881.20    1112.00    4766.68     717.37 1.135e+06 2.327e+05
59   31 5.392e+04 6.660e+05      0.01    0.0     0.0 -8741.37     386.98   -4779.02    -700.09 6.660e+05 -9.197e+04
             -9.197e+04 -1.136e+06      2.10    0.0   377.0 -7610.37     386.98   -4779.02    -700.09 -1.136e+06 5.392e+04
59   32 3.739e+05 1.146e+05      1.64    0.0     0.0 -1833.42   -3754.36    -659.38     -34.72 1.146e+05 3.739e+05
             -1.041e+06 -1.340e+05      0.02    0.0   377.0  -702.42   -3754.36    -659.38     -34.72 -1.340e+05 -1.041e+06
59   33 1.206e+06 2.807e+04     -1.63    0.0     0.0 -9947.55    4333.92    -111.48     132.34 2.807e+04 -4.278e+05
             -4.278e+05 -1.396e+05  -6.76e-03    0.0   377.0 -8816.55    4333.92    -111.48     132.34 -1.396e+05 1.206e+06
59   34 2.327e+05 1.135e+06     -0.03    0.0     0.0 -3012.20    1112.00    4766.68     717.37 -6.616e+05 -1.865e+05
             -1.865e+05 -6.616e+05     -2.11    0.0   377.0 -1881.20    1112.00    4766.68     717.37 1.135e+06 2.327e+05
59   35 5.392e+04 6.660e+05      0.01    0.0     0.0 -8741.37     386.98   -4779.02    -700.09 6.660e+05 -9.197e+04
             -9.197e+04 -1.136e+06      2.10    0.0   377.0 -7610.37     386.98   -4779.02    -700.09 -1.136e+06 5.392e+04
```

		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
59	36	4.299e+05	1.073e+05	1.01	0.0	0.0	-3169.99	-2849.29	-611.95	188.13	1.073e+05	4.299e+05
		-6.443e+05	-1.234e+05	0.01	0.0	377.0	-2038.99	-2849.29	-611.95	188.13	-1.234e+05	-6.443e+05
59	37	8.785e+05	3.991e+04	-1.01	0.0	0.0	-8668.49	3762.15	-185.38	-105.77	3.991e+04	-5.399e+05
		-5.399e+05	-2.998e+04	-5.40e-03	0.0	377.0	-7537.49	3762.15	-185.38	-105.77	-2.998e+04	8.785e+05
59	38	1.344e+05	6.928e+04	-0.01	0.0	0.0	-5951.51	670.27	-375.16	39.97	6.928e+04	-1.183e+05
		-1.183e+05	-7.215e+04	5.86e-03	0.0	377.0	-4820.51	670.27	-375.16	39.97	-7.215e+04	1.344e+05
59	39	1.435e+05	7.432e+04	-0.01	0.0	0.0	-6004.53	757.09	-402.34	42.26	7.432e+04	-1.419e+05
		-1.419e+05	-7.736e+04	6.32e-03	0.0	377.0	-4873.53	757.09	-402.34	42.26	-7.736e+04	1.435e+05
59	40	1.429e+05	7.024e+04	-0.01	0.0	0.0	-6174.01	702.11	-380.47	42.42	7.024e+04	-1.218e+05
		-1.218e+05	-7.319e+04	5.96e-03	0.0	377.0	-5043.01	702.11	-380.47	42.42	-7.319e+04	1.429e+05
59	41	1.422e+05	7.360e+04	-0.01	0.0	0.0	-5996.95	744.68	-398.46	41.93	7.360e+04	-1.386e+05
		-1.386e+05	-7.662e+04	6.26e-03	0.0	377.0	-4865.95	744.68	-398.46	41.93	-7.662e+04	1.422e+05
59	42	1.508e+05	7.456e+04	-0.01	0.0	0.0	-6219.45	776.52	-403.76	44.38	7.456e+04	-1.420e+05
		-1.420e+05	-7.766e+04	6.36e-03	0.0	377.0	-5088.45	776.52	-403.76	44.38	-7.766e+04	1.508e+05
59	43	1.344e+05	6.928e+04	-0.01	0.0	0.0	-5951.51	670.27	-375.16	39.97	6.928e+04	-1.183e+05
		-1.183e+05	-7.215e+04	5.86e-03	0.0	377.0	-4820.51	670.27	-375.16	39.97	-7.215e+04	1.344e+05
59	44	1.422e+05	7.360e+04	-0.01	0.0	0.0	-5996.95	744.68	-398.46	41.93	7.360e+04	-1.386e+05
		-1.386e+05	-7.662e+04	6.26e-03	0.0	377.0	-4865.95	744.68	-398.46	41.93	-7.662e+04	1.422e+05
59	45	1.344e+05	6.928e+04	-0.01	0.0	0.0	-5951.51	670.27	-375.16	39.97	6.928e+04	-1.183e+05
		-1.183e+05	-7.215e+04	5.86e-03	0.0	377.0	-4820.51	670.27	-375.16	39.97	-7.215e+04	1.344e+05
59	46	1.422e+05	7.360e+04	-0.01	0.0	0.0	-5996.95	744.68	-398.46	41.93	7.360e+04	-1.386e+05
		-1.386e+05	-7.662e+04	6.26e-03	0.0	377.0	-4865.95	744.68	-398.46	41.93	-7.662e+04	1.422e+05

Pilas.	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-2.472e+06	-1.455e+06	-2.94	0.0	-5.193e+04	-1.186e+04	-7158.45	-5712.07
	2.472e+06	1.456e+06	2.94	0.0	1645.60	1.187e+04	7157.16	5718.71

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
10	1	1.592e+05	37.28	-0.02	-8700.66	0.0	215.91	3848.46	0.02	-1.253e+04	29.98	-1.195e+05
		-2.838e+05	29.98	-3.49e-05	0.0	327.5	215.91	-4852.20	0.02	-1.253e+04	37.28	-2.838e+05
10	2	1.569e+05	37.56	-0.02	-8700.66	0.0	246.28	3896.14	-9.96e-03	-1.316e+04	37.56	-1.286e+05
		-2.773e+05	34.30	-2.98e-05	0.0	327.5	246.28	-4804.52	-9.96e-03	-1.316e+04	34.30	-2.773e+05
10	3	2.312e+05	47.06	-0.03	-1.270e+04	0.0	163.89	5760.27	0.04	-1.446e+04	34.74	-1.962e+05
		-3.888e+05	34.74	-6.28e-05	0.0	327.5	163.89	-6936.45	0.04	-1.446e+04	47.06	-3.888e+05
10	4	2.289e+05	44.09	-0.03	-1.270e+04	0.0	194.26	5807.95	5.37e-03	-1.509e+04	42.33	-2.054e+05
		-3.823e+05	42.33	-5.61e-05	0.0	327.5	194.26	-6888.76	5.37e-03	-1.509e+04	44.09	-3.823e+05
10	5	1.040e+05	26.17	-0.01	-5668.19	0.0	179.42	2470.14	0.01	-9147.44	21.84	-7.222e+04
		-1.914e+05	21.84	-2.04e-05	0.0	327.5	179.42	-3198.04	0.01	-9147.44	26.17	-1.914e+05
10	6	1.018e+05	29.42	-0.01	-5668.19	0.0	209.79	2517.83	-0.02	-9772.77	29.42	-8.134e+04
		-1.849e+05	23.19	-1.61e-05	0.0	327.5	209.79	-3150.36	-0.02	-9772.77	23.19	-1.849e+05
10	7	1.760e+05	35.95	-0.02	-9664.24	0.0	127.40	4381.96	0.03	-1.107e+04	26.60	-1.490e+05
		-2.964e+05	26.60	-4.75e-05	0.0	327.5	127.40	-5282.28	0.03	-1.107e+04	35.95	-2.964e+05
10	8	1.737e+05	34.19	-0.02	-9664.24	0.0	157.77	4429.64	-3.71e-03	-1.170e+04	34.19	-1.581e+05
		-2.899e+05	32.97	-4.10e-05	0.0	327.5	157.77	-5234.60	-3.71e-03	-1.170e+04	32.97	-2.899e+05
10	9	1.547e+05	45.15	-0.02	-8700.66	0.0	276.65	3943.82	-0.04	-1.378e+04	45.15	-1.377e+05
		-2.709e+05	31.33	-2.53e-05	0.0	327.5	276.65	-4756.84	-0.04	-1.378e+04	31.33	-2.709e+05
10	10	2.096e+05	44.13	-0.02	-1.150e+04	0.0	179.50	5186.73	0.03	-1.388e+04	33.31	-1.732e+05
		-3.573e+05	33.31	-5.41e-05	0.0	327.5	179.50	-6311.17	0.03	-1.388e+04	44.13	-3.573e+05
10	11	2.050e+05	48.48	-0.03	-1.150e+04	0.0	240.24	5282.09	-0.03	-1.513e+04	48.48	-1.915e+05
		-3.444e+05	38.17	-4.21e-05	0.0	327.5	240.24	-6215.81	-0.03	-1.513e+04	38.17	-3.444e+05
10	12	9.946e+04	37.01	-0.01	-5668.19	0.0	240.16	2565.51	-0.05	-1.040e+04	37.01	-9.047e+04
		-1.784e+05	20.21	-1.28e-05	0.0	327.5	240.16	-3102.68	-0.05	-1.040e+04	20.21	-1.784e+05
10	13	1.544e+05	33.02	-0.02	-8465.43	0.0	143.01	3808.41	0.02	-1.050e+04	25.17	-1.260e+05
		-2.649e+05	25.17	-3.89e-05	0.0	327.5	143.01	-4657.01	0.02	-1.050e+04	33.02	-2.649e+05
10	14	1.498e+05	40.34	-0.02	-8465.43	0.0	203.75	3903.77	-0.04	-1.175e+04	40.34	-1.442e+05
		-2.519e+05	27.06	-2.77e-05	0.0	327.5	203.75	-4561.65	-0.04	-1.175e+04	27.06	-2.519e+05
10	15	1.200e+05	28.34	-0.01	-6556.20	0.0	167.86	2894.99	0.02	-9575.75	22.90	-8.928e+04
		-2.147e+05	22.90	-2.60e-05	0.0	327.5	167.86	-3661.21	0.02	-9575.75	28.34	-2.147e+05
10	16	1.185e+05	27.95	-0.01	-6556.20	0.0	188.11	2926.78	-4.88e-03	-9992.64	27.95	-9.536e+04
		-2.104e+05	26.36	-2.26e-05	0.0	327.5	188.11	-3629.42	-4.88e-03	-9992.64	26.36	-2.104e+05
10	17	1.680e+05	34.86	-0.02	-9220.24	0.0	133.18	4169.53	0.03	-1.086e+04	26.07	-1.405e+05
		-2.847e+05	26.07	-4.43e-05	0.0	327.5	133.18	-5050.70	0.03	-1.086e+04	34.86	-2.847e+05
10	18	1.664e+05	32.88	-0.02	-9220.24	0.0	153.43	4201.32	5.34e-03	-1.128e+04	31.13	-1.465e+05
		-2.804e+05	31.13	-4.00e-05	0.0	327.5	153.43	-5018.92	5.34e-03	-1.128e+04	32.88	-2.804e+05
10	19	1.170e+05	33.01	-0.01	-6556.20	0.0	208.36	2958.57	-0.03	-1.041e+04	33.01	-1.014e+05
		-2.061e+05	24.37	-1.96e-05	0.0	327.5	208.36	-3597.63	-0.03	-1.041e+04	24.37	-2.061e+05
10	20	1.536e+05	32.91	-0.02	-8421.02	0.0	143.59	3787.17	0.02	-1.048e+04	25.12	-1.251e+05
		-2.637e+05	25.12	-3.86e-05	0.0	327.5	143.59	-4633.85	0.02	-1.048e+04	32.91	-2.637e+05
10	21	1.505e+05	35.23	-0.02	-8421.02	0.0	184.08	3850.75	-0.02	-1.131e+04	35.23	-1.373e+05
		-2.551e+05	28.94	-3.08e-05	0.0	327.5	184.08	-4570.28	-0.02	-1.131e+04	28.94	-2.551e+05
10	22	1.994e+05	-59.20	0.06	-8154.62	0.0	214.21	2518.53	1.12	-1.707e+05	-426.53	7.208e+04
		-4.384e+05	-426.53	-0.01	0.0	327.5	214.21	-5636.09	1.12	-1.707e+05	-59.20	-4.384e+05
10	23	1.500e+05	478.66	-0.07	-8154.62	0.0	110.97	4800.04	-1.16	1.733e+05	478.66	-3.118e+05
		-3.118e+05	99.38	0.01	0.0	327.5	110.97	-3354.58	-1.16	1.733e+05	99.38	-7.508e+04
10	24	1.205e+06	-63.48	0.41	-8154.62	0.0	-932.17	1.144e+04	-1.89	1542.02	-63.48	-1.205e+06

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              -1.205e+06   -683.62   5.03e-03      0.0   327.5   -932.17   3280.93   -1.89    1542.02   -683.62 1.205e+06
10   25 1.205e+06   661.58     -0.41  -8154.62     0.0   1049.45  -3280.65    1.56 -2.135e+04    151.86 1.205e+06
              -1.205e+06    151.86  -4.88e-03      0.0   327.5   1049.45 -1.144e+04    1.56 -2.135e+04    661.58 -1.205e+06
10   26 1.955e+05   250.26      0.06  -8154.62     0.0    237.68   2578.65    2.99 -1.800e+05   -728.31 6.201e+04
              -4.288e+05   -728.31     -0.01      0.0   327.5    237.68  -5575.97    2.99 -1.800e+05    250.26 -4.288e+05
10   27 1.489e+05   844.61     -0.07  -8154.62     0.0     77.13   4736.61   -3.40  1.850e+05    844.61 -3.012e+05
              -3.012e+05   -270.30      0.01      0.0   327.5     77.13  -3418.01   -3.40  1.850e+05   -270.30 -8.523e+04
10   28 8.118e+05   -168.27      0.27  -8154.62     0.0     66.28 1.023e+04   -0.49   -2374.25   -168.27 -1.203e+06
              -1.203e+06   -329.51   1.83e-03      0.0   327.5     66.28   2075.06   -0.49   -2374.25   -329.51 8.118e+05
10   29 1.159e+06   352.84     -0.29  -8154.62     0.0    338.64  -3135.93    0.37 -1.817e+04    231.92 1.159e+06
              -1.203e+06    231.92  -1.81e-03      0.0   327.5    338.64 -1.129e+04    0.37 -1.817e+04    352.84 -1.203e+06
10   30 1.992e+05    -52.88      0.06  -8154.62     0.0    251.29   2520.23    0.68 -1.736e+05   -276.47 7.170e+04
              -4.382e+05   -276.47     -0.01      0.0   327.5    251.29  -5634.39    0.68 -1.736e+05    -52.88 -4.382e+05
10   31 1.503e+05   248.47     -0.08  -8154.62     0.0     92.50   4813.29    0.23  1.704e+05    172.51 -3.139e+05
              -3.139e+05    172.51   9.86e-03      0.0   327.5     92.50  -3341.33    0.23  1.704e+05    248.47 -7.288e+04
10   32 1.204e+06   167.33      0.40  -8154.62     0.0   -633.67 1.143e+04   -2.15    1186.34    167.33 -1.204e+06
              -1.204e+06   -535.70   4.20e-03      0.0   327.5   -633.67   3274.96   -2.15    1186.34   -535.70 1.204e+06
10   33 1.204e+06   459.15     -0.40  -8154.62     0.0    880.13  -3274.97    1.61 -2.121e+04    -69.65 1.204e+06
              -1.204e+06    -69.65  -4.08e-03      0.0   327.5    880.13 -1.143e+04    1.61 -2.121e+04    459.15 -1.204e+06
10   34 1.992e+05    -52.88      0.06  -8154.62     0.0    251.29   2520.23    0.68 -1.736e+05   -276.47 7.170e+04
              -4.382e+05   -276.47     -0.01      0.0   327.5    251.29  -5634.39    0.68 -1.736e+05    -52.88 -4.382e+05
10   35 1.503e+05   248.47     -0.08  -8154.62     0.0     92.50   4813.29    0.23  1.704e+05    172.51 -3.139e+05
              -3.139e+05    172.51   9.86e-03      0.0   327.5     92.50  -3341.33    0.23  1.704e+05    248.47 -7.288e+04
10   36 9.957e+05      7.83      0.30  -8154.62     0.0    338.56 1.079e+04   -0.78   -1600.14      7.83 -1.203e+06
              -1.203e+06   -247.77   1.63e-03      0.0   327.5    338.56   2637.08   -0.78   -1600.14   -247.77 9.957e+05
10   37 1.203e+06   249.29     -0.31  -8154.62     0.0    117.82  -3269.57    0.54 -1.862e+04     71.91 1.203e+06
              -1.203e+06     71.91  -1.54e-03      0.0   327.5    117.82 -1.142e+04    0.54 -1.862e+04    249.29 -1.203e+06
10   38 1.200e+05     28.34     -0.01  -6556.20     0.0    167.86   2894.99    0.02   -9575.75     22.90 -8.928e+04
              -2.147e+05     22.90  -2.60e-05      0.0   327.5    167.86  -3661.21    0.02   -9575.75     28.34 -2.147e+05
10   39 1.536e+05     32.91     -0.02  -8421.02     0.0    143.59   3787.17    0.02 -1.048e+04     25.12 -1.251e+05
              -2.637e+05     25.12  -3.86e-05      0.0   327.5    143.59  -4633.85    0.02 -1.048e+04     32.91 -2.637e+05
10   40 1.194e+05     27.55     -0.01  -6556.20     0.0    175.96   2907.71 8.03e-03   -9742.51     24.92 -9.171e+04
              -2.130e+05     24.92  -2.45e-05      0.0   327.5    175.96  -3648.49 8.03e-03   -9742.51     27.55 -2.130e+05
10   41 1.488e+05     32.26     -0.02  -8154.62     0.0    147.06   3659.72    0.02 -1.035e+04     24.80 -1.200e+05
              -2.567e+05     24.80  -3.68e-05      0.0   327.5    147.06  -4494.90    0.02 -1.035e+04     32.26 -2.567e+05
10   42 1.482e+05     31.46     -0.02  -8154.62     0.0    155.15   3672.43    0.01 -1.051e+04     26.83 -1.224e+05
              -2.550e+05     26.83  -3.51e-05      0.0   327.5    155.15  -4482.19    0.01 -1.051e+04     31.46 -2.550e+05
10   43 1.200e+05     28.34     -0.01  -6556.20     0.0    167.86   2894.99    0.02   -9575.75     22.90 -8.928e+04
              -2.147e+05     22.90  -2.60e-05      0.0   327.5    167.86  -3661.21    0.02   -9575.75     28.34 -2.147e+05
10   44 1.488e+05     32.26     -0.02  -8154.62     0.0    147.06   3659.72    0.02 -1.035e+04     24.80 -1.200e+05
              -2.567e+05     24.80  -3.68e-05      0.0   327.5    147.06  -4494.90    0.02 -1.035e+04     32.26 -2.567e+05
10   45 1.200e+05     28.34     -0.01  -6556.20     0.0    167.86   2894.99    0.02   -9575.75     22.90 -8.928e+04
              -2.147e+05     22.90  -2.60e-05      0.0   327.5    167.86  -3661.21    0.02   -9575.75     28.34 -2.147e+05
10   46 1.488e+05     32.26     -0.02  -8154.62     0.0    147.06   3659.72    0.02 -1.035e+04     24.80 -1.200e+05
              -2.567e+05     24.80  -3.68e-05      0.0   327.5    147.06  -4494.90    0.02 -1.035e+04     32.26 -2.567e+05
11    1 8.238e+04     60.25     -0.01  -8647.53     0.0    239.57   4048.29   -0.37    -411.56     60.25 -2.247e+05
              -3.144e+05    -59.34   5.08e-05      0.0   325.5    239.57  -4599.23   -0.37    -411.56    -59.34 -3.144e+05
11    2 8.449e+04     61.75     -0.01  -8647.53     0.0    257.86   4059.93   -0.40    -439.12     61.75 -2.244e+05
              -3.103e+05    -68.52   5.55e-05      0.0   325.5    257.86  -4587.59   -0.40    -439.12    -68.52 -3.103e+05
11    3 1.221e+05     64.44     -0.02 -1.262e+04    0.0    180.99   5898.67   -0.35    -484.68     64.44 -3.248e+05
              -4.586e+05    -50.88   4.20e-05      0.0   325.5    180.99  -6720.51   -0.35    -484.68    -50.88 -4.586e+05
11    4 1.241e+05     65.94     -0.02 -1.262e+04    0.0    199.28   5910.30   -0.39    -512.24     65.94 -3.245e+05
              -4.544e+05    -60.05   4.68e-05      0.0   325.5    199.28  -6708.87   -0.39    -512.24    -60.05 -4.544e+05
11    5 5.318e+04     45.27  -6.95e-03  -5633.57     0.0    199.31   2639.62   -0.29    -297.83     45.27 -1.472e+05
              -2.049e+05    -47.82   4.13e-05      0.0   325.5    199.31  -2993.95   -0.29    -297.83    -47.82 -2.049e+05
11    6 5.538e+04     46.77  -8.58e-03  -5633.57     0.0    217.60   2651.26   -0.32    -325.40     46.77 -1.469e+05
              -2.008e+05    -57.00   4.60e-05      0.0   325.5    217.60  -2982.32   -0.32    -325.40    -57.00 -2.008e+05
11    7 9.291e+04     49.46     -0.01  -9605.22     0.0    140.72   4489.99   -0.27    -370.95     49.46 -2.473e+05
              -3.490e+05    -39.35   3.26e-05      0.0   325.5    140.72  -5115.23   -0.27    -370.95    -39.35 -3.490e+05
11    8 9.489e+04     50.96     -0.01  -9605.22     0.0    159.01   4501.63   -0.31    -398.52     50.96 -2.470e+05
              -3.449e+05    -48.53   3.73e-05      0.0   325.5    159.01  -5103.59   -0.31    -398.52    -48.53 -3.449e+05
11    9 8.672e+04     63.24     -0.01  -8647.53     0.0    276.15   4071.57   -0.43    -466.68     63.24 -2.241e+05
              -3.062e+05    -77.70   6.02e-05      0.0   325.5    276.15  -4575.96   -0.43    -466.68    -77.70 -3.062e+05
11   10 1.102e+05     63.18     -0.01 -1.143e+04    0.0    198.56   5343.55   -0.36    -462.74     63.18 -2.948e+05
              -4.153e+05    -53.42   4.47e-05      0.0   325.5    198.56  -6084.13   -0.36    -462.74    -53.42 -4.153e+05
11   11 1.144e+05     66.18     -0.02 -1.143e+04    0.0    235.14   5366.83   -0.42    -517.87     66.18 -2.941e+05
              -4.071e+05    -71.77   5.41e-05      0.0   325.5    235.14  -6060.85   -0.42    -517.87    -71.77 -4.071e+05
11   12 5.760e+04     48.27     -0.01  -5633.57     0.0    235.89   2662.90   -0.35    -352.96     48.27 -1.466e+05
              -1.967e+05    -66.17   5.08e-05      0.0   325.5    235.89  -2970.68   -0.35    -352.96    -66.17 -1.967e+05
11   13 8.099e+04     48.20     -0.01  -8413.73     0.0    158.30   3934.88   -0.28    -349.02     48.20 -2.173e+05
              -3.058e+05    -41.89   3.52e-05      0.0   325.5    158.30  -4478.85   -0.28    -349.02    -41.89 -3.058e+05
11   14 8.525e+04     51.20     -0.01  -8413.73     0.0    194.88   3958.16   -0.34    -404.14     51.20 -2.166e+05
              -2.976e+05    -60.25   4.47e-05      0.0   325.5    194.88  -4455.57   -0.34    -404.14    -60.25 -2.976e+05
11   15 6.201e+04     46.20  -7.89e-03  -6516.16     0.0    186.29   3050.81   -0.28    -314.08     46.20 -1.695e+05
              -2.369e+05    -45.94   3.93e-05      0.0   325.5    186.29  -3465.35   -0.28    -314.08    -45.94 -2.369e+05
11   16 6.342e+04     47.20  -8.90e-03  -6516.16     0.0    198.48   3058.57   -0.30    -332.46     47.20 -1.692e+05
              -2.342e+05    -52.06   4.25e-05      0.0   325.5    198.48  -3457.59   -0.30    -332.46    -52.06 -2.342e+05
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11	17	8.849e+04	49.00	-0.01	-9163.93	0.0	147.23	4284.39	-0.27	-362.83	49.00	-2.362e+05
		-3.330e+05	-40.29	3.35e-05	0.0	325.5	147.23	-4879.54	-0.27	-362.83	-40.29	-3.330e+05
11	18	8.982e+04	49.99	-0.01	-9163.93	0.0	159.42	4292.15	-0.30	-381.20	49.99	-2.359e+05
		-3.303e+05	-46.41	3.67e-05	0.0	325.5	159.42	-4871.78	-0.30	-381.20	-46.41	-3.303e+05
11	19	6.490e+04	48.20	-9.99e-03	-6516.16	0.0	210.67	3066.33	-0.33	-350.83	48.20	-1.690e+05
		-2.314e+05	-58.17	4.57e-05	0.0	325.5	210.67	-3449.83	-0.33	-350.83	-58.17	-2.314e+05
11	20	8.055e+04	48.16	-0.01	-8369.60	0.0	158.95	3914.32	-0.28	-348.20	48.16	-2.162e+05
		-3.042e+05	-41.99	3.53e-05	0.0	325.5	158.95	-4455.28	-0.28	-348.20	-41.99	-3.042e+05
11	21	8.333e+04	50.15	-0.01	-8369.60	0.0	183.33	3929.84	-0.32	-384.96	50.15	-2.157e+05
		-2.987e+05	-54.22	4.16e-05	0.0	325.5	183.33	-4439.76	-0.32	-384.96	-54.22	-2.987e+05
11	22	4.364e+04	566.64	8.87e-03	-8104.82	0.0	101.92	3815.51	11.37	-9216.35	-3133.50	-2.476e+05
		-3.247e+05	-3133.50	-0.01	0.0	325.5	101.92	-4289.31	11.37	-9216.35	566.64	-3.247e+05
11	23	1.128e+05	3166.30	-0.03	-8104.82	0.0	257.64	3759.97	-11.51	9342.66	3166.30	-1.701e+05
		-2.653e+05	-578.74	0.01	0.0	325.5	257.64	-4344.86	-11.51	9342.66	-578.74	-2.653e+05
11	24	1.205e+06	791.48	0.24	-8104.82	0.0	-436.23	1.146e+04	-5.29	-6572.54	791.48	-1.205e+06
		-1.205e+06	-929.65	4.61e-03	0.0	325.5	-436.23	3351.50	-5.29	-6572.54	-929.65	1.205e+06
11	25	1.205e+06	801.14	-0.26	-8104.82	0.0	514.43	-3351.10	4.72	5810.72	-733.87	1.205e+06
		-1.205e+06	-733.87	-4.45e-03	0.0	325.5	514.43	-1.146e+04	4.72	5810.72	801.14	-1.205e+06
11	26	4.539e+04	580.82	8.08e-03	-8104.82	0.0	148.86	3811.85	10.77	-9962.96	-2923.57	-2.452e+05
		-3.235e+05	-2923.57	-0.01	0.0	325.5	148.86	-4292.97	10.77	-9962.96	580.82	-3.235e+05
11	27	1.109e+05	2930.75	-0.02	-8104.82	0.0	193.46	3763.51	-10.96	1.002e+04	2930.75	-1.726e+05
		-2.666e+05	-635.43	0.01	0.0	325.5	193.46	-4341.32	-10.96	1.002e+04	-635.43	-2.666e+05
11	28	1.023e+06	425.94	0.18	-8104.82	0.0	92.97	1.089e+04	-2.82	-5307.63	425.94	-1.203e+06
		-1.203e+06	-493.33	1.58e-03	0.0	325.5	92.97	2786.68	-2.82	-5307.63	-493.33	1.023e+06
11	29	9.850e+05	377.19	-0.20	-8104.82	0.0	401.64	-2670.29	2.25	4630.60	-355.22	9.850e+05
		-1.203e+06	-355.22	-1.50e-03	0.0	325.5	401.64	-1.078e+04	2.25	4630.60	377.19	-1.203e+06
11	30	4.347e+04	5.71	9.15e-03	-8104.82	0.0	181.30	3825.57	7.59	-9327.32	-2464.61	-2.494e+05
		-3.232e+05	-2464.61	-0.01	0.0	325.5	181.30	-4279.25	7.59	-9327.32	5.71	-3.232e+05
11	31	1.136e+05	2564.58	-0.03	-8104.82	0.0	204.96	3750.98	-7.77	9265.69	2564.58	-1.681e+05
		-2.662e+05	35.39	0.01	0.0	325.5	204.96	-4353.84	-7.77	9265.69	35.39	-2.662e+05
11	32	1.204e+06	673.32	0.24	-8104.82	0.0	-159.47	1.145e+04	-4.52	-6575.58	673.32	-1.204e+06
		-1.204e+06	-798.40	4.00e-03	0.0	325.5	-159.47	3345.45	-4.52	-6575.58	-798.40	1.204e+06
11	33	1.204e+06	627.05	-0.26	-8104.82	0.0	439.09	-3345.34	3.76	5710.86	-597.21	1.204e+06
		-1.204e+06	-597.21	-3.92e-03	0.0	325.5	439.09	-1.145e+04	3.76	5710.86	627.05	-1.204e+06
11	34	4.347e+04	5.71	9.15e-03	-8104.82	0.0	181.30	3825.57	7.59	-9327.32	-2464.61	-2.494e+05
		-3.232e+05	-2464.61	-0.01	0.0	325.5	181.30	-4279.25	7.59	-9327.32	5.71	-3.232e+05
11	35	1.136e+05	2564.58	-0.03	-8104.82	0.0	204.96	3750.98	-7.77	9265.69	2564.58	-1.681e+05
		-2.662e+05	35.39	0.01	0.0	325.5	204.96	-4353.84	-7.77	9265.69	35.39	-2.662e+05
11	36	1.203e+06	390.94	0.20	-8104.82	0.0	309.09	1.144e+04	-2.57	-5776.92	390.94	-1.203e+06
		-1.203e+06	-445.80	1.54e-03	0.0	325.5	309.09	3339.95	-2.57	-5776.92	-445.80	1.203e+06
11	37	1.159e+06	312.54	-0.22	-8104.82	0.0	261.48	-3205.98	1.93	5010.70	-315.10	1.159e+06
		-1.203e+06	-315.10	-1.40e-03	0.0	325.5	261.48	-1.131e+04	1.93	5010.70	312.54	-1.203e+06
11	38	6.201e+04	46.20	-7.89e-03	-6516.16	0.0	186.29	3050.81	-0.28	-314.08	46.20	-1.695e+05
		-2.369e+05	-45.94	3.93e-05	0.0	325.5	186.29	-3465.35	-0.28	-314.08	-45.94	-2.369e+05
11	39	8.055e+04	48.16	-0.01	-8369.60	0.0	158.95	3914.32	-0.28	-348.20	48.16	-2.162e+05
		-3.042e+05	-41.99	3.53e-05	0.0	325.5	158.95	-4455.28	-0.28	-348.20	-41.99	-3.042e+05
11	40	6.254e+04	46.60	-8.25e-03	-6516.16	0.0	191.17	3053.91	-0.29	-321.43	46.60	-1.694e+05
		-2.358e+05	-48.39	4.06e-05	0.0	325.5	191.17	-3462.25	-0.29	-321.43	-48.39	-2.358e+05
11	41	7.790e+04	47.88	-9.71e-03	-8104.82	0.0	162.86	3790.96	-0.28	-343.33	47.88	-2.095e+05
		-2.946e+05	-42.55	3.59e-05	0.0	325.5	162.86	-4313.86	-0.28	-343.33	-42.55	-2.946e+05
11	42	7.843e+04	48.28	-0.01	-8104.82	0.0	167.73	3794.06	-0.29	-350.68	48.28	-2.094e+05
		-2.935e+05	-45.00	3.71e-05	0.0	325.5	167.73	-4310.76	-0.29	-350.68	-45.00	-2.935e+05
11	43	6.201e+04	46.20	-7.89e-03	-6516.16	0.0	186.29	3050.81	-0.28	-314.08	46.20	-1.695e+05
		-2.369e+05	-45.94	3.93e-05	0.0	325.5	186.29	-3465.35	-0.28	-314.08	-45.94	-2.369e+05
11	44	7.790e+04	47.88	-9.71e-03	-8104.82	0.0	162.86	3790.96	-0.28	-343.33	47.88	-2.095e+05
		-2.946e+05	-42.55	3.59e-05	0.0	325.5	162.86	-4313.86	-0.28	-343.33	-42.55	-2.946e+05
11	45	6.201e+04	46.20	-7.89e-03	-6516.16	0.0	186.29	3050.81	-0.28	-314.08	46.20	-1.695e+05
		-2.369e+05	-45.94	3.93e-05	0.0	325.5	186.29	-3465.35	-0.28	-314.08	-45.94	-2.369e+05
11	46	7.790e+04	47.88	-9.71e-03	-8104.82	0.0	162.86	3790.96	-0.28	-343.33	47.88	-2.095e+05
		-2.946e+05	-42.55	3.59e-05	0.0	325.5	162.86	-4313.86	-0.28	-343.33	-42.55	-2.946e+05
12	1	2.790e+05	70.79	-0.06	-1.168e+04	0.0	353.01	6309.80	0.35	1.093e+04	-83.93	-4.691e+05
		-4.691e+05	-83.93	-6.11e-05	0.0	439.5	353.01	-5366.36	0.35	1.093e+04	70.79	-2.618e+05
12	2	2.757e+05	79.08	-0.06	-1.168e+04	0.0	409.75	6264.54	0.41	1.150e+04	-99.32	-4.611e+05
		-4.611e+05	-99.32	-8.68e-05	0.0	439.5	409.75	-5411.62	0.41	1.150e+04	79.08	-2.737e+05
12	3	4.074e+05	84.07	-0.08	-1.704e+04	0.0	276.83	9113.06	0.38	1.272e+04	-82.46	-6.608e+05
		-6.608e+05	-82.46	-4.52e-05	0.0	439.5	276.83	-7925.74	0.38	1.272e+04	84.07	-3.999e+05
12	4	4.042e+05	92.37	-0.08	-1.704e+04	0.0	333.58	9067.80	0.43	1.330e+04	-97.85	-6.528e+05
		-6.528e+05	-97.85	-6.96e-05	0.0	439.5	333.58	-7971.00	0.43	1.330e+04	92.37	-4.118e+05
12	5	1.816e+05	51.04	-0.04	-7606.62	0.0	291.08	4134.90	0.26	7943.67	-64.94	-3.117e+05
		-3.117e+05	-64.94	-5.14e-05	0.0	439.5	291.08	-3471.72	0.26	7943.67	51.04	-1.660e+05
12	6	1.784e+05	59.34	-0.04	-7606.62	0.0	347.82	4089.64	0.32	8519.56	-80.33	-3.037e+05
		-3.037e+05	-80.33	-7.71e-05	0.0	439.5	347.82	-3516.98	0.32	8519.56	59.34	-1.779e+05
12	7	3.101e+05	64.33	-0.06	-1.297e+04	0.0	214.90	6938.17	0.29	9739.31	-63.47	-5.034e+05
		-5.034e+05	-63.47	-3.51e-05	0.0	439.5	214.90	-6031.10	0.29	9739.31	64.33	-3.041e+05
12	8	3.069e+05	72.62	-0.06	-1.297e+04	0.0	271.64	6892.91	0.34	1.032e+04	-78.86	-4.954e+05
		-4.954e+05	-78.86	-5.99e-05	0.0	439.5	271.64	-6076.36	0.34	1.032e+04	72.62	-3.160e+05
12	9	2.725e+05	87.37	-0.06	-1.168e+04	0.0	466.50	6219.28	0.46	1.208e+04	-114.72	-4.531e+05

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             -4.531e+05   -114.72  -1.12e-04       0.0   439.5   466.50  -5456.88    0.46 1.208e+04   87.37 -2.856e+05
12   10 3.689e+05    80.09      -0.07 -1.543e+04     0.0   299.68   8272.08    0.37 1.218e+04  -82.90 -6.033e+05
        -6.033e+05   -82.90  -4.96e-05       0.0   439.5   299.68  -7157.93    0.37 1.218e+04   80.09 -3.584e+05
12   11 3.629e+05    96.67      -0.07 -1.543e+04     0.0   413.17   8181.56    0.48 1.333e+04 -113.69 -5.873e+05
        -5.873e+05  -113.69  -1.00e-04       0.0   439.5   413.17  -7248.44    0.48 1.333e+04   96.67 -3.823e+05
12   12 1.752e+05    67.63      -0.04  -7606.62     0.0   404.57   4044.38    0.37 9095.45   -95.73 -2.957e+05
        -2.957e+05   -95.73  -1.03e-04       0.0   439.5   404.57  -3562.24    0.37 9095.45    67.63 -1.898e+05
12   13 2.716e+05    60.35      -0.05 -1.136e+04     0.0   237.75   6097.19    0.28 9200.62   -63.91 -4.459e+05
        -4.459e+05   -63.91  -3.96e-05       0.0   439.5   237.75  -5263.28    0.28 9200.62    60.35 -2.626e+05
12   14 2.659e+05    76.93      -0.05 -1.136e+04     0.0   351.24   6006.67    0.39 1.035e+04  -94.70 -4.299e+05
        -4.299e+05   -94.70  -9.07e-05       0.0   439.5   351.24  -5353.80    0.39 1.035e+04   76.93 -2.865e+05
12   15 2.102e+05    54.00      -0.04  -8798.32     0.0   274.15   4757.85    0.27 8342.70   -64.61 -3.543e+05
        -3.543e+05   -64.61  -4.76e-05       0.0   439.5   274.15  -4040.47    0.27 8342.70    54.00 -1.966e+05
12   16 2.080e+05    59.52      -0.04  -8798.32     0.0   311.98   4727.68    0.31 8726.63   -74.87 -3.490e+05
        -3.490e+05   -74.87  -6.47e-05       0.0   439.5   311.98  -4070.64    0.31 8726.63    59.52 -2.046e+05
12   17 2.958e+05    62.86      -0.06 -1.237e+04     0.0   223.36   6626.69    0.29 9539.80   -63.63 -4.821e+05
        -4.821e+05   -63.63  -3.68e-05       0.0   439.5   223.36  -5746.72    0.29 9539.80    62.86 -2.887e+05
12   18 2.937e+05    68.38      -0.06 -1.237e+04     0.0   261.19   6596.52    0.32 9923.72   -73.89 -4.768e+05
        -4.768e+05   -73.89  -5.32e-05       0.0   439.5   261.19  -5776.90    0.32 9923.72    68.38 -2.967e+05
12   19 2.059e+05    65.05      -0.04  -8798.32     0.0   349.81   4697.50    0.34 9110.55   -85.14 -3.437e+05
        -3.437e+05   -85.14  -8.18e-05       0.0   439.5   349.81  -4100.81    0.34 9110.55    65.05 -2.125e+05
12   20 2.701e+05    60.20      -0.05 -1.130e+04     0.0   238.60   6066.04    0.28 9180.67   -63.92 -4.437e+05
        -4.437e+05   -63.92  -3.97e-05       0.0   439.5   238.60  -5234.85    0.28 9180.67    60.20 -2.611e+05
12   21 2.659e+05    71.25      -0.05 -1.130e+04     0.0   314.26   6005.69    0.35 9948.52   -84.45 -4.331e+05
        -4.331e+05   -84.45  -7.38e-05       0.0   439.5   314.26  -5295.19    0.35 9948.52    71.25 -2.770e+05
12   22 3.121e+05  2477.43      -0.10 -1.094e+04     0.0   454.11   6926.12   11.07 1.302e+05 -2386.29 -6.510e+05
        -6.510e+05 -2386.29      -0.02       0.0   439.5   454.11  -4017.25   11.07 1.302e+05  2477.43 -1.180e+04
12   23 2.582e+05  2330.71       0.05 -1.094e+04     0.0    64.47   4818.94  -10.78 -1.317e+05  2330.71 -2.081e+05
        -4.950e+05 -2408.55       0.02       0.0   439.5    64.47  -6124.44  -10.78 -1.317e+05 -2408.55 -4.950e+05
12   24 1.204e+06   479.95       0.34 -1.094e+04     0.0   534.56 1.095e+04   -0.92 1.643e+04   479.95 -1.205e+06
        -1.205e+06    77.80   6.44e-03       0.0   439.5   534.56      9.57   -0.92 1.643e+04    77.80  1.204e+06
12   25 1.204e+06    10.59      -0.39 -1.094e+04     0.0  -477.99     -9.26    1.47 1750.66   -636.77  1.204e+06
        -1.205e+06  -636.77  -6.56e-03       0.0   439.5  -477.99 -1.095e+04    1.47 1750.66     10.59 -1.205e+06
12   26 3.086e+05  2086.75      -0.10 -1.094e+04     0.0   470.76   6870.67    9.36 1.370e+05 -2026.22 -6.393e+05
        -6.393e+05 -2026.22      -0.02       0.0   439.5   470.76  -4072.71    9.36 1.370e+05  2086.75 -2.448e+04
12   27 2.571e+05  1887.21       0.05 -1.094e+04     0.0    34.24   4877.70   -8.71 -1.417e+05  1887.21 -2.205e+05
        -4.816e+05 -1940.12       0.02       0.0   439.5    34.24  -6065.68   -8.71 -1.417e+05 -1940.12 -4.816e+05
12   28 1.017e+06   223.16       0.24 -1.094e+04     0.0   346.82 1.052e+04   -0.06 1.405e+04   223.16 -1.203e+06
        -1.203e+06   198.80   2.34e-03       0.0   439.5   346.82   -426.46   -0.06 1.405e+04   198.80  1.014e+06
12   29 7.379e+05   -65.52      -0.27 -1.094e+04     0.0   317.44   1108.00    0.75 3964.04   -394.12  7.146e+05
        -1.203e+06  -394.12  -2.53e-03       0.0   439.5   317.44  -9835.37    0.75 3964.04    -65.52 -1.203e+06
12   30 3.128e+05  1717.65      -0.11 -1.094e+04     0.0   446.54   6937.19    8.00 1.321e+05 -1797.95 -6.534e+05
        -6.534e+05 -1797.95      -0.02       0.0   439.5   446.54  -4006.18    8.00 1.321e+05  1717.65   -9288.08
12   31 2.586e+05  1841.55       0.05 -1.094e+04     0.0    88.91   4795.91   -8.16 -1.296e+05  1841.55 -2.033e+05
        -5.003e+05 -1745.85       0.02       0.0   439.5    88.91  -6147.46   -8.16 -1.296e+05 -1745.85 -5.003e+05
12   32 1.204e+06   346.78       0.33 -1.094e+04     0.0   578.15 1.095e+04   -1.01 1.620e+04   346.78 -1.204e+06
        -1.204e+06   -97.90   5.31e-03       0.0   439.5   578.15      6.23   -1.01 1.620e+04   -97.90  1.204e+06
12   33 1.203e+06   216.33      -0.39 -1.094e+04     0.0  -255.58     -6.10    1.62 1824.95   -497.77  1.203e+06
        -1.204e+06  -497.77  -5.55e-03       0.0   439.5  -255.58 -1.095e+04    1.62 1824.95    216.33 -1.204e+06
12   34 3.128e+05  1717.65      -0.11 -1.094e+04     0.0   446.54   6937.19    8.00 1.321e+05 -1797.95 -6.534e+05
        -6.534e+05 -1797.95      -0.02       0.0   439.5   446.54  -4006.18    8.00 1.321e+05  1717.65   -9288.08
12   35 2.586e+05  1841.55       0.05 -1.094e+04     0.0    88.91   4795.91   -8.16 -1.296e+05  1841.55 -2.033e+05
        -5.003e+05 -1745.85       0.02       0.0   439.5    88.91  -6147.46   -8.16 -1.296e+05 -1745.85 -5.003e+05
12   36 1.165e+06   168.10       0.27 -1.094e+04     0.0   362.59 1.086e+04   -0.25 1.452e+04   168.10 -1.203e+06
        -1.203e+06    56.45   2.10e-03       0.0   439.5   362.59    -84.01   -0.25 1.452e+04    56.45  1.165e+06
12   37 8.730e+05    74.87      -0.29 -1.094e+04     0.0   386.65    774.28    0.93 3645.71   -333.30  8.611e+05
        -1.203e+06  -333.30  -2.22e-03       0.0   439.5   386.65 -1.017e+04    0.93 3645.71     74.87 -1.203e+06
12   38 2.102e+05    54.00      -0.04  -8798.32     0.0   274.15   4757.85    0.27 8342.70   -64.61 -3.543e+05
        -3.543e+05   -64.61  -4.76e-05       0.0   439.5   274.15  -4040.47    0.27 8342.70    54.00 -1.966e+05
12   39 2.701e+05    60.20      -0.05 -1.130e+04     0.0   238.60   6066.04    0.28 9180.67   -63.92 -4.437e+05
        -4.437e+05   -63.92  -3.97e-05       0.0   439.5   238.60  -5234.85    0.28 9180.67    60.20 -2.611e+05
12   40 2.093e+05    56.21      -0.04  -8798.32     0.0   289.28   4745.78    0.28 8496.27   -68.72 -3.522e+05
        -3.522e+05   -68.72  -5.44e-05       0.0   439.5   289.28  -4052.54    0.28 8496.27    56.21 -1.998e+05
12   41 2.616e+05    59.31      -0.05 -1.094e+04     0.0   243.68   5879.16    0.28 9060.96   -64.02 -4.310e+05
        -4.310e+05   -64.02  -4.07e-05       0.0   439.5   243.68  -5064.22    0.28 9060.96    59.31 -2.519e+05
12   42 2.607e+05    61.52      -0.05 -1.094e+04     0.0   258.81   5867.09    0.29 9214.53   -68.13 -4.288e+05
        -4.288e+05   -68.13  -4.76e-05       0.0   439.5   258.81  -5076.29    0.29 9214.53    61.52 -2.551e+05
12   43 2.102e+05    54.00      -0.04  -8798.32     0.0   274.15   4757.85    0.27 8342.70   -64.61 -3.543e+05
        -3.543e+05   -64.61  -4.76e-05       0.0   439.5   274.15  -4040.47    0.27 8342.70    54.00 -1.966e+05
12   44 2.616e+05    59.31      -0.05 -1.094e+04     0.0   243.68   5879.16    0.28 9060.96   -64.02 -4.310e+05
        -4.310e+05   -64.02  -4.07e-05       0.0   439.5   243.68  -5064.22    0.28 9060.96    59.31 -2.519e+05
12   45 2.102e+05    54.00      -0.04  -8798.32     0.0   274.15   4757.85    0.27 8342.70   -64.61 -3.543e+05
        -3.543e+05   -64.61  -4.76e-05       0.0   439.5   274.15  -4040.47    0.27 8342.70    54.00 -1.966e+05
12   46 2.616e+05    59.31      -0.05 -1.094e+04     0.0   243.68   5879.16    0.28 9060.96   -64.02 -4.310e+05
        -4.310e+05   -64.02  -4.07e-05       0.0   439.5   243.68  -5064.22    0.28 9060.96    59.31 -2.519e+05
13    1 1.601e+05   -30.89      -0.02  -8750.28     0.0   215.08   3873.02   -0.02 1.281e+04   -30.89 -1.206e+05
        -2.851e+05   -36.65   3.26e-05       0.0   327.5   215.08  -4877.26   -0.02 1.281e+04   -36.65 -2.851e+05
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13	2	1.577e+05	-33.48	-0.02	-8750.28	0.0	245.47	3921.22	0.02	1.344e+04	-38.62 -1.298e+05
		-2.785e+05	-38.62	2.65e-05	0.0	327.5	245.47	-4829.06	0.02	1.344e+04	-33.48 -2.785e+05
13	3	2.325e+05	-35.76	-0.03	-1.277e+04	0.0	162.92	5798.75	-0.03	1.476e+04	-35.76 -1.980e+05
		-3.907e+05	-46.51	5.99e-05	0.0	327.5	162.92	-6975.50	-0.03	1.476e+04	-46.51 -3.907e+05
13	4	2.301e+05	-43.34	-0.03	-1.277e+04	0.0	193.31	5846.95	4.68e-04	1.540e+04	-43.49 -2.072e+05
		-3.841e+05	-43.49	5.19e-05	0.0	327.5	193.31	-6927.30	4.68e-04	1.540e+04	-43.34 -3.841e+05
13	5	1.046e+05	-22.51	-0.01	-5699.20	0.0	178.82	2485.47	-9.61e-03	9349.30	-22.51 -7.294e+04
		-1.922e+05	-25.66	1.87e-05	0.0	327.5	178.82	-3213.73	-9.61e-03	9349.30	-25.66 -1.922e+05
13	6	1.022e+05	-22.49	-0.01	-5699.20	0.0	209.21	2533.67	0.02	9983.93	-30.24 -8.216e+04
		-1.856e+05	-30.24	1.37e-05	0.0	327.5	209.21	-3165.53	0.02	9983.93	-22.49 -1.856e+05
13	7	1.770e+05	-27.39	-0.02	-9723.17	0.0	126.66	4411.20	-0.02	1.131e+04	-27.39 -1.503e+05
		-2.978e+05	-35.53	4.53e-05	0.0	327.5	126.66	-5311.97	-0.02	1.131e+04	-35.53 -2.978e+05
13	8	1.746e+05	-32.35	-0.02	-9723.17	0.0	157.05	4459.40	8.43e-03	1.194e+04	-35.12 -1.596e+05
		-2.913e+05	-35.12	3.75e-05	0.0	327.5	157.05	-5263.77	8.43e-03	1.194e+04	-32.35 -2.913e+05
13	9	1.554e+05	-30.31	-0.02	-8750.28	0.0	275.86	3969.42	0.05	1.408e+04	-46.35 -1.391e+05
		-2.719e+05	-46.35	2.14e-05	0.0	327.5	275.86	-4780.86	0.05	1.408e+04	-30.31 -2.719e+05
13	10	2.107e+05	-34.30	-0.02	-1.157e+04	0.0	178.57	5221.03	-0.03	1.418e+04	-34.30 -1.748e+05
		-3.590e+05	-43.55	5.14e-05	0.0	327.5	178.57	-6346.03	-0.03	1.418e+04	-43.55 -3.590e+05
13	11	2.061e+05	-37.21	-0.03	-1.157e+04	0.0	239.34	5317.44	0.04	1.545e+04	-49.76 -1.932e+05
		-3.459e+05	-49.76	3.72e-05	0.0	327.5	239.34	-6249.62	0.04	1.545e+04	-37.21 -3.459e+05
13	12	9.993e+04	-19.32	-0.01	-5699.20	0.0	239.60	2581.87	0.06	1.062e+04	-37.97 -9.138e+04
		-1.791e+05	-37.97	1.01e-05	0.0	327.5	239.60	-3117.33	0.06	1.062e+04	-19.32 -1.791e+05
13	13	1.552e+05	-25.93	-0.02	-8515.98	0.0	142.31	3833.48	-0.02	1.072e+04	-25.93 -1.271e+05
		-2.661e+05	-32.57	3.68e-05	0.0	327.5	142.31	-4682.50	-0.02	1.072e+04	-32.57 -2.661e+05
13	14	1.506e+05	-26.22	-0.02	-8515.98	0.0	203.08	3929.89	0.05	1.199e+04	-41.38 -1.456e+05
		-2.530e+05	-41.38	2.37e-05	0.0	327.5	203.08	-4586.09	0.05	1.199e+04	-26.22 -2.530e+05
13	15	1.206e+05	-23.60	-0.01	-6593.42	0.0	167.23	2913.41	-0.01	9784.37	-23.60 -9.014e+04
		-2.157e+05	-27.85	2.42e-05	0.0	327.5	167.23	-3680.01	-0.01	9784.37	-27.85 -2.157e+05
13	16	1.191e+05	-25.74	-0.01	-6593.42	0.0	187.49	2945.54	9.19e-03	1.021e+04	-28.75 -9.628e+04
		-2.113e+05	-28.75	2.01e-05	0.0	327.5	187.49	-3647.87	9.19e-03	1.021e+04	-25.74 -2.113e+05
13	17	1.689e+05	-26.85	-0.02	-9276.06	0.0	132.45	4197.23	-0.02	1.109e+04	-26.85 -1.417e+05
		-2.861e+05	-34.43	4.22e-05	0.0	327.5	132.45	-5078.83	-0.02	1.109e+04	-34.43 -2.861e+05
13	18	1.674e+05	-32.00	-0.02	-9276.06	0.0	152.71	4229.37	-9.70e-04	1.151e+04	-32.00 -1.479e+05
		-2.817e+05	-32.32	3.70e-05	0.0	327.5	152.71	-5046.70	-9.70e-04	1.151e+04	-32.32 -2.817e+05
13	19	1.176e+05	-23.63	-0.01	-6593.42	0.0	207.75	2977.68	0.03	1.063e+04	-33.90 -1.024e+05
		-2.069e+05	-33.90	1.67e-05	0.0	327.5	207.75	-3615.74	0.03	1.063e+04	-23.63 -2.069e+05
13	20	1.544e+05	-25.87	-0.02	-8471.27	0.0	142.89	3812.08	-0.02	1.070e+04	-25.87 -1.263e+05
		-2.650e+05	-32.46	3.65e-05	0.0	327.5	142.89	-4659.18	-0.02	1.070e+04	-32.46 -2.650e+05
13	21	1.513e+05	-28.23	-0.02	-8471.27	0.0	183.41	3876.35	0.02	1.154e+04	-36.18 -1.385e+05
		-2.562e+05	-36.18	2.73e-05	0.0	327.5	183.41	-4594.91	0.02	1.154e+04	-28.23 -2.562e+05
13	22	1.506e+05	-69.54	-0.07	-8203.00	0.0	110.25	4813.31	1.37	-1.733e+05	-517.49 -3.111e+05
		-3.111e+05	-517.49	-0.01	0.0	327.5	110.25	-3389.69	1.37	-1.733e+05	-69.54 -7.793e+04
13	23	1.993e+05	458.18	0.06	-8203.00	0.0	213.36	2552.99	-1.29	1.707e+05	458.18 6.918e+04
		-4.380e+05	35.81	0.01	0.0	327.5	213.36	-5650.01	-1.29	1.707e+05	35.81 -4.380e+05
13	24	1.205e+06	584.52	0.41	-8203.00	0.0	-933.64	1.146e+04	-1.06	-787.99	584.52 -1.205e+06
		-1.205e+06	236.92	1.62e-03	0.0	327.5	-933.64	3256.87	-1.06	-787.99	236.92 1.205e+06
13	25	1.205e+06	-216.28	-0.41	-8203.00	0.0	1027.23	-3256.58	1.38	2.104e+04	-667.01 1.205e+06
		-1.205e+06	-667.01	-1.63e-03	0.0	327.5	1027.23	-1.146e+04	1.38	2.104e+04	-216.28 -1.205e+06
13	26	1.496e+05	299.09	-0.07	-8203.00	0.0	76.65	4750.62	3.61	-1.850e+05	-882.37 -3.006e+05
		-3.006e+05	-882.37	-0.01	0.0	327.5	76.65	-3452.38	3.61	-1.850e+05	299.09 -8.797e+04
13	27	1.954e+05	758.19	0.06	-8203.00	0.0	236.98	2612.60	-3.15	1.800e+05	758.19 5.920e+04
		-4.284e+05	-272.62	0.01	0.0	327.5	236.98	-5590.41	-3.15	1.800e+05	-272.62 -4.284e+05
13	28	8.183e+05	266.71	0.27	-8203.00	0.0	65.62	1.027e+04	-0.05	2707.27	266.71 -1.203e+06
		-1.203e+06	251.76	-3.64e-04	0.0	327.5	65.62	2070.83	-0.05	2707.27	251.76 8.183e+05
13	29	1.165e+06	-274.66	-0.29	-8203.00	0.0	342.54	-3127.94	0.17	1.828e+04	-331.81 1.165e+06
		-1.203e+06	-331.81	3.43e-04	0.0	327.5	342.54	-1.133e+04	0.17	1.828e+04	-274.66 -1.203e+06
13	30	1.509e+05	-204.34	-0.08	-8203.00	0.0	93.31	4826.28	-0.07	-1.703e+05	-204.34 -3.131e+05
		-3.131e+05	-225.91	-9.91e-03	0.0	327.5	93.31	-3376.72	-0.07	-1.703e+05	-225.91 -7.578e+04
13	31	1.991e+05	298.80	0.06	-8203.00	0.0	249.08	2554.65	-0.80	1.736e+05	298.80 6.881e+04
		-4.378e+05	38.39	0.01	0.0	327.5	249.08	-5648.35	-0.80	1.736e+05	38.39 -4.378e+05
13	32	1.204e+06	299.64	0.40	-8203.00	0.0	-615.71	1.145e+04	-0.52	-480.53	299.64 -1.204e+06
		-1.204e+06	129.12	1.83e-03	0.0	327.5	-615.71	3250.89	-0.52	-480.53	129.12 1.204e+06
13	33	1.204e+06	-89.57	-0.40	-8203.00	0.0	855.50	-3250.90	0.82	2.091e+04	-357.61 1.204e+06
		-1.204e+06	-357.61	-2.05e-03	0.0	327.5	855.50	-1.145e+04	0.82	2.091e+04	-89.57 -1.204e+06
13	34	1.509e+05	-204.34	-0.08	-8203.00	0.0	93.31	4826.28	-0.07	-1.703e+05	-204.34 -3.131e+05
		-3.131e+05	-225.91	-9.91e-03	0.0	327.5	93.31	-3376.72	-0.07	-1.703e+05	-225.91 -7.578e+04
13	35	1.991e+05	298.80	0.06	-8203.00	0.0	249.08	2554.65	-0.80	1.736e+05	298.80 6.881e+04
		-4.378e+05	38.39	0.01	0.0	327.5	249.08	-5648.35	-0.80	1.736e+05	38.39 -4.378e+05
13	36	1.004e+06	181.99	0.30	-8203.00	0.0	337.21	1.084e+04	0.32	1964.90	76.56 -1.203e+06
		-1.203e+06	76.56	4.75e-05	0.0	327.5	337.21	2637.61	0.32	1964.90	181.99 1.004e+06
13	37	1.203e+06	-153.22	-0.31	-8203.00	0.0	118.58	-3245.41	-0.10	1.870e+04	-153.22 1.203e+06
		-1.203e+06	-185.29	-6.92e-05	0.0	327.5	118.58	-1.145e+04	-0.10	1.870e+04	-185.29 -1.203e+06
13	38	1.206e+05	-23.60	-0.01	-6593.42	0.0	167.23	2913.41	-0.01	9784.37	-23.60 -9.014e+04
		-2.157e+05	-27.85	2.42e-05	0.0	327.5	167.23	-3680.01	-0.01	9784.37	-27.85 -2.157e+05
13	39	1.544e+05	-25.87	-0.02	-8471.27	0.0	142.89	3812.08	-0.02	1.070e+04	-25.87 -1.263e+05
		-2.650e+05	-32.46	3.65e-05	0.0	327.5	142.89	-4659.18	-0.02	1.070e+04	-32.46 -2.650e+05
13	40	1.200e+05	-25.66	-0.01	-6593.42	0.0	175.33	2926.26	-4.12e-03	9953.61	-25.66 -9.259e+04

	-2.139e+05	-27.01	2.25e-05	0.0	327.5	175.33	-3667.15	-4.12e-03	9953.61	-27.01 -2.139e+05
13	41 1.496e+05	-25.55	-0.02	-8203.00	0.0	146.36	3683.70	-0.02	1.057e+04	-25.55 -1.211e+05
	-2.579e+05	-31.80	3.47e-05	0.0	327.5	146.36	-4519.30	-0.02	1.057e+04	-31.80 -2.579e+05
13	42 1.490e+05	-27.61	-0.02	-8203.00	0.0	154.47	3696.56	-0.01	1.074e+04	-27.61 -1.236e+05
	-2.562e+05	-30.95	3.27e-05	0.0	327.5	154.47	-4506.45	-0.01	1.074e+04	-30.95 -2.562e+05
13	43 1.206e+05	-23.60	-0.01	-6593.42	0.0	167.23	2913.41	-0.01	9784.37	-23.60 -9.014e+04
	-2.157e+05	-27.85	2.42e-05	0.0	327.5	167.23	-3680.01	-0.01	9784.37	-27.85 -2.157e+05
13	44 1.496e+05	-25.55	-0.02	-8203.00	0.0	146.36	3683.70	-0.02	1.057e+04	-25.55 -1.211e+05
	-2.579e+05	-31.80	3.47e-05	0.0	327.5	146.36	-4519.30	-0.02	1.057e+04	-31.80 -2.579e+05
13	45 1.206e+05	-23.60	-0.01	-6593.42	0.0	167.23	2913.41	-0.01	9784.37	-23.60 -9.014e+04
	-2.157e+05	-27.85	2.42e-05	0.0	327.5	167.23	-3680.01	-0.01	9784.37	-27.85 -2.157e+05
13	46 1.496e+05	-25.55	-0.02	-8203.00	0.0	146.36	3683.70	-0.02	1.057e+04	-25.55 -1.211e+05
	-2.579e+05	-31.80	3.47e-05	0.0	327.5	146.36	-4519.30	-0.02	1.057e+04	-31.80 -2.579e+05
14	1 8.288e+04	61.24	-0.01	-8696.85	0.0	238.76	4072.74	0.38	420.18	-61.83 -2.262e+05
	-3.159e+05	-61.83	-5.41e-05	0.0	325.5	238.76	-4624.11	0.38	420.18	61.24 -3.159e+05
14	2 8.504e+04	70.80	-0.01	-8696.85	0.0	257.15	4084.57	0.41	447.89	-63.69 -2.259e+05
	-3.118e+05	-63.69	-6.06e-05	0.0	325.5	257.15	-4612.28	0.41	447.89	70.80 -3.118e+05
14	3 1.229e+05	52.75	-0.02	-1.270e+04	0.0	179.85	5936.35	0.36	494.30	-66.03 -3.270e+05
	-4.610e+05	-66.03	-4.56e-05	0.0	325.5	179.85	-6759.89	0.36	494.30	52.75 -4.610e+05
14	4 1.249e+05	62.31	-0.02	-1.270e+04	0.0	198.25	5948.18	0.40	522.01	-67.88 -3.267e+05
	-4.568e+05	-67.88	-5.21e-05	0.0	325.5	198.25	-6748.06	0.40	522.01	62.31 -4.568e+05
14	5 5.350e+04	49.29	-7.00e-03	-5664.40	0.0	198.77	2655.03	0.29	304.21	-46.49 -1.481e+05
	-2.058e+05	-46.49	-4.38e-05	0.0	325.5	198.77	-3009.37	0.29	304.21	49.29 -2.058e+05
14	6 5.573e+04	58.85	-8.65e-03	-5664.40	0.0	217.16	2666.86	0.33	331.92	-48.34 -1.478e+05
	-2.016e+05	-48.34	-5.03e-05	0.0	325.5	217.16	-2997.54	0.33	331.92	58.85 -2.016e+05
14	7 9.350e+04	40.79	-0.01	-9663.79	0.0	139.86	4518.64	0.28	378.33	-50.68 -2.489e+05
	-3.509e+05	-50.68	-3.53e-05	0.0	325.5	139.86	-5145.15	0.28	378.33	40.79 -3.509e+05
14	8 9.551e+04	50.35	-0.01	-9663.79	0.0	158.25	4530.47	0.32	406.04	-52.54 -2.486e+05
	-3.467e+05	-52.54	-4.18e-05	0.0	325.5	158.25	-5133.32	0.32	406.04	50.35 -3.467e+05
14	9 8.728e+04	80.36	-0.01	-8696.85	0.0	275.54	4096.40	0.45	475.60	-65.54 -2.256e+05
	-3.076e+05	-65.54	-6.71e-05	0.0	325.5	275.54	-4600.44	0.45	475.60	80.36 -3.076e+05
14	10 1.109e+05	55.30	-0.01	-1.150e+04	0.0	197.53	5377.27	0.37	472.06	-64.77 -2.967e+05
	-4.175e+05	-64.77	-4.82e-05	0.0	325.5	197.53	-6119.16	0.37	472.06	55.30 -4.175e+05
14	11 1.151e+05	74.41	-0.02	-1.150e+04	0.0	234.31	5400.93	0.44	527.48	-68.48 -2.961e+05
	-4.092e+05	-68.48	-6.11e-05	0.0	325.5	234.31	-6095.49	0.44	527.48	74.41 -4.092e+05
14	12 5.798e+04	68.41	-0.01	-5664.40	0.0	235.55	2678.69	0.36	359.63	-50.20 -1.475e+05
	-1.975e+05	-50.20	-5.68e-05	0.0	325.5	235.55	-2985.71	0.36	359.63	68.41 -1.975e+05
14	13 8.150e+04	43.34	-0.01	-8463.97	0.0	157.53	3959.56	0.28	356.09	-49.42 -2.187e+05
	-3.074e+05	-49.42	-3.79e-05	0.0	325.5	157.53	-4504.42	0.28	356.09	43.34 -3.074e+05
14	14 8.582e+04	62.46	-0.01	-8463.97	0.0	194.32	3983.22	0.36	411.51	-53.14 -2.181e+05
	-2.990e+05	-53.14	-5.08e-05	0.0	325.5	194.32	-4480.75	0.36	411.51	62.46 -2.990e+05
14	15 6.239e+04	47.40	-7.95e-03	-6553.15	0.0	185.67	3069.16	0.29	320.68	-47.42 -1.705e+05
	-2.381e+05	-47.42	-4.19e-05	0.0	325.5	185.67	-3483.99	0.29	320.68	47.40 -2.381e+05
14	16 6.383e+04	53.77	-8.97e-03	-6553.15	0.0	197.94	3077.05	0.31	339.15	-48.66 -1.703e+05
	-2.353e+05	-48.66	-4.63e-05	0.0	325.5	197.94	-3476.10	0.31	339.15	53.77 -2.353e+05
14	17 8.906e+04	41.74	-0.01	-9219.41	0.0	146.40	4311.57	0.28	370.09	-50.22 -2.377e+05
	-3.348e+05	-50.22	-3.63e-05	0.0	325.5	146.40	-4907.84	0.28	370.09	41.74 -3.348e+05
14	18 9.039e+04	48.11	-0.01	-9219.41	0.0	158.67	4319.46	0.31	388.57	-51.45 -2.375e+05
	-3.320e+05	-51.45	-4.06e-05	0.0	325.5	158.67	-4899.96	0.31	388.57	48.11 -3.320e+05
14	19 6.532e+04	60.15	-0.01	-6553.15	0.0	210.20	3084.94	0.34	357.63	-49.89 -1.701e+05
	-2.325e+05	-49.89	-5.06e-05	0.0	325.5	210.20	-3468.21	0.34	357.63	60.15 -2.325e+05
14	20 8.106e+04	43.44	-0.01	-8419.53	0.0	158.19	3938.85	0.29	355.27	-49.38 -2.176e+05
	-3.058e+05	-49.38	-3.80e-05	0.0	325.5	158.19	-4480.69	0.29	355.27	43.44 -3.058e+05
14	21 8.389e+04	56.18	-0.01	-8419.53	0.0	182.71	3954.62	0.33	392.22	-51.85 -2.172e+05
	-3.002e+05	-51.85	-4.66e-05	0.0	325.5	182.71	-4464.91	0.33	392.22	56.18 -3.002e+05
14	22 1.131e+05	588.41	-0.03	-8152.91	0.0	253.99	3781.44	11.51	-9363.82	-3156.61 -1.714e+05
	-2.675e+05	-3156.61	0.01	0.0	325.5	253.99	-4371.47	11.51	-9363.82	588.41 -2.675e+05
14	23 4.441e+04	3120.90	8.72e-03	-8152.91	0.0	102.86	3840.71	-11.34	9224.69	3120.90 -2.489e+05
	-3.257e+05	-571.34	0.01	0.0	325.5	102.86	-4312.20	-11.34	9224.69	-571.34 -3.257e+05
14	24 1.205e+06	518.72	0.24	-8152.91	0.0	-445.65	1.148e+04	2.84	8469.87	-406.97 -1.205e+06
	-1.205e+06	-406.97	1.99e-03	0.0	325.5	-445.65	3327.59	2.84	8469.87	518.72 1.205e+06
14	25 1.205e+06	351.31	-0.26	-8152.91	0.0	501.69	-3327.18	-2.28	-7655.18	351.31 1.205e+06
	-1.205e+06	-389.26	-2.01e-03	0.0	325.5	501.69	-1.148e+04	-2.28	-7655.18	-389.26 -1.205e+06
14	26 1.112e+05	644.78	-0.02	-8152.91	0.0	190.25	3785.13	10.96	-1.003e+04	-2922.50 -1.739e+05
	-2.687e+05	-2922.50	-0.01	0.0	325.5	190.25	-4367.77	10.96	-1.003e+04	644.78 -2.687e+05
14	27 4.614e+04	2910.66	7.93e-03	-8152.91	0.0	149.77	3837.29	-10.74	9975.92	2910.66 -2.467e+05
	-3.245e+05	-584.57	0.01	0.0	325.5	149.77	-4315.62	-10.74	9975.92	-584.57 -3.245e+05
14	28 1.030e+06	425.12	0.18	-8152.91	0.0	93.17	1.094e+04	2.42	5836.39	-361.55 -1.203e+06
	-1.203e+06	-361.55	-1.34e-04	0.0	325.5	93.17	2784.05	2.42	5836.39	425.12 1.030e+06
14	29 9.916e+05	287.52	-0.20	-8152.91	0.0	404.57	-2666.31	-1.82	-5149.91	287.52 9.916e+05
	-1.203e+06	-305.83	4.06e-05	0.0	325.5	404.57	-1.082e+04	-1.82	-5149.91	-305.83 -1.203e+06
14	30 1.139e+05	-26.91	-0.03	-8152.91	0.0	204.27	3772.10	7.79	-9290.11	-2561.15 -1.693e+05
	-2.684e+05	-2561.15	-0.01	0.0	325.5	204.27	-4380.81	7.79	-9290.11	-26.91 -2.684e+05
14	31 4.424e+04	2454.88	8.97e-03	-8152.91	0.0	179.39	3850.67	-7.56	9330.01	2454.88 -2.507e+05
	-3.242e+05	-6.83	0.01	0.0	325.5	179.39	-4302.24	-7.56	9330.01	-6.83 -3.242e+05
14	32 1.204e+06	426.05	0.24	-8152.91	0.0	-156.27	1.147e+04	2.31	8303.78	-326.53 -1.204e+06
	-1.204e+06	-326.53	1.98e-03	0.0	325.5	-156.27	3321.53	2.31	8303.78	426.05 1.204e+06

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14  33  1.204e+06    282.25      -0.25  -8152.91     0.0   425.35  -3321.42    -1.75  -7517.97    282.25  1.204e+06
        -1.204e+06  -286.98  -2.17e-03      0.0   325.5   425.35 -1.147e+04   -1.75  -7517.97   -286.98 -1.204e+06
14  34  1.139e+05    -26.91      -0.03  -8152.91     0.0   204.27   3772.10     7.79  -9290.11  -2561.15 -1.693e+05
        -2.684e+05  -2561.15      -0.01      0.0   325.5   204.27  -4380.81     7.79  -9290.11    -26.91 -2.684e+05
14  35  4.424e+04   2454.88   8.97e-03  -8152.91     0.0   179.39   3850.67    -7.56   9330.01   2454.88 -2.507e+05
        -3.242e+05     -6.83       0.01      0.0   325.5   179.39  -4302.24    -7.56   9330.01     -6.83 -3.242e+05
14  36  1.203e+06    389.13       0.20  -8152.91     0.0   306.37  1.147e+04    2.23   6396.82   -337.52 -1.203e+06
        -1.203e+06   -337.52   1.22e-04      0.0   325.5   306.37   3315.95     2.23   6396.82    389.13  1.203e+06
14  37  1.167e+06    263.03      -0.22  -8152.91     0.0   263.15  -3205.83    -1.60  -5603.00    263.03  1.167e+06
        -1.203e+06   -256.80  -1.94e-04      0.0   325.5   263.15 -1.136e+04   -1.60  -5603.00   -256.80 -1.203e+06
14  38  6.239e+04     47.40  -7.95e-03  -6553.15     0.0   185.67   3069.16     0.29    320.68    -47.42 -1.705e+05
        -2.381e+05    -47.42  -4.19e-05      0.0   325.5   185.67  -3483.99     0.29    320.68     47.40 -2.381e+05
14  39  8.106e+04     43.44      -0.01  -8419.53     0.0   158.19   3938.85     0.29    355.27    -49.38 -2.176e+05
        -3.058e+05    -49.38  -3.80e-05      0.0   325.5   158.19  -4480.69     0.29    355.27     43.44 -3.058e+05
14  40  6.293e+04     49.95  -8.31e-03  -6553.15     0.0   190.58   3072.32     0.30    328.07    -47.91 -1.705e+05
        -2.369e+05    -47.91  -4.37e-05      0.0   325.5   190.58  -3480.83     0.30    328.07     49.95 -2.369e+05
14  41  7.839e+04     44.00  -9.78e-03  -8152.91     0.0   162.11   3814.61     0.29    350.33    -49.10 -2.109e+05
        -2.961e+05    -49.10  -3.85e-05      0.0   325.5   162.11  -4338.30     0.29    350.33     44.00 -2.961e+05
14  42  7.892e+04     46.55      -0.01  -8152.91     0.0   167.02   3817.76     0.30    357.72    -49.59 -2.108e+05
        -2.950e+05    -49.59  -4.03e-05      0.0   325.5   167.02  -4335.15     0.30    357.72     46.55 -2.950e+05
14  43  6.239e+04     47.40  -7.95e-03  -6553.15     0.0   185.67   3069.16     0.29    320.68    -47.42 -1.705e+05
        -2.381e+05    -47.42  -4.19e-05      0.0   325.5   185.67  -3483.99     0.29    320.68     47.40 -2.381e+05
14  44  7.839e+04     44.00  -9.78e-03  -8152.91     0.0   162.11   3814.61     0.29    350.33    -49.10 -2.109e+05
        -2.961e+05    -49.10  -3.85e-05      0.0   325.5   162.11  -4338.30     0.29    350.33     44.00 -2.961e+05
14  45  6.239e+04     47.40  -7.95e-03  -6553.15     0.0   185.67   3069.16     0.29    320.68    -47.42 -1.705e+05
        -2.381e+05    -47.42  -4.19e-05      0.0   325.5   185.67  -3483.99     0.29    320.68     47.40 -2.381e+05
14  46  7.839e+04     44.00  -9.78e-03  -8152.91     0.0   162.11   3814.61     0.29    350.33    -49.10 -2.109e+05
        -2.961e+05    -49.10  -3.85e-05      0.0   325.5   162.11  -4338.30     0.29    350.33     44.00 -2.961e+05
15   1  2.805e+05     83.54      -0.06 -1.174e+04     0.0   352.11   6344.64    -0.35 -1.114e+04     83.54 -4.715e+05
        -4.715e+05    -69.96   5.81e-05      0.0   439.5   352.11  -5398.11    -0.35 -1.114e+04    -69.96 -2.635e+05
15   2  2.773e+05     98.65      -0.06 -1.174e+04     0.0   408.89   6299.01    -0.40 -1.173e+04     98.65 -4.635e+05
        -4.635e+05    -77.76   8.16e-05      0.0   439.5   408.89  -5443.74    -0.40 -1.173e+04    -77.76 -2.755e+05
15   3  4.099e+05     82.00      -0.08 -1.714e+04     0.0   275.80   9167.34    -0.38 -1.296e+04     82.00 -6.645e+05
        -6.645e+05    -83.50   4.17e-05      0.0   439.5   275.80  -7975.51    -0.38 -1.296e+04    -83.50 -4.026e+05
15   4  4.066e+05     97.11      -0.08 -1.714e+04     0.0   332.58   9121.71    -0.43 -1.355e+04     97.11 -6.565e+05
        -6.565e+05    -91.30   6.38e-05      0.0   439.5   332.58  -8021.14    -0.43 -1.355e+04    -91.30 -4.146e+05
15   5  1.826e+05     64.65      -0.04  -7648.24     0.0   290.42   4156.72    -0.26  -8103.78     64.65 -3.132e+05
        -3.132e+05    -50.34   4.93e-05      0.0   439.5   290.42  -3491.52    -0.26  -8103.78    -50.34 -1.671e+05
15   6  1.794e+05     79.77      -0.04  -7648.24     0.0   347.20   4111.09    -0.31  -8687.74     79.77 -3.052e+05
        -3.052e+05    -58.14   7.28e-05      0.0   439.5   347.20  -3537.15    -0.31  -8687.74    -58.14 -1.791e+05
15   7  3.120e+05     63.12      -0.06 -1.305e+04     0.0   214.11   6979.42    -0.29  -9926.02     63.12 -5.062e+05
        -5.062e+05    -63.88   3.25e-05      0.0   439.5   214.11  -6068.92    -0.29  -9926.02    -63.88 -3.061e+05
15   8  3.087e+05     78.23      -0.06 -1.305e+04     0.0   270.89   6933.80    -0.34 -1.051e+04     78.23 -4.982e+05
        -4.982e+05    -71.68   5.49e-05      0.0   439.5   270.89  -6114.55    -0.34 -1.051e+04    -71.68 -3.181e+05
15   9  2.740e+05    113.77      -0.06 -1.174e+04     0.0   465.67   6253.38    -0.45 -1.231e+04    113.77 -4.554e+05
        -4.554e+05    -85.56   1.05e-04      0.0   439.5   465.67  -5489.37    -0.45 -1.231e+04    -85.56 -2.876e+05
15  10  3.711e+05     82.46      -0.07 -1.552e+04     0.0   298.70   8320.53    -0.37 -1.242e+04     82.46 -6.066e+05
        -6.066e+05    -79.44   4.63e-05      0.0   439.5   298.70  -7202.29    -0.37 -1.242e+04    -79.44 -3.609e+05
15  11  3.651e+05    112.69      -0.07 -1.552e+04     0.0   412.26   8229.27    -0.47 -1.359e+04    112.69 -5.905e+05
        -5.905e+05    -95.04   9.27e-05      0.0   439.5   412.26  -7293.54    -0.47 -1.359e+04    -95.04 -3.849e+05
15  12  1.761e+05     94.88      -0.04  -7648.24     0.0   403.98   4065.46    -0.37  -9271.70     94.88 -2.971e+05
        -2.971e+05    -65.94   9.63e-05      0.0   439.5   403.98  -3582.78    -0.37  -9271.70    -65.94 -1.911e+05
15  13  2.732e+05     63.58      -0.05 -1.143e+04     0.0   237.01   6132.61    -0.28  -9379.35     63.58 -4.483e+05
        -4.483e+05    -59.82   3.71e-05      0.0   439.5   237.01  -5295.70    -0.28  -9379.35    -59.82 -2.644e+05
15  14  2.675e+05     93.81      -0.05 -1.143e+04     0.0   350.57   6041.36    -0.39 -1.055e+04     93.81 -4.322e+05
        -4.322e+05    -75.42   8.38e-05      0.0   439.5   350.57  -5386.96    -0.39 -1.055e+04    -75.42 -2.884e+05
15  15  2.113e+05     64.31      -0.04  -8848.26     0.0   273.47   4783.99    -0.27  -8508.72     64.31 -3.561e+05
        -3.561e+05    -53.35   4.53e-05      0.0   439.5   273.47  -4064.28    -0.27  -8508.72    -53.35 -1.980e+05
15  16  2.092e+05     74.39      -0.04  -8848.26     0.0   311.32   4753.57    -0.30  -8898.03     74.39 -3.508e+05
        -3.508e+05    -58.55   6.10e-05      0.0   439.5   311.32  -4094.70    -0.30  -8898.03    -58.55 -2.060e+05
15  17  2.976e+05     63.29      -0.06 -1.245e+04     0.0   222.59   6665.79    -0.29  -9723.55     63.29 -4.848e+05
        -4.848e+05    -62.38   3.42e-05      0.0   439.5   222.59  -5782.54    -0.29  -9723.55    -62.38 -2.907e+05
15  18  2.954e+05     73.36      -0.06 -1.245e+04     0.0   260.44   6635.37    -0.32 -1.011e+04     73.36 -4.794e+05
        -4.794e+05    -67.58   4.91e-05      0.0   439.5   260.44  -5812.96    -0.32 -1.011e+04    -67.58 -2.987e+05
15  19  2.070e+05     84.47      -0.04  -8848.26     0.0   349.17   4723.15    -0.34  -9287.34     84.47 -3.454e+05
        -3.454e+05    -63.75   7.67e-05      0.0   439.5   349.17  -4125.11    -0.34  -9287.34    -63.75 -2.140e+05
15  20  2.717e+05     63.59      -0.05 -1.137e+04     0.0   237.85   6101.25    -0.28  -9359.10     63.59 -4.462e+05
        -4.462e+05    -59.67   3.72e-05      0.0   439.5   237.85  -5267.06    -0.28  -9359.10    -59.67 -2.629e+05
15  21  2.674e+05     83.75      -0.05 -1.137e+04     0.0   313.56   6040.41    -0.35 -1.014e+04     83.75 -4.355e+05
        -4.355e+05    -70.07   6.83e-05      0.0   439.5   313.56  -5327.90    -0.35 -1.014e+04    -70.07 -2.789e+05
15  22  2.595e+05   2387.03       0.05 -1.101e+04     0.0    64.20   4859.00    10.69  1.317e+05  -2312.39 -2.118e+05
        -4.953e+05  -2312.39      -0.02      0.0   439.5    64.20  -6149.31    10.69  1.317e+05   2387.03 -4.953e+05
15  23  3.131e+05   2367.23      -0.10 -1.101e+04     0.0   452.62   6953.28   -10.97 -1.302e+05   2367.23 -6.519e+05
        -6.519e+05  -2455.16       0.02      0.0   439.5   452.62  -4055.02   -10.97 -1.302e+05  -2455.16 -1.504e+04
15  24  1.204e+06    -79.73       0.34 -1.101e+04     0.0   515.30  1.099e+04   -1.03 -1.578e+04    -79.73 -1.205e+06
        -1.205e+06   -532.44   2.49e-03      0.0   439.5   515.30    -22.82    -1.03 -1.578e+04   -532.44  1.204e+06
15  25  1.204e+06    444.64      -0.39 -1.101e+04     0.0  -481.47     23.13     0.47  -2710.15    240.24  1.204e+06
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        -1.205e+06     240.24 -2.17e-03      0.0    439.5  -481.47 -1.099e+04    0.47  -2710.15    444.64 -1.205e+06
15   26 2.584e+05     1920.40      0.05 -1.101e+04    0.0    33.97    4917.07    8.63  1.418e+05  -1870.52 -2.240e+05
        -4.821e+05   -1870.52     -0.02      0.0    439.5    33.97   -6091.23    8.63  1.418e+05   1920.40 -4.821e+05
15   27 3.096e+05     2006.99     -0.10 -1.101e+04    0.0   469.34    6898.67   -9.26 -1.370e+05   2006.99 -6.404e+05
        -6.404e+05   -2063.92      0.02      0.0    439.5   469.34   -4109.64   -9.26 -1.370e+05  -2063.92 -2.753e+04
15   28 1.021e+06     -153.51      0.24 -1.101e+04    0.0   349.17  1.056e+04   -0.30 -1.404e+04   -153.51 -1.203e+06
        -1.203e+06    -285.00 -3.76e-04      0.0    439.5   349.17    -450.42   -0.30 -1.404e+04   -285.00  1.018e+06
15   29 7.433e+05      322.34     -0.27 -1.101e+04    0.0   317.59    1130.47   -0.38  -4319.77    322.34  7.190e+05
        -1.203e+06     154.03  5.45e-04      0.0    439.5   317.59   -9877.83   -0.38  -4319.77    154.03 -1.203e+06
15   30 2.599e+05     1729.97      0.05 -1.101e+04    0.0    90.17    4835.66    8.10  1.296e+05  -1829.90 -2.069e+05
        -5.007e+05   -1829.90     -0.02      0.0    439.5    90.17   -6172.64    8.10  1.296e+05   1729.97 -5.007e+05
15   31 3.138e+05     1782.23     -0.10 -1.101e+04    0.0   443.67    6964.48   -7.92 -1.321e+05   1782.23 -6.543e+05
        -6.543e+05   -1697.54      0.02      0.0    439.5   443.67   -4043.83   -7.92 -1.321e+05  -1697.54 -1.250e+04
15   32 1.204e+06       15.13      0.33 -1.101e+04    0.0   565.02  1.098e+04   -0.74 -1.564e+04     15.13 -1.204e+06
        -1.204e+06    -311.12  2.79e-03      0.0    439.5   565.02     -26.16   -0.74 -1.564e+04   -311.12  1.204e+06
15   33 1.203e+06      167.80     -0.38 -1.101e+04    0.0  -260.06      26.30   -0.01  -2772.48    167.80  1.203e+06
        -1.204e+06     162.90 -2.67e-03      0.0    439.5  -260.06 -1.098e+04   -0.01  -2772.48    162.90 -1.204e+06
15   34 2.599e+05     1729.97      0.05 -1.101e+04    0.0    90.17    4835.66    8.10  1.296e+05  -1829.90 -2.069e+05
        -5.007e+05   -1829.90     -0.02      0.0    439.5    90.17   -6172.64    8.10  1.296e+05   1729.97 -5.007e+05
15   35 3.138e+05     1782.23     -0.10 -1.101e+04    0.0   443.67    6964.48   -7.92 -1.321e+05   1782.23 -6.543e+05
        -6.543e+05   -1697.54      0.02      0.0    439.5   443.67   -4043.83   -7.92 -1.321e+05  -1697.54 -1.250e+04
15   36 1.170e+06     -108.24      0.27 -1.101e+04    0.0   366.88  1.090e+04   -0.05 -1.447e+04   -108.24 -1.203e+06
        -1.203e+06    -131.07  1.76e-04      0.0    439.5   366.88    -105.14   -0.05 -1.447e+04   -131.07  1.170e+06
15   37 8.787e+05      274.89     -0.29 -1.101e+04    0.0   386.46     794.85   -0.63  -4036.53    274.89  8.663e+05
        -1.203e+06      -2.24 -7.05e-05      0.0    439.5   386.46 -1.021e+04   -0.63  -4036.53     -2.24 -1.203e+06
15   38 2.113e+05       64.31     -0.04  -8848.26    0.0   273.47    4783.99   -0.27  -8508.72     64.31 -3.561e+05
        -3.561e+05     -53.35  4.53e-05      0.0    439.5   273.47   -4064.28   -0.27  -8508.72    -53.35 -1.980e+05
15   39 2.717e+05       63.59     -0.05 -1.137e+04    0.0   237.85    6101.25   -0.28  -9359.10     63.59 -4.462e+05
        -4.462e+05     -59.67  3.72e-05      0.0    439.5   237.85   -5267.06   -0.28  -9359.10    -59.67 -2.629e+05
15   40 2.105e+05       68.34     -0.04  -8848.26    0.0   288.61    4771.82   -0.28  -8664.45     68.34 -3.540e+05
        -3.540e+05     -55.43  5.16e-05      0.0    439.5   288.61   -4076.44   -0.28  -8664.45    -55.43 -2.012e+05
15   41 2.631e+05       63.70     -0.05 -1.101e+04    0.0   242.94    5913.07   -0.28  -9237.62     63.70 -4.333e+05
        -4.333e+05     -58.77  3.83e-05      0.0    439.5   242.94   -5095.24   -0.28  -9237.62    -58.77 -2.536e+05
15   42 2.622e+05       67.73     -0.05 -1.101e+04    0.0   258.08    5900.90   -0.29  -9393.34     67.73 -4.312e+05
        -4.312e+05     -60.85  4.44e-05      0.0    439.5   258.08   -5107.40   -0.29  -9393.34    -60.85 -2.568e+05
15   43 2.113e+05       64.31     -0.04  -8848.26    0.0   273.47    4783.99   -0.27  -8508.72     64.31 -3.561e+05
        -3.561e+05     -53.35  4.53e-05      0.0    439.5   273.47   -4064.28   -0.27  -8508.72    -53.35 -1.980e+05
15   44 2.631e+05       63.70     -0.05 -1.101e+04    0.0   242.94    5913.07   -0.28  -9237.62     63.70 -4.333e+05
        -4.333e+05     -58.77  3.83e-05      0.0    439.5   242.94   -5095.24   -0.28  -9237.62    -58.77 -2.536e+05
15   45 2.113e+05       64.31     -0.04  -8848.26    0.0   273.47    4783.99   -0.27  -8508.72     64.31 -3.561e+05
        -3.561e+05     -53.35  4.53e-05      0.0    439.5   273.47   -4064.28   -0.27  -8508.72    -53.35 -1.980e+05
15   46 2.631e+05       63.70     -0.05 -1.101e+04    0.0   242.94    5913.07   -0.28  -9237.62     63.70 -4.333e+05
        -4.333e+05     -58.77  3.83e-05      0.0    439.5   242.94   -5095.24   -0.28  -9237.62    -58.77 -2.536e+05
16    1 1.685e+05      117.27     -0.05  -3777.64    0.0   312.81    1822.02    0.33  -6188.80    -97.29 -1.149e+05
        -1.580e+05     -97.29 -2.90e-04      0.0    645.8   312.81   -1955.62    0.33  -6188.80    117.27 -1.580e+05
16    2 1.696e+05      127.30     -0.05  -3777.64    0.0   314.69    1841.22    0.36  -6225.67   -107.91 -1.200e+05
        -1.507e+05    -107.91 -3.07e-04      0.0    645.8   314.69   -1936.42    0.36  -6225.67    127.30 -1.507e+05
16    3 1.720e+05      157.76     -0.06  -3777.64    0.0   335.70    1880.80    0.44  -9852.43   -128.08 -1.303e+05
        -1.355e+05    -128.08 -4.02e-04      0.0    645.8   335.70   -1896.84    0.44  -9852.43    157.76 -1.355e+05
16    4 1.732e+05      167.79     -0.07  -3777.64    0.0   337.58    1899.99    0.47  -9889.30   -138.69 -1.354e+05
        -1.354e+05    -138.69 -4.19e-04      0.0    645.8   337.58   -1877.64    0.47  -9889.30    167.79 -1.282e+05
16    5 1.287e+05       79.82     -0.04  -2905.88    0.0   234.75    1386.48    0.23  -3821.22    -66.95 -8.442e+04
        -1.273e+05     -66.95 -1.94e-04      0.0    645.8   234.75   -1519.39    0.23  -3821.22     79.82 -1.273e+05
16    6 1.298e+05       89.86     -0.04  -2905.88    0.0   236.63    1405.68    0.26  -3858.09    -77.56 -8.948e+04
        -1.200e+05     -77.56 -2.11e-04      0.0    645.8   236.63   -1500.20    0.26  -3858.09     89.86 -1.200e+05
16    7 1.322e+05      120.32     -0.05  -2905.88    0.0   257.65    1445.26    0.34  -7484.85    -97.73 -9.985e+04
        -1.048e+05     -97.73 -3.07e-04      0.0    645.8   257.65   -1460.61    0.34  -7484.85    120.32 -1.048e+05
16    8 1.334e+05      130.35     -0.05  -2905.88    0.0   259.53    1464.46    0.37  -7521.72   -108.35 -1.049e+05
        -1.049e+05    -108.35 -3.23e-04      0.0    645.8   259.53   -1441.42    0.37  -7521.72    130.35 -9.747e+04
16    9 1.707e+05      137.33     -0.06  -3777.64    0.0   316.57    1860.41    0.40  -6262.54   -118.52 -1.250e+05
        -1.434e+05    -118.52 -3.24e-04      0.0    645.8   316.57   -1917.23    0.40  -6262.54    137.33 -1.434e+05
16   10 1.710e+05      145.61     -0.06  -3777.64    0.0   328.83    1863.16    0.41  -8753.34   -118.84 -1.257e+05
        -1.423e+05    -118.84 -3.69e-04      0.0    645.8   328.83   -1914.47    0.41  -8753.34    145.61 -1.423e+05
16   11 1.732e+05      165.67     -0.07  -3777.64    0.0   332.60    1901.56    0.47  -8827.08   -140.07 -1.358e+05
        -1.358e+05    -140.07 -4.02e-04      0.0    645.8   332.60   -1876.08    0.47  -8827.08    165.67 -1.276e+05
16   12 1.310e+05       99.89     -0.04  -2905.88    0.0   238.51    1424.87    0.29  -3894.96    -88.17 -9.454e+04
        -1.127e+05     -88.17 -2.28e-04      0.0    645.8   238.51   -1481.00    0.29  -3894.96     99.89 -1.127e+05
16   13 1.312e+05      108.17     -0.04  -2905.88    0.0   250.78    1427.63    0.30  -6385.76    -88.50 -9.522e+04
        -1.116e+05     -88.50 -2.73e-04      0.0    645.8   250.78   -1478.25    0.30  -6385.76    108.17 -1.116e+05
16   14 1.334e+05      128.23     -0.05  -2905.88    0.0   254.54    1466.02    0.37  -6459.50   -109.72 -1.053e+05
        -1.053e+05    -109.72 -3.07e-04      0.0    645.8   254.54   -1439.86    0.37  -6459.50    128.23 -9.689e+04
16   15 1.295e+05       88.82     -0.04  -2905.88    0.0   239.84    1399.54    0.25  -4635.36    -73.79 -8.785e+04
        -1.223e+05     -73.79 -2.19e-04      0.0    645.8   239.84   -1506.33    0.25  -4635.36     88.82 -1.223e+05
16   16 1.302e+05       95.51     -0.04  -2905.88    0.0   241.09    1412.34    0.27  -4659.94    -80.86 -9.122e+04
        -1.174e+05     -80.86 -2.30e-04      0.0    645.8   241.09   -1493.53    0.27  -4659.94     95.51 -1.174e+05
16   17 1.318e+05      115.82     -0.05  -2905.88    0.0   255.10    1438.73    0.33  -7077.78    -94.31 -9.814e+04
        -1.073e+05     -94.31 -2.94e-04      0.0    645.8   255.10   -1467.15    0.33  -7077.78    115.82 -1.073e+05
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16   18 1.326e+05     122.50      -0.05   -2905.88    0.0    256.36    1451.53    0.35   -7102.36    -101.39 -1.015e+05
        -1.024e+05   -101.39   -3.05e-04      0.0   645.8    256.36   -1454.35    0.35   -7102.36     122.50 -1.024e+05
16   19 1.310e+05     102.20      -0.04   -2905.88    0.0    242.35    1425.14    0.29   -4684.52     -87.94 -9.459e+04
        -1.125e+05    -87.94   -2.42e-04      0.0   645.8    242.35   -1480.74    0.29   -4684.52     102.20 -1.125e+05
16   20 1.311e+05     107.72      -0.04   -2905.88    0.0    250.52    1426.97    0.30   -6345.06     -88.16 -9.505e+04
        -1.118e+05    -88.16   -2.72e-04      0.0   645.8    250.52   -1478.90    0.30   -6345.06     107.72 -1.118e+05
16   21 1.326e+05     121.09      -0.05   -2905.88    0.0    253.03    1452.57    0.35   -6394.22    -102.30 -1.018e+05
        -1.020e+05   -102.30   -2.94e-04      0.0   645.8    253.03   -1453.31    0.35   -6394.22     121.09 -1.020e+05
16   22 1.475e+06    1801.12       0.17   -2905.88    0.0   -592.21    6021.64    7.05 -1.122e+04   -2748.39 -1.476e+06
        -1.476e+06  -2748.39      -0.03      0.0   645.8   -592.21    3115.77    7.05 -1.122e+04    1801.12 1.475e+06
16   23 1.476e+06    2558.99      -0.22   -2905.88    0.0    732.08   -3115.62   -6.42   -1017.57    2558.99 1.476e+06
        -1.475e+06  -1584.55       0.03      0.0   645.8    732.08   -6021.49   -6.42   -1017.57   -1584.55 -1.475e+06
16   24 1.796e+05    2542.25       0.11   -2905.88    0.0   1859.28     843.51   -8.41   9888.53    2542.25 1.010e+05
        -2.926e+05  -2890.75       0.01      0.0   645.8   1859.28   -2062.36   -8.41   9888.53   -2890.75 -2.926e+05
16   25 1.481e+05    2979.84      -0.15   -2905.88    0.0  -1315.72    1941.17    8.68   -8515.10   -2626.73 -2.702e+05
        -2.702e+05  -2626.73      -0.01      0.0   645.8  -1315.72    -964.70    8.68   -8515.10    2979.84 4.506e+04
16   26 1.458e+06    1738.32       0.16   -2905.88    0.0   -704.14    5994.52    6.71 -1.081e+04   -2597.51 -1.475e+06
        -1.475e+06  -2597.51      -0.03      0.0   645.8   -704.14    3088.64    6.71 -1.081e+04    1738.32 1.458e+06
16   27 1.475e+06    2375.12      -0.21   -2905.88    0.0    916.50   -3114.20   -6.01   -1434.33    2375.12 1.475e+06
        -1.474e+06  -1506.82       0.02      0.0   645.8    916.50   -6020.08   -6.01   -1434.33   -1506.82 -1.474e+06
16   28 1.564e+05    1531.30       0.06   -2905.88    0.0   1293.24    1037.85   -5.12 1.276e+04    1531.30 3.699e+04
        -2.311e+05  -1774.79    6.39e-03      0.0   645.8   1293.24   -1868.03   -5.12 1.276e+04   -1774.79 -2.311e+05
16   29 1.375e+05    1935.74      -0.11   -2905.88    0.0   -806.17    1802.72    5.60   -9947.50   -1678.27 -2.235e+05
        -2.235e+05  -1678.27   -6.73e-03      0.0   645.8   -806.17   -1103.15    5.60   -9947.50    1935.74    2348.07
16   30 1.474e+06    1596.08       0.17   -2905.88    0.0     33.04    6020.65    6.36 -1.137e+04   -2508.96 -1.475e+06
        -1.475e+06  -2508.96      -0.03      0.0   645.8     33.04    3114.78    6.36 -1.137e+04    1596.08 1.474e+06
16   31 1.475e+06    2385.49      -0.22   -2905.88    0.0    -69.90   -3114.65   -5.86   -812.07    2385.49 1.475e+06
        -1.474e+06  -1400.40       0.02      0.0   645.8    -69.90   -6020.52   -5.86   -812.07   -1400.40 -1.474e+06
16   32 1.777e+05    1597.02       0.11   -2905.88    0.0   1401.45     859.31   -5.29 1.103e+04    1597.02 9.593e+04
        -2.874e+05  -1816.31       0.01      0.0   645.8   1401.45   -2046.57   -5.29 1.103e+04   -1816.31 -2.874e+05
16   33 1.469e+05    1763.83      -0.14   -2905.88    0.0   -824.46    1930.11    5.15   -8146.22   -1561.12 -2.665e+05
        -2.665e+05  -1561.12      -0.01      0.0   645.8   -824.46    -975.77    5.15   -8146.22    1763.83 4.166e+04
16   34 1.474e+06    1596.08       0.17   -2905.88    0.0     33.04    6020.65    6.36 -1.137e+04   -2508.96 -1.475e+06
        -1.475e+06  -2508.96      -0.03      0.0   645.8     33.04    3114.78    6.36 -1.137e+04    1596.08 1.474e+06
16   35 1.475e+06    2385.49      -0.22   -2905.88    0.0    -69.90   -3114.65   -5.86   -812.07    2385.49 1.475e+06
        -1.474e+06  -1400.40       0.02      0.0   645.8    -69.90   -6020.52   -5.86   -812.07   -1400.40 -1.474e+06
16   36 1.598e+05     950.82       0.07   -2905.88    0.0   1046.08    1002.53   -3.20 1.327e+04     950.82 4.899e+04
        -2.419e+05  -1113.00    4.74e-03      0.0   645.8   1046.08   -1903.35   -3.20 1.327e+04   -1113.00 -2.419e+05
16   37 1.385e+05    1236.08      -0.12   -2905.88    0.0   -545.62    1822.45    3.57   -6114.32   -1066.08 -2.305e+05
        -2.305e+05  -1066.08   -4.90e-03      0.0   645.8   -545.62   -1083.42    3.57   -6114.32    1236.08    8082.53
16   38 1.295e+05      88.82      -0.04   -2905.88    0.0    239.84    1399.54    0.25   -4635.36     -73.79 -8.785e+04
        -1.223e+05    -73.79   -2.19e-04      0.0   645.8    239.84   -1506.33    0.25   -4635.36      88.82 -1.223e+05
16   39 1.311e+05     107.72      -0.04   -2905.88    0.0    250.52    1426.97    0.30   -6345.06     -88.16 -9.505e+04
        -1.118e+05    -88.16   -2.72e-04      0.0   645.8    250.52   -1478.90    0.30   -6345.06     107.72 -1.118e+05
16   40 1.298e+05      91.50      -0.04   -2905.88    0.0    240.34    1404.66    0.26   -4645.19     -76.62 -8.920e+04
        -1.204e+05    -76.62   -2.24e-04      0.0   645.8    240.34   -1501.21    0.26   -4645.19      91.50 -1.204e+05
16   41 1.309e+05     105.02      -0.04   -2905.88    0.0    249.00    1423.06    0.30   -6100.81     -86.10 -9.402e+04
        -1.133e+05    -86.10   -2.64e-04      0.0   645.8    249.00   -1482.82    0.30   -6100.81     105.02 -1.133e+05
16   42 1.312e+05     107.69      -0.04   -2905.88    0.0    249.50    1428.17    0.30   -6110.65     -88.93 -9.537e+04
        -1.114e+05    -88.93   -2.69e-04      0.0   645.8    249.50   -1477.70    0.30   -6110.65     107.69 -1.114e+05
16   43 1.295e+05      88.82      -0.04   -2905.88    0.0    239.84    1399.54    0.25   -4635.36     -73.79 -8.785e+04
        -1.223e+05    -73.79   -2.19e-04      0.0   645.8    239.84   -1506.33    0.25   -4635.36      88.82 -1.223e+05
16   44 1.309e+05     105.02      -0.04   -2905.88    0.0    249.00    1423.06    0.30   -6100.81     -86.10 -9.402e+04
        -1.133e+05    -86.10   -2.64e-04      0.0   645.8    249.00   -1482.82    0.30   -6100.81     105.02 -1.133e+05
16   45 1.295e+05      88.82      -0.04   -2905.88    0.0    239.84    1399.54    0.25   -4635.36     -73.79 -8.785e+04
        -1.223e+05    -73.79   -2.19e-04      0.0   645.8    239.84   -1506.33    0.25   -4635.36      88.82 -1.223e+05
16   46 1.309e+05     105.02      -0.04   -2905.88    0.0    249.00    1423.06    0.30   -6100.81     -86.10 -9.402e+04
        -1.133e+05    -86.10   -2.64e-04      0.0   645.8    249.00   -1482.82    0.30   -6100.81     105.02 -1.133e+05
17    1 -5.424e+04     27.84    4.48e-03   -1880.78    0.0     62.04     935.40    0.02   -362.30      20.09 -1.290e+05
        -1.306e+05     20.09   -9.71e-06      0.0   321.5     62.04    -945.38    0.02   -362.30      27.84 -1.306e+05
17    2 -5.212e+04     27.76    4.29e-03   -1880.78    0.0     48.11     935.85    0.02   -360.96      20.08 -1.270e+05
        -1.284e+05     20.08   -1.01e-05      0.0   321.5     48.11    -944.93    0.02   -360.96      27.76 -1.284e+05
17    3 -4.762e+04     41.40    3.88e-03   -1880.78    0.0     42.24     936.93    0.04   -581.05      29.27 -1.226e+05
        -1.238e+05     29.27   -1.42e-05      0.0   321.5     42.24    -943.85    0.04   -581.05      41.40 -1.238e+05
17    4 -4.551e+04     41.31    3.69e-03   -1880.78    0.0     28.32     937.38    0.04   -579.71      29.26 -1.206e+05
        -1.216e+05     29.26   -1.46e-05      0.0   321.5     28.32    -943.40    0.04   -579.71      41.31 -1.216e+05
17    5 -4.342e+04     17.94    3.60e-03   -1446.75    0.0     52.80     719.14    0.02   -222.60      13.10 -1.009e+05
        -1.022e+05     13.10   -6.31e-06      0.0   321.5     52.80    -727.61    0.02   -222.60      17.94 -1.022e+05
17    6 -4.130e+04     17.86    3.41e-03   -1446.75    0.0     38.87     719.59    0.01   -221.26      13.09 -9.883e+04
        -1.001e+05     13.09   -6.70e-06      0.0   321.5     38.87    -727.16    0.01   -221.26      17.86 -1.001e+05
17    7 -3.680e+04     31.49    3.00e-03   -1446.75    0.0     33.00     720.67    0.03   -441.35      22.28 -9.451e+04
        -9.538e+04     22.28   -1.08e-05      0.0   321.5     33.00    -726.08    0.03   -441.35      31.49 -9.538e+04
17    8 -3.469e+04     31.41    2.81e-03   -1446.75    0.0     19.07     721.13    0.03   -440.01      22.27 -9.247e+04
        -9.319e+04     22.27   -1.12e-05      0.0   321.5     19.07    -725.62    0.03   -440.01      31.41 -9.319e+04
17    9 -5.001e+04     27.67    4.10e-03   -1880.78    0.0     34.18     936.30    0.02   -359.62      20.06 -1.249e+05
        -1.262e+05     20.06   -1.05e-05      0.0   321.5     34.18    -944.48    0.02   -359.62      27.67 -1.262e+05
17   10 -4.961e+04     37.33    4.06e-03   -1880.78    0.0     48.18     936.47    0.03   -515.42      26.52 -1.246e+05
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		-1.258e+05	26.52	-1.29e-05	0.0	321.5	48.18	-944.31	0.03	-515.42	37.33 -1.258e+05
17	11	-4.537e+04	37.15	3.68e-03	-1880.78	0.0	20.32	937.37	0.03	-512.75	26.49 -1.205e+05
		-1.214e+05	26.49	-1.36e-05	0.0	321.5	20.32	-943.41	0.03	-512.75	37.15 -1.214e+05
17	12	-3.919e+04	17.77	3.22e-03	-1446.75	0.0	24.94	720.04	0.01	-219.92	13.07 -9.679e+04
		-9.786e+04	13.07	-7.10e-06	0.0	321.5	24.94	-726.71	0.01	-219.92	17.77 -9.786e+04
17	13	-3.879e+04	27.43	3.18e-03	-1446.75	0.0	38.94	720.21	0.02	-375.73	19.53 -9.642e+04
		-9.744e+04	19.53	-9.46e-06	0.0	321.5	38.94	-726.54	0.02	-375.73	27.43 -9.744e+04
17	14	-3.455e+04	27.25	2.80e-03	-1446.75	0.0	11.08	721.12	0.02	-373.05	19.50 -9.233e+04
		-9.306e+04	19.50	-1.02e-05	0.0	321.5	11.08	-725.63	0.02	-373.05	27.25 -9.306e+04
17	15	-4.195e+04	20.96	3.47e-03	-1446.75	0.0	48.40	719.48	0.02	-271.21	15.14 -9.946e+04
		-1.007e+05	15.14	-7.31e-06	0.0	321.5	48.40	-727.27	0.02	-271.21	20.96 -1.007e+05
17	16	-4.054e+04	20.90	3.34e-03	-1446.75	0.0	39.11	719.78	0.02	-270.32	15.13 -9.810e+04
		-9.926e+04	15.13	-7.56e-06	0.0	321.5	39.11	-726.97	0.02	-270.32	20.90 -9.926e+04
17	17	-3.754e+04	29.99	3.07e-03	-1446.75	0.0	35.20	720.50	0.03	-417.05	21.26 -9.522e+04
		-9.614e+04	21.26	-1.03e-05	0.0	321.5	35.20	-726.25	0.03	-417.05	29.99 -9.614e+04
17	18	-3.613e+04	29.93	2.94e-03	-1446.75	0.0	25.92	720.80	0.03	-416.15	21.25 -9.385e+04
		-9.468e+04	21.25	-1.05e-05	0.0	321.5	25.92	-725.95	0.03	-416.15	29.93 -9.468e+04
17	19	-3.913e+04	20.84	3.21e-03	-1446.75	0.0	29.82	720.08	0.02	-269.43	15.12 -9.674e+04
		-9.780e+04	15.12	-7.83e-06	0.0	321.5	29.82	-726.67	0.02	-269.43	20.84 -9.780e+04
17	20	-3.886e+04	27.28	3.19e-03	-1446.75	0.0	39.16	720.20	0.02	-373.30	19.43 -9.649e+04
		-9.751e+04	19.43	-9.41e-06	0.0	321.5	39.16	-726.55	0.02	-373.30	27.28 -9.751e+04
17	21	-3.604e+04	27.16	2.93e-03	-1446.75	0.0	20.59	720.80	0.02	-371.51	19.40 -9.377e+04
		-9.459e+04	19.40	-9.92e-06	0.0	321.5	20.59	-725.95	0.02	-371.51	27.16 -9.459e+04
17	22	1.475e+06	2588.35	0.09	-1446.75	0.0	34.60	9900.41	15.92	-7936.95	-2530.77 -1.475e+06
		-1.475e+06	-2530.77	-0.01	0.0	321.5	34.60	8453.66	15.92	-7936.95	2588.35 1.475e+06
17	23	1.475e+06	2586.07	-0.09	-1446.75	0.0	58.29	-8453.66	-15.89	7213.02	2586.07 1.475e+06
		-1.475e+06	-2521.31	0.01	0.0	321.5	58.29	-9900.41	-15.89	7213.02	-2521.31 -1.475e+06
17	24	-1.442e+05	-713.11	0.01	-1446.75	0.0	2759.49	736.51	-1.77	1453.33	-713.11 -2.044e+05
		-2.044e+05	-1281.28	3.38e-03	0.0	321.5	2759.49	-710.24	-1.77	1453.33	-1281.28 -2.002e+05
17	25	5.575e+04	1271.46	-4.63e-03	-1446.75	0.0	-2596.19	704.08	1.76	-1451.01	705.59 706.39
		-5496.36	705.59	-3.32e-03	0.0	321.5	-2596.19	-742.67	1.76	-1451.01	1271.46 -5496.36
17	26	1.474e+06	2462.43	0.09	-1446.75	0.0	56.17	9896.06	15.13	-8104.07	-2401.36 -1.475e+06
		-1.475e+06	-2401.36	-0.01	0.0	321.5	56.17	8449.31	15.13	-8104.07	2462.43 1.474e+06
17	27	1.474e+06	2459.14	-0.09	-1446.75	0.0	81.62	-8449.28	-15.09	7384.46	2459.14 1.474e+06
		-1.475e+06	-2392.14	0.01	0.0	321.5	81.62	-9896.03	-15.09	7384.46	-2392.14 -1.475e+06
17	28	-1.087e+05	-522.72	8.81e-03	-1446.75	0.0	1810.53	715.49	-0.72	635.36	-522.72 -1.655e+05
		-1.681e+05	-754.91	7.98e-04	0.0	321.5	1810.53	-731.26	-0.72	635.36	-754.91 -1.681e+05
17	29	2.932e+04	776.58	-2.32e-03	-1446.75	0.0	-1733.51	724.94	0.76	-776.85	531.64 -2.907e+04
		-2.907e+04	531.64	-8.10e-04	0.0	321.5	-1733.51	-721.81	0.76	-776.85	776.58 -2.857e+04
17	30	1.475e+06	2174.85	0.09	-1446.75	0.0	-33.86	9897.27	13.34	-8055.57	-2113.25 -1.475e+06
		-1.475e+06	-2113.25	-0.01	0.0	321.5	-33.86	8450.52	13.34	-8055.57	2174.85 1.475e+06
17	31	1.475e+06	2170.26	-0.09	-1446.75	0.0	-23.92	-8450.51	-13.30	7327.43	2170.26 1.475e+06
		-1.475e+06	-2105.87	0.01	0.0	321.5	-23.92	-9897.26	-13.30	7327.43	-2105.87 -1.475e+06
17	32	-1.414e+05	-387.17	0.01	-1446.75	0.0	1820.36	733.41	-1.35	1399.36	-387.17 -2.011e+05
		-2.011e+05	-820.05	3.04e-03	0.0	321.5	1820.36	-713.34	-1.35	1399.36	-820.05 -1.979e+05
17	33	5.377e+04	748.35	-4.47e-03	-1446.75	0.0	-1577.21	704.19	1.25	-1428.98	347.06 -1283.52
		-7450.27	347.06	-3.09e-03	0.0	321.5	-1577.21	-742.56	1.25	-1428.98	748.35 -7450.27
17	34	1.475e+06	2174.85	0.09	-1446.75	0.0	-33.86	9897.27	13.34	-8055.57	-2113.25 -1.475e+06
		-1.475e+06	-2113.25	-0.01	0.0	321.5	-33.86	8450.52	13.34	-8055.57	2174.85 1.475e+06
17	35	1.475e+06	2170.26	-0.09	-1446.75	0.0	-23.92	-8450.51	-13.30	7327.43	2170.26 1.475e+06
		-1.475e+06	-2105.87	0.01	0.0	321.5	-23.92	-9897.26	-13.30	7327.43	-2105.87 -1.475e+06
17	36	-1.151e+05	-304.93	9.33e-03	-1446.75	0.0	1262.19	716.34	-0.51	719.47	-304.93 -1.721e+05
		-1.744e+05	-469.69	8.77e-04	0.0	321.5	1262.19	-730.41	-0.51	719.47	-469.69 -1.744e+05
17	37	3.311e+04	475.37	-2.62e-03	-1446.75	0.0	-1160.98	723.41	0.52	-452.40	308.58 -2.504e+04
		-2.504e+04	308.58	-8.43e-04	0.0	321.5	-1160.98	-723.34	0.52	-452.40	475.37 -2.503e+04
17	38	-4.195e+04	20.96	3.47e-03	-1446.75	0.0	48.40	719.48	0.02	-271.21	15.14 -9.946e+04
		-1.007e+05	15.14	-7.31e-06	0.0	321.5	48.40	-727.27	0.02	-271.21	20.96 -1.007e+05
17	39	-3.886e+04	27.28	3.19e-03	-1446.75	0.0	39.16	720.20	0.02	-373.30	19.43 -9.649e+04
		-9.751e+04	19.43	-9.41e-06	0.0	321.5	39.16	-726.55	0.02	-373.30	27.28 -9.751e+04
17	40	-4.138e+04	20.93	3.42e-03	-1446.75	0.0	44.68	719.60	0.02	-270.86	15.14 -9.892e+04
		-1.001e+05	15.14	-7.41e-06	0.0	321.5	44.68	-727.15	0.02	-270.86	20.93 -1.001e+05
17	41	-3.930e+04	26.38	3.23e-03	-1446.75	0.0	40.48	720.10	0.02	-358.71	18.81 -9.692e+04
		-9.797e+04	18.81	-9.11e-06	0.0	321.5	40.48	-726.65	0.02	-358.71	26.38 -9.797e+04
17	42	-3.874e+04	26.35	3.18e-03	-1446.75	0.0	36.77	720.22	0.02	-358.36	18.81 -9.637e+04
		-9.739e+04	18.81	-9.21e-06	0.0	321.5	36.77	-726.53	0.02	-358.36	26.35 -9.739e+04
17	43	-4.195e+04	20.96	3.47e-03	-1446.75	0.0	48.40	719.48	0.02	-271.21	15.14 -9.946e+04
		-1.007e+05	15.14	-7.31e-06	0.0	321.5	48.40	-727.27	0.02	-271.21	20.96 -1.007e+05
17	44	-3.930e+04	26.38	3.23e-03	-1446.75	0.0	40.48	720.10	0.02	-358.71	18.81 -9.692e+04
		-9.797e+04	18.81	-9.11e-06	0.0	321.5	40.48	-726.65	0.02	-358.71	26.38 -9.797e+04
17	45	-4.195e+04	20.96	3.47e-03	-1446.75	0.0	48.40	719.48	0.02	-271.21	15.14 -9.946e+04
		-1.007e+05	15.14	-7.31e-06	0.0	321.5	48.40	-727.27	0.02	-271.21	20.96 -1.007e+05
17	46	-3.930e+04	26.38	3.23e-03	-1446.75	0.0	40.48	720.10	0.02	-358.71	18.81 -9.692e+04
		-9.797e+04	18.81	-9.11e-06	0.0	321.5	40.48	-726.65	0.02	-358.71	26.38 -9.797e+04
18	1	1.710e+05	117.12	-0.03	-3809.81	0.0	318.28	1971.84	-0.33	6270.90	117.12 -1.609e+05
		-1.609e+05	-95.97	2.85e-04	0.0	651.2	318.28	-1837.97	-0.33	6270.90	-95.97 -1.173e+05
18	2	1.722e+05	126.55	0.03	-3809.81	0.0	320.39	1952.47	-0.36	6306.54	126.55 -1.534e+05
		-1.534e+05	-106.08	2.98e-04	0.0	651.2	320.39	-1857.34	-0.36	6306.54	-106.08 -1.224e+05

18	3	1.747e+05	158.65	0.04	-3809.81	0.0	341.64	1912.50	-0.44	9982.44	158.65 -1.379e+05
		-1.379e+05	-127.04	3.98e-04	0.0	651.2	341.64	-1897.31	-0.44	9982.44	-127.04 -1.330e+05
18	4	1.759e+05	168.08	0.05	-3809.81	0.0	343.75	1893.13	-0.47	1.002e+04	168.08 -1.304e+05
		-1.381e+05	-137.16	4.11e-04	0.0	651.2	343.75	-1916.68	-0.47	1.002e+04	-137.16 -1.381e+05
18	5	1.306e+05	79.44	-0.02	-2930.62	0.0	238.84	1532.02	-0.22	3872.09	79.44 -1.297e+05
		-1.297e+05	-65.85	1.90e-04	0.0	651.2	238.84	-1398.61	-0.22	3872.09	-65.85 -8.621e+04
18	6	1.318e+05	88.87	0.02	-2930.62	0.0	240.95	1512.65	-0.25	3907.74	88.87 -1.222e+05
		-1.222e+05	-75.97	2.03e-04	0.0	651.2	240.95	-1417.98	-0.25	3907.74	-75.97 -9.135e+04
18	7	1.343e+05	120.98	0.03	-2930.62	0.0	262.20	1472.68	-0.33	7583.63	120.98 -1.067e+05
		-1.067e+05	-96.93	3.03e-04	0.0	651.2	262.20	-1457.95	-0.33	7583.63	-96.93 -1.019e+05
18	8	1.355e+05	130.41	0.04	-2930.62	0.0	264.31	1453.31	-0.36	7619.28	130.41 -9.921e+04
		-1.070e+05	-107.04	3.16e-04	0.0	651.2	264.31	-1477.32	-0.36	7619.28	-107.04 -1.070e+05
18	9	1.734e+05	135.98	0.04	-3809.81	0.0	322.50	1933.10	-0.39	6342.19	135.98 -1.459e+05
		-1.459e+05	-116.20	3.11e-04	0.0	651.2	322.50	-1876.71	-0.39	6342.19	-116.20 -1.276e+05
18	10	1.736e+05	146.19	0.04	-3809.81	0.0	334.63	1930.30	-0.41	8868.98	146.19 -1.448e+05
		-1.448e+05	-117.72	3.64e-04	0.0	651.2	334.63	-1879.51	-0.41	8868.98	-117.72 -1.283e+05
18	11	1.759e+05	165.05	0.05	-3809.81	0.0	338.85	1891.56	-0.47	8940.27	165.05 -1.299e+05
		-1.386e+05	-137.95	3.90e-04	0.0	651.2	338.85	-1918.25	-0.47	8940.27	-137.95 -1.386e+05
18	12	1.330e+05	98.30	0.03	-2930.62	0.0	243.06	1493.28	-0.28	3943.38	98.30 -1.147e+05
		-1.147e+05	-86.08	2.16e-04	0.0	651.2	243.06	-1437.35	-0.28	3943.38	-86.08 -9.649e+04
18	13	1.332e+05	108.51	0.03	-2930.62	0.0	255.19	1490.48	-0.30	6470.17	108.51 -1.136e+05
		-1.136e+05	-87.60	2.69e-04	0.0	651.2	255.19	-1440.15	-0.30	6470.17	-87.60 -9.719e+04
18	14	1.355e+05	127.38	0.04	-2930.62	0.0	259.41	1451.74	-0.36	6541.46	127.38 -9.862e+04
		-1.075e+05	-107.84	2.95e-04	0.0	651.2	259.41	-1478.89	-0.36	6541.46	-107.84 -1.075e+05
18	15	1.314e+05	88.67	-0.02	-2930.62	0.0	244.03	1518.83	-0.25	4696.88	88.67 -1.246e+05
		-1.246e+05	-72.76	2.15e-04	0.0	651.2	244.03	-1411.80	-0.25	4696.88	-72.76 -8.970e+04
18	16	1.322e+05	94.96	0.02	-2930.62	0.0	245.44	1505.92	-0.27	4720.64	94.96 -1.196e+05
		-1.196e+05	-79.50	2.24e-04	0.0	651.2	245.44	-1424.71	-0.27	4720.64	-79.50 -9.312e+04
18	17	1.339e+05	116.36	0.03	-2930.62	0.0	259.61	1479.27	-0.32	7171.24	116.36 -1.092e+05
		-1.092e+05	-93.47	2.90e-04	0.0	651.2	259.61	-1451.35	-0.32	7171.24	-93.47 -1.001e+05
18	18	1.347e+05	122.65	0.03	-2930.62	0.0	261.01	1466.36	-0.34	7195.00	122.65 -1.043e+05
		-1.043e+05	-100.22	2.99e-04	0.0	651.2	261.01	-1464.27	-0.34	7195.00	-100.22 -1.036e+05
18	19	1.330e+05	101.25	0.03	-2930.62	0.0	246.84	1493.00	-0.29	4744.41	101.25 -1.146e+05
		-1.146e+05	-86.25	2.33e-04	0.0	651.2	246.84	-1437.62	-0.29	4744.41	-86.25 -9.655e+04
18	20	1.332e+05	108.05	0.03	-2930.62	0.0	254.93	1491.14	-0.30	6428.93	108.05 -1.138e+05
		-1.138e+05	-87.26	2.68e-04	0.0	651.2	254.93	-1439.49	-0.30	6428.93	-87.26 -9.701e+04
18	21	1.347e+05	120.63	0.03	-2930.62	0.0	257.75	1465.31	-0.34	6476.46	120.63 -1.039e+05
		-1.039e+05	-100.75	2.85e-04	0.0	651.2	257.75	-1465.31	-0.34	6476.46	-100.75 -1.039e+05
18	22	1.476e+06	2535.81	0.22	-2930.62	0.0	726.52	5995.27	6.30	1148.26	-1567.06 -1.475e+06
		-1.475e+06	-1567.06	-0.03	0.0	651.2	726.52	3064.65	6.30	1148.26	2535.81 1.476e+06
18	23	1.475e+06	1784.63	-0.17	-2930.62	0.0	-585.56	-3064.79	-6.92	1.124e+04	1784.63 1.475e+06
		-1.476e+06	-2723.32	0.03	0.0	651.2	-585.56	-5995.42	-6.92	1.124e+04	-2723.32 -1.476e+06
18	24	1.866e+05	2234.35	-0.11	-2930.62	0.0	1887.65	2103.30	7.58	-7503.13	-2703.99 -3.041e+05
		-3.041e+05	-2703.99	-1.22e-03	0.0	651.2	1887.65	-827.33	7.58	-7503.13	2234.35 1.114e+05
18	25	1.522e+05	2786.09	0.14	-2930.62	0.0	-1334.05	948.28	-7.83	5984.63	2786.09 5.242e+04
		-2.843e+05	-2313.19	1.47e-03	0.0	651.2	-1334.05	-1982.35	-7.83	5984.63	-2313.19 -2.843e+05
18	26	1.475e+06	2353.90	0.21	-2930.62	0.0	909.31	5993.88	5.90	1566.40	-1490.27 -1.474e+06
		-1.474e+06	-1490.27	-0.03	0.0	651.2	909.31	3063.26	5.90	1566.40	2353.90 1.475e+06
18	27	1.460e+06	1722.47	-0.16	-2930.62	0.0	-697.74	-3041.17	-6.60	1.084e+04	1722.47 1.460e+06
		-1.475e+06	-2573.38	0.03	0.0	651.2	-697.74	-5971.79	-6.60	1.084e+04	-2573.38 -1.475e+06
18	28	1.592e+05	1495.13	-0.07	-2930.62	0.0	1314.86	1888.81	5.04	-1.201e+04	-1786.96 -2.368e+05
		-2.368e+05	-1786.96	-3.53e-03	0.0	651.2	1314.86	-1041.81	5.04	-1.201e+04	1495.13 3.899e+04
18	29	1.402e+05	1947.90	0.11	-2930.62	0.0	-819.34	1106.62	-5.51	9580.49	1947.90 4111.74
		-2.295e+05	-1640.39	3.85e-03	0.0	651.2	-819.34	-1824.01	-5.51	9580.49	-1640.39 -2.295e+05
18	30	1.475e+06	2368.23	0.22	-2930.62	0.0	-72.33	5994.32	5.77	938.81	-1387.25 -1.474e+06
		-1.474e+06	-1387.25	-0.02	0.0	651.2	-72.33	3063.70	5.77	938.81	2368.23 1.475e+06
18	31	1.474e+06	1583.11	-0.17	-2930.62	0.0	34.58	-3063.82	-6.25	1.138e+04	1583.11 1.474e+06
		-1.475e+06	-2488.19	0.03	0.0	651.2	34.58	-5994.45	-6.25	1.138e+04	-2488.19 -1.475e+06
18	32	1.842e+05	1304.84	-0.11	-2930.62	0.0	1421.99	2085.42	4.49	-8632.48	-1618.63 -2.984e+05
		-2.984e+05	-1618.63	1.25e-03	0.0	651.2	1421.99	-845.21	4.49	-8632.48	1304.84 1.054e+05
18	33	1.510e+05	1585.82	0.14	-2930.62	0.0	-834.75	959.69	-4.42	5655.78	1585.82 4.889e+04
		-2.804e+05	-1294.27	-1.59e-03	0.0	651.2	-834.75	-1970.93	-4.42	5655.78	-1294.27 -2.804e+05
18	34	1.475e+06	2368.23	0.22	-2930.62	0.0	-72.33	5994.32	5.77	938.81	-1387.25 -1.474e+06
		-1.474e+06	-1387.25	-0.02	0.0	651.2	-72.33	3063.70	5.77	938.81	2368.23 1.475e+06
18	35	1.474e+06	1583.11	-0.17	-2930.62	0.0	34.58	-3063.82	-6.25	1.138e+04	1583.11 1.474e+06
		-1.475e+06	-2488.19	0.03	0.0	651.2	34.58	-5994.45	-6.25	1.138e+04	-2488.19 -1.475e+06
18	36	1.630e+05	918.29	-0.08	-2930.62	0.0	1063.98	1925.77	3.13	-1.237e+04	-1117.02 -2.482e+05
		-2.482e+05	-1117.02	-1.45e-03	0.0	651.2	1063.98	-1004.86	3.13	-1.237e+04	918.29 5.170e+04
18	37	1.411e+05	1238.75	0.12	-2930.62	0.0	-554.48	1086.20	-3.49	5199.20	1238.75 1.003e+04
		-2.369e+05	-1033.12	1.75e-03	0.0	651.2	-554.48	-1844.43	-3.49	5199.20	-1033.12 -2.369e+05
18	38	1.314e+05	88.67	-0.02	-2930.62	0.0	244.03	1518.83	-0.25	4696.88	88.67 -1.246e+05
		-1.246e+05	-72.76	2.15e-04	0.0	651.2	244.03	-1411.80	-0.25	4696.88	-72.76 -8.970e+04
18	39	1.332e+05	108.05	0.03	-2930.62	0.0	254.93	1491.14	-0.30	6428.93	108.05 -1.138e+05
		-1.138e+05	-87.26	2.68e-04	0.0	651.2	254.93	-1439.49	-0.30	6428.93	-87.26 -9.701e+04
18	40	1.318e+05	91.19	0.02	-2930.62	0.0	244.59	1513.66	-0.26	4706.38	91.19 -1.226e+05
		-1.226e+05	-75.46	2.19e-04	0.0	651.2	244.59	-1416.96	-0.26	4706.38	-75.46 -9.107e+04
18	41	1.329e+05	105.28	0.03	-2930.62	0.0	253.38	1495.09	-0.29	6181.49	105.28 -1.154e+05

Grp	Idx											
		-1.154e+05	-85.19	2.60e-04	0.0	651.2	253.38	-1435.53	-0.29	6181.49	-85.19	-9.597e+04
18	42	1.332e+05	107.80	0.03	-2930.62	0.0	253.94	1489.93	-0.30	6191.00	107.80	-1.134e+05
		-1.134e+05	-87.89	2.64e-04	0.0	651.2	253.94	-1440.70	-0.30	6191.00	-87.89	-9.734e+04
18	43	1.314e+05	88.67	-0.02	-2930.62	0.0	244.03	1518.83	-0.25	4696.88	88.67	-1.246e+05
		-1.246e+05	-72.76	2.15e-04	0.0	651.2	244.03	-1411.80	-0.25	4696.88	-72.76	-8.970e+04
18	44	1.329e+05	105.28	0.03	-2930.62	0.0	253.38	1495.09	-0.29	6181.49	105.28	-1.154e+05
		-1.154e+05	-85.19	2.60e-04	0.0	651.2	253.38	-1435.53	-0.29	6181.49	-85.19	-9.597e+04
18	45	1.314e+05	88.67	-0.02	-2930.62	0.0	244.03	1518.83	-0.25	4696.88	88.67	-1.246e+05
		-1.246e+05	-72.76	2.15e-04	0.0	651.2	244.03	-1411.80	-0.25	4696.88	-72.76	-8.970e+04
18	46	1.329e+05	105.28	0.03	-2930.62	0.0	253.38	1495.09	-0.29	6181.49	105.28	-1.154e+05
		-1.154e+05	-85.19	2.60e-04	0.0	651.2	253.38	-1435.53	-0.29	6181.49	-85.19	-9.597e+04
19	1	1.710e+05	14.68	-0.06	-3777.64	0.0	331.04	1864.69	0.04	1.008e+04	-11.17	-1.261e+05
		-1.417e+05	-11.17	-2.41e-05	0.0	645.8	331.04	-1912.95	0.04	1.008e+04	14.68	-1.417e+05
19	2	1.723e+05	31.19	-0.06	-3777.64	0.0	339.07	1886.68	0.09	9785.49	-24.31	-1.319e+05
		-1.333e+05	-24.31	-7.60e-05	0.0	645.8	339.07	-1890.96	0.09	9785.49	31.19	-1.333e+05
19	3	1.751e+05	7.36	-0.07	-3777.64	0.0	366.84	1933.06	-0.03	1.670e+04	7.36	-1.441e+05
		-1.441e+05	-10.59	5.84e-05	0.0	645.8	366.84	-1844.57	-0.03	1.670e+04	-10.59	-1.155e+05
19	4	1.764e+05	5.92	-0.08	-3777.64	0.0	374.88	1955.06	0.02	1.640e+04	-5.78	-1.499e+05
		-1.499e+05	-5.78	6.33e-06	0.0	645.8	374.88	-1822.58	0.02	1.640e+04	5.92	-1.071e+05
19	5	1.305e+05	17.77	-0.04	-2905.88	0.0	245.47	1416.84	0.05	6058.86	-13.34	-9.242e+04
		-1.157e+05	-13.34	-3.96e-05	0.0	645.8	245.47	-1489.03	0.05	6058.86	17.77	-1.157e+05
19	6	1.318e+05	34.28	-0.05	-2905.88	0.0	253.50	1438.83	0.09	5761.97	-26.48	-9.822e+04
		-1.073e+05	-26.48	-9.16e-05	0.0	645.8	253.50	-1467.04	0.09	5761.97	34.28	-1.073e+05
19	7	1.346e+05	5.18	-0.06	-2905.88	0.0	281.27	1485.22	-0.02	1.268e+04	5.18	-1.104e+05
		-1.104e+05	-7.50	4.28e-05	0.0	645.8	281.27	-1420.66	-0.02	1.268e+04	-7.50	-8.955e+04
19	8	1.359e+05	9.01	-0.06	-2905.88	0.0	289.30	1507.21	0.03	1.238e+04	-7.95	-1.162e+05
		-1.162e+05	-7.95	-9.53e-06	0.0	645.8	289.30	-1398.66	0.03	1.238e+04	9.01	-8.114e+04
19	9	1.736e+05	47.69	-0.07	-3777.64	0.0	347.11	1908.67	0.13	9488.61	-37.44	-1.377e+05
		-1.377e+05	-37.44	-1.28e-04	0.0	645.8	347.11	-1868.97	0.13	9488.61	47.69	-1.249e+05
19	10	1.739e+05	1.80	-0.07	-3777.64	0.0	356.10	1912.55	-7.45e-03	1.471e+04	1.80	-1.387e+05
		-1.387e+05	-3.01	3.37e-05	0.0	645.8	356.10	-1865.09	-7.45e-03	1.471e+04	-3.01	-1.234e+05
19	11	1.765e+05	30.01	-0.08	-3777.64	0.0	372.17	1956.53	0.08	1.412e+04	-24.47	-1.503e+05
		-1.503e+05	-24.47	-7.04e-05	0.0	645.8	372.17	-1821.10	0.08	1.412e+04	30.01	-1.046e+05
19	12	1.331e+05	50.79	-0.05	-2905.88	0.0	261.54	1460.83	0.14	5465.08	-39.62	-1.040e+05
		-1.040e+05	-39.62	-1.44e-04	0.0	645.8	261.54	-1445.05	0.14	5465.08	50.79	-9.891e+04
19	13	1.334e+05	0.08	-0.05	-2905.88	0.0	270.53	1464.71	7.05e-04	1.069e+04	-0.37	-1.050e+05
		-1.050e+05	-0.37	1.81e-05	0.0	645.8	270.53	-1441.17	7.05e-04	1.069e+04	0.08	-9.740e+04
19	14	1.360e+05	33.10	-0.06	-2905.88	0.0	286.60	1508.69	0.09	1.010e+04	-26.65	-1.166e+05
		-1.166e+05	-26.65	-8.60e-05	0.0	645.8	286.60	-1397.19	0.09	1.010e+04	33.10	-8.059e+04
19	15	1.314e+05	12.15	-0.04	-2905.88	0.0	253.42	1432.04	0.03	7529.44	-9.23	-9.642e+04
		-1.099e+05	-9.23	-2.13e-05	0.0	645.8	253.42	-1473.84	0.03	7529.44	12.15	-1.099e+05
19	16	1.323e+05	23.16	-0.05	-2905.88	0.0	258.78	1446.70	0.06	7331.51	-17.98	-1.003e+05
		-1.043e+05	-17.98	-5.60e-05	0.0	645.8	258.78	-1459.18	0.06	7331.51	23.16	-1.043e+05
19	17	1.341e+05	3.13	-0.05	-2905.88	0.0	277.29	1477.62	-0.01	1.194e+04	3.13	-1.084e+05
		-1.084e+05	-4.69	3.36e-05	0.0	645.8	277.29	-1428.25	-0.01	1.194e+04	-4.69	-9.246e+04
19	18	1.350e+05	6.31	-0.06	-2905.88	0.0	282.65	1492.28	0.02	1.174e+04	-5.63	-1.123e+05
		-1.123e+05	-5.63	-2.04e-06	0.0	645.8	282.65	-1413.59	0.02	1.174e+04	6.31	-8.685e+04
19	19	1.331e+05	34.17	-0.05	-2905.88	0.0	264.14	1461.36	0.09	7133.59	-26.74	-1.041e+05
		-1.041e+05	-26.74	-9.07e-05	0.0	645.8	264.14	-1444.52	0.09	7133.59	34.17	-9.870e+04
19	20	1.333e+05	0.36	-0.05	-2905.88	0.0	270.13	1463.95	1.46e-03	1.062e+04	-0.58	-1.048e+05
		-1.048e+05	-0.58	1.72e-05	0.0	645.8	270.13	-1441.93	1.46e-03	1.062e+04	0.36	-9.769e+04
19	21	1.351e+05	22.37	-0.06	-2905.88	0.0	280.84	1493.27	0.06	1.022e+04	-18.10	-1.125e+05
		-1.125e+05	-18.10	-5.22e-05	0.0	645.8	280.84	-1412.61	0.06	1.022e+04	22.37	-8.648e+04
19	22	1.474e+06	948.50	0.15	-2905.88	0.0	-522.04	6021.49	-1.95	7365.03	948.50	-1.476e+06
		-1.476e+06	-312.60	-0.03	0.0	645.8	-522.04	3115.61	-1.95	7365.03	-312.60	1.474e+06
19	23	1.476e+06	333.03	-0.22	-2905.88	0.0	686.70	-3115.43	2.04	1.289e+04	-981.42	1.476e+06
		-1.474e+06	-981.42	0.03	0.0	645.8	686.70	-6021.30	2.04	1.289e+04	333.03	-1.474e+06
19	24	1.537e+05	2575.99	-0.15	-2905.88	0.0	-1186.24	1955.54	-8.43	6957.89	2575.99	-2.710e+05
		-2.710e+05	-2866.80	0.01	0.0	645.8	-1186.24	-950.33	-8.43	6957.89	-2866.80	5.358e+04
19	25	1.692e+05	2944.64	0.09	-2905.88	0.0	1759.21	937.41	8.61	-9653.46	-2618.27	7.163e+04
		-2.613e+05	-2618.27	-0.01	0.0	645.8	1759.21	-1968.46	8.61	-9653.46	2944.64	-2.613e+05
19	26	1.417e+06	935.86	0.14	-2905.88	0.0	-576.62	5931.18	-1.96	7420.17	935.86	-1.475e+06
		-1.475e+06	-330.30	-0.03	0.0	645.8	-576.62	3025.30	-1.96	7420.17	-330.30	1.417e+06
19	27	1.475e+06	348.16	-0.21	-2905.88	0.0	869.30	-3073.44	2.00	1.285e+04	-940.96	1.475e+06
		-1.448e+06	-940.96	0.03	0.0	645.8	869.30	-5979.31	2.00	1.285e+04	348.16	-1.448e+06
19	28	1.434e+05	1627.07	-0.12	-2905.88	0.0	-730.07	1831.15	-5.40	1.785e+04	1627.07	-2.291e+05
		-2.291e+05	-1859.46	6.57e-03	0.0	645.8	-730.07	-1074.73	-5.40	1.785e+04	-1859.46	1.508e+04
19	29	1.535e+05	1919.89	0.05	-2905.88	0.0	1249.85	1082.50	5.55	-1.348e+04	-1667.15	2.331e+04
		-2.159e+05	-1667.15	-6.75e-03	0.0	645.8	1249.85	-1823.38	5.55	-1.348e+04	1919.89	-2.159e+05
19	30	1.452e+06	1181.47	0.14	-2905.88	0.0	88.39	5986.80	-2.59	7227.13	1181.47	-1.475e+06
		-1.475e+06	-489.88	-0.02	0.0	645.8	88.39	3080.92	-2.59	7227.13	-489.88	1.452e+06
19	31	1.475e+06	529.65	-0.22	-2905.88	0.0	-73.36	-3114.47	2.77	1.298e+04	-1261.00	1.475e+06
		-1.474e+06	-1261.00	0.02	0.0	645.8	-73.36	-6020.34	2.77	1.298e+04	529.65	-1.474e+06
19	32	1.522e+05	1633.67	-0.15	-2905.88	0.0	-764.39	1942.16	-5.30	6636.91	1633.67	-2.666e+05
		-2.666e+05	-1788.52	0.01	0.0	645.8	-764.39	-963.71	-5.30	6636.91	-1788.52	4.932e+04
19	33	1.686e+05	1720.58	0.09	-2905.88	0.0	1268.75	940.63	5.04	-9256.07	-1537.07	7.041e+04
		-2.604e+05	-1537.07	-0.01	0.0	645.8	1268.75	-1965.25	5.04	-9256.07	1720.58	-2.604e+05

19	34	1.452e+06	1181.47	0.14	-2905.88	0.0	88.39	5986.80	-2.59	7227.13	1181.47	-1.475e+06
		-1.475e+06	-489.88	-0.02	0.0	645.8	88.39	3080.92	-2.59	7227.13	-489.88	1.452e+06
19	35	1.475e+06	529.65	-0.22	-2905.88	0.0	-73.36	-3114.47	2.77	1.298e+04	-1261.00	1.475e+06
		-1.474e+06	-1261.00	0.02	0.0	645.8	-73.36	-6020.34	2.77	1.298e+04	529.65	-1.474e+06
19	36	1.457e+05	1078.49	-0.13	-2905.88	0.0	-510.31	1865.56	-3.57	1.788e+04	1078.49	-2.408e+05
		-2.408e+05	-1230.06	4.99e-03	0.0	645.8	-510.31	-1040.32	-3.57	1.788e+04	-1230.06	2.568e+04
19	37	1.560e+05	1249.97	0.06	-2905.88	0.0	1004.06	1056.68	3.60	-1.380e+04	-1077.66	3.208e+04
		-2.238e+05	-1077.66	-5.00e-03	0.0	645.8	1004.06	-1849.19	3.60	-1.380e+04	1249.97	-2.238e+05
19	38	1.314e+05	12.15	-0.04	-2905.88	0.0	253.42	1432.04	0.03	7529.44	-9.23	-9.642e+04
		-1.099e+05	-9.23	-2.13e-05	0.0	645.8	253.42	-1473.84	0.03	7529.44	12.15	-1.099e+05
19	39	1.333e+05	0.36	-0.05	-2905.88	0.0	270.13	1463.95	1.46e-03	1.062e+04	-0.58	-1.048e+05
		-1.048e+05	-0.58	1.72e-05	0.0	645.8	270.13	-1441.93	1.46e-03	1.062e+04	0.36	-9.769e+04
19	40	1.317e+05	16.56	-0.05	-2905.88	0.0	255.56	1437.90	0.05	7450.27	-12.73	-9.796e+04
		-1.077e+05	-12.73	-3.52e-05	0.0	645.8	255.56	-1467.97	0.05	7450.27	16.56	-1.077e+05
19	41	1.330e+05	2.05	-0.05	-2905.88	0.0	267.74	1459.39	5.98e-03	1.018e+04	-1.82	-1.036e+05
		-1.036e+05	-1.82	1.17e-05	0.0	645.8	267.74	-1446.49	5.98e-03	1.018e+04	2.05	-9.944e+04
19	42	1.334e+05	6.45	-0.05	-2905.88	0.0	269.89	1465.25	0.02	1.010e+04	-5.32	-1.051e+05
		-1.051e+05	-5.32	-3.13e-06	0.0	645.8	269.89	-1440.62	0.02	1.010e+04	6.45	-9.720e+04
19	43	1.314e+05	12.15	-0.04	-2905.88	0.0	253.42	1432.04	0.03	7529.44	-9.23	-9.642e+04
		-1.099e+05	-9.23	-2.13e-05	0.0	645.8	253.42	-1473.84	0.03	7529.44	12.15	-1.099e+05
19	44	1.330e+05	2.05	-0.05	-2905.88	0.0	267.74	1459.39	5.98e-03	1.018e+04	-1.82	-1.036e+05
		-1.036e+05	-1.82	1.17e-05	0.0	645.8	267.74	-1446.49	5.98e-03	1.018e+04	2.05	-9.944e+04
19	45	1.314e+05	12.15	-0.04	-2905.88	0.0	253.42	1432.04	0.03	7529.44	-9.23	-9.642e+04
		-1.099e+05	-9.23	-2.13e-05	0.0	645.8	253.42	-1473.84	0.03	7529.44	12.15	-1.099e+05
19	46	1.330e+05	2.05	-0.05	-2905.88	0.0	267.74	1459.39	5.98e-03	1.018e+04	-1.82	-1.036e+05
		-1.036e+05	-1.82	1.17e-05	0.0	645.8	267.74	-1446.49	5.98e-03	1.018e+04	2.05	-9.944e+04
20	1	-4.855e+04	-3.06	3.97e-03	-1880.78	0.0	124.75	938.53	3.48e-03	642.63	-4.18	-1.238e+05
		-1.244e+05	-4.18	-1.71e-06	0.0	321.5	124.75	-942.24	3.48e-03	642.63	-3.06	-1.244e+05
20	2	-4.600e+04	5.06	3.73e-03	-1880.78	0.0	124.84	939.28	0.01	625.36	1.32	-1.214e+05
		-1.218e+05	1.32	-3.63e-06	0.0	321.5	124.84	-941.49	0.01	625.36	5.06	-1.218e+05
20	3	-4.040e+04	-13.16	3.24e-03	-1880.78	0.0	125.31	941.03	-0.01	1053.12	-13.16	-1.161e+05
		-1.161e+05	-17.10	4.68e-06	0.0	321.5	125.31	-939.75	-0.01	1053.12	-17.10	-1.159e+05
20	4	-3.786e+04	-7.66	3.02e-03	-1880.78	0.0	125.40	941.78	-4.08e-03	1035.85	-7.66	-1.137e+05
		-1.137e+05	-8.97	-1.74e-06	0.0	321.5	125.40	-939.00	-4.08e-03	1035.85	-8.97	-1.132e+05
20	5	-3.944e+04	1.24	3.24e-03	-1446.75	0.0	95.82	721.31	6.71e-03	389.08	-0.92	-9.724e+04
		-9.791e+04	-0.92	-1.79e-06	0.0	321.5	95.82	-725.44	6.71e-03	389.08	1.24	-9.791e+04
20	6	-3.689e+04	9.37	3.01e-03	-1446.75	0.0	95.91	722.06	0.01	371.80	4.58	-9.482e+04
		-9.524e+04	4.58	-4.44e-06	0.0	321.5	95.91	-724.69	0.01	371.80	9.37	-9.524e+04
20	7	-3.129e+04	-9.89	2.51e-03	-1446.75	0.0	96.38	723.80	-9.02e-03	799.57	-9.89	-8.950e+04
		-8.950e+04	-12.79	3.49e-06	0.0	321.5	96.38	-722.95	-9.02e-03	799.57	-12.79	-8.936e+04
20	8	-2.874e+04	-4.40	2.29e-03	-1446.75	0.0	96.47	724.55	-8.47e-04	782.29	-4.40	-8.707e+04
		-8.707e+04	-4.67	-1.82e-06	0.0	321.5	96.47	-722.20	-8.47e-04	782.29	-4.67	-8.669e+04
20	9	-4.346e+04	13.19	3.51e-03	-1880.78	0.0	124.94	940.03	0.02	608.08	6.81	-1.190e+05
		-1.191e+05	6.81	-6.51e-06	0.0	321.5	124.94	-940.74	0.02	608.08	13.19	-1.191e+05
20	10	-4.285e+04	-10.47	3.45e-03	-1880.78	0.0	125.14	940.28	-7.53e-03	929.97	-10.47	-1.184e+05
		-1.184e+05	-12.89	3.35e-06	0.0	321.5	125.14	-940.49	-7.53e-03	929.97	-12.89	-1.184e+05
20	11	-3.775e+04	3.36	3.01e-03	-1880.78	0.0	125.33	941.78	8.81e-03	895.43	0.53	-1.136e+05
		-1.136e+05	0.53	-4.18e-06	0.0	321.5	125.33	-938.99	8.81e-03	895.43	3.36	-1.131e+05
20	12	-3.434e+04	17.49	2.78e-03	-1446.75	0.0	96.01	722.81	0.02	354.53	10.08	-9.239e+04
		-9.257e+04	10.08	-7.55e-06	0.0	321.5	96.01	-723.94	0.02	354.53	17.49	-9.257e+04
20	13	-3.373e+04	-7.20	2.72e-03	-1446.75	0.0	96.21	723.06	-4.30e-03	676.42	-7.20	-9.182e+04
		-9.193e+04	-8.58	2.16e-06	0.0	321.5	96.21	-723.69	-4.30e-03	676.42	-8.58	-9.193e+04
20	14	-2.864e+04	7.67	2.28e-03	-1446.75	0.0	96.40	724.56	0.01	641.87	3.80	-8.697e+04
		-8.697e+04	3.80	-4.60e-06	0.0	321.5	96.40	-722.19	0.01	641.87	7.67	-8.659e+04
20	15	-3.763e+04	-1.88	3.08e-03	-1446.75	0.0	95.94	721.86	3.22e-03	480.30	-2.91	-9.552e+04
		-9.601e+04	-2.91	-1.38e-06	0.0	321.5	95.94	-724.89	3.22e-03	480.30	-1.88	-9.601e+04
20	16	-3.593e+04	3.54	2.92e-03	-1446.75	0.0	96.01	722.36	8.66e-03	468.78	0.76	-9.391e+04
		-9.423e+04	0.76	-2.65e-06	0.0	321.5	96.01	-724.39	8.66e-03	468.78	3.54	-9.423e+04
20	17	-3.219e+04	-8.90	2.59e-03	-1446.75	0.0	96.31	723.53	-7.27e-03	753.96	-8.90	-9.036e+04
		-9.036e+04	-11.23	2.99e-06	0.0	321.5	96.31	-723.22	-7.27e-03	753.96	-11.23	-9.031e+04
20	18	-3.050e+04	-5.23	2.44e-03	-1446.75	0.0	96.38	724.03	-1.82e-03	742.44	-5.23	-8.874e+04
		-8.874e+04	-5.82	-1.40e-06	0.0	321.5	96.38	-722.72	-1.82e-03	742.44	-5.82	-8.853e+04
20	19	-3.423e+04	8.96	2.77e-03	-1446.75	0.0	96.07	722.86	0.01	457.27	4.42	-9.229e+04
		-9.245e+04	4.42	-4.53e-06	0.0	321.5	96.07	-723.89	0.01	457.27	8.96	-9.245e+04
20	20	-3.382e+04	-7.10	2.73e-03	-1446.75	0.0	96.20	723.03	-4.12e-03	671.86	-7.10	-9.191e+04
		-9.202e+04	-8.43	2.11e-06	0.0	321.5	96.20	-723.72	-4.12e-03	671.86	-8.43	-9.202e+04
20	21	-3.043e+04	2.41	2.43e-03	-1446.75	0.0	96.33	724.03	6.77e-03	648.83	0.23	-8.867e+04
		-8.867e+04	0.23	-3.02e-06	0.0	321.5	96.33	-722.72	6.77e-03	648.83	2.41	-8.846e+04
20	22	1.475e+06	1007.48	0.09	-1446.75	0.0	94.37	9898.78	-6.30	-888.37	1007.48	-1.475e+06
		-1.475e+06	-1017.27	-0.01	0.0	321.5	94.37	8452.03	-6.30	-888.37	-1017.27	1.475e+06
20	23	1.475e+06	1003.94	-0.09	-1446.75	0.0	111.10	-8452.02	6.31	2168.23	-1024.01	1.475e+06
		-1.475e+06	-1024.01	0.01	0.0	321.5	111.10	-9898.77	6.31	2168.23	1003.94	-1.475e+06
20	24	5.771e+04	-667.79	-4.89e-03	-1446.75	0.0	-2411.43	705.67	-1.74	1351.93	-667.79	2412.23
		-3279.24	-1228.45	3.38e-03	0.0	321.5	-2411.43	-741.08	-1.74	1351.93	-1228.45	-3279.24
20	25	-1.305e+05	1286.12	0.01	-1446.75	0.0	2654.49	739.95	1.80	-1398.95	707.06	-1.913e+05
		-1.913e+05	707.06	-3.32e-03	0.0	321.5	2654.49	-706.80	1.80	-1398.95	1286.12	-1.860e+05
20	26	1.474e+06	943.55	0.09	-1446.75	0.0	138.16	9895.47	-5.89	-474.74	943.55	-1.475e+06

		-1.475e+06	-950.97	-0.01	0.0	321.5	138.16	8448.72	-5.89	-474.74	-950.97	1.474e+06
20	27	1.474e+06	940.57	-0.09	-1446.75	0.0	157.78	-8448.74	5.90	1758.96	-956.93	1.474e+06
		-1.475e+06	-956.93	0.01	0.0	321.5	157.78	-9895.49	5.90	1758.96	940.57	-1.475e+06
20	28	3.334e+04	-544.68	-2.72e-03	-1446.75	0.0	-1617.30	727.43	-0.73	1253.94	-544.68	-2.545e+04
		-2.545e+04	-778.51	8.01e-04	0.0	321.5	-1617.30	-719.32	-0.73	1253.94	-778.51	-2.415e+04
20	29	-1.027e+05	793.59	8.30e-03	-1446.75	0.0	1800.60	718.52	0.74	-684.29	555.35	-1.601e+05
		-1.617e+05	555.35	-8.11e-04	0.0	321.5	1800.60	-728.23	0.74	-684.29	793.59	-1.617e+05
20	30	1.474e+06	987.19	0.08	-1446.75	0.0	29.23	9895.97	-6.18	-999.67	987.19	-1.475e+06
		-1.475e+06	-1001.05	-0.01	0.0	321.5	29.23	8449.22	-6.18	-999.67	-1001.05	1.474e+06
20	31	1.474e+06	987.14	-0.09	-1446.75	0.0	35.79	-8449.16	6.20	2274.39	-1005.74	1.474e+06
		-1.475e+06	-1005.74	0.01	0.0	321.5	35.79	-9895.91	6.20	2274.39	987.14	-1.475e+06
20	32	5.516e+04	-322.02	-4.66e-03	-1446.75	0.0	-1530.43	708.15	-1.37	1227.39	-322.02	-537.85
		-5431.52	-762.62	3.03e-03	0.0	321.5	-1530.43	-738.60	-1.37	1227.39	-762.62	-5431.52
20	33	-1.299e+05	746.40	0.01	-1446.75	0.0	1642.80	739.31	1.28	-1366.45	333.34	-1.906e+05
		-1.906e+05	333.34	-3.08e-03	0.0	321.5	1642.80	-707.44	1.28	-1366.45	746.40	-1.855e+05
20	34	1.474e+06	987.19	0.08	-1446.75	0.0	29.23	9895.97	-6.18	-999.67	987.19	-1.475e+06
		-1.475e+06	-1001.05	-0.01	0.0	321.5	29.23	8449.22	-6.18	-999.67	-1001.05	1.474e+06
20	35	1.474e+06	987.14	-0.09	-1446.75	0.0	35.79	-8449.16	6.20	2274.39	-1005.74	1.474e+06
		-1.475e+06	-1005.74	0.01	0.0	321.5	35.79	-9895.91	6.20	2274.39	987.14	-1.475e+06
20	36	3.973e+04	-331.34	-3.23e-03	-1446.75	0.0	-1115.22	726.46	-0.52	1306.87	-331.34	-1.891e+04
		-1.891e+04	-499.86	8.79e-04	0.0	321.5	-1115.22	-720.29	-0.52	1306.87	-499.86	-1.791e+04
20	37	-1.076e+05	504.22	8.69e-03	-1446.75	0.0	1258.92	718.91	0.53	-739.15	334.78	-1.650e+05
		-1.665e+05	334.78	-8.46e-04	0.0	321.5	1258.92	-727.84	0.53	-739.15	504.22	-1.665e+05
20	38	-3.763e+04	-1.88	3.08e-03	-1446.75	0.0	95.94	721.86	3.22e-03	480.30	-2.91	-9.552e+04
		-9.601e+04	-2.91	-1.38e-06	0.0	321.5	95.94	-724.89	3.22e-03	480.30	-1.88	-9.601e+04
20	39	-3.382e+04	-7.10	2.73e-03	-1446.75	0.0	96.20	723.03	-4.12e-03	671.86	-7.10	-9.191e+04
		-9.202e+04	-8.43	2.11e-06	0.0	321.5	96.20	-723.72	-4.12e-03	671.86	-8.43	-9.202e+04
20	40	-3.695e+04	0.29	3.01e-03	-1446.75	0.0	95.97	722.06	5.40e-03	475.69	-1.44	-9.488e+04
		-9.530e+04	-1.44	-1.88e-06	0.0	321.5	95.97	-724.69	5.40e-03	475.69	0.29	-9.530e+04
20	41	-3.437e+04	-6.50	2.78e-03	-1446.75	0.0	96.17	722.86	-3.07e-03	644.49	-6.50	-9.243e+04
		-9.259e+04	-7.49	1.81e-06	0.0	321.5	96.17	-723.89	-3.07e-03	644.49	-7.49	-9.259e+04
20	42	-3.369e+04	-5.04	2.72e-03	-1446.75	0.0	96.19	723.06	-8.96e-04	639.89	-5.04	-9.178e+04
		-9.188e+04	-5.32	-1.14e-06	0.0	321.5	96.19	-723.69	-8.96e-04	639.89	-5.32	-9.188e+04
20	43	-3.763e+04	-1.88	3.08e-03	-1446.75	0.0	95.94	721.86	3.22e-03	480.30	-2.91	-9.552e+04
		-9.601e+04	-2.91	-1.38e-06	0.0	321.5	95.94	-724.89	3.22e-03	480.30	-1.88	-9.601e+04
20	44	-3.437e+04	-6.50	2.78e-03	-1446.75	0.0	96.17	722.86	-3.07e-03	644.49	-6.50	-9.243e+04
		-9.259e+04	-7.49	1.81e-06	0.0	321.5	96.17	-723.89	-3.07e-03	644.49	-7.49	-9.259e+04
20	45	-3.763e+04	-1.88	3.08e-03	-1446.75	0.0	95.94	721.86	3.22e-03	480.30	-2.91	-9.552e+04
		-9.601e+04	-2.91	-1.38e-06	0.0	321.5	95.94	-724.89	3.22e-03	480.30	-1.88	-9.601e+04
20	46	-3.437e+04	-6.50	2.78e-03	-1446.75	0.0	96.17	722.86	-3.07e-03	644.49	-6.50	-9.243e+04
		-9.259e+04	-7.49	1.81e-06	0.0	321.5	96.17	-723.89	-3.07e-03	644.49	-7.49	-9.259e+04
21	1	1.738e+05	13.81	0.04	-3809.81	0.0	336.88	1929.20	-0.04	-1.024e+04	13.81	-1.443e+05
		-1.443e+05	-9.69	1.80e-05	0.0	651.2	336.88	-1880.62	-0.04	-1.024e+04	-9.69	-1.285e+05
21	2	1.751e+05	31.00	0.04	-3809.81	0.0	345.25	1907.02	-0.08	-9935.74	31.00	-1.357e+05
		-1.357e+05	-22.89	6.76e-05	0.0	651.2	345.25	-1902.80	-0.08	-9935.74	-22.89	-1.343e+05
21	3	1.780e+05	9.80	0.06	-3809.81	0.0	373.26	1860.18	0.04	-1.695e+04	-13.36	-1.176e+05
		-1.467e+05	-13.36	-6.70e-05	0.0	651.2	373.26	-1949.63	0.04	-1.695e+04	9.80	-1.467e+05
21	4	1.794e+05	3.83	0.06	-3809.81	0.0	381.63	1838.00	-0.01	-1.665e+04	3.83	-1.090e+05
		-1.526e+05	-3.40	-1.75e-05	0.0	651.2	381.63	-1971.81	-0.01	-1.665e+04	-3.40	-1.526e+05
21	5	1.326e+05	17.59	0.02	-2930.62	0.0	249.81	1501.69	-0.05	-6152.72	17.59	-1.179e+05
		-1.179e+05	-12.45	3.57e-05	0.0	651.2	249.81	-1428.93	-0.05	-6152.72	-12.45	-9.416e+04
21	6	1.339e+05	34.78	0.03	-2930.62	0.0	258.18	1479.51	-0.09	-5853.10	34.78	-1.093e+05
		-1.093e+05	-25.65	8.52e-05	0.0	651.2	258.18	-1451.11	-0.09	-5853.10	-25.65	-1.000e+05
21	7	1.368e+05	7.04	0.04	-2930.62	0.0	286.19	1432.68	0.03	-1.286e+04	-9.58	-9.112e+04
		-1.124e+05	-9.58	-4.93e-05	0.0	651.2	286.19	-1497.95	0.03	-1.286e+04	7.04	-1.124e+05
21	8	1.382e+05	7.61	0.05	-2930.62	0.0	294.56	1410.50	-0.02	-1.256e+04	7.61	-8.255e+04
		-1.182e+05	-6.16	-1.71e-06	0.0	651.2	294.56	-1520.13	-0.02	-1.256e+04	-6.16	-1.182e+05
21	9	1.765e+05	48.18	0.05	-3809.81	0.0	353.62	1884.84	-0.13	-9636.12	48.18	-1.272e+05
		-1.402e+05	-36.09	1.17e-04	0.0	651.2	353.62	-1924.98	-0.13	-9636.12	-36.09	-1.402e+05
21	10	1.767e+05	3.95	0.05	-3809.81	0.0	362.35	1880.88	0.01	-1.493e+04	-5.21	-1.256e+05
		-1.412e+05	-5.21	-4.15e-05	0.0	651.2	362.35	-1928.93	0.01	-1.493e+04	3.95	-1.412e+05
21	11	1.794e+05	29.17	0.06	-3809.81	0.0	379.08	1836.52	-0.08	-1.433e+04	29.17	-1.084e+05
		-1.530e+05	-22.45	5.75e-05	0.0	651.2	379.08	-1973.29	-0.08	-1.433e+04	-22.45	-1.530e+05
21	12	1.353e+05	51.97	0.04	-2930.62	0.0	266.55	1457.33	-0.14	-5553.48	51.97	-1.007e+05
		-1.059e+05	-38.85	1.35e-04	0.0	651.2	266.55	-1473.26	-0.14	-5553.48	-38.85	-1.059e+05
21	13	1.355e+05	1.19	0.04	-2930.62	0.0	275.28	1453.38	4.03e-03	-1.085e+04	-1.43	-9.914e+04
		-1.069e+05	-1.43	-2.38e-05	0.0	651.2	275.28	-1477.24	4.03e-03	-1.085e+04	1.19	-1.069e+05
21	14	1.382e+05	32.95	0.05	-2930.62	0.0	292.01	1409.02	-0.09	-1.025e+04	32.95	-8.199e+04
		-1.187e+05	-25.21	7.52e-05	0.0	651.2	292.01	-1521.60	-0.09	-1.025e+04	-25.21	-1.187e+05
21	15	1.335e+05	11.55	0.03	-2930.62	0.0	257.89	1486.36	-0.03	-7643.93	11.55	-1.119e+05
		-1.119e+05	-8.12	1.68e-05	0.0	651.2	257.89	-1444.27	-0.03	-7643.93	-8.12	-9.821e+04
21	16	1.344e+05	23.01	0.03	-2930.62	0.0	263.47	1471.57	-0.06	-7444.19	23.01	-1.062e+05
		-1.062e+05	-16.92	4.98e-05	0.0	651.2	263.47	-1459.06	-0.06	-7444.19	-16.92	-1.021e+05
21	17	1.364e+05	4.87	0.04	-2930.62	0.0	282.15	1440.34	0.02	-1.212e+04	-6.56	-9.409e+04
		-1.103e+05	-6.56	-3.99e-05	0.0	651.2	282.15	-1490.28	0.02	-1.212e+04	4.87	-1.103e+05
21	18	1.373e+05	4.90	0.05	-2930.62	0.0	287.73	1425.56	-0.01	-1.192e+04	4.90	-8.837e+04
		-1.143e+05	-3.93	-6.89e-06	0.0	651.2	287.73	-1505.07	-0.01	-1.192e+04	-3.93	-1.143e+05

21	19	1.353e+05	34.47	0.04	-2930.62	0.0	269.05	1456.78	-0.09	-7244.44	34.47	-1.005e+05
		-1.060e+05	-25.72	8.28e-05	0.0	651.2	269.05	-1473.84	-0.09	-7244.44	-25.72	-1.060e+05
21	20	1.355e+05	0.98	0.04	-2930.62	0.0	274.87	1454.15	3.23e-03	-1.078e+04	-1.13	-9.944e+04
		-1.067e+05	-1.13	-2.29e-05	0.0	651.2	274.87	-1476.48	3.23e-03	-1.078e+04	0.98	-1.067e+05
21	21	1.373e+05	21.79	0.05	-2930.62	0.0	286.03	1424.58	-0.06	-1.038e+04	21.79	-8.800e+04
		-1.145e+05	-16.63	4.31e-05	0.0	651.2	286.03	-1506.05	-0.06	-1.038e+04	-16.63	-1.145e+05
21	22	1.476e+06	328.88	0.22	-2930.62	0.0	685.57	5995.09	-2.00	-1.306e+04	328.88	-1.474e+06
		-1.474e+06	-971.97	-0.03	0.0	651.2	685.57	3064.47	-2.00	-1.306e+04	-971.97	1.476e+06
21	23	1.474e+06	943.48	-0.15	-2930.62	0.0	-519.59	-3064.65	1.93	-7503.65	-312.85	1.474e+06
		-1.476e+06	-312.85	0.03	0.0	651.2	-519.59	-5995.27	1.93	-7503.65	943.48	-1.476e+06
21	24	1.582e+05	2220.96	0.15	-2930.62	0.0	-1202.72	931.95	7.48	-4328.75	-2647.24	6.170e+04
		-2.857e+05	-2647.24	-9.74e-04	0.0	651.2	-1202.72	-1998.68	7.48	-4328.75	2220.96	-2.857e+05
21	25	1.763e+05	2738.25	-0.09	-2930.62	0.0	1786.73	2009.80	-7.69	7322.62	2738.25	-2.725e+05
		-2.725e+05	-2272.08	1.41e-03	0.0	651.2	1786.73	-920.83	-7.69	7322.62	-2272.08	8.208e+04
21	26	1.475e+06	344.53	0.21	-2930.62	0.0	867.48	5960.42	-1.96	-1.301e+04	344.53	-1.452e+06
		-1.452e+06	-932.58	-0.03	0.0	651.2	867.48	3029.79	-1.96	-1.301e+04	-932.58	1.475e+06
21	27	1.420e+06	931.77	-0.14	-2930.62	0.0	-573.73	-2979.76	1.94	-7558.10	-331.13	1.420e+06
		-1.475e+06	-331.13	0.03	0.0	651.2	-573.73	-5910.39	1.94	-7558.10	931.77	-1.475e+06
21	28	1.462e+05	1586.52	0.12	-2930.62	0.0	-741.88	1078.18	5.31	-1.755e+04	-1871.90	1.710e+04
		-2.350e+05	-1871.90	-3.72e-03	0.0	651.2	-741.88	-1852.45	5.31	-1.755e+04	1586.52	-2.350e+05
21	29	1.565e+05	1930.12	-0.07	-2930.62	0.0	1270.89	1844.34	-5.46	1.270e+04	1930.12	-2.214e+05
		-2.214e+05	-1623.03	3.87e-03	0.0	651.2	1270.89	-1086.28	-5.46	1.270e+04	-1623.03	2.541e+04
21	30	1.475e+06	524.51	0.22	-2930.62	0.0	-72.80	5994.15	-2.73	-1.316e+04	524.51	-1.474e+06
		-1.474e+06	-1251.45	-0.03	0.0	651.2	-72.80	3063.53	-2.73	-1.316e+04	-1251.45	1.475e+06
21	31	1.455e+06	1177.72	-0.14	-2930.62	0.0	87.77	-3034.63	2.56	-7371.97	-490.48	1.455e+06
		-1.475e+06	-490.48	0.03	0.0	651.2	87.77	-5965.25	2.56	-7371.97	1177.72	-1.475e+06
21	32	1.564e+05	1305.69	0.15	-2930.62	0.0	-774.68	948.10	4.41	-4242.32	-1569.40	5.665e+04
		-2.802e+05	-1569.40	1.56e-03	0.0	651.2	-774.68	-1982.53	4.41	-4242.32	1305.69	-2.802e+05
21	33	1.756e+05	1531.89	-0.09	-2930.62	0.0	1288.25	2006.30	-4.26	6982.67	1531.89	-2.716e+05
		-2.716e+05	-1243.47	-1.69e-03	0.0	651.2	1288.25	-924.32	-4.26	6982.67	-1243.47	8.072e+04
21	34	1.475e+06	524.51	0.22	-2930.62	0.0	-72.80	5994.15	-2.73	-1.316e+04	524.51	-1.474e+06
		-1.474e+06	-1251.45	-0.03	0.0	651.2	-72.80	3063.53	-2.73	-1.316e+04	-1251.45	1.475e+06
21	35	1.455e+06	1177.72	-0.14	-2930.62	0.0	87.77	-3034.63	2.56	-7371.97	-490.48	1.455e+06
		-1.475e+06	-490.48	0.03	0.0	651.2	87.77	-5965.25	2.56	-7371.97	1177.72	-1.475e+06
21	36	1.485e+05	1041.90	0.13	-2930.62	0.0	-518.47	1042.17	3.49	-1.747e+04	-1234.18	2.823e+04
		-2.473e+05	-1234.18	-1.70e-03	0.0	651.2	-518.47	-1888.46	3.49	-1.747e+04	1041.90	-2.473e+05
21	37	1.592e+05	1254.19	-0.07	-2930.62	0.0	1021.40	1871.47	-3.52	1.292e+04	1254.19	-2.298e+05
		-2.298e+05	-1040.79	1.85e-03	0.0	651.2	1021.40	-1059.16	-3.52	1.292e+04	-1040.79	3.472e+04
21	38	1.335e+05	11.55	0.03	-2930.62	0.0	257.89	1486.36	-0.03	-7643.93	11.55	-1.119e+05
		-1.119e+05	-8.12	1.68e-05	0.0	651.2	257.89	-1444.27	-0.03	-7643.93	-8.12	-9.821e+04
21	39	1.355e+05	0.98	0.04	-2930.62	0.0	274.87	1454.15	3.23e-03	-1.078e+04	-1.13	-9.944e+04
		-1.067e+05	-1.13	-2.29e-05	0.0	651.2	274.87	-1476.48	3.23e-03	-1.078e+04	0.98	-1.067e+05
21	40	1.339e+05	16.13	0.03	-2930.62	0.0	260.13	1480.44	-0.04	-7564.04	16.13	-1.096e+05
		-1.096e+05	-11.64	3.00e-05	0.0	651.2	260.13	-1450.18	-0.04	-7564.04	-11.64	-9.977e+04
21	41	1.352e+05	0.68	0.04	-2930.62	0.0	272.45	1458.75	-1.54e-03	-1.033e+04	0.68	-1.012e+05
		-1.055e+05	-0.32	-1.72e-05	0.0	651.2	272.45	-1471.88	-1.54e-03	-1.033e+04	-0.32	-1.055e+05
21	42	1.356e+05	5.26	0.04	-2930.62	0.0	274.68	1452.83	-0.01	-1.025e+04	5.26	-9.893e+04
		-1.071e+05	-3.84	-4.02e-06	0.0	651.2	274.68	-1477.79	-0.01	-1.025e+04	-3.84	-1.071e+05
21	43	1.335e+05	11.55	0.03	-2930.62	0.0	257.89	1486.36	-0.03	-7643.93	11.55	-1.119e+05
		-1.119e+05	-8.12	1.68e-05	0.0	651.2	257.89	-1444.27	-0.03	-7643.93	-8.12	-9.821e+04
21	44	1.352e+05	0.68	0.04	-2930.62	0.0	272.45	1458.75	-1.54e-03	-1.033e+04	0.68	-1.012e+05
		-1.055e+05	-0.32	-1.72e-05	0.0	651.2	272.45	-1471.88	-1.54e-03	-1.033e+04	-0.32	-1.055e+05
21	45	1.335e+05	11.55	0.03	-2930.62	0.0	257.89	1486.36	-0.03	-7643.93	11.55	-1.119e+05
		-1.119e+05	-8.12	1.68e-05	0.0	651.2	257.89	-1444.27	-0.03	-7643.93	-8.12	-9.821e+04
21	46	1.352e+05	0.68	0.04	-2930.62	0.0	272.45	1458.75	-1.54e-03	-1.033e+04	0.68	-1.012e+05
		-1.055e+05	-0.32	-1.72e-05	0.0	651.2	272.45	-1471.88	-1.54e-03	-1.033e+04	-0.32	-1.055e+05
22	1	2.677e+05	46.95	-0.04	-1.555e+04	0.0	117.51	7514.77	-0.20	1731.09	46.95	-3.261e+05
		-4.120e+05	-19.12	5.62e-06	0.0	327.5	117.51	-8039.38	-0.20	1731.09	-19.12	-4.120e+05
22	2	2.649e+05	52.74	-0.04	-1.555e+04	0.0	158.84	7637.43	-0.23	977.18	52.74	-3.490e+05
		-3.947e+05	-22.31	9.29e-06	0.0	327.5	158.84	-7916.72	-0.23	977.18	-22.31	-3.947e+05
22	3	4.078e+05	62.42	-0.06	-2.341e+04	0.0	-2.27	1.139e+04	-0.26	-531.23	62.42	-4.999e+05
		-6.009e+05	-24.36	-6.83e-06	0.0	327.5	-2.27	-1.201e+04	-0.26	-531.23	-24.36	-6.009e+05
22	4	4.049e+05	68.21	-0.07	-2.341e+04	0.0	39.05	1.152e+04	-0.29	-1285.14	68.21	-5.228e+05
		-5.836e+05	-27.55	7.30e-06	0.0	327.5	39.05	-1.189e+04	-0.29	-1285.14	-27.55	-5.836e+05
22	5	1.700e+05	32.15	-0.03	-9951.62	0.0	121.11	4785.83	-0.14	1911.69	32.15	-2.063e+05
		-2.685e+05	-13.36	4.84e-06	0.0	327.5	121.11	-5165.79	-0.14	1911.69	-13.36	-2.685e+05
22	6	1.672e+05	37.94	-0.03	-9951.62	0.0	162.43	4908.49	-0.17	1157.78	37.94	-2.292e+05
		-2.512e+05	-16.55	8.51e-06	0.0	327.5	162.43	-5043.13	-0.17	1157.78	-16.55	-2.512e+05
22	7	3.101e+05	47.62	-0.05	-1.780e+04	0.0	1.33	8665.42	-0.20	-350.63	47.62	-3.801e+05
		-4.574e+05	-18.61	-5.18e-06	0.0	327.5	1.33	-9137.34	-0.20	-350.63	-18.61	-4.574e+05
22	8	3.073e+05	53.41	-0.05	-1.780e+04	0.0	42.65	8788.08	-0.23	-1104.54	53.41	-4.030e+05
		-4.401e+05	-21.80	6.51e-06	0.0	327.5	42.65	-9014.68	-0.23	-1104.54	-21.80	-4.401e+05
22	9	2.621e+05	58.54	-0.05	-1.555e+04	0.0	200.16	7760.09	-0.26	223.27	58.54	-3.719e+05
		-3.775e+05	-25.50	1.30e-05	0.0	327.5	200.16	-7794.06	-0.26	223.27	-25.50	-3.775e+05
22	10	3.658e+05	57.78	-0.06	-2.105e+04	0.0	33.67	1.023e+04	-0.25	147.46	57.78	-4.478e+05
		-5.442e+05	-22.79	-6.01e-06	0.0	327.5	33.67	-1.082e+04	-0.25	147.46	-22.79	-5.442e+05
22	11	3.601e+05	69.36	-0.06	-2.105e+04	0.0	116.31	1.048e+04	-0.30	-1360.36	69.36	-4.936e+05

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        -5.097e+05    -29.17   1.16e-05       0.0    327.5    116.31 -1.057e+04    -0.30    -1360.36    -29.17 -5.097e+05
22  12  1.644e+05     43.73     -0.03  -9951.62      0.0    203.76   5031.14    -0.19     403.87     43.73 -2.521e+05
        -2.521e+05    -19.75   1.22e-05       0.0    327.5    203.76   -4920.47   -0.19     403.87     -19.75 -2.340e+05
22  13  2.681e+05     42.98     -0.04 -1.545e+04      0.0     37.26   7501.54    -0.18     328.06     42.98 -3.279e+05
        -4.007e+05    -17.03  -4.37e-06       0.0    327.5     37.26   -7945.87   -0.18     328.06     -17.03 -4.007e+05
22  14  2.624e+05     54.56     -0.05 -1.545e+04      0.0    119.91   7746.86    -0.24    -1179.76    54.56 -3.738e+05
        -3.738e+05    -23.42   1.08e-05       0.0    327.5    119.91   -7700.56   -0.24    -1179.76    -23.42 -3.662e+05
22  15  2.012e+05     35.59     -0.03 -1.170e+04      0.0     94.49   5647.96    -0.15     1408.95    35.59 -2.449e+05
        -3.104e+05    -14.53   4.39e-06       0.0    327.5     94.49   -6048.36   -0.15     1408.95    -14.53 -3.104e+05
22  16  1.993e+05     39.45     -0.03 -1.170e+04      0.0    122.04   5729.73    -0.17     906.34     39.45 -2.602e+05
        -2.989e+05    -16.66   6.84e-06       0.0    327.5    122.04   -5966.58   -0.17     906.34     -16.66 -2.989e+05
22  17  2.945e+05     45.90     -0.05 -1.693e+04      0.0     14.63   8234.35    -0.20     -99.26     45.90 -3.608e+05
        -4.364e+05    -18.02  -4.88e-06       0.0    327.5     14.63   -8696.06   -0.20     -99.26     -18.02 -4.364e+05
22  18  2.926e+05     49.76     -0.05 -1.693e+04      0.0     42.18   8316.13    -0.21     -601.87    49.76 -3.760e+05
        -4.249e+05    -20.15   5.51e-06       0.0    327.5     42.18   -8614.28   -0.21     -601.87    -20.15 -4.249e+05
22  19  1.974e+05     43.31     -0.04 -1.170e+04      0.0    149.59   5811.50    -0.19     403.74     43.31 -2.754e+05
        -2.874e+05    -18.78   9.29e-06       0.0    327.5    149.59   -5884.81   -0.19     403.74     -18.78 -2.874e+05
22  20  2.665e+05     42.81     -0.04 -1.536e+04      0.0     38.59   7458.44    -0.18     353.20     42.81 -3.260e+05
        -3.986e+05    -16.97  -4.34e-06       0.0    327.5     38.59   -7901.75   -0.18     353.20     -16.97 -3.986e+05
22  21  2.627e+05     50.53     -0.05 -1.536e+04      0.0     93.69   7621.98    -0.22     -652.01    50.53 -3.566e+05
        -3.756e+05    -21.23   8.36e-06       0.0    327.5     93.69   -7738.20   -0.22     -652.01    -21.23 -3.756e+05
22  22  2.600e+05    798.61     -0.03 -1.484e+04      0.0    238.76   6858.32    -2.75 -5.404e+05   798.61 -2.577e+05
        -4.411e+05   -101.69     -0.01       0.0    327.5    238.76   -7978.46   -2.75 -5.404e+05  -101.69 -4.411e+05
22  23  2.562e+05    101.06     -0.05 -1.484e+04      0.0   -125.18   7541.09    2.57  5.539e+05  -741.65 -3.712e+05
        -3.712e+05   -741.65     0.01        0.0    327.5   -125.18   -7295.68   2.57  5.539e+05   101.06 -3.311e+05
22  24  1.205e+06   -405.16      0.29 -1.484e+04      0.0   -749.70  1.478e+04    -0.02  1.048e+04  -405.16 -1.206e+06
        -1.206e+06   -412.39   3.95e-03       0.0    327.5   -749.70     -58.79   -0.02  1.048e+04  -412.39 1.205e+06
22  25  1.205e+06    494.61     -0.36 -1.484e+04      0.0    866.40     59.68    -0.46    -8757.55   494.61 1.205e+06
        -1.205e+06    344.60  -3.81e-03       0.0    327.5    866.40 -1.478e+04    -0.46    -8757.55   344.60 -1.205e+06
22  26  2.607e+05    676.73     -0.03 -1.484e+04      0.0    228.21   6828.34    -2.16 -4.729e+05   676.73 -2.526e+05
        -4.459e+05    -31.32     -0.01       0.0    327.5    228.21   -8008.44   -2.16 -4.729e+05   -31.32 -4.459e+05
22  27  2.561e+05     24.34     -0.05 -1.484e+04      0.0   -112.45   7573.68    1.94  4.986e+05  -610.11 -3.767e+05
        -3.767e+05   -610.11     0.01        0.0    327.5   -112.45   -7263.09   1.94  4.986e+05   24.34 -3.258e+05
22  28  8.780e+05   -164.20      0.20 -1.484e+04      0.0     11.96  1.373e+04    0.55    7194.00  -344.47 -1.203e+06
        -1.203e+06   -344.47   1.12e-03       0.0    327.5     11.96   -1103.93   0.55    7194.00  -164.20 8.645e+05
22  29  1.080e+06    427.26     -0.27 -1.484e+04      0.0    361.14    447.61    -0.95    -6207.95   427.26 1.080e+06
        -1.203e+06    116.47  -1.09e-03       0.0    327.5    361.14 -1.439e+04    -0.95    -6207.95   116.47 -1.203e+06
22  30  2.601e+05    736.39     -0.03 -1.484e+04      0.0    207.97   6853.19    -2.34 -4.978e+05   736.39 -2.568e+05
        -4.419e+05    -30.63     -0.01       0.0    327.5    207.97   -7983.58   -2.34 -4.978e+05   -30.63 -4.419e+05
22  31  2.563e+05     48.00     -0.05 -1.484e+04      0.0    -93.83   7533.88    2.30  5.110e+05  -706.86 -3.700e+05
        -3.700e+05   -706.86     0.01        0.0    327.5    -93.83   -7302.89   2.30  5.110e+05   48.00 -3.322e+05
22  32  1.204e+06   -122.47      0.29 -1.484e+04      0.0   -434.47  1.477e+04    -0.80  1.023e+04  -122.47 -1.205e+06
        -1.205e+06   -383.61   3.43e-03       0.0    327.5   -434.47     -64.79   -0.80  1.023e+04  -383.61 1.204e+06
22  33  1.204e+06    295.76     -0.35 -1.484e+04      0.0    747.18     65.40    0.32    -8576.56   192.28 1.204e+06
        -1.204e+06    192.28  -3.39e-03       0.0    327.5    747.18 -1.477e+04    0.32    -8576.56   295.76 -1.204e+06
22  34  2.601e+05    736.39     -0.03 -1.484e+04      0.0    207.97   6853.19    -2.34 -4.978e+05   736.39 -2.568e+05
        -4.419e+05    -30.63     -0.01       0.0    327.5    207.97   -7983.58   -2.34 -4.978e+05   -30.63 -4.419e+05
22  35  2.563e+05     48.00     -0.05 -1.484e+04      0.0    -93.83   7533.88    2.30  5.110e+05  -706.86 -3.700e+05
        -3.700e+05   -706.86     0.01        0.0    327.5    -93.83   -7302.89   2.30  5.110e+05   48.00 -3.322e+05
22  36  1.062e+06   -154.32      0.22 -1.484e+04      0.0    198.30  1.433e+04    -0.01    7811.72  -154.32 -1.204e+06
        -1.204e+06   -158.08   1.10e-03       0.0    327.5    198.30    -502.99   -0.01    7811.72  -158.08 1.061e+06
22  37  1.203e+06    237.54     -0.29 -1.484e+04      0.0    248.85     70.99    -0.42    -6580.76   237.54 1.203e+06
        -1.203e+06    100.48  -1.02e-03       0.0    327.5    248.85 -1.477e+04    -0.42    -6580.76   100.48 -1.203e+06
22  38  2.012e+05     35.59     -0.03 -1.170e+04      0.0     94.49   5647.96    -0.15     1408.95    35.59 -2.449e+05
        -3.104e+05    -14.53   4.39e-06       0.0    327.5     94.49   -6048.36   -0.15     1408.95    -14.53 -3.104e+05
22  39  2.665e+05     42.81     -0.04 -1.536e+04      0.0     38.59   7458.44    -0.18     353.20     42.81 -3.260e+05
        -3.986e+05    -16.97  -4.34e-06       0.0    327.5     38.59   -7901.75   -0.18     353.20     -16.97 -3.986e+05
22  40  2.004e+05     37.13     -0.03 -1.170e+04      0.0    105.51   5680.67    -0.16     1207.91    37.13 -2.510e+05
        -3.058e+05    -15.38   5.37e-06       0.0    327.5    105.51   -6015.65   -0.16     1207.91    -15.38 -3.058e+05
22  41  2.572e+05     41.77     -0.04 -1.484e+04      0.0     46.58   7199.80    -0.18     504.02     41.77 -3.144e+05
        -3.860e+05    -16.62  -4.16e-06       0.0    327.5     46.58   -7636.98   -0.18     504.02     -16.62 -3.860e+05
22  42  2.564e+05     43.32     -0.04 -1.484e+04      0.0     57.60   7232.51    -0.19     302.98     43.32 -3.205e+05
        -3.814e+05    -17.48   4.58e-06       0.0    327.5     57.60   -7604.27   -0.19     302.98     -17.48 -3.814e+05
22  43  2.012e+05     35.59     -0.03 -1.170e+04      0.0     94.49   5647.96    -0.15     1408.95    35.59 -2.449e+05
        -3.104e+05    -14.53   4.39e-06       0.0    327.5     94.49   -6048.36   -0.15     1408.95    -14.53 -3.104e+05
22  44  2.572e+05     41.77     -0.04 -1.484e+04      0.0     46.58   7199.80    -0.18     504.02     41.77 -3.144e+05
        -3.860e+05    -16.62  -4.16e-06       0.0    327.5     46.58   -7636.98   -0.18     504.02     -16.62 -3.860e+05
22  45  2.012e+05     35.59     -0.03 -1.170e+04      0.0     94.49   5647.96    -0.15     1408.95    35.59 -2.449e+05
        -3.104e+05    -14.53   4.39e-06       0.0    327.5     94.49   -6048.36   -0.15     1408.95    -14.53 -3.104e+05
22  46  2.572e+05     41.77     -0.04 -1.484e+04      0.0     46.58   7199.80    -0.18     504.02     41.77 -3.144e+05
        -3.860e+05    -16.62  -4.16e-06       0.0    327.5     46.58   -7636.98   -0.18     504.02     -16.62 -3.860e+05
23   1  1.640e+05     18.99     -0.02 -1.546e+04      0.0     73.21   7438.31    0.15     -262.29    -31.20 -4.176e+05
        -5.124e+05    -31.20  -1.24e-05       0.0    325.5     73.21   -8020.85   0.15     -262.29    18.99 -5.124e+05
23   2  1.689e+05     18.89     -0.02 -1.546e+04      0.0     91.64   7476.75    0.16     -318.29    -34.66 -4.189e+05
        -5.012e+05    -34.66  -1.26e-05       0.0    325.5     91.64   -7982.41   0.16     -318.29    18.89 -5.012e+05
23   3  2.451e+05     23.85     -0.03 -2.326e+04      0.0    -64.94  1.112e+04    0.19     -408.07    -39.00 -6.187e+05
        -7.841e+05    -39.00  -1.75e-05       0.0    325.5    -64.94 -1.214e+04    0.19     -408.07    23.85 -7.841e+05
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23	4	2.500e+05	23.75	-0.03	-2.326e+04	0.0	-46.50	1.116e+04	0.20	-464.07	-42.46	-6.201e+05
		-7.729e+05	-42.46	-1.77e-05	0.0	325.5	-46.50	-1.210e+04	0.20	-464.07	23.75	-7.729e+05
23	5	1.054e+05	13.36	-0.02	9890.84	0.0	91.73	4776.98	0.11	-164.38	-22.00	-2.696e+05
		-3.245e+05	-22.00	-8.26e-06	0.0	325.5	91.73	-5113.87	0.11	-164.38	13.36	-3.245e+05
23	6	1.103e+05	13.26	-0.02	9890.84	0.0	110.17	4815.42	0.12	-220.38	-25.46	-2.710e+05
		-3.133e+05	-25.46	-8.48e-06	0.0	325.5	110.17	-5075.42	0.12	-220.38	13.26	-3.133e+05
23	7	1.864e+05	18.22	-0.02	-1.769e+04	0.0	-46.41	8461.69	0.15	-310.16	-29.80	-4.708e+05
		-5.962e+05	-29.80	-1.33e-05	0.0	325.5	-46.41	-9232.35	0.15	-310.16	18.22	-5.962e+05
23	8	1.914e+05	18.12	-0.03	-1.769e+04	0.0	-27.97	8500.14	0.16	-366.16	-33.26	-4.721e+05
		-5.850e+05	-33.26	-1.35e-05	0.0	325.5	-27.97	-9193.90	0.16	-366.16	18.12	-5.850e+05
23	9	1.739e+05	18.79	-0.03	-1.546e+04	0.0	110.07	7515.20	0.17	-374.29	-38.12	-4.202e+05
		-4.900e+05	-38.12	-1.29e-05	0.0	325.5	110.07	-7943.96	0.17	-374.29	18.79	-4.900e+05
23	10	2.208e+05	22.39	-0.03	-2.092e+04	0.0	-23.49	1.002e+04	0.18	-364.33	-36.66	-5.584e+05
		-7.026e+05	-36.66	-1.59e-05	0.0	325.5	-23.49	-1.090e+04	0.18	-364.33	22.39	-7.026e+05
23	11	2.306e+05	22.19	-0.03	-2.092e+04	0.0	13.37	1.009e+04	0.20	-476.33	-43.58	-5.611e+05
		-6.803e+05	-43.58	-1.64e-05	0.0	325.5	13.37	-1.083e+04	0.20	-476.33	22.19	-6.803e+05
23	12	1.152e+05	13.16	-0.02	9890.84	0.0	128.60	4853.87	0.13	-276.38	-28.92	-2.723e+05
		-3.021e+05	-28.92	-8.71e-06	0.0	325.5	128.60	-5036.97	0.13	-276.38	13.16	-3.021e+05
23	13	1.621e+05	16.76	-0.02	-1.535e+04	0.0	-4.97	7356.28	0.14	-266.43	-27.46	-4.104e+05
		-5.147e+05	-27.46	-1.18e-05	0.0	325.5	-4.97	-7996.80	0.14	-266.43	16.76	-5.147e+05
23	14	1.720e+05	16.57	-0.03	-1.535e+04	0.0	31.90	7433.17	0.16	-378.43	-34.38	-4.131e+05
		-4.923e+05	-34.38	-1.22e-05	0.0	325.5	31.90	-7919.91	0.16	-378.43	16.57	-4.923e+05
23	15	1.234e+05	14.44	-0.02	-1.162e+04	0.0	61.04	5595.80	0.12	-196.78	-23.73	-3.143e+05
		-3.848e+05	-23.73	-9.38e-06	0.0	325.5	61.04	-6029.08	0.12	-196.78	14.44	-3.848e+05
23	16	1.267e+05	14.37	-0.02	-1.162e+04	0.0	73.32	5621.43	0.12	-234.11	-26.04	-3.152e+05
		-3.774e+05	-26.04	-9.53e-06	0.0	325.5	73.32	-6003.45	0.12	-234.11	14.37	-3.774e+05
23	17	1.774e+05	17.68	-0.02	-1.683e+04	0.0	-31.06	8052.28	0.14	-293.96	-28.93	-4.484e+05
		-5.660e+05	-28.93	-1.27e-05	0.0	325.5	-31.06	-8774.74	0.14	-293.96	17.68	-5.660e+05
23	18	1.807e+05	17.61	-0.02	-1.683e+04	0.0	-18.77	8077.91	0.15	-331.30	-31.24	-4.493e+05
		-5.586e+05	-31.24	-1.29e-05	0.0	325.5	-18.77	-8749.11	0.15	-331.30	17.61	-5.586e+05
23	19	1.300e+05	14.31	-0.02	-1.162e+04	0.0	85.61	5647.06	0.13	-271.44	-28.34	-3.161e+05
		-3.699e+05	-28.34	-9.68e-06	0.0	325.5	85.61	-5977.82	0.13	-271.44	14.31	-3.699e+05
23	20	1.612e+05	16.71	-0.02	-1.527e+04	0.0	-3.43	7315.34	0.14	-264.81	-27.37	-4.082e+05
		-5.117e+05	-27.37	-1.17e-05	0.0	325.5	-3.43	-7951.04	0.14	-264.81	16.71	-5.117e+05
23	21	1.678e+05	16.58	-0.02	-1.527e+04	0.0	21.15	7366.60	0.15	-339.47	-31.98	-4.100e+05
		-4.968e+05	-31.98	-1.20e-05	0.0	325.5	21.15	-7899.78	0.15	-339.47	16.58	-4.968e+05
23	22	1.457e+05	783.39	-0.02	-1.475e+04	0.0	319.07	7097.40	10.43	-1.641e+04	-2612.92	-4.095e+05
		-4.992e+05	-2612.92	-0.01	0.0	325.5	319.07	-7648.76	10.43	-1.641e+04	783.39	-4.992e+05
23	23	1.657e+05	2580.99	-0.02	-1.475e+04	0.0	-292.00	7048.66	-10.24	1.648e+04	2580.99	-3.814e+05
		-4.870e+05	-751.57	0.01	0.0	325.5	-292.00	-7697.50	-10.24	1.648e+04	-751.57	-4.870e+05
23	24	1.205e+06	576.00	0.16	-1.475e+04	0.0	-285.05	1.478e+04	-3.88	2714.80	576.00	-1.205e+06
		-1.205e+06	-686.84	3.54e-03	0.0	325.5	-285.05	31.99	-3.88	2714.80	-686.84	1.205e+06
23	25	1.205e+06	684.56	-0.20	-1.475e+04	0.0	440.48	-31.41	4.01	-3186.74	-621.91	1.205e+06
		-1.205e+06	-621.91	-3.48e-03	0.0	325.5	440.48	-1.478e+04	4.01	-3186.74	684.56	1.205e+06
23	26	1.450e+05	767.81	-0.02	-1.475e+04	0.0	287.52	7094.04	10.07	-1.913e+04	-2509.88	-4.096e+05
		-5.004e+05	-2509.88	-0.01	0.0	325.5	287.52	-7652.13	10.07	-1.913e+04	767.81	-5.004e+05
23	27	1.665e+05	2473.22	-0.02	-1.475e+04	0.0	-248.19	7051.78	-9.86	1.815e+04	2473.22	-3.812e+05
		-4.858e+05	-737.06	0.01	0.0	325.5	-248.19	-7694.38	-9.86	1.815e+04	-737.06	-4.858e+05
23	28	1.043e+06	270.34	0.12	-1.475e+04	0.0	-46.71	1.427e+04	-1.84	1553.76	270.34	-1.203e+06
		-1.203e+06	-329.33	8.89e-04	0.0	325.5	-46.71	-472.14	-1.84	1553.76	-329.33	1.043e+06
23	29	9.648e+05	357.01	-0.16	-1.475e+04	0.0	402.54	728.47	2.12	-2046.87	-334.04	9.593e+05
		-1.204e+06	-334.04	-9.15e-04	0.0	325.5	402.54	-1.402e+04	2.12	-2046.87	357.01	-1.204e+06
23	30	1.454e+05	332.05	-0.02	-1.475e+04	0.0	304.85	7099.22	6.95	-1.681e+04	-1930.54	-4.100e+05
		-4.991e+05	-1930.54	-0.01	0.0	325.5	304.85	-7646.95	6.95	-1.681e+04	332.05	-4.991e+05
23	31	1.656e+05	1901.52	-0.02	-1.475e+04	0.0	-296.20	7046.50	-6.72	1.516e+04	1901.52	-3.812e+05
		-4.875e+05	-286.62	0.01	0.0	325.5	-296.20	-7699.67	-6.72	1.516e+04	-286.62	-4.875e+05
23	32	1.204e+06	470.78	0.16	-1.475e+04	0.0	-2.30	1.477e+04	-3.19	2584.12	470.78	-1.204e+06
		-1.204e+06	-566.70	3.16e-03	0.0	325.5	-2.30	25.91	-3.19	2584.12	-566.70	1.204e+06
23	33	1.204e+06	537.55	-0.19	-1.475e+04	0.0	326.63	-25.59	3.17	-3145.94	-495.14	1.204e+06
		-1.204e+06	-495.14	-3.21e-03	0.0	325.5	326.63	-1.477e+04	3.17	-3145.94	537.55	1.204e+06
23	34	1.454e+05	332.05	-0.02	-1.475e+04	0.0	304.85	7099.22	6.95	-1.681e+04	-1930.54	-4.100e+05
		-4.991e+05	-1930.54	-0.01	0.0	325.5	304.85	-7646.95	6.95	-1.681e+04	332.05	-4.991e+05
23	35	1.656e+05	1901.52	-0.02	-1.475e+04	0.0	-296.20	7046.50	-6.72	1.516e+04	1901.52	-3.812e+05
		-4.875e+05	-286.62	0.01	0.0	325.5	-296.20	-7699.67	-6.72	1.516e+04	-286.62	-4.875e+05
23	36	1.203e+06	236.72	0.14	-1.475e+04	0.0	115.08	1.477e+04	-1.61	1740.64	236.72	-1.204e+06
		-1.204e+06	-286.15	9.56e-04	0.0	325.5	115.08	20.23	-1.61	1740.64	-286.15	1.203e+06
23	37	1.141e+06	301.69	-0.17	-1.475e+04	0.0	312.67	168.40	1.82	-2197.42	-291.40	1.141e+06
		-1.204e+06	-291.40	-9.36e-04	0.0	325.5	312.67	-1.458e+04	1.82	-2197.42	301.69	-1.204e+06
23	38	1.234e+05	14.44	-0.02	-1.162e+04	0.0	61.04	5595.80	0.12	-196.78	-23.73	-3.143e+05
		-3.848e+05	-23.73	-9.38e-06	0.0	325.5	61.04	-6029.08	0.12	-196.78	14.44	-3.848e+05
23	39	1.612e+05	16.71	-0.02	-1.527e+04	0.0	-3.43	7315.34	0.14	-264.81	-27.37	-4.082e+05
		-5.117e+05	-27.37	-1.17e-05	0.0	325.5	-3.43	-7951.04	0.14	-264.81	16.71	-5.117e+05
23	40	1.247e+05	14.41	-0.02	-1.162e+04	0.0	65.95	5606.05	0.12	-211.71	-24.66	-3.147e+05
		-3.819e+05	-24.66	-9.44e-06	0.0	325.5	65.95	-6018.83	0.12	-211.71	14.41	-3.819e+05
23	41	1.558e+05	16.38	-0.02	-1.475e+04	0.0	5.78	7069.69	0.13	-255.09	-26.85	-3.948e+05
		-4.935e+05	-26.85	-1.14e-05	0.0	325.5	5.78	-7676.48	0.13	-255.09	16.38	-4.935e+05
23	42	1.571e+05	16.36	-0.02	-1.475e+04	0.0	10.69	7079.94	0.14	-270.02	-27.77	-3.951e+05

		-4.906e+05	-27.77	-1.15e-05	0.0	325.5	10.69	-7666.22	0.14	-270.02	16.36	-4.906e+05
23	43	1.234e+05	14.44	-0.02	-1.162e+04	0.0	61.04	5595.80	0.12	-196.78	-23.73	-3.143e+05
		-3.848e+05	-23.73	-9.38e-06	0.0	325.5	61.04	-6029.08	0.12	-196.78	14.44	-3.848e+05
23	44	1.558e+05	16.38	-0.02	-1.475e+04	0.0	5.78	7069.69	0.13	-255.09	-26.85	-3.948e+05
		-4.935e+05	-26.85	-1.14e-05	0.0	325.5	5.78	-7676.48	0.13	-255.09	16.38	-4.935e+05
23	45	1.234e+05	14.44	-0.02	-1.162e+04	0.0	61.04	5595.80	0.12	-196.78	-23.73	-3.143e+05
		-3.848e+05	-23.73	-9.38e-06	0.0	325.5	61.04	-6029.08	0.12	-196.78	14.44	-3.848e+05
23	46	1.558e+05	16.38	-0.02	-1.475e+04	0.0	5.78	7069.69	0.13	-255.09	-26.85	-3.948e+05
		-4.935e+05	-26.85	-1.14e-05	0.0	325.5	5.78	-7676.48	0.13	-255.09	16.38	-4.935e+05
24	1	4.861e+05	16.01	-0.08	-2.087e+04	0.0	264.07	1.086e+04	0.06	-617.68	-10.23	-7.526e+05
		-7.526e+05	-10.23	-1.61e-05	0.0	439.5	264.07	-1.002e+04	0.06	-617.68	16.01	-5.686e+05
24	2	4.825e+05	16.65	-0.08	-2.087e+04	0.0	350.36	1.076e+04	0.07	21.91	-14.68	-7.350e+05
		-7.350e+05	-14.68	-2.63e-05	0.0	439.5	350.36	-1.011e+04	0.07	21.91	16.65	-5.934e+05
24	3	7.380e+05	28.04	-0.12	-3.141e+04	0.0	88.35	1.628e+04	0.09	1304.89	-12.85	-1.114e+06
		-1.114e+06	-12.85	-1.74e-05	0.0	439.5	88.35	-1.513e+04	0.09	1304.89	28.04	-8.611e+05
24	4	7.343e+05	28.67	-0.11	-3.141e+04	0.0	174.64	1.618e+04	0.10	1944.47	-17.31	-1.097e+06
		-1.097e+06	-17.31	-2.60e-05	0.0	439.5	174.64	-1.523e+04	0.10	1944.47	28.67	-8.858e+05
24	5	3.094e+05	9.24	-0.05	-1.335e+04	0.0	248.19	6959.07	0.04	-968.10	-7.19	-4.862e+05
		-4.862e+05	-7.19	-1.25e-05	0.0	439.5	248.19	-6395.84	0.04	-968.10	9.24	-3.624e+05
24	6	3.058e+05	9.87	-0.05	-1.335e+04	0.0	334.48	6862.86	0.05	-328.52	-11.65	-4.687e+05
		-4.687e+05	-11.65	-2.28e-05	0.0	439.5	334.48	-6492.06	0.05	-328.52	9.87	-3.872e+05
24	7	5.612e+05	21.26	-0.09	-2.389e+04	0.0	72.47	1.238e+04	0.07	954.46	-9.82	-8.478e+05
		-8.478e+05	-9.82	-1.33e-05	0.0	439.5	72.47	-1.151e+04	0.07	954.46	21.26	-6.549e+05
24	8	5.576e+05	21.89	-0.08	-2.389e+04	0.0	158.76	1.229e+04	0.08	1594.05	-14.28	-8.302e+05
		-8.302e+05	-14.28	-2.22e-05	0.0	439.5	158.76	-1.160e+04	0.08	1594.05	21.89	-6.796e+05
24	9	4.789e+05	17.29	-0.07	-2.087e+04	0.0	436.66	1.066e+04	0.08	661.49	-19.14	-7.175e+05
		-7.175e+05	-19.14	-3.66e-05	0.0	439.5	436.66	-1.021e+04	0.08	661.49	17.29	-6.181e+05
24	10	6.624e+05	24.43	-0.10	-2.825e+04	0.0	141.07	1.465e+04	0.08	728.12	-12.07	-1.006e+06
		-1.006e+06	-12.07	-1.68e-05	0.0	439.5	141.07	-1.360e+04	0.08	728.12	24.43	-7.733e+05
24	11	6.552e+05	25.70	-0.10	-2.825e+04	0.0	313.65	1.446e+04	0.11	2007.28	-20.98	-9.706e+05
		-9.706e+05	-20.98	-3.61e-05	0.0	439.5	313.65	-1.379e+04	0.11	2007.28	25.70	-8.229e+05
24	12	3.021e+05	10.51	-0.05	-1.335e+04	0.0	420.77	6766.65	0.06	311.06	-16.11	-4.511e+05
		-4.511e+05	-16.11	-3.31e-05	0.0	439.5	420.77	-6588.27	0.06	311.06	10.51	-4.119e+05
24	13	4.857e+05	17.65	-0.08	-2.073e+04	0.0	125.19	1.076e+04	0.06	377.69	-9.03	-7.393e+05
		-7.393e+05	-9.03	-1.28e-05	0.0	439.5	125.19	-9973.37	0.06	377.69	17.65	-5.671e+05
24	14	4.784e+05	18.93	-0.07	-2.073e+04	0.0	297.77	1.056e+04	0.08	1656.86	-17.95	-7.042e+05
		-7.042e+05	-17.95	-3.26e-05	0.0	439.5	297.77	-1.017e+04	0.08	1656.86	18.93	-6.166e+05
24	15	3.653e+05	11.91	-0.06	-1.570e+04	0.0	209.14	8164.71	0.04	-540.86	-7.78	-5.665e+05
		-5.665e+05	-7.78	-1.23e-05	0.0	439.5	209.14	-7531.57	0.04	-540.86	11.91	-4.274e+05
24	16	3.629e+05	12.33	-0.06	-1.570e+04	0.0	266.67	8100.57	0.05	-114.48	-10.75	-5.549e+05
		-5.549e+05	-10.75	-1.92e-05	0.0	439.5	266.67	-7595.71	0.05	-114.48	12.33	-4.439e+05
24	17	5.332e+05	19.92	-0.08	-2.272e+04	0.0	91.99	1.178e+04	0.07	740.85	-9.53	-8.076e+05
		-8.076e+05	-9.53	-1.31e-05	0.0	439.5	91.99	-1.094e+04	0.07	740.85	19.92	-6.224e+05
24	18	5.308e+05	20.35	-0.08	-2.272e+04	0.0	149.52	1.172e+04	0.07	1167.23	-12.50	-7.959e+05
		-7.959e+05	-12.50	-1.90e-05	0.0	439.5	149.52	-1.100e+04	0.07	1167.23	20.35	-6.389e+05
24	19	3.605e+05	12.76	-0.06	-1.570e+04	0.0	324.20	8036.42	0.06	311.91	-13.72	-5.432e+05
		-5.432e+05	-13.72	-2.61e-05	0.0	439.5	324.20	-7659.85	0.06	311.91	12.76	-4.604e+05
24	20	4.829e+05	17.52	-0.08	-2.061e+04	0.0	127.14	1.070e+04	0.06	356.33	-9.00	-7.353e+05
		-7.353e+05	-9.00	-1.28e-05	0.0	439.5	127.14	-9916.59	0.06	356.33	17.52	-5.639e+05
24	21	4.780e+05	18.37	-0.07	-2.061e+04	0.0	242.19	1.057e+04	0.08	1209.11	-14.95	-7.119e+05
		-7.119e+05	-14.95	-2.57e-05	0.0	439.5	242.19	-1.004e+04	0.08	1209.11	18.37	-5.969e+05
24	22	4.697e+05	3035.82	-0.09	-1.991e+04	0.0	316.00	1.062e+04	12.44	4.555e+05	-2433.60	-7.717e+05
		-7.717e+05	-2433.60	-0.02	0.0	439.5	316.00	-9289.24	12.44	4.555e+05	3035.82	-4.790e+05
24	23	4.638e+05	2417.67	-0.06	-1.991e+04	0.0	-20.06	1.006e+04	-12.36	-4.666e+05	2417.67	-6.536e+05
		-6.536e+05	-3012.93	0.02	0.0	439.5	-20.06	-9848.14	-12.36	-4.666e+05	-3012.93	-6.065e+05
24	24	1.422e+06	363.72	0.28	-1.991e+04	0.0	561.97	1.544e+04	0.15	6987.39	296.92	-1.205e+06
		-1.205e+06	296.92	5.11e-03	0.0	439.5	561.97	-4473.68	0.15	6987.39	363.72	1.204e+06
24	25	1.422e+06	-321.56	-0.36	-1.991e+04	0.0	-383.18	4473.76	-0.07	-6605.11	-321.56	1.204e+06
		-1.205e+06	-353.14	-5.09e-03	0.0	439.5	-383.18	-1.544e+04	-0.07	-6605.11	-353.14	-1.205e+06
24	26	4.700e+05	2778.21	-0.09	-1.991e+04	0.0	305.16	1.064e+04	11.34	3.744e+05	-2206.26	-7.748e+05
		-7.748e+05	-2206.26	-0.02	0.0	439.5	305.16	-9275.64	11.34	3.744e+05	2778.21	-4.760e+05
24	27	4.638e+05	2182.95	-0.06	-1.991e+04	0.0	-8.45	1.005e+04	-11.22	-4.049e+05	2182.95	-6.499e+05
		-6.499e+05	-2746.25	0.02	0.0	439.5	-8.45	-9864.77	-11.22	-4.049e+05	-2746.25	-6.101e+05
24	28	1.090e+06	328.59	0.19	-1.991e+04	0.0	297.09	1.442e+04	0.50	5006.79	108.87	-1.203e+06
		-1.203e+06	108.87	1.43e-03	0.0	439.5	297.09	-5487.46	0.50	5006.79	328.59	7.602e+05
24	29	9.370e+05	-138.39	-0.24	-1.991e+04	0.0	321.43	5982.06	-0.36	-4541.80	-138.39	5.427e+05
		-1.204e+06	-297.20	-1.49e-03	0.0	439.5	321.43	-1.393e+04	-0.36	-4541.80	-297.20	-1.204e+06
24	30	4.700e+05	2270.73	-0.09	-1.991e+04	0.0	294.56	1.063e+04	9.25	4.097e+05	-1795.05	-7.735e+05
		-7.735e+05	-1795.05	-0.02	0.0	439.5	294.56	-9280.87	9.25	4.097e+05	2270.73	-4.771e+05
24	31	4.638e+05	1795.96	-0.06	-1.991e+04	0.0	0.08	1.006e+04	-9.25	-4.323e+05	1795.96	-6.540e+05
		-6.540e+05	-2267.66	0.02	0.0	439.5	0.08	-9846.35	-9.25	-4.323e+05	-2267.66	-6.061e+05
24	32	1.422e+06	285.22	0.27	-1.991e+04	0.0	644.71	1.543e+04	-0.37	6773.53	285.22	-1.204e+06
		-1.204e+06	123.58	4.44e-03	0.0	439.5	644.71	-4477.04	-0.37	6773.53	123.58	1.203e+06
24	33	1.422e+06	-87.58	-0.36	-1.991e+04	0.0	-215.16	4476.95	0.48	-6552.91	-300.11	1.203e+06
		-1.205e+06	-300.11	-4.56e-03	0.0	439.5	-215.16	-1.543e+04	0.48	-6552.91	-87.58	-1.205e+06
24	34	4.700e+05	2270.73	-0.09	-1.991e+04	0.0	294.56	1.063e+04	9.25	4.097e+05	-1795.05	-7.735e+05
		-7.735e+05	-1795.05	-0.02	0.0	439.5	294.56	-9280.87	9.25	4.097e+05	2270.73	-4.771e+05

24	35	4.638e+05	1795.96	-0.06	-1.991e+04	0.0	0.08	1.006e+04	-9.25	-4.323e+05	1795.96	-6.540e+05
		-6.540e+05	-2267.66	0.02	0.0	439.5	0.08	-9846.35	-9.25	-4.323e+05	-2267.66	-6.061e+05
24	36	1.210e+06	166.17	0.21	-1.991e+04	0.0	344.46	1.479e+04	0.10	5464.89	121.33	-1.204e+06
		-1.204e+06	121.33	1.43e-03	0.0	439.5	344.46	-5122.60	0.10	5464.89	166.17	9.205e+05
24	37	1.043e+06	-133.82	-0.26	-1.991e+04	0.0	357.79	5629.15	0.02	-4863.29	-143.81	6.976e+05
		-1.204e+06	-143.81	-1.43e-03	0.0	439.5	357.79	-1.428e+04	0.02	-4863.29	-133.82	-1.204e+06
24	38	3.653e+05	11.91	-0.06	-1.570e+04	0.0	209.14	8164.71	0.04	-540.86	-7.78	-5.665e+05
		-5.665e+05	-7.78	-1.23e-05	0.0	439.5	209.14	-7531.57	0.04	-540.86	11.91	-4.274e+05
24	39	4.829e+05	17.52	-0.08	-2.061e+04	0.0	127.14	1.070e+04	0.06	356.33	-9.00	-7.353e+05
		-7.353e+05	-9.00	-1.28e-05	0.0	439.5	127.14	-9916.59	0.06	356.33	17.52	-5.639e+05
24	40	3.644e+05	12.08	-0.06	-1.570e+04	0.0	232.15	8139.05	0.05	-370.31	-8.97	-5.619e+05
		-5.619e+05	-8.97	-1.51e-05	0.0	439.5	232.15	-7557.22	0.05	-370.31	12.08	-4.340e+05
24	41	4.661e+05	16.72	-0.07	-1.991e+04	0.0	138.85	1.033e+04	0.06	228.16	-8.83	-7.112e+05
		-7.112e+05	-8.83	-1.27e-05	0.0	439.5	138.85	-9575.87	0.06	228.16	16.72	-5.444e+05
24	42	4.651e+05	16.89	-0.07	-1.991e+04	0.0	161.86	1.031e+04	0.06	398.72	-10.02	-7.065e+05
		-7.065e+05	-10.02	-1.50e-05	0.0	439.5	161.86	-9601.53	0.06	398.72	16.89	-5.510e+05
24	43	3.653e+05	11.91	-0.06	-1.570e+04	0.0	209.14	8164.71	0.04	-540.86	-7.78	-5.665e+05
		-5.665e+05	-7.78	-1.23e-05	0.0	439.5	209.14	-7531.57	0.04	-540.86	11.91	-4.274e+05
24	44	4.661e+05	16.72	-0.07	-1.991e+04	0.0	138.85	1.033e+04	0.06	228.16	-8.83	-7.112e+05
		-7.112e+05	-8.83	-1.27e-05	0.0	439.5	138.85	-9575.87	0.06	228.16	16.72	-5.444e+05
24	45	3.653e+05	11.91	-0.06	-1.570e+04	0.0	209.14	8164.71	0.04	-540.86	-7.78	-5.665e+05
		-5.665e+05	-7.78	-1.23e-05	0.0	439.5	209.14	-7531.57	0.04	-540.86	11.91	-4.274e+05
24	46	4.661e+05	16.72	-0.07	-1.991e+04	0.0	138.85	1.033e+04	0.06	228.16	-8.83	-7.112e+05
		-7.112e+05	-8.83	-1.27e-05	0.0	439.5	138.85	-9575.87	0.06	228.16	16.72	-5.444e+05
25	1	4.932e+05	7.68	-0.08	-2.118e+04	0.0	263.50	1.101e+04	-0.05	807.20	7.68	-7.628e+05
		-7.628e+05	-13.91	1.09e-05	0.0	439.5	263.50	-1.017e+04	-0.05	807.20	-13.91	-5.786e+05
25	2	4.895e+05	11.74	-0.08	-2.118e+04	0.0	350.74	1.091e+04	-0.06	178.57	11.74	-7.450e+05
		-7.450e+05	-14.80	1.79e-05	0.0	439.5	350.74	-1.027e+04	-0.06	178.57	-14.80	-6.036e+05
25	3	7.491e+05	9.62	-0.12	-3.190e+04	0.0	85.52	1.653e+04	-0.08	-1079.64	9.62	-1.130e+06
		-1.130e+06	-24.07	1.20e-05	0.0	439.5	85.52	-1.537e+04	-0.08	-1079.64	-24.07	-8.761e+05
25	4	7.454e+05	13.68	-0.11	-3.190e+04	0.0	172.76	1.643e+04	-0.09	-1708.27	13.68	-1.113e+06
		-1.113e+06	-24.96	1.77e-05	0.0	439.5	172.76	-1.547e+04	-0.09	-1708.27	-24.96	-9.011e+05
25	5	3.137e+05	5.41	-0.05	-1.355e+04	0.0	248.33	7056.20	-0.03	1104.73	5.41	-4.925e+05
		-4.925e+05	-8.09	8.35e-06	0.0	439.5	248.33	-6493.06	-0.03	1104.73	-8.09	-3.687e+05
25	6	3.101e+05	9.47	-0.05	-1.355e+04	0.0	335.57	6958.90	-0.04	476.10	9.47	-4.748e+05
		-4.748e+05	-8.98	1.58e-05	0.0	439.5	335.57	-6590.36	-0.04	476.10	-8.98	-3.938e+05
25	7	5.696e+05	7.35	-0.09	-2.426e+04	0.0	70.35	1.257e+04	-0.06	-782.11	7.35	-8.600e+05
		-8.600e+05	-18.26	9.20e-06	0.0	439.5	70.35	-1.169e+04	-0.06	-782.11	-18.26	-6.663e+05
25	8	5.660e+05	11.41	-0.09	-2.426e+04	0.0	157.59	1.247e+04	-0.07	-1410.74	11.41	-8.423e+05
		-8.423e+05	-19.14	1.50e-05	0.0	439.5	157.59	-1.179e+04	-0.07	-1410.74	-19.14	-6.913e+05
25	9	4.858e+05	15.81	-0.07	-2.118e+04	0.0	437.98	1.082e+04	-0.07	-450.05	15.81	-7.273e+05
		-7.273e+05	-15.68	2.53e-05	0.0	439.5	437.98	-1.037e+04	-0.07	-450.05	-15.68	-6.286e+05
25	10	6.723e+05	9.03	-0.11	-2.868e+04	0.0	138.92	1.487e+04	-0.07	-513.59	9.03	-1.020e+06
		-1.020e+06	-21.02	1.16e-05	0.0	439.5	138.92	-1.381e+04	-0.07	-513.59	-21.02	-7.868e+05
25	11	6.650e+05	17.16	-0.10	-2.868e+04	0.0	313.39	1.468e+04	-0.09	-1770.84	17.16	-9.846e+05
		-9.846e+05	-22.80	2.44e-05	0.0	439.5	313.39	-1.401e+04	-0.09	-1770.84	-22.80	-8.369e+05
25	12	3.064e+05	13.54	-0.05	-1.355e+04	0.0	422.80	6861.60	-0.05	-152.52	13.54	-4.571e+05
		-4.571e+05	-9.87	2.32e-05	0.0	439.5	422.80	-6687.66	-0.05	-152.52	-9.87	-4.188e+05
25	13	4.929e+05	6.76	-0.08	-2.105e+04	0.0	123.74	1.092e+04	-0.05	-216.06	6.76	-7.498e+05
		-7.498e+05	-15.21	8.77e-06	0.0	439.5	123.74	-1.013e+04	-0.05	-216.06	-15.21	-5.770e+05
25	14	4.855e+05	14.89	-0.07	-2.105e+04	0.0	298.22	1.072e+04	-0.07	-1473.31	14.89	-7.143e+05
		-7.143e+05	-16.98	2.24e-05	0.0	439.5	298.22	-1.033e+04	-0.07	-1473.31	-16.98	-6.271e+05
25	15	3.706e+05	5.84	-0.06	-1.593e+04	0.0	208.78	8281.71	-0.04	685.43	5.84	-5.742e+05
		-5.742e+05	-10.35	8.33e-06	0.0	439.5	208.78	-7647.78	-0.04	685.43	-10.35	-4.349e+05
25	16	3.682e+05	8.55	-0.06	-1.593e+04	0.0	266.94	8216.84	-0.04	266.35	8.55	-5.624e+05
		-5.624e+05	-10.94	1.30e-05	0.0	439.5	266.94	-7712.65	-0.04	266.35	-10.94	-4.516e+05
25	17	5.412e+05	7.13	-0.09	-2.307e+04	0.0	90.13	1.196e+04	-0.06	-572.46	7.13	-8.192e+05
		-8.192e+05	-17.13	9.01e-06	0.0	439.5	90.13	-1.111e+04	-0.06	-572.46	-17.13	-6.332e+05
25	18	5.388e+05	9.84	-0.08	-2.307e+04	0.0	148.28	1.189e+04	-0.06	-991.55	9.84	-8.074e+05
		-8.074e+05	-17.72	1.29e-05	0.0	439.5	148.28	-1.118e+04	-0.06	-991.55	-17.72	-6.499e+05
25	19	3.657e+05	11.26	-0.06	-1.593e+04	0.0	325.10	8151.97	-0.05	-152.74	11.26	-5.505e+05
		-5.505e+05	-11.53	1.80e-05	0.0	439.5	325.10	-7777.52	-0.05	-152.74	-11.53	-4.683e+05
25	20	4.900e+05	6.74	-0.08	-2.093e+04	0.0	125.72	1.086e+04	-0.05	-195.10	6.74	-7.457e+05
		-7.457e+05	-15.10	8.76e-06	0.0	439.5	125.72	-1.007e+04	-0.05	-195.10	-15.10	-5.737e+05
25	21	4.851e+05	12.16	-0.07	-2.093e+04	0.0	242.04	1.073e+04	-0.06	-1033.26	12.16	-7.221e+05
		-7.221e+05	-16.28	1.74e-05	0.0	439.5	242.04	-1.020e+04	-0.06	-1033.26	-16.28	-6.071e+05
25	22	4.707e+05	2997.96	-0.06	-2.021e+04	0.0	-17.21	1.021e+04	12.29	4.644e+05	-2404.76	-6.630e+05
		-6.630e+05	-2404.76	-0.02	0.0	439.5	-17.21	-1.000e+04	12.29	4.644e+05	2997.96	-6.166e+05
25	23	4.764e+05	2421.30	-0.09	-2.021e+04	0.0	310.78	1.078e+04	-12.39	-4.529e+05	2421.30	-7.824e+05
		-7.824e+05	-3022.10	0.02	0.0	439.5	310.78	-9436.57	-12.39	-4.529e+05	-3022.10	-4.878e+05
25	24	1.435e+06	17.38	0.27	-2.021e+04	0.0	565.84	1.559e+04	-1.27	-6412.56	17.38	-1.205e+06
		-1.205e+06	-538.90	3.85e-03	0.0	439.5	565.84	-4625.25	-1.27	-6412.56	-538.90	1.204e+06
25	25	1.435e+06	524.19	-0.36	-2.021e+04	0.0	-384.41	4625.33	1.17	6376.02	9.54	1.204e+06
		-1.205e+06	9.54	-3.67e-03	0.0	439.5	-384.41	-1.559e+04	1.17	6376.02	524.19	-1.205e+06
25	26	4.707e+05	2733.77	-0.06	-2.021e+04	0.0	-5.69	1.020e+04	11.16	4.055e+05	-2172.10	-6.595e+05
		-6.595e+05	-2172.10	-0.02	0.0	439.5	-5.69	-1.002e+04	11.16	4.055e+05	2733.77	-6.201e+05
25	27	4.768e+05	2194.03	-0.09	-2.021e+04	0.0	299.97	1.079e+04	-11.28	-3.735e+05	2194.03	-7.853e+05

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              -7.853e+05  -2764.39      0.02      0.0  439.5   299.97  -9423.54  -11.28 -3.735e+05  -2764.39 -4.850e+05
25  28  1.094e+06    -66.08      0.19 -2.021e+04  0.0   297.13  1.455e+04   -0.56  -4669.84    -66.08 -1.203e+06
        -1.203e+06   -312.94  5.59e-04      0.0  439.5   297.13  -5663.79   -0.56  -4669.84   -312.94  7.493e+05
25  29  9.453e+05    285.83     -0.24 -2.021e+04  0.0   321.42   6153.41    0.45   4523.20     89.58  5.340e+05
        -1.204e+06     89.58 -5.22e-04      0.0  439.5   321.42 -1.406e+04    0.45   4523.20    285.83 -1.204e+06
25  30  4.707e+05   2257.19     -0.06 -2.021e+04  0.0     1.02  1.021e+04    9.20  4.297e+05  -1787.50 -6.634e+05
        -6.634e+05  -1787.50     -0.02      0.0  439.5     1.02  -9999.37    9.20  4.297e+05   2257.19 -6.161e+05
25  31  4.767e+05   1785.69     -0.09 -2.021e+04  0.0   291.15  1.079e+04   -9.21 -4.087e+05   1785.69 -7.841e+05
        -7.841e+05  -2260.17      0.02      0.0  439.5   291.15  -9428.46   -9.21 -4.087e+05  -2260.17 -4.859e+05
25  32  1.434e+06      5.29      0.27 -2.021e+04  0.0   649.02  1.559e+04   -0.71  -6234.30      5.29 -1.204e+06
        -1.204e+06   -304.91  3.67e-03      0.0  439.5   649.02  -4628.60   -0.71  -6234.30   -304.91  1.203e+06
25  33  1.434e+06    252.46     -0.36 -2.021e+04  0.0  -214.97   4628.52    0.50   6325.95     33.18  1.203e+06
        -1.205e+06     33.18 -3.69e-03      0.0  439.5  -214.97 -1.559e+04    0.50   6325.95    252.46 -1.205e+06
25  34  4.707e+05   2257.19     -0.06 -2.021e+04  0.0     1.02  1.021e+04    9.20  4.297e+05  -1787.50 -6.634e+05
        -6.634e+05  -1787.50     -0.02      0.0  439.5     1.02  -9999.37    9.20  4.297e+05   2257.19 -6.161e+05
25  35  4.767e+05   1785.69     -0.09 -2.021e+04  0.0   291.15  1.079e+04   -9.21 -4.087e+05   1785.69 -7.841e+05
        -7.841e+05  -2260.17      0.02      0.0  439.5   291.15  -9428.46   -9.21 -4.087e+05  -2260.17 -4.859e+05
25  36  1.214e+06    -81.21      0.21 -2.021e+04  0.0   343.93  1.492e+04   -0.19  -5107.35    -81.21 -1.204e+06
        -1.204e+06   -163.00  8.34e-04      0.0  439.5   343.93  -5298.19   -0.19  -5107.35   -163.00  9.099e+05
25  37  1.052e+06    132.69     -0.27 -2.021e+04  0.0   357.80   5799.94    0.07   4826.40    100.81  6.892e+05
        -1.204e+06    100.81 -7.44e-04      0.0  439.5   357.80 -1.441e+04    0.07   4826.40    132.69 -1.204e+06
25  38  3.706e+05      5.84     -0.06 -1.593e+04  0.0   208.78   8281.71   -0.04    685.43      5.84 -5.742e+05
        -5.742e+05    -10.35  8.33e-06      0.0  439.5   208.78  -7647.78   -0.04    685.43    -10.35 -4.349e+05
25  39  4.900e+05      6.74     -0.08 -2.093e+04  0.0   125.72  1.086e+04   -0.05   -195.10      6.74 -7.457e+05
        -7.457e+05    -15.10  8.76e-06      0.0  439.5   125.72 -1.007e+04   -0.05   -195.10    -15.10 -5.737e+05
25  40  3.696e+05      6.92     -0.06 -1.593e+04  0.0   232.04   8255.76   -0.04    517.80      6.92 -5.694e+05
        -5.694e+05    -10.59  1.01e-05      0.0  439.5   232.04  -7673.73   -0.04    517.80    -10.59 -4.415e+05
25  41  4.730e+05      6.61     -0.08 -2.021e+04  0.0   137.59  1.049e+04   -0.05    -69.31      6.61 -7.212e+05
        -7.212e+05    -14.42  8.68e-06      0.0  439.5   137.59  -9726.29   -0.05    -69.31    -14.42 -5.539e+05
25  42  4.720e+05      7.70     -0.07 -2.021e+04  0.0   160.85  1.046e+04   -0.05   -236.94      7.70 -7.165e+05
        -7.165e+05    -14.65  1.02e-05      0.0  439.5   160.85  -9752.23   -0.05   -236.94    -14.65 -5.606e+05
25  43  3.706e+05      5.84     -0.06 -1.593e+04  0.0   208.78   8281.71   -0.04    685.43      5.84 -5.742e+05
        -5.742e+05    -10.35  8.33e-06      0.0  439.5   208.78  -7647.78   -0.04    685.43    -10.35 -4.349e+05
25  44  4.730e+05      6.61     -0.08 -2.021e+04  0.0   137.59  1.049e+04   -0.05    -69.31      6.61 -7.212e+05
        -7.212e+05    -14.42  8.68e-06      0.0  439.5   137.59  -9726.29   -0.05    -69.31    -14.42 -5.539e+05
25  45  3.706e+05      5.84     -0.06 -1.593e+04  0.0   208.78   8281.71   -0.04    685.43      5.84 -5.742e+05
        -5.742e+05    -10.35  8.33e-06      0.0  439.5   208.78  -7647.78   -0.04    685.43    -10.35 -4.349e+05
25  46  4.730e+05      6.61     -0.08 -2.021e+04  0.0   137.59  1.049e+04   -0.05    -69.31      6.61 -7.212e+05
        -7.212e+05    -14.42  8.68e-06      0.0  439.5   137.59  -9726.29   -0.05    -69.31    -14.42 -5.539e+05
26   1  1.667e+05     29.83     -0.02 -1.569e+04  0.0    71.19   7550.51   -0.15    246.49     29.83 -4.238e+05
        -5.196e+05    -18.59  1.06e-05      0.0  325.5    71.19  -8138.94   -0.15    246.49    -18.59 -5.196e+05
26   2  1.717e+05     32.88     -0.03 -1.569e+04  0.0    89.69   7589.61   -0.16    300.33     32.88 -4.252e+05
        -5.082e+05    -18.19  9.32e-06      0.0  325.5    89.69  -8099.85   -0.16    300.33    -18.19 -5.082e+05
26   3  2.491e+05     37.24     -0.03 -2.362e+04  0.0   -67.96  1.130e+04   -0.19    387.87     37.24 -6.283e+05
        -7.958e+05    -23.71  1.54e-05      0.0  325.5   -67.96 -1.233e+04   -0.19    387.87    -23.71 -7.958e+05
26   4  2.541e+05     40.30     -0.03 -2.362e+04  0.0   -49.47  1.134e+04   -0.20    441.72     40.30 -6.297e+05
        -7.844e+05    -23.32  1.41e-05      0.0  325.5   -49.47 -1.229e+04   -0.20    441.72    -23.32 -7.844e+05
26   5  1.071e+05     21.04     -0.02 -1.003e+04  0.0    90.44   4847.52   -0.10    153.35     21.04 -2.736e+05
        -3.289e+05    -12.98  6.94e-06      0.0  325.5    90.44  -5187.26   -0.10    153.35    -12.98 -3.289e+05
26   6  1.121e+05     24.10     -0.02 -1.003e+04  0.0   108.94   4886.61   -0.11    207.20     24.10 -2.749e+05
        -3.175e+05    -12.59  5.65e-06      0.0  325.5   108.94  -5148.16   -0.11    207.20    -12.59 -3.175e+05
26   7  1.895e+05     28.46     -0.02 -1.797e+04  0.0   -48.71   8593.74   -0.14    294.74     28.46 -4.781e+05
        -6.050e+05    -18.11  1.17e-05      0.0  325.5   -48.71  -9373.78   -0.14    294.74    -18.11 -6.050e+05
26   8  1.945e+05     31.51     -0.03 -1.797e+04  0.0   -30.21   8632.83   -0.15    348.58     31.51 -4.795e+05
        -5.937e+05    -17.71  1.04e-05      0.0  325.5   -30.21  -9334.68   -0.15    348.58    -17.71 -5.937e+05
26   9  1.766e+05     35.94     -0.03 -1.569e+04  0.0   108.19   7628.70   -0.17    354.18     35.94 -4.266e+05
        -4.969e+05    -17.80  8.03e-06      0.0  325.5   108.19  -8060.75   -0.17    354.18    -17.80 -4.969e+05
26  10  2.244e+05     35.02     -0.03 -2.124e+04  0.0   -26.22  1.017e+04   -0.18    345.46     35.02 -5.670e+05
        -7.129e+05    -22.17  1.39e-05      0.0  325.5   -26.22 -1.107e+04   -0.18    345.46    -22.17 -7.129e+05
26  11  2.343e+05     41.13     -0.03 -2.124e+04  0.0    10.78  1.025e+04   -0.19    453.15     41.13 -5.697e+05
        -6.902e+05    -21.38  1.14e-05      0.0  325.5    10.78 -1.099e+04   -0.19    453.15    -21.38 -6.902e+05
26  12  1.170e+05     27.15     -0.02 -1.003e+04  0.0   127.44   4925.71   -0.12    261.04     27.15 -2.763e+05
        -3.062e+05    -12.19  4.36e-06      0.0  325.5   127.44  -5109.07   -0.12    261.04    -12.19 -3.062e+05
26  13  1.648e+05     26.23     -0.02 -1.559e+04  0.0    -6.97   7469.87   -0.13    252.32     26.23 -4.167e+05
        -5.222e+05    -16.57  1.03e-05      0.0  325.5    -6.97  -8117.82   -0.13    252.32    -16.57 -5.222e+05
26  14  1.747e+05     32.35     -0.03 -1.559e+04  0.0    30.03   7548.06   -0.15    360.01     32.35 -4.195e+05
        -4.995e+05    -15.78  7.69e-06      0.0  325.5    30.03  -8039.63   -0.15    360.01    -15.78 -4.995e+05
26  15  1.254e+05     22.69     -0.02 -1.180e+04  0.0    59.52   5680.01   -0.11    184.77     22.69 -3.190e+05
        -3.902e+05    -14.12  8.00e-06      0.0  325.5    59.52  -6117.59   -0.11    184.77    -14.12 -3.902e+05
26  16  1.287e+05     24.73     -0.02 -1.180e+04  0.0    71.85   5706.07   -0.12    220.67     24.73 -3.199e+05
        -3.827e+05    -13.86  7.14e-06      0.0  325.5    71.85  -6091.53   -0.12    220.67    -13.86 -3.827e+05
26  17  1.803e+05     27.63     -0.02 -1.709e+04  0.0   -33.25   8177.49   -0.14    279.03     27.63 -4.554e+05
        -5.744e+05    -17.54  1.12e-05      0.0  325.5   -33.25  -8908.61   -0.14    279.03    -17.54 -5.744e+05
26  18  1.837e+05     29.67     -0.02 -1.709e+04  0.0   -20.92   8203.55   -0.14    314.93     29.67 -4.563e+05
        -5.668e+05    -17.28  1.03e-05      0.0  325.5   -20.92  -8882.55   -0.14    314.93    -17.28 -5.668e+05
26  19  1.320e+05     26.77     -0.02 -1.180e+04  0.0    84.18   5732.14   -0.12    256.56     26.77 -3.209e+05
        -3.751e+05    -13.60  6.28e-06      0.0  325.5    84.18  -6065.47   -0.12    256.56    -13.60 -3.751e+05
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26	20	1.638e+05	26.15	-0.02	-1.550e+04	0.0	-5.42	7428.25	-0.13	250.75	26.15	-4.145e+05
		-5.191e+05	-16.51	1.02e-05	0.0	325.5	-5.42	-8071.30	-0.13	250.75	-16.51	-5.191e+05
26	21	1.705e+05	30.23	-0.02	-1.550e+04	0.0	19.24	7480.37	-0.14	322.55	30.23	-4.163e+05
		-5.040e+05	-15.99	8.50e-06	0.0	325.5	19.24	-8019.18	-0.14	322.55	-15.99	-5.040e+05
26	22	1.684e+05	760.15	-0.02	-1.497e+04	0.0	-285.94	7158.70	10.24	-1.663e+04	-2572.44	-3.876e+05
		-4.939e+05	-2572.44	-0.01	0.0	325.5	-285.94	-7812.00	10.24	-1.663e+04	760.15	-4.939e+05
26	23	1.481e+05	2601.33	-0.02	-1.497e+04	0.0	308.95	7204.93	-10.41	1.642e+04	2601.33	-4.154e+05
		-5.067e+05	-785.78	0.01	0.0	325.5	308.95	-7765.77	-10.41	1.642e+04	-785.78	-5.067e+05
26	24	1.205e+06	156.60	0.16	-1.497e+04	0.0	-284.26	1.489e+04	0.72	-1071.05	-77.67	-1.205e+06
		-1.205e+06	-77.67	3.07e-03	0.0	325.5	-284.26	-80.23	0.72	-1071.05	156.60	1.205e+06
26	25	1.205e+06	127.42	-0.19	-1.497e+04	0.0	439.28	80.82	-0.87	1570.98	127.42	1.205e+06
		-1.205e+06	-155.98	-2.99e-03	0.0	325.5	439.28	-1.489e+04	-0.87	1570.98	-155.98	-1.205e+06
26	26	1.691e+05	745.30	-0.02	-1.497e+04	0.0	-242.56	7161.95	9.87	-1.786e+04	-2466.19	-3.874e+05
		-4.926e+05	-2466.19	-0.01	0.0	325.5	-242.56	-7808.75	9.87	-1.786e+04	745.30	-4.926e+05
26	27	1.474e+05	2498.43	-0.02	-1.497e+04	0.0	277.71	7201.54	-10.04	1.915e+04	2498.43	-4.155e+05
		-5.079e+05	-769.00	0.01	0.0	325.5	277.71	-7769.16	-10.04	1.915e+04	-769.00	-5.079e+05
26	28	1.043e+06	213.01	0.12	-1.497e+04	0.0	-48.52	1.438e+04	1.15	-1194.86	-161.37	-1.203e+06
		-1.203e+06	-161.37	5.78e-04	0.0	325.5	-48.52	-592.01	1.15	-1194.86	213.01	1.040e+06
26	29	9.637e+05	221.23	-0.16	-1.497e+04	0.0	402.64	851.11	-1.42	1659.66	221.23	9.559e+05
		-1.204e+06	-239.63	-5.66e-04	0.0	325.5	402.64	-1.412e+04	-1.42	1659.66	-239.63	-1.204e+06
26	30	1.683e+05	294.74	-0.02	-1.497e+04	0.0	-293.70	7156.60	6.73	-1.539e+04	-1897.41	-3.873e+05
		-4.944e+05	-1897.41	-0.01	0.0	325.5	-293.70	-7814.10	6.73	-1.539e+04	294.74	-4.944e+05
26	31	1.478e+05	1921.62	-0.02	-1.497e+04	0.0	297.96	7206.54	-6.92	1.664e+04	1921.62	-4.159e+05
		-5.067e+05	-330.98	0.01	0.0	325.5	297.96	-7764.16	-6.92	1.664e+04	-330.98	-5.067e+05
26	32	1.204e+06	92.78	0.16	-1.497e+04	0.0	-1.52	1.488e+04	0.37	-1100.07	-28.32	-1.204e+06
		-1.204e+06	-28.32	2.84e-03	0.0	325.5	-1.52	-86.32	0.37	-1100.07	92.78	1.204e+06
26	33	1.204e+06	90.33	-0.19	-1.497e+04	0.0	322.06	86.65	-0.59	1561.99	90.33	1.204e+06
		-1.204e+06	-103.23	-2.89e-03	0.0	325.5	322.06	-1.488e+04	-0.59	1561.99	-103.23	-1.204e+06
26	34	1.683e+05	294.74	-0.02	-1.497e+04	0.0	-293.70	7156.60	6.73	-1.539e+04	-1897.41	-3.873e+05
		-4.944e+05	-1897.41	-0.01	0.0	325.5	-293.70	-7814.10	6.73	-1.539e+04	294.74	-4.944e+05
26	35	1.478e+05	1921.62	-0.02	-1.497e+04	0.0	297.96	7206.54	-6.92	1.664e+04	1921.62	-4.159e+05
		-5.067e+05	-330.98	0.01	0.0	325.5	297.96	-7764.16	-6.92	1.664e+04	-330.98	-5.067e+05
26	36	1.203e+06	187.57	0.14	-1.497e+04	0.0	113.81	1.488e+04	1.02	-1299.63	-144.77	-1.204e+06
		-1.204e+06	-144.77	7.19e-04	0.0	325.5	113.81	-92.02	1.02	-1299.63	187.57	1.203e+06
26	37	1.138e+06	200.73	-0.17	-1.497e+04	0.0	313.94	290.04	-1.25	1754.65	200.73	1.138e+06
		-1.204e+06	-206.64	-6.68e-04	0.0	325.5	313.94	-1.468e+04	-1.25	1754.65	-206.64	-1.204e+06
26	38	1.254e+05	22.69	-0.02	-1.180e+04	0.0	59.52	5680.01	-0.11	184.77	22.69	-3.190e+05
		-3.902e+05	-14.12	8.00e-06	0.0	325.5	59.52	-6117.59	-0.11	184.77	-14.12	-3.902e+05
26	39	1.638e+05	26.15	-0.02	-1.550e+04	0.0	-5.42	7428.25	-0.13	250.75	26.15	-4.145e+05
		-5.191e+05	-16.51	1.02e-05	0.0	325.5	-5.42	-8071.30	-0.13	250.75	-16.51	-5.191e+05
26	40	1.267e+05	23.50	-0.02	-1.180e+04	0.0	64.45	5690.44	-0.12	199.13	23.50	-3.194e+05
		-3.872e+05	-14.02	7.65e-06	0.0	325.5	64.45	-6107.17	-0.12	199.13	-14.02	-3.872e+05
26	41	1.584e+05	25.66	-0.02	-1.497e+04	0.0	3.86	7178.50	-0.13	241.33	25.66	-4.008e+05
		-5.007e+05	-16.17	9.90e-06	0.0	325.5	3.86	-7792.20	-0.13	241.33	-16.17	-5.007e+05
26	42	1.597e+05	26.47	-0.02	-1.497e+04	0.0	8.79	7188.92	-0.13	255.68	26.47	-4.012e+05
		-4.977e+05	-16.07	9.55e-06	0.0	325.5	8.79	-7781.78	-0.13	255.68	-16.07	-4.977e+05
26	43	1.254e+05	22.69	-0.02	-1.180e+04	0.0	59.52	5680.01	-0.11	184.77	22.69	-3.190e+05
		-3.902e+05	-14.12	8.00e-06	0.0	325.5	59.52	-6117.59	-0.11	184.77	-14.12	-3.902e+05
26	44	1.584e+05	25.66	-0.02	-1.497e+04	0.0	3.86	7178.50	-0.13	241.33	25.66	-4.008e+05
		-5.007e+05	-16.17	9.90e-06	0.0	325.5	3.86	-7792.20	-0.13	241.33	-16.17	-5.007e+05
26	45	1.254e+05	22.69	-0.02	-1.180e+04	0.0	59.52	5680.01	-0.11	184.77	22.69	-3.190e+05
		-3.902e+05	-14.12	8.00e-06	0.0	325.5	59.52	-6117.59	-0.11	184.77	-14.12	-3.902e+05
26	46	1.584e+05	25.66	-0.02	-1.497e+04	0.0	3.86	7178.50	-0.13	241.33	25.66	-4.008e+05
		-5.007e+05	-16.17	9.90e-06	0.0	325.5	3.86	-7792.20	-0.13	241.33	-16.17	-5.007e+05
27	1	2.716e+05	19.63	-0.04	-1.579e+04	0.0	116.40	7632.29	0.19	-1892.60	-44.12	-3.320e+05
		-4.174e+05	-44.12	-8.18e-06	0.0	327.5	116.40	-8153.56	0.19	-1892.60	19.63	-4.174e+05
27	2	2.687e+05	22.98	-0.04	-1.579e+04	0.0	158.15	7756.44	0.22	-1145.20	-50.00	-3.552e+05
		-3.999e+05	-50.00	-1.32e-05	0.0	327.5	158.15	-8029.41	0.22	-1145.20	22.98	-3.999e+05
27	3	4.139e+05	24.47	-0.06	-2.377e+04	0.0	-4.75	1.158e+04	0.25	347.30	-57.71	-5.088e+05
		-6.095e+05	-57.71	-6.49e-06	0.0	327.5	-4.75	-1.219e+04	0.25	347.30	24.47	-6.095e+05
27	4	4.110e+05	27.82	-0.07	-2.377e+04	0.0	37.00	1.170e+04	0.28	1094.69	-63.58	-5.319e+05
		-5.920e+05	-63.58	-1.15e-05	0.0	327.5	37.00	-1.207e+04	0.28	1094.69	27.82	-5.920e+05
27	5	1.724e+05	13.86	-0.03	-1.010e+04	0.0	120.60	4859.75	0.14	-2030.18	-30.46	-2.101e+05
		-2.718e+05	-30.46	-6.73e-06	0.0	327.5	120.60	-5236.68	0.14	-2030.18	13.86	-2.718e+05
27	6	1.695e+05	17.21	-0.03	-1.010e+04	0.0	162.35	4983.90	0.16	-1282.78	-36.33	-2.333e+05
		-2.543e+05	-36.33	-1.18e-05	0.0	327.5	162.35	-5112.53	0.16	-1282.78	17.21	-2.543e+05
27	7	3.147e+05	18.70	-0.05	-1.808e+04	0.0	-0.55	8803.60	0.19	209.72	-44.04	-3.868e+05
		-4.639e+05	-44.04	-5.04e-06	0.0	327.5	-0.55	-9274.32	0.19	209.72	18.70	-4.639e+05
27	8	3.118e+05	22.05	-0.05	-1.808e+04	0.0	41.20	8927.75	0.22	957.11	-49.92	-4.100e+05
		-4.464e+05	-49.92	-1.01e-05	0.0	327.5	41.20	-9150.17	0.22	957.11	22.05	-4.464e+05
27	9	2.658e+05	26.33	-0.05	-1.579e+04	0.0	199.90	7880.59	0.25	-397.81	-55.87	-3.784e+05
		-3.824e+05	-55.87	-1.83e-05	0.0	327.5	199.90	-7905.26	0.25	-397.81	26.33	-3.824e+05
27	10	3.712e+05	23.02	-0.06	-2.137e+04	0.0	31.59	1.039e+04	0.23	-324.67	-53.63	-4.557e+05
		-5.518e+05	-53.63	-7.00e-06	0.0	327.5	31.59	-1.098e+04	0.23	-324.67	23.02	-5.518e+05
27	11	3.654e+05	29.71	-0.06	-2.137e+04	0.0	115.10	1.064e+04	0.29	1170.12	-65.38	-5.021e+05
		-5.169e+05	-65.38	-1.71e-05	0.0	327.5	115.10	-1.073e+04	0.29	1170.12	29.71	-5.169e+05
27	12	1.667e+05	20.56	-0.03	-1.010e+04	0.0	204.11	5108.05	0.19	-535.39	-42.20	-2.564e+05

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           -2.564e+05   -42.20  -1.68e-05        0.0   327.5    204.11  -4988.38   0.19    -535.39    20.56 -2.369e+05
27  13  2.720e+05    17.25      -0.04 -1.568e+04   0.0     35.80   7620.44   0.17    -462.25  -39.97 -3.338e+05
           -4.063e+05   -39.97  -5.54e-06        0.0   327.5     35.80  -8063.03   0.17    -462.25    17.25 -4.063e+05
27  14  2.663e+05    23.94      -0.05 -1.568e+04   0.0    119.30   7868.74   0.23    1032.54  -51.71 -3.802e+05
           -3.802e+05   -51.71  -1.57e-05        0.0   327.5    119.30  -7814.73   0.23    1032.54    23.94 -3.713e+05
27  15  2.040e+05    14.94      -0.03 -1.187e+04   0.0     93.68   5736.16   0.15   -1532.42  -33.48 -2.493e+05
           -3.145e+05   -33.48  -6.35e-06        0.0   327.5     93.68  -6133.93   0.15   -1532.42    14.94 -3.145e+05
27  16  2.021e+05    17.17      -0.03 -1.187e+04   0.0    121.51   5818.93   0.17   -1034.16  -37.39 -2.648e+05
           -3.028e+05   -37.39  -9.72e-06        0.0   327.5    121.51  -6051.17   0.17   -1034.16    17.17 -3.028e+05
27  17  2.989e+05    18.16      -0.05 -1.719e+04   0.0     12.91   8365.39   0.19     -39.16  -42.54 -3.672e+05
           -4.425e+05   -42.54  -5.22e-06        0.0   327.5     12.91  -8825.69   0.19     -39.16    18.16 -4.425e+05
27  18  2.970e+05    20.39      -0.05 -1.719e+04   0.0     40.75   8448.16   0.20     459.10  -46.45 -3.826e+05
           -4.309e+05   -46.45  -8.59e-06        0.0   327.5     40.75  -8742.92   0.20     459.10    20.39 -4.309e+05
27  19  2.002e+05    19.40      -0.04 -1.187e+04   0.0    149.35   5901.69   0.19    -535.90  -41.31 -2.803e+05
           -2.912e+05   -41.31  -1.31e-05        0.0   327.5    149.35  -5968.40   0.19    -535.90    19.40 -2.912e+05
27  20  2.704e+05    17.20      -0.04 -1.559e+04   0.0     37.14   7576.62   0.17    -487.14  -39.82 -3.318e+05
           -4.041e+05   -39.82  -5.56e-06        0.0   327.5     37.14  -8018.16   0.17    -487.14    17.20 -4.041e+05
27  21  2.666e+05    21.66      -0.05 -1.559e+04   0.0     92.81   7742.16   0.21     509.39  -47.65 -3.627e+05
           -3.808e+05   -47.65  -1.23e-05        0.0   327.5     92.81  -7852.63   0.21     509.39    21.66 -3.808e+05
27  22  2.600e+05   714.07      -0.05 -1.506e+04   0.0   -122.27   7661.15  -2.42  -5.523e+05  714.07 -3.779e+05
           -3.779e+05   -77.31      -0.01        0.0   327.5   -122.27  -7401.54  -2.42  -5.523e+05   -77.31 -3.354e+05
27  23  2.638e+05    85.99      -0.03 -1.506e+04   0.0    233.44   6965.89   2.63   5.376e+05 -774.76 -2.622e+05
           -4.474e+05  -774.76       0.01        0.0   327.5    233.44  -8096.80   2.63   5.376e+05    85.99 -4.474e+05
27  24  1.205e+06   609.20       0.29 -1.506e+04   0.0   -751.29  1.489e+04  -1.70  -1.058e+04  609.20 -1.206e+06
           -1.206e+06    51.39   2.74e-03        0.0   327.5   -751.29   -171.71  -1.70  -1.058e+04    51.39  1.205e+06
27  25  1.205e+06    16.13      -0.36 -1.506e+04   0.0    867.54    172.61   2.17    8581.83 -694.77  1.205e+06
           -1.205e+06  -694.77  -2.73e-03        0.0   327.5    867.54 -1.489e+04   2.17    8581.83    16.13 -1.205e+06
27  26  2.598e+05   583.64      -0.05 -1.506e+04   0.0   -109.66   7693.33  -1.79  -4.968e+05  583.64 -3.833e+05
           -3.833e+05    -1.52      -0.01        0.0   327.5   -109.66  -7369.35  -1.79  -4.968e+05    -1.52 -3.303e+05
27  27  2.645e+05    17.63      -0.03 -1.506e+04   0.0    223.01   6936.48   2.06   4.717e+05 -655.45 -2.573e+05
           -4.521e+05  -655.45       0.01        0.0   327.5    223.01  -8126.21   2.06   4.717e+05    17.63 -4.521e+05
27  28  8.787e+05   328.44       0.20 -1.506e+04   0.0     10.77  1.384e+04  -0.66   -7198.20  328.44 -1.203e+06
           -1.203e+06   111.38   3.61e-04        0.0   327.5     10.77  -1223.15  -0.66   -7198.20   111.38  8.625e+05
27  29  1.077e+06   -63.88      -0.27 -1.506e+04   0.0    361.91    575.23   1.05    5943.29 -406.30  1.075e+06
           -1.203e+06  -406.30  -4.07e-04        0.0   327.5    361.91 -1.449e+04   1.05    5943.29   -63.88 -1.203e+06
27  30  2.600e+05   684.56      -0.05 -1.506e+04   0.0    -92.86   7653.89  -2.18  -5.096e+05  684.56 -3.767e+05
           -3.767e+05   -28.36      -0.01        0.0   327.5    -92.86  -7408.80  -2.18  -5.096e+05   -28.36 -3.365e+05
27  31  2.639e+05    23.24      -0.03 -1.506e+04   0.0    204.53   6960.50   2.28   4.952e+05 -722.15 -2.613e+05
           -4.483e+05  -722.15       0.01        0.0   327.5    204.53  -8102.18   2.28   4.952e+05    23.24 -4.483e+05
27  32  1.204e+06   339.66       0.29 -1.506e+04   0.0   -437.62  1.488e+04  -0.90  -1.032e+04  339.66 -1.205e+06
           -1.205e+06    45.83   2.62e-03        0.0   327.5   -437.62   -177.71  -0.90  -1.032e+04    45.83  1.204e+06
27  33  1.204e+06    11.19      -0.35 -1.506e+04   0.0    747.47    178.33   1.21    8396.72 -384.58  1.204e+06
           -1.204e+06  -384.58  -2.76e-03        0.0   327.5    747.47 -1.488e+04   1.21    8396.72    11.19 -1.204e+06
27  34  2.600e+05   684.56      -0.05 -1.506e+04   0.0    -92.86   7653.89  -2.18  -5.096e+05  684.56 -3.767e+05
           -3.767e+05   -28.36      -0.01        0.0   327.5    -92.86  -7408.80  -2.18  -5.096e+05   -28.36 -3.365e+05
27  35  2.639e+05    23.24      -0.03 -1.506e+04   0.0    204.53   6960.50   2.28   4.952e+05 -722.15 -2.613e+05
           -4.483e+05  -722.15       0.01        0.0   327.5    204.53  -8102.18   2.28   4.952e+05    23.24 -4.483e+05
27  36  1.063e+06   153.22       0.22 -1.506e+04   0.0    196.66  1.444e+04  -0.13   -7813.88  153.22 -1.204e+06
           -1.204e+06   109.99   5.89e-04        0.0   327.5    196.66   -620.97  -0.13   -7813.88   109.99  1.060e+06
27  37  1.203e+06   -55.01      -0.29 -1.506e+04   0.0    252.26    183.94   0.54    6320.09 -231.76  1.203e+06
           -1.203e+06  -231.76  -6.01e-04        0.0   327.5    252.26 -1.488e+04   0.54    6320.09   -55.01 -1.203e+06
27  38  2.040e+05    14.94      -0.03 -1.187e+04   0.0     93.68   5736.16   0.15   -1532.42  -33.48 -2.493e+05
           -3.145e+05   -33.48  -6.35e-06        0.0   327.5     93.68  -6133.93   0.15   -1532.42    14.94 -3.145e+05
27  39  2.704e+05    17.20      -0.04 -1.559e+04   0.0     37.14   7576.62   0.17    -487.14  -39.82 -3.318e+05
           -4.041e+05   -39.82  -5.56e-06        0.0   327.5     37.14  -8018.16   0.17    -487.14    17.20 -4.041e+05
27  40  2.033e+05    15.83      -0.03 -1.187e+04   0.0    104.81   5769.27   0.16   -1333.12  -35.04 -2.555e+05
           -3.098e+05   -35.04  -7.70e-06        0.0   327.5    104.81  -6100.83   0.16   -1333.12    15.83 -3.098e+05
27  41  2.609e+05    16.87      -0.04 -1.506e+04   0.0     45.22   7313.70   0.17    -636.46  -38.91 -3.200e+05
           -3.913e+05   -38.91  -5.67e-06        0.0   327.5     45.22  -7748.99   0.17    -636.46    16.87 -3.913e+05
27  42  2.602e+05    17.77      -0.04 -1.506e+04   0.0     56.35   7346.81   0.18    -437.16  -40.48 -3.262e+05
           -3.867e+05   -40.48  -7.02e-06        0.0   327.5     56.35  -7715.88   0.18    -437.16    17.77 -3.867e+05
27  43  2.040e+05    14.94      -0.03 -1.187e+04   0.0     93.68   5736.16   0.15   -1532.42  -33.48 -2.493e+05
           -3.145e+05   -33.48  -6.35e-06        0.0   327.5     93.68  -6133.93   0.15   -1532.42    14.94 -3.145e+05
27  44  2.609e+05    16.87      -0.04 -1.506e+04   0.0     45.22   7313.70   0.17    -636.46  -38.91 -3.200e+05
           -3.913e+05   -38.91  -5.67e-06        0.0   327.5     45.22  -7748.99   0.17    -636.46    16.87 -3.913e+05
27  45  2.040e+05    14.94      -0.03 -1.187e+04   0.0     93.68   5736.16   0.15   -1532.42  -33.48 -2.493e+05
           -3.145e+05   -33.48  -6.35e-06        0.0   327.5     93.68  -6133.93   0.15   -1532.42    14.94 -3.145e+05
27  46  2.609e+05    16.87      -0.04 -1.506e+04   0.0     45.22   7313.70   0.17    -636.46  -38.91 -3.200e+05
           -3.913e+05   -38.91  -5.67e-06        0.0   327.5     45.22  -7748.99   0.17    -636.46    16.87 -3.913e+05
75   1  1.532e+05    95.55      -0.02   -7368.64   0.0   -195.12   3243.10   0.48  -1.881e+04  -62.75 -8.049e+04
           -2.250e+05   -62.75  -2.77e-04        0.0   327.5   -195.12  -4125.54   0.48  -1.881e+04    95.55 -2.250e+05
75   2  1.830e+05   105.53      -0.02   -8700.66   0.0   -228.41   3851.49   0.53  -1.948e+04  -68.13 -9.615e+04
           -2.595e+05   -68.13  -3.04e-04        0.0   327.5   -228.41  -4849.17   0.53  -1.948e+04   105.53 -2.595e+05
75   3  1.490e+05   115.17      -0.02   -7368.64   0.0   -243.25   3304.37   0.56  -2.066e+04  -67.73 -9.348e+04
           -2.179e+05   -67.73  -3.40e-04        0.0   327.5   -243.25  -4064.27   0.56  -2.066e+04   115.17 -2.179e+05
75   4  1.788e+05   125.16      -0.03   -8700.66   0.0   -276.53   3912.76   0.61  -2.134e+04  -73.12 -1.091e+05
           -2.524e+05   -73.12  -3.67e-04        0.0   327.5   -276.53  -4787.90   0.61  -2.134e+04   125.16 -2.524e+05
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75      5 1.189e+05      68.47     -0.01   -5668.19     0.0     -137.76    2478.98     0.35 -1.399e+04     -46.99 -5.859e+04
       -1.749e+05      -46.99  -1.97e-04      0.0   327.5     -137.76   -3189.20     0.35 -1.399e+04      68.47 -1.749e+05
75      6 1.487e+05      78.45     -0.02   -7000.20     0.0     -171.04    3087.37     0.40 -1.467e+04     -52.37 -7.424e+04
       -2.094e+05      -52.37  -2.24e-04      0.0   327.5     -171.04   -3912.83     0.40 -1.467e+04      78.45 -2.094e+05
75      7 1.147e+05      88.09     -0.02   -5668.19     0.0     -185.88    2540.25     0.43 -1.585e+04     -51.98 -7.158e+04
       -1.678e+05      -51.98  -2.60e-04      0.0   327.5     -185.88   -3127.93     0.43 -1.585e+04      88.09 -1.678e+05
75      8 1.445e+05      98.08     -0.02   -7000.20     0.0     -219.16    3148.64     0.47 -1.652e+04     -57.36 -8.723e+04
       -2.023e+05      -57.36  -2.87e-04      0.0   327.5     -219.16   -3851.56     0.47 -1.652e+04      98.08 -2.023e+05
75      9 2.128e+05     115.52     -0.03 -1.003e+04     0.0     -261.69    4459.88     0.58 -2.016e+04     -73.52 -1.118e+05
       -2.940e+05      -73.52  -3.31e-04      0.0   327.5     -261.69   -5572.80     0.58 -2.016e+04     115.52 -2.940e+05
75     10 1.503e+05     109.29     -0.02   -7368.64     0.0     -228.81    3285.99     0.54 -2.011e+04     -66.24 -8.959e+04
       -2.200e+05      -66.24  -3.21e-04      0.0   327.5     -228.81   -4082.65     0.54 -2.011e+04     109.29 -2.200e+05
75     11 2.098e+05     129.26     -0.03 -1.003e+04     0.0     -295.38    4502.77     0.63 -2.145e+04     -77.01 -1.209e+05
       -2.891e+05      -77.01  -3.75e-04      0.0   327.5     -295.38   -5529.91     0.63 -2.145e+04     129.26 -2.891e+05
75     12 1.785e+05      88.44     -0.02   -8332.22     0.0     -204.33    3695.76     0.45 -1.534e+04     -57.76 -8.989e+04
       -2.439e+05      -57.76  -2.51e-04      0.0   327.5     -204.33   -4636.46     0.45 -1.534e+04      88.44 -2.439e+05
75     13 1.160e+05      82.20     -0.02   -5668.19     0.0     -171.44    2521.87     0.41 -1.529e+04     -50.48 -6.768e+04
       -1.699e+05      -50.48  -2.41e-04      0.0   327.5     -171.44   -3146.31     0.41 -1.529e+04      82.20 -1.699e+05
75     14 1.755e+05     102.17     -0.03   -8332.22     0.0     -238.01    3738.65     0.50 -1.664e+04     -61.25 -9.899e+04
       -2.390e+05      -61.25  -2.95e-04      0.0   327.5     -238.01   -4593.58     0.50 -1.664e+04     102.17 -2.390e+05
75     15 1.180e+05      72.83     -0.01   -5668.19     0.0     -148.45    2492.60     0.37 -1.440e+04     -48.10 -6.147e+04
       -1.733e+05      -48.10  -2.11e-04      0.0   327.5     -148.45   -3175.59     0.37 -1.440e+04      72.83 -1.733e+05
75     16 1.379e+05      79.48     -0.02   -6556.20     0.0     -170.64    2898.19     0.40 -1.485e+04     -51.69 -7.191e+04
       -1.963e+05      -51.69  -2.29e-04      0.0   327.5     -170.64   -3658.01     0.40 -1.485e+04      79.48 -1.963e+05
75     17 1.152e+05      85.91     -0.02   -5668.19     0.0     -180.53    2533.45     0.42 -1.564e+04     -51.42 -7.013e+04
       -1.686e+05      -51.42  -2.53e-04      0.0   327.5     -180.53   -3134.74     0.42 -1.564e+04      85.91 -1.686e+05
75     18 1.350e+05      92.57     -0.02   -6556.20     0.0     -202.72    2939.04     0.45 -1.609e+04     -55.01 -8.057e+04
       -1.916e+05      -55.01  -2.71e-04      0.0   327.5     -202.72   -3617.16     0.45 -1.609e+04      92.57 -1.916e+05
75     19 1.577e+05      86.14     -0.02   -7444.21     0.0     -192.83    3303.78     0.43 -1.530e+04     -55.28 -8.234e+04
       -2.193e+05      -55.28  -2.47e-04      0.0   327.5     -192.83   -4140.43     0.43 -1.530e+04      86.14 -2.193e+05
75     20 1.160e+05      81.99     -0.02   -5668.19     0.0     -170.91    2521.19     0.40 -1.527e+04     -50.42 -6.754e+04
       -1.700e+05      -50.42  -2.40e-04      0.0   327.5     -170.91   -3147.00     0.40 -1.527e+04      81.99 -1.700e+05
75     21 1.557e+05      95.30     -0.02   -7444.21     0.0     -215.29    3332.37     0.47 -1.617e+04     -57.60 -8.841e+04
       -2.160e+05      -57.60  -2.76e-04      0.0   327.5     -215.29   -4111.84     0.47 -1.617e+04      95.30 -2.160e+05
75     22 1.279e+05    3858.45      0.06   -5668.19     0.0      791.11    1883.66    24.80 -2.665e+05    -4265.11 2.577e+04
       -2.855e+05    -4265.11     -0.02      0.0   327.5      791.11   -3784.53    24.80 -2.665e+05    3858.45 -2.855e+05
75     23 1.278e+05    4274.82     -0.08   -5668.19     0.0    -1160.52    3151.17   -24.63 2.344e+05    4274.82 -1.590e+05
       -1.590e+05    -3792.69      0.02      0.0   327.5    -1160.52   -2517.01   -24.63 2.344e+05    -3792.69 -5.516e+04
75     24 4.984e+05     -231.94      0.41   -5668.19     0.0      -59.84    8029.27     2.36    1089.59    -1005.87 -1.203e+06
       -1.203e+06    -1005.87   7.09e-03      0.0   327.5      -59.84    2361.09     2.36    1089.59     -231.94 4.984e+05
75     25 1.134e+06     858.59     -0.42   -5668.19     0.0      -24.96   -3124.25    -1.60 -2.925e+04     858.59 1.134e+06
       -8.177e+05     335.69  -7.12e-03      0.0   327.5      -24.96   -8792.43    -1.60 -2.925e+04     335.69 -8.177e+05
75     26 1.262e+05    3614.60      0.06   -5668.19     0.0      750.83    1922.48    23.33 -1.988e+05    -4027.13 2.005e+04
       -2.785e+05    -4027.13     -0.02      0.0   327.5      750.83   -3745.70    23.33 -1.988e+05    3614.60 -2.785e+05
75     27 1.263e+05    3988.52     -0.07   -5668.19     0.0    -1108.79    3110.17   -22.88 1.694e+05    3988.52 -1.530e+05
       -1.530e+05    -3504.06      0.02      0.0   327.5    -1108.79   -2558.02   -22.88 1.694e+05    -3504.06 -6.255e+04
75     28 1.453e+05      -18.36      0.27   -5668.19     0.0     -170.54    4946.78     2.58    -4873.75     -861.77 -5.616e+05
       -5.616e+05     -861.77   2.19e-03      0.0   327.5     -170.54    -721.41     2.58    -4873.75      -18.36 1.303e+05
75     29 4.511e+05     754.51     -0.30   -5668.19     0.0      -53.20      33.94    -1.84 -2.523e+04     754.51 4.511e+05
       -4.659e+05     151.95  -2.58e-03      0.0   327.5      -53.20   -5634.25    -1.84 -2.523e+04     151.95 -4.659e+05
75     30 1.240e+05    3962.46      0.07   -5668.19     0.0      769.37    1926.03    25.81 -3.038e+05    -4490.88 1.750e+04
       -2.799e+05    -4490.88     -0.03      0.0   327.5      769.37   -3742.16    25.81 -3.038e+05    3962.46 -2.799e+05
75     31 1.286e+05    4613.11     -0.08   -5668.19     0.0    -1162.18    3116.79   -26.34 2.651e+05    4613.11 -1.519e+05
       -1.519e+05    -4014.26      0.03      0.0   327.5    -1162.18   -2551.40   -26.34 2.651e+05    -4014.26 -5.931e+04
75     32 4.817e+05     -241.26      0.40   -5668.19     0.0     -159.14    7732.52     2.84     531.59    -1172.24 -1.123e+06
       -1.123e+06    -1172.24   6.74e-03      0.0   327.5     -159.14    2064.33     2.84     531.59     -241.26 4.817e+05
75     33 1.017e+06    1012.18     -0.40   -5668.19     0.0      -26.01   -2719.94    -1.86 -2.894e+04    1012.18 1.017e+06
       -8.020e+05     402.98  -7.35e-03      0.0   327.5      -26.01   -8388.13    -1.86 -2.894e+04     402.98 -8.020e+05
75     34 1.240e+05    3962.46      0.07   -5668.19     0.0      769.37    1926.03    25.81 -3.038e+05    -4490.88 1.750e+04
       -2.799e+05    -4490.88     -0.03      0.0   327.5      769.37   -3742.16    25.81 -3.038e+05    3962.46 -2.799e+05
75     35 1.286e+05    4613.11     -0.08   -5668.19     0.0    -1162.18    3116.79   -26.34 2.651e+05    4613.11 -1.519e+05
       -1.519e+05    -4014.26      0.03      0.0   327.5    -1162.18   -2551.40   -26.34 2.651e+05    -4014.26 -5.931e+04
75     36 2.755e+05      -83.52      0.30   -5668.19     0.0     -224.88    6014.99     2.96    -3925.10    -1053.87 -7.662e+05
       -7.662e+05    -1053.87   2.82e-03      0.0   327.5     -224.88     346.80     2.96    -3925.10      -83.52 2.755e+05
75     37 6.543e+05     925.22     -0.32   -5668.19     0.0       39.46   -1030.11    -2.20 -2.571e+04     925.22 6.543e+05
       -6.112e+05     205.29  -3.08e-03      0.0   327.5       39.46   -6698.29    -2.20 -2.571e+04     205.29 -6.112e+05
75     38 1.180e+05      72.83     -0.01   -5668.19     0.0     -148.45    2492.60     0.37 -1.440e+04     -48.10 -6.147e+04
       -1.733e+05      -48.10  -2.11e-04      0.0   327.5     -148.45   -3175.59     0.37 -1.440e+04      72.83 -1.733e+05
75     39 1.160e+05      81.99     -0.02   -5668.19     0.0     -170.91    2521.19     0.40 -1.527e+04     -50.42 -6.754e+04
       -1.700e+05      -50.42  -2.40e-04      0.0   327.5     -170.91   -3147.00     0.40 -1.527e+04      81.99 -1.700e+05
75     40 1.260e+05      75.49     -0.02   -6023.39     0.0     -157.33    2654.84     0.38 -1.458e+04     -49.53 -6.565e+04
       -1.825e+05      -49.53  -2.18e-04      0.0   327.5     -157.33   -3368.56     0.38 -1.458e+04      75.49 -1.825e+05
75     41 1.163e+05      80.68     -0.02   -5668.19     0.0     -167.70    2517.11     0.40 -1.515e+04     -50.09 -6.667e+04
       -1.705e+05      -50.09  -2.36e-04      0.0   327.5     -167.70   -3151.08     0.40 -1.515e+04      80.68 -1.705e+05
75     42 1.243e+05      83.34     -0.02   -6023.39     0.0     -176.58    2679.34     0.41 -1.533e+04     -51.53 -7.084e+04
       -1.797e+05      -51.53  -2.43e-04      0.0   327.5     -176.58   -3344.05     0.41 -1.533e+04      83.34 -1.797e+05
75     43 1.180e+05      72.83     -0.01   -5668.19     0.0     -148.45    2492.60     0.37 -1.440e+04     -48.10 -6.147e+04
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		-1.733e+05	-48.10	-2.11e-04	0.0	327.5	-148.45	-3175.59	0.37	-1.440e+04	72.83	-1.733e+05
75	44	1.163e+05	80.68	-0.02	-5668.19	0.0	-167.70	2517.11	0.40	-1.515e+04	-50.09	-6.667e+04
		-1.705e+05	-50.09	-2.36e-04	0.0	327.5	-167.70	-3151.08	0.40	-1.515e+04	80.68	-1.705e+05
75	45	1.180e+05	72.83	-0.01	-5668.19	0.0	-148.45	2492.60	0.37	-1.440e+04	-48.10	-6.147e+04
		-1.733e+05	-48.10	-2.11e-04	0.0	327.5	-148.45	-3175.59	0.37	-1.440e+04	72.83	-1.733e+05
75	46	1.163e+05	80.68	-0.02	-5668.19	0.0	-167.70	2517.11	0.40	-1.515e+04	-50.09	-6.667e+04
		-1.705e+05	-50.09	-2.36e-04	0.0	327.5	-167.70	-3151.08	0.40	-1.515e+04	80.68	-1.705e+05
76	1	4.922e+04	149.00	-0.01	-7323.64	0.0	-133.09	3366.09	0.31	-492.03	47.94	-2.020e+05
		-2.983e+05	47.94	-9.64e-05	0.0	325.5	-133.09	-3957.56	0.31	-492.03	149.00	-2.983e+05
76	2	5.982e+04	162.30	-0.01	-8647.53	0.0	-167.86	3969.82	0.34	-496.32	52.23	-2.361e+05
		-3.513e+05	52.23	-1.06e-04	0.0	325.5	-167.86	-4677.71	0.34	-496.32	162.30	-3.513e+05
76	3	5.605e+04	176.68	-0.02	-7323.64	0.0	-183.38	3390.05	0.35	-499.10	61.75	-1.986e+05
		-2.870e+05	61.75	-1.16e-04	0.0	325.5	-183.38	-3933.59	0.35	-499.10	176.68	-2.870e+05
76	4	6.665e+04	189.98	-0.02	-8647.53	0.0	-218.14	3993.78	0.38	-503.40	66.05	-2.327e+05
		-3.401e+05	66.05	-1.25e-04	0.0	325.5	-218.14	-4653.74	0.38	-503.40	189.98	-3.401e+05
76	5	3.611e+04	107.52	-8.46e-03	-5633.57	0.0	-89.49	2583.15	0.23	-376.67	33.33	-1.563e+05
		-2.323e+05	33.33	-6.92e-05	0.0	325.5	-89.49	-3050.42	0.23	-376.67	107.52	-2.323e+05
76	6	4.671e+04	120.82	-0.01	-6957.46	0.0	-124.25	3186.89	0.26	-380.97	37.63	-1.904e+05
		-2.854e+05	37.63	-7.85e-05	0.0	325.5	-124.25	-3770.57	0.26	-380.97	120.82	-2.854e+05
76	7	4.294e+04	135.20	-0.01	-5633.57	0.0	-139.77	2607.12	0.27	-383.74	47.15	-1.528e+05
		-2.211e+05	47.15	-8.85e-05	0.0	325.5	-139.77	-3026.45	0.27	-383.74	135.20	-2.211e+05
76	8	5.354e+04	148.50	-0.01	-6957.46	0.0	-174.53	3210.85	0.30	-388.04	51.44	-1.870e+05
		-2.742e+05	51.44	-9.78e-05	0.0	325.5	-174.53	-3746.61	0.30	-388.04	148.50	-2.742e+05
76	9	7.042e+04	175.61	-0.02	-9971.41	0.0	-202.62	4573.55	0.37	-500.62	56.53	-2.703e+05
		-4.044e+05	56.53	-1.15e-04	0.0	325.5	-202.62	-5397.86	0.37	-500.62	175.61	-4.044e+05
76	10	5.400e+04	168.38	-0.01	-7323.64	0.0	-168.29	3382.86	0.34	-496.98	57.61	-1.996e+05
		-2.904e+05	57.61	-1.10e-04	0.0	325.5	-168.29	-3940.78	0.34	-496.98	168.38	-2.904e+05
76	11	7.520e+04	194.98	-0.02	-9971.41	0.0	-237.82	4590.33	0.40	-505.57	66.20	-2.679e+05
		-3.966e+05	66.20	-1.29e-04	0.0	325.5	-237.82	-5381.08	0.40	-505.57	194.98	-3.966e+05
76	12	5.731e+04	134.12	-0.01	-8281.34	0.0	-159.02	3790.62	0.28	-385.26	41.92	-2.245e+05
		-3.385e+05	41.92	-8.79e-05	0.0	325.5	-159.02	-4490.72	0.28	-385.26	134.12	-3.385e+05
76	13	4.089e+04	126.89	-0.01	-5633.57	0.0	-124.68	2599.93	0.26	-381.62	43.00	-1.539e+05
		-2.244e+05	43.00	-8.27e-05	0.0	325.5	-124.68	-3033.64	0.26	-381.62	126.89	-2.244e+05
76	14	6.209e+04	153.50	-0.02	-8281.34	0.0	-194.21	3807.39	0.31	-390.21	51.59	-2.221e+05
		-3.306e+05	51.59	-1.01e-04	0.0	325.5	-194.21	-4473.94	0.31	-390.21	153.50	-3.306e+05
76	15	3.763e+04	113.67	-9.31e-03	-5633.57	0.0	-100.66	2588.48	0.24	-378.24	36.40	-1.555e+05
		-2.298e+05	36.40	-7.35e-05	0.0	325.5	-100.66	-3045.09	0.24	-378.24	113.67	-2.298e+05
76	16	4.469e+04	122.54	-0.01	-6516.16	0.0	-123.84	2990.97	0.26	-381.11	39.27	-1.783e+05
		-2.652e+05	39.27	-7.97e-05	0.0	325.5	-123.84	-3525.19	0.26	-381.11	122.54	-2.652e+05
76	17	4.218e+04	132.12	-0.01	-5633.57	0.0	-134.18	2604.45	0.27	-382.96	45.61	-1.532e+05
		-2.223e+05	45.61	-8.63e-05	0.0	325.5	-134.18	-3029.12	0.27	-382.96	132.12	-2.223e+05
76	18	4.925e+04	140.99	-0.01	-6516.16	0.0	-157.36	3006.94	0.28	-385.82	48.48	-1.760e+05
		-2.577e+05	48.48	-9.26e-05	0.0	325.5	-157.36	-3509.22	0.28	-385.82	140.99	-2.577e+05
76	19	5.176e+04	131.41	-0.01	-7398.75	0.0	-147.01	3393.46	0.27	-383.97	42.13	-2.010e+05
		-3.006e+05	42.13	-8.59e-05	0.0	325.5	-147.01	-4005.29	0.27	-383.97	131.41	-3.006e+05
76	20	4.082e+04	126.59	-0.01	-5633.57	0.0	-124.12	2599.66	0.26	-381.54	42.85	-1.539e+05
		-2.246e+05	42.85	-8.25e-05	0.0	325.5	-124.12	-3033.91	0.26	-381.54	126.59	-2.246e+05
76	21	5.495e+04	144.32	-0.01	-7398.75	0.0	-170.48	3404.64	0.29	-387.27	48.58	-1.994e+05
		-2.953e+05	48.58	-9.49e-05	0.0	325.5	-170.48	-3994.11	0.29	-387.27	144.32	-2.953e+05
76	22	-1.433e+04	2864.89	0.01	-5633.57	0.0	1894.37	2538.51	4.44	-1.034e+04	1420.59	-2.003e+05
		-2.909e+05	1420.59	-0.02	0.0	325.5	1894.37	-3095.06	4.44	-1.034e+04	2864.89	-2.909e+05
76	23	9.589e+04	-1401.51	-0.03	-5633.57	0.0	-2183.75	2655.84	-4.07	9790.06	-1401.51	-1.071e+05
		-1.595e+05	-2727.12	0.02	0.0	325.5	-2183.75	-2977.73	-4.07	9790.06	-2727.12	-1.595e+05
76	24	4.951e+05	191.01	0.24	-5633.57	0.0	-432.36	7656.30	-1.16	7914.39	191.01	-1.080e+06
		-1.080e+06	-186.85	6.41e-03	0.0	325.5	-432.36	2022.73	-1.16	7914.39	-186.85	4.951e+05
76	25	7.609e+05	322.42	-0.26	-5633.57	0.0	386.29	-2897.52	1.37	-8303.46	-122.53	7.609e+05
		-1.099e+06	-122.53	-6.27e-03	0.0	325.5	386.29	-8531.09	1.37	-8303.46	322.42	-1.099e+06
76	26	-1.107e+04	2728.50	9.97e-03	-5633.57	0.0	1828.27	2539.89	4.31	-7345.91	1324.51	-1.973e+05
		-2.874e+05	1324.51	-0.02	0.0	325.5	1828.27	-3093.68	4.31	-7345.91	2728.50	-2.874e+05
76	27	9.237e+04	-1276.41	-0.03	-5633.57	0.0	-2097.63	2654.02	-3.91	6596.18	-1276.41	-1.104e+05
		-1.633e+05	-2549.72	0.02	0.0	325.5	-2097.63	-2979.56	-3.91	6596.18	-2549.72	-1.633e+05
76	28	2.002e+05	50.33	0.18	-5633.57	0.0	-329.26	5424.72	-0.06	5172.63	50.33	-6.494e+05
		-6.494e+05	32.26	1.80e-03	0.0	325.5	-329.26	-208.85	-0.06	5172.63	32.26	1.995e+05
76	29	3.630e+05	187.65	-0.20	-5633.57	0.0	266.72	-326.31	0.56	-5927.66	5.21	3.630e+05
		-6.600e+05	5.21	-1.94e-03	0.0	325.5	266.72	-5959.88	0.56	-5927.66	187.65	-6.600e+05
76	30	-1.527e+04	3177.56	0.01	-5633.57	0.0	1850.21	2571.74	6.79	-1.268e+04	966.86	-2.060e+05
		-2.858e+05	966.86	-0.02	0.0	325.5	1850.21	-3061.84	6.79	-1.268e+04	3177.56	-2.858e+05
76	31	9.727e+04	-1020.83	-0.03	-5633.57	0.0	-2174.75	2623.15	-6.35	1.178e+04	-1020.83	-1.008e+05
		-1.638e+05	-3087.64	0.02	0.0	325.5	-2174.75	-3010.42	-6.35	1.178e+04	-3087.64	-1.638e+05
76	32	5.263e+05	206.73	0.24	-5633.57	0.0	-582.52	7802.93	-1.24	7775.56	206.73	-1.097e+06
		-1.097e+06	-195.96	5.98e-03	0.0	325.5	-582.52	2169.36	-1.24	7775.56	-195.96	5.263e+05
76	33	7.764e+05	385.29	-0.26	-5633.57	0.0	376.27	-2954.28	1.71	-8374.59	-171.66	7.764e+05
		-1.102e+06	-171.66	-6.38e-03	0.0	325.5	376.27	-8587.85	1.71	-8374.59	385.29	-1.102e+06
76	34	-1.527e+04	3177.56	0.01	-5633.57	0.0	1850.21	2571.74	6.79	-1.268e+04	966.86	-2.060e+05
		-2.858e+05	966.86	-0.02	0.0	325.5	1850.21	-3061.84	6.79	-1.268e+04	3177.56	-2.858e+05
76	35	9.727e+04	-1020.83	-0.03	-5633.57	0.0	-2174.75	2623.15	-6.35	1.178e+04	-1020.83	-1.008e+05
		-1.638e+05	-3087.64	0.02	0.0	325.5	-2174.75	-3010.42	-6.35	1.178e+04	-3087.64	-1.638e+05

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76  36 3.328e+05      88.57     0.20  -5633.57    0.0   -408.88    6255.23   -0.35   5828.83    88.57 -7.864e+05
       -7.864e+05    -24.77  2.28e-03     0.0  325.5   -408.88     621.66   -0.35   5828.83   -24.77  3.328e+05
76  37 4.871e+05     233.35    -0.22  -5633.57    0.0    409.54   -1088.69    0.82  -6401.27   -34.44  4.871e+05
       -7.841e+05    -34.44 -2.31e-03     0.0  325.5    409.54   -6722.26    0.82  -6401.27   233.35 -7.841e+05
76  38 3.763e+04     113.67 -9.31e-03  -5633.57    0.0   -100.66    2588.48    0.24   -378.24    36.40 -1.555e+05
       -2.298e+05     36.40 -7.35e-05     0.0  325.5   -100.66   -3045.09    0.24   -378.24   113.67 -2.298e+05
76  39 4.082e+04     126.59    -0.01  -5633.57    0.0   -124.12    2599.66    0.26   -381.54    42.85 -1.539e+05
       -2.246e+05     42.85 -8.25e-05     0.0  325.5   -124.12   -3033.91    0.26   -381.54   126.59 -2.246e+05
76  40 4.045e+04     117.22 -9.84e-03  -5986.61    0.0   -109.93    2749.47    0.24   -379.39    37.55 -1.646e+05
       -2.440e+05     37.55 -7.60e-05     0.0  325.5   -109.93   -3237.13    0.24   -379.39   117.22 -2.440e+05
76  41 4.036e+04     124.74    -0.01  -5633.57    0.0   -120.77    2598.06    0.25   -381.07    41.93 -1.541e+05
       -2.253e+05     41.93 -8.12e-05     0.0  325.5   -120.77   -3035.51    0.25   -381.07   124.74 -2.253e+05
76  42 4.319e+04     128.29    -0.01  -5986.61    0.0   -130.04    2759.06    0.26   -382.22    43.07 -1.632e+05
       -2.395e+05     43.07 -8.37e-05     0.0  325.5   -130.04   -3227.55    0.26   -382.22   128.29 -2.395e+05
76  43 3.763e+04     113.67 -9.31e-03  -5633.57    0.0   -100.66    2588.48    0.24   -378.24    36.40 -1.555e+05
       -2.298e+05     36.40 -7.35e-05     0.0  325.5   -100.66   -3045.09    0.24   -378.24   113.67 -2.298e+05
76  44 4.036e+04     124.74    -0.01  -5633.57    0.0   -120.77    2598.06    0.25   -381.07    41.93 -1.541e+05
       -2.253e+05     41.93 -8.12e-05     0.0  325.5   -120.77   -3035.51    0.25   -381.07   124.74 -2.253e+05
76  45 3.763e+04     113.67 -9.31e-03  -5633.57    0.0   -100.66    2588.48    0.24   -378.24    36.40 -1.555e+05
       -2.298e+05     36.40 -7.35e-05     0.0  325.5   -100.66   -3045.09    0.24   -378.24   113.67 -2.298e+05
76  46 4.036e+04     124.74    -0.01  -5633.57    0.0   -120.77    2598.06    0.25   -381.07    41.93 -1.541e+05
       -2.253e+05     41.93 -8.12e-05     0.0  325.5   -120.77   -3035.51    0.25   -381.07   124.74 -2.253e+05
77   1 2.736e+05     162.39    -0.06  -9888.61    0.0   -389.40    5482.13   -0.56  1.616e+04   162.39 -3.941e+05
       -3.941e+05    -82.87  3.37e-04     0.0  439.5   -389.40   -4406.48   -0.56  1.616e+04   -82.87 -1.578e+05
77   2 3.266e+05     177.86    -0.07 -1.168e+04   0.0   -444.91    6458.83   -0.61  1.679e+04   177.86 -4.583e+05
       -4.583e+05    -88.88  3.69e-04     0.0  439.5   -444.91   -5217.33   -0.61  1.679e+04   -88.88 -1.855e+05
77   3 2.662e+05     193.22    -0.06  -9888.61    0.0   -470.70    5419.27   -0.66  1.790e+04   193.22 -3.860e+05
       -3.860e+05    -95.11  4.05e-04     0.0  439.5   -470.70   -4469.33   -0.66  1.790e+04   -95.11 -1.773e+05
77   4 3.191e+05     208.70    -0.06 -1.168e+04   0.0   -526.21    6395.97   -0.70  1.853e+04   208.70 -4.502e+05
       -4.502e+05   -101.12  4.37e-04     0.0  439.5   -526.21   -5280.18   -0.70  1.853e+04  -101.12 -2.050e+05
77   5 2.124e+05     117.01    -0.05  -7606.62    0.0   -278.69    4233.14   -0.40  1.198e+04   117.01 -3.053e+05
       -3.053e+05    -60.60  2.42e-04     0.0  439.5   -278.69   -3373.48   -0.40  1.198e+04   -60.60 -1.164e+05
77   6 2.653e+05     132.48    -0.05  -9394.17    0.0   -334.20    5209.84   -0.45  1.262e+04   132.48 -3.695e+05
       -3.695e+05    -66.61  2.73e-04     0.0  439.5   -334.20   -4184.33   -0.45  1.262e+04   -66.61 -1.441e+05
77   7 2.049e+05     147.84    -0.04  -7606.62    0.0   -359.99    4170.28   -0.50  1.372e+04   147.84 -2.972e+05
       -2.972e+05    -72.85  3.10e-04     0.0  439.5   -359.99   -3436.34   -0.50  1.372e+04   -72.85 -1.359e+05
77   8 2.579e+05     163.32    -0.05  -9394.17    0.0   -415.50    5146.98   -0.55  1.436e+04   163.32 -3.613e+05
       -3.613e+05    -78.86  3.42e-04     0.0  439.5   -415.50   -4247.19   -0.55  1.436e+04   -78.86 -1.636e+05
77   9 3.796e+05     193.34    -0.07 -1.346e+04   0.0   -500.42    7435.53   -0.66  1.743e+04   193.34 -5.225e+05
       -5.225e+05    -94.89  4.01e-04     0.0  439.5   -500.42   -6028.18   -0.66  1.743e+04   -94.89 -2.132e+05
77  10 2.684e+05     183.97    -0.06  -9888.61    0.0   -446.31    5438.13   -0.63  1.738e+04   183.97 -3.885e+05
       -3.885e+05    -91.44  3.85e-04     0.0  439.5   -446.31   -4450.47   -0.63  1.738e+04   -91.44 -1.714e+05
77  11 3.744e+05     214.92    -0.07 -1.346e+04   0.0   -557.33    7391.53   -0.72  1.864e+04   214.92 -5.168e+05
       -5.168e+05   -103.46  4.48e-04     0.0  439.5   -557.33   -6072.17   -0.72  1.864e+04  -103.46 -2.269e+05
77  12 3.183e+05     147.96    -0.06 -1.118e+04   0.0   -389.71    6186.54   -0.50  1.325e+04   147.96 -4.336e+05
       -4.336e+05    -72.62  3.05e-04     0.0  439.5   -389.71   -4995.18   -0.50  1.325e+04   -72.62 -1.718e+05
77  13 2.072e+05     138.59    -0.04  -7606.62    0.0   -335.60    4189.14   -0.47  1.320e+04   138.59 -2.996e+05
       -2.996e+05    -69.17  2.89e-04     0.0  439.5   -335.60   -3417.48   -0.47  1.320e+04   -69.17 -1.300e+05
77  14 3.131e+05     169.54    -0.06 -1.118e+04   0.0   -446.62    6142.54   -0.57  1.447e+04   169.54 -4.280e+05
       -4.280e+05    -81.19  3.53e-04     0.0  439.5   -446.62   -5039.18   -0.57  1.447e+04   -81.19 -1.855e+05
77  15 2.107e+05     123.86    -0.05  -7606.62    0.0   -296.76    4219.17   -0.43  1.237e+04   123.86 -3.035e+05
       -3.035e+05    -63.33  2.57e-04     0.0  439.5   -296.76   -3387.45   -0.43  1.237e+04   -63.33 -1.207e+05
77  16 2.460e+05     134.18    -0.05  -8798.32    0.0   -333.77    4870.30   -0.46  1.279e+04   134.18 -3.463e+05
       -3.463e+05    -67.33  2.78e-04     0.0  439.5   -333.77   -3928.01   -0.46  1.279e+04   -67.33 -1.392e+05
77  17 2.058e+05     144.42    -0.04  -7606.62    0.0   -350.96    4177.27   -0.49  1.353e+04   144.42 -2.981e+05
       -2.981e+05    -71.49  3.02e-04     0.0  439.5   -350.96   -3429.35   -0.49  1.353e+04   -71.49 -1.337e+05
77  18 2.411e+05     154.73    -0.05  -8798.32    0.0   -387.96    4828.40   -0.52  1.395e+04   154.73 -3.408e+05
       -3.408e+05    -75.49  3.24e-04     0.0  439.5   -387.96   -3969.92   -0.52  1.395e+04   -75.49 -1.522e+05
77  19 2.813e+05     144.49    -0.06  -9990.02    0.0   -370.77    5521.44   -0.49  1.322e+04   144.49 -3.890e+05
       -3.890e+05    -71.34  2.99e-04     0.0  439.5   -370.77   -4468.58   -0.49  1.322e+04   -71.34 -1.577e+05
77  20 2.072e+05     138.25    -0.04  -7606.62    0.0   -334.70    4189.84   -0.47  1.318e+04   138.25 -2.997e+05
       -2.997e+05    -69.04  2.89e-04     0.0  439.5   -334.70   -3416.78   -0.47  1.318e+04   -69.04 -1.298e+05
77  21 2.779e+05     158.88    -0.06  -9990.02    0.0   -408.71    5492.10   -0.54  1.403e+04   158.88 -3.853e+05
       -3.853e+05    -77.05  3.31e-04     0.0  439.5   -408.71   -4497.91   -0.54  1.403e+04   -77.05 -1.668e+05
77  22 2.078e+05    2559.09    -0.09  -7606.62    0.0    736.02    4660.19  -10.76  2.137e+05  2559.09 -4.193e+05
       -4.193e+05  -2170.71    -0.02     0.0  439.5    736.02   -2946.43  -10.76  2.137e+05 -2170.71 -4.271e+04
77  23 2.202e+05    2150.11     0.06  -7606.62    0.0  -1434.78    3720.77   10.41 -1.839e+05 -2425.64 -1.795e+05
       -2.158e+05  -2425.64     0.02     0.0  439.5  -1434.78   -3885.85   10.41 -1.839e+05  2150.11 -2.158e+05
77  24 1.175e+06     745.84     0.35  -7606.62    0.0   -410.64    8988.48    1.06  2.492e+04   280.38 -1.104e+06
       -1.104e+06     280.38  9.71e-03     0.0  439.5   -410.64    1381.86    1.06  2.492e+04   745.84  1.175e+06
77  25 4.995e+05     -94.53    -0.39  -7606.62    0.0    381.13     -70.68   -1.77    488.57   -94.53  4.995e+05
       -1.203e+06    -872.67 -9.08e-03     0.0  439.5    381.13   -7677.30   -1.77    488.57  -872.67 -1.203e+06
77  26 2.072e+05    2428.40    -0.09  -7606.62    0.0    695.98    4633.80  -10.23  1.586e+05  2428.40 -4.127e+05
       -4.127e+05  -2067.14    -0.02     0.0  439.5    695.98   -2972.82  -10.23  1.586e+05 -2067.14 -4.771e+04
77  27 2.194e+05    1985.92     0.05  -7606.62    0.0  -1379.80    3748.99    9.59 -1.324e+05 -2226.72 -1.866e+05
       -2.105e+05  -2226.72     0.02     0.0  439.5  -1379.80   -3857.63    9.59 -1.324e+05  1985.92 -2.105e+05
77  28 4.721e+05     640.87     0.25  -7606.62    0.0   -500.77    6412.83    1.12  2.169e+04   147.63 -7.144e+05
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		-7.144e+05	147.63	3.35e-03	0.0	439.5	-500.77	-1193.79	1.12	2.169e+04	640.87	4.325e+05
77	29	2.292e+05	94.08	-0.27	-7606.62	0.0	12.59	2050.14	-2.00	4303.26	94.08	1.084e+05
		-6.621e+05	-783.93	-2.90e-03	0.0	439.5	12.59	-5556.48	-2.00	4303.26	-783.93	-6.621e+05
77	30	2.108e+05	2236.55	-0.09	-7606.62	0.0	736.82	4696.25	-9.08	2.440e+05	2236.55	-4.262e+05
		-4.262e+05	-1756.29	-0.02	0.0	439.5	736.82	-2910.37	-9.08	2.440e+05	-1756.29	-3.376e+04
77	31	2.194e+05	1809.67	0.06	-7606.62	0.0	-1457.95	3678.08	9.08	-2.095e+05	-2181.51	-1.710e+05
		-2.260e+05	-2181.51	0.02	0.0	439.5	-1457.95	-3928.54	9.08	-2.095e+05	1809.67	-2.260e+05
77	32	1.041e+06	883.87	0.34	-7606.62	0.0	-512.77	8612.60	1.34	2.461e+04	294.30	-1.072e+06
		-1.072e+06	294.30	9.29e-03	0.0	439.5	-512.77	1005.98	1.34	2.461e+04	883.87	1.041e+06
77	33	4.964e+05	-132.15	-0.39	-7606.62	0.0	268.48	-63.20	-2.03	462.73	-132.15	4.964e+05
		-1.203e+06	-1023.16	-9.37e-03	0.0	439.5	268.48	-7669.82	-2.03	462.73	-1023.16	-1.203e+06
77	34	2.108e+05	2236.55	-0.09	-7606.62	0.0	736.82	4696.25	-9.08	2.440e+05	2236.55	-4.262e+05
		-4.262e+05	-1756.29	-0.02	0.0	439.5	736.82	-2910.37	-9.08	2.440e+05	-1756.29	-3.376e+04
77	35	2.194e+05	1809.67	0.06	-7606.62	0.0	-1457.95	3678.08	9.08	-2.095e+05	-2181.51	-1.710e+05
		-2.260e+05	-2181.51	0.02	0.0	439.5	-1457.95	-3928.54	9.08	-2.095e+05	1809.67	-2.260e+05
77	36	6.493e+05	814.72	0.27	-7606.62	0.0	-489.12	7239.06	1.43	2.256e+04	184.24	-8.646e+05
		-8.646e+05	184.24	4.17e-03	0.0	439.5	-489.12	-367.56	1.43	2.256e+04	814.72	6.454e+05
77	37	2.970e+05	56.32	-0.29	-7606.62	0.0	73.44	1304.33	-2.25	3638.19	56.32	2.483e+05
		-8.500e+05	-932.40	-3.57e-03	0.0	439.5	73.44	-6302.29	-2.25	3638.19	-932.40	-8.500e+05
77	38	2.107e+05	123.86	-0.05	-7606.62	0.0	-296.76	4219.17	-0.43	1.237e+04	123.86	-3.035e+05
		-3.035e+05	-63.33	2.57e-04	0.0	439.5	-296.76	-3387.45	-0.43	1.237e+04	-63.33	-1.207e+05
77	39	2.072e+05	138.25	-0.04	-7606.62	0.0	-334.70	4189.84	-0.47	1.318e+04	138.25	-2.997e+05
		-2.997e+05	-69.04	2.89e-04	0.0	439.5	-334.70	-3416.78	-0.47	1.318e+04	-69.04	-1.298e+05
77	40	2.248e+05	127.99	-0.05	-8083.30	0.0	-311.56	4479.62	-0.44	1.254e+04	127.99	-3.206e+05
		-3.206e+05	-64.93	2.65e-04	0.0	439.5	-311.56	-3603.67	-0.44	1.254e+04	-64.93	-1.281e+05
77	41	2.077e+05	136.19	-0.04	-7606.62	0.0	-329.28	4194.03	-0.47	1.307e+04	136.19	-3.002e+05
		-3.002e+05	-68.22	2.84e-04	0.0	439.5	-329.28	-3412.59	-0.47	1.307e+04	-68.22	-1.285e+05
77	42	2.219e+05	140.32	-0.05	-8083.30	0.0	-344.08	4454.48	-0.48	1.323e+04	140.32	-3.173e+05
		-3.173e+05	-69.82	2.93e-04	0.0	439.5	-344.08	-3628.82	-0.48	1.323e+04	-69.82	-1.359e+05
77	43	2.107e+05	123.86	-0.05	-7606.62	0.0	-296.76	4219.17	-0.43	1.237e+04	123.86	-3.035e+05
		-3.035e+05	-63.33	2.57e-04	0.0	439.5	-296.76	-3387.45	-0.43	1.237e+04	-63.33	-1.207e+05
77	44	2.077e+05	136.19	-0.04	-7606.62	0.0	-329.28	4194.03	-0.47	1.307e+04	136.19	-3.002e+05
		-3.002e+05	-68.22	2.84e-04	0.0	439.5	-329.28	-3412.59	-0.47	1.307e+04	-68.22	-1.285e+05
77	45	2.107e+05	123.86	-0.05	-7606.62	0.0	-296.76	4219.17	-0.43	1.237e+04	123.86	-3.035e+05
		-3.035e+05	-63.33	2.57e-04	0.0	439.5	-296.76	-3387.45	-0.43	1.237e+04	-63.33	-1.207e+05
77	46	2.077e+05	136.19	-0.04	-7606.62	0.0	-329.28	4194.03	-0.47	1.307e+04	136.19	-3.002e+05
		-3.002e+05	-68.22	2.84e-04	0.0	439.5	-329.28	-3412.59	-0.47	1.307e+04	-68.22	-1.285e+05
78	1	1.541e+05	63.47	-0.02	-7408.96	0.0	-194.83	3261.67	-0.49	1.913e+04	63.47	-8.106e+04
		-2.261e+05	-97.31	2.86e-04	0.0	327.5	-194.83	-4147.29	-0.49	1.913e+04	-97.31	-2.261e+05
78	2	1.840e+05	68.79	-0.02	-8750.28	0.0	-228.17	3874.35	-0.54	1.982e+04	68.79	-9.683e+04
		-2.608e+05	-107.36	3.12e-04	0.0	327.5	-228.17	-4875.93	-0.54	1.982e+04	-107.36	-2.608e+05
78	3	1.498e+05	68.10	-0.02	-7408.96	0.0	-243.03	3323.64	-0.57	2.102e+04	68.10	-9.419e+04
		-2.189e+05	-116.94	3.49e-04	0.0	327.5	-243.03	-4085.33	-0.57	2.102e+04	-116.94	-2.189e+05
78	4	1.798e+05	73.43	-0.03	-8750.28	0.0	-276.38	3936.32	-0.61	2.171e+04	73.43	-1.100e+05
		-2.537e+05	-126.99	3.75e-04	0.0	327.5	-276.38	-4813.97	-0.61	2.171e+04	-126.99	-2.537e+05
78	5	1.196e+05	47.63	-0.01	-5699.20	0.0	-137.51	2493.09	-0.36	1.424e+04	47.63	-5.899e+04
		-1.757e+05	-69.82	2.04e-04	0.0	327.5	-137.51	-3206.11	-0.36	1.424e+04	-69.82	-1.757e+05
78	6	1.496e+05	52.95	-0.02	-7040.52	0.0	-170.85	3105.77	-0.41	1.492e+04	52.95	-7.475e+04
		-2.105e+05	-79.88	2.30e-04	0.0	327.5	-170.85	-3934.75	-0.41	1.492e+04	-79.88	-2.105e+05
78	7	1.153e+05	52.27	-0.02	-5699.20	0.0	-185.71	2555.05	-0.43	1.612e+04	52.27	-7.212e+04
		-1.686e+05	-89.45	2.66e-04	0.0	327.5	-185.71	-3144.15	-0.43	1.612e+04	-89.45	-1.686e+05
78	8	1.453e+05	57.59	-0.02	-7040.52	0.0	-219.05	3167.73	-0.48	1.681e+04	57.59	-8.788e+04
		-2.033e+05	-99.50	2.93e-04	0.0	327.5	-219.05	-3872.79	-0.48	1.681e+04	-99.50	-2.033e+05
78	9	2.140e+05	74.12	-0.03	-1.009e+04	0.0	-261.52	4487.03	-0.58	2.051e+04	74.12	-1.126e+05
		-2.956e+05	-117.42	3.39e-04	0.0	327.5	-261.52	-5604.57	-0.58	2.051e+04	-117.42	-2.956e+05
78	10	1.511e+05	66.71	-0.02	-7408.96	0.0	-228.57	3305.05	-0.54	2.045e+04	66.71	-9.025e+04
		-2.211e+05	-111.05	3.30e-04	0.0	327.5	-228.57	-4103.91	-0.54	2.045e+04	-111.05	-2.211e+05
78	11	2.110e+05	77.36	-0.03	-1.009e+04	0.0	-295.26	4530.41	-0.64	2.183e+04	77.36	-1.218e+05
		-2.906e+05	-131.16	3.83e-04	0.0	327.5	-295.26	-5561.20	-0.64	2.183e+04	-131.16	-2.906e+05
78	12	1.796e+05	58.28	-0.02	-8381.85	0.0	-204.19	3718.45	-0.45	1.561e+04	58.28	-9.052e+04
		-2.453e+05	-89.93	2.57e-04	0.0	327.5	-204.19	-4663.39	-0.45	1.561e+04	-89.93	-2.453e+05
78	13	1.166e+05	50.88	-0.02	-5699.20	0.0	-171.25	2536.46	-0.41	1.555e+04	50.88	-6.818e+04
		-1.707e+05	-83.56	2.48e-04	0.0	327.5	-171.25	-3162.74	-0.41	1.555e+04	-83.56	-1.707e+05
78	14	1.766e+05	61.53	-0.03	-8381.85	0.0	-237.94	3761.83	-0.50	1.693e+04	61.53	-9.971e+04
		-2.402e+05	-103.67	3.01e-04	0.0	327.5	-237.94	-4620.02	-0.50	1.693e+04	-103.67	-2.402e+05
78	15	1.187e+05	48.66	-0.01	-5699.20	0.0	-148.22	2506.86	-0.38	1.465e+04	48.66	-6.190e+04
		-1.742e+05	-74.18	2.18e-04	0.0	327.5	-148.22	-3192.34	-0.38	1.465e+04	-74.18	-1.742e+05
78	16	1.386e+05	52.21	-0.02	-6593.42	0.0	-170.45	2915.31	-0.41	1.511e+04	52.21	-7.242e+04
		-1.973e+05	-80.89	2.35e-04	0.0	327.5	-170.45	-3678.10	-0.41	1.511e+04	-80.89	-1.973e+05
78	17	1.158e+05	51.75	-0.02	-5699.20	0.0	-180.36	2548.17	-0.42	1.591e+04	51.75	-7.066e+04
		-1.694e+05	-87.27	2.59e-04	0.0	327.5	-180.36	-3151.03	-0.42	1.591e+04	-87.27	-1.694e+05
78	18	1.358e+05	55.30	-0.02	-6593.42	0.0	-202.59	2956.62	-0.46	1.637e+04	55.30	-8.117e+04
		-1.925e+05	-93.97	2.77e-04	0.0	327.5	-202.59	-3636.79	-0.46	1.637e+04	-93.97	-1.925e+05
78	19	1.586e+05	55.76	-0.02	-7487.63	0.0	-192.68	3323.77	-0.44	1.557e+04	55.76	-8.293e+04
		-2.205e+05	-87.59	2.53e-04	0.0	327.5	-192.68	-4163.86	-0.44	1.557e+04	-87.59	-2.205e+05
78	20	1.167e+05	50.83	-0.02	-5699.20	0.0	-170.72	2535.78	-0.41	1.553e+04	50.83	-6.803e+04
		-1.708e+05	-83.34	2.47e-04	0.0	327.5	-170.72	-3163.42	-0.41	1.553e+04	-83.34	-1.708e+05

78	21	1.566e+05	57.93	-0.02	-7487.63	0.0	-215.17	3352.68	-0.47	1.645e+04	57.93	-8.906e+04
		-2.172e+05	-96.75	2.82e-04	0.0	327.5	-215.17	-4134.95	-0.47	1.645e+04	-96.75	-2.172e+05
78	22	1.283e+05	3775.83	-0.08	-5699.20	0.0	-1154.08	3160.57	24.53	-2.342e+05	-4257.32	-1.587e+05
		-1.587e+05	-4257.32	-0.02	0.0	327.5	-1154.08	-2538.63	24.53	-2.342e+05	3775.83	-5.685e+04
78	23	1.282e+05	4243.31	0.06	-5699.20	0.0	785.16	1903.24	-24.68	2.663e+05	4243.31	2.451e+04
		-2.854e+05	-3839.74	0.02	0.0	327.5	785.16	-3795.96	-24.68	2.663e+05	-3839.74	-2.854e+05
78	24	4.987e+05	1648.83	0.41	-5699.20	0.0	-56.63	8045.73	-5.98	-551.45	1648.83	-1.203e+06
		-1.203e+06	-309.18	4.58e-03	0.0	327.5	-56.63	2346.53	-5.98	-551.45	-309.18	4.987e+05
78	25	1.144e+06	180.48	-0.41	-5699.20	0.0	-8.68	-3148.15	5.06	2.925e+04	-1476.63	1.144e+06
		-8.207e+05	-1476.63	-4.19e-03	0.0	327.5	-8.68	-8847.35	5.06	2.925e+04	180.48	-8.207e+05
78	26	1.268e+05	3485.13	-0.07	-5699.20	0.0	-1102.71	3120.10	22.76	-1.693e+05	-3968.77	-1.527e+05
		-1.527e+05	-3968.77	-0.02	0.0	327.5	-1102.71	-2579.10	22.76	-1.693e+05	3485.13	-6.415e+04
78	27	1.264e+05	4007.87	0.06	-5699.20	0.0	744.82	1941.89	-23.22	1.989e+05	4007.87	1.881e+04
		-2.785e+05	-3597.69	0.02	0.0	327.5	744.82	-3757.31	-23.22	1.989e+05	-3597.69	-2.785e+05
78	28	1.464e+05	1040.48	0.27	-5699.20	0.0	-168.40	4973.94	-3.56	5119.22	1040.48	-5.645e+05
		-5.645e+05	-126.98	6.27e-04	0.0	327.5	-168.40	-725.26	-3.56	5119.22	-126.98	1.313e+05
78	29	4.537e+05	-8.62	-0.30	-5699.20	0.0	-50.68	33.43	2.82	2.551e+04	-933.72	4.537e+05
		-4.686e+05	-933.72	-2.42e-04	0.0	327.5	-50.68	-5665.77	2.82	2.551e+04	-8.62	-4.686e+05
78	30	1.290e+05	4003.81	-0.08	-5699.20	0.0	-1156.54	3125.94	26.28	-2.649e+05	-4602.78	-1.515e+05
		-1.515e+05	-4602.78	-0.03	0.0	327.5	-1156.54	-2573.26	26.28	-2.649e+05	4003.81	-6.103e+04
78	31	1.242e+05	4471.64	0.06	-5699.20	0.0	764.09	1945.81	-25.70	3.035e+05	4471.64	1.620e+04
		-2.798e+05	-3946.05	0.03	0.0	327.5	764.09	-3753.39	-25.70	3.035e+05	-3946.05	-2.798e+05
78	32	4.836e+05	1760.32	0.40	-5699.20	0.0	-172.01	7786.07	-6.13	-48.25	1760.32	-1.133e+06
		-1.133e+06	-247.82	3.84e-03	0.0	327.5	-172.01	2086.86	-6.13	-48.25	-247.82	4.836e+05
78	33	1.028e+06	137.53	-0.40	-5699.20	0.0	-7.77	-2747.06	5.48	2.896e+04	-1658.36	1.028e+06
		-8.052e+05	-1658.36	-3.86e-03	0.0	327.5	-7.77	-8446.26	5.48	2.896e+04	137.53	-8.052e+05
78	34	1.290e+05	4003.81	-0.08	-5699.20	0.0	-1156.54	3125.94	26.28	-2.649e+05	-4602.78	-1.515e+05
		-1.515e+05	-4602.78	-0.03	0.0	327.5	-1156.54	-2573.26	26.28	-2.649e+05	4003.81	-6.103e+04
78	35	1.242e+05	4471.64	0.06	-5699.20	0.0	764.09	1945.81	-25.70	3.035e+05	4471.64	1.620e+04
		-2.798e+05	-3946.05	0.03	0.0	327.5	764.09	-3753.39	-25.70	3.035e+05	-3946.05	-2.798e+05
78	36	2.771e+05	1285.87	0.30	-5699.20	0.0	-223.59	6047.26	-4.25	4175.46	1285.87	-7.701e+05
		-7.701e+05	-106.23	6.42e-04	0.0	327.5	-223.59	348.06	-4.25	4175.46	-106.23	2.771e+05
78	37	6.576e+05	-26.21	-0.32	-5699.20	0.0	38.78	-1036.20	3.42	2.597e+04	-1145.74	6.576e+05
		-6.150e+05	-1145.74	-2.22e-04	0.0	327.5	38.78	-6735.40	3.42	2.597e+04	-26.21	-6.150e+05
78	38	1.187e+05	48.66	-0.01	-5699.20	0.0	-148.22	2506.86	-0.38	1.465e+04	48.66	-6.190e+04
		-1.742e+05	-74.18	2.18e-04	0.0	327.5	-148.22	-3192.34	-0.38	1.465e+04	-74.18	-1.742e+05
78	39	1.167e+05	50.83	-0.02	-5699.20	0.0	-170.72	2535.78	-0.41	1.553e+04	50.83	-6.803e+04
		-1.708e+05	-83.34	2.47e-04	0.0	327.5	-170.72	-3163.42	-0.41	1.553e+04	-83.34	-1.708e+05
78	40	1.266e+05	50.08	-0.02	-6056.89	0.0	-157.11	2670.24	-0.39	1.484e+04	50.08	-6.611e+04
		-1.834e+05	-76.86	2.25e-04	0.0	327.5	-157.11	-3386.65	-0.39	1.484e+04	-76.86	-1.834e+05
78	41	1.170e+05	50.52	-0.02	-5699.20	0.0	-167.50	2531.64	-0.40	1.541e+04	50.52	-6.716e+04
		-1.713e+05	-82.03	2.43e-04	0.0	327.5	-167.50	-3167.56	-0.40	1.541e+04	-82.03	-1.713e+05
78	42	1.249e+05	51.94	-0.02	-6056.89	0.0	-176.39	2695.03	-0.42	1.559e+04	51.94	-7.136e+04
		-1.806e+05	-84.72	2.50e-04	0.0	327.5	-176.39	-3361.86	-0.42	1.559e+04	-84.72	-1.806e+05
78	43	1.187e+05	48.66	-0.01	-5699.20	0.0	-148.22	2506.86	-0.38	1.465e+04	48.66	-6.190e+04
		-1.742e+05	-74.18	2.18e-04	0.0	327.5	-148.22	-3192.34	-0.38	1.465e+04	-74.18	-1.742e+05
78	44	1.170e+05	50.52	-0.02	-5699.20	0.0	-167.50	2531.64	-0.40	1.541e+04	50.52	-6.716e+04
		-1.713e+05	-82.03	2.43e-04	0.0	327.5	-167.50	-3167.56	-0.40	1.541e+04	-82.03	-1.713e+05
78	45	1.187e+05	48.66	-0.01	-5699.20	0.0	-148.22	2506.86	-0.38	1.465e+04	48.66	-6.190e+04
		-1.742e+05	-74.18	2.18e-04	0.0	327.5	-148.22	-3192.34	-0.38	1.465e+04	-74.18	-1.742e+05
78	46	1.170e+05	50.52	-0.02	-5699.20	0.0	-167.50	2531.64	-0.40	1.541e+04	50.52	-6.716e+04
		-1.713e+05	-82.03	2.43e-04	0.0	327.5	-167.50	-3167.56	-0.40	1.541e+04	-82.03	-1.713e+05
79	1	4.954e+04	-47.59	-0.01	-7363.72	0.0	-133.62	3385.14	-0.32	505.21	-47.59	-2.031e+05
		-2.997e+05	-151.12	1.02e-04	0.0	325.5	-133.62	-3978.57	-0.32	505.21	-151.12	-2.997e+05
79	2	6.022e+04	-51.79	-0.01	-8696.85	0.0	-168.55	3993.14	-0.35	509.91	-51.79	-2.375e+05
		-3.532e+05	-164.55	1.11e-04	0.0	325.5	-168.55	-4703.71	-0.35	509.91	-164.55	-3.532e+05
79	3	5.644e+04	-61.39	-0.02	-7363.72	0.0	-184.19	3409.43	-0.36	512.83	-61.39	-1.997e+05
		-2.884e+05	-178.88	1.21e-04	0.0	325.5	-184.19	-3954.29	-0.36	512.83	-178.88	-2.884e+05
79	4	6.711e+04	-65.59	-0.02	-8696.85	0.0	-219.13	4017.42	-0.39	517.53	-65.59	-2.341e+05
		-3.418e+05	-192.31	1.30e-04	0.0	325.5	-219.13	-4679.43	-0.39	517.53	-192.31	-3.418e+05
79	5	3.634e+04	-33.07	-8.52e-03	-5664.40	0.0	-89.82	2597.73	-0.23	386.67	-33.07	-1.571e+05
		-2.335e+05	-109.13	7.36e-05	0.0	325.5	-89.82	-3066.67	-0.23	386.67	-109.13	-2.335e+05
79	6	4.702e+04	-37.27	-0.01	-6997.53	0.0	-124.75	3205.72	-0.26	391.36	-37.27	-1.915e+05
		-2.869e+05	-122.56	8.23e-05	0.0	325.5	-124.75	-3791.81	-0.26	391.36	-122.56	-2.869e+05
79	7	4.324e+04	-46.87	-0.01	-5664.40	0.0	-140.39	2622.01	-0.28	394.29	-46.87	-1.537e+05
		-2.221e+05	-136.89	9.28e-05	0.0	325.5	-140.39	-3042.38	-0.28	394.29	-136.89	-2.221e+05
79	8	5.391e+04	-51.07	-0.01	-6997.53	0.0	-175.32	3230.01	-0.30	398.99	-51.07	-1.881e+05
		-2.756e+05	-150.32	1.02e-04	0.0	325.5	-175.32	-3767.52	-0.30	398.99	-150.32	-2.756e+05
79	9	7.089e+04	-55.99	-0.02	-1.003e+04	0.0	-203.48	4601.13	-0.37	514.60	-55.99	-2.719e+05
		-4.066e+05	-177.98	1.20e-04	0.0	325.5	-203.48	-5428.85	-0.37	514.60	-177.98	-4.066e+05
79	10	5.437e+04	-57.25	-0.02	-7363.72	0.0	-169.02	3402.14	-0.35	510.55	-57.25	-2.007e+05
		-2.918e+05	-170.55	1.16e-04	0.0	325.5	-169.02	-3961.57	-0.35	510.55	-170.55	-2.918e+05
79	11	7.572e+04	-65.65	-0.02	-1.003e+04	0.0	-238.89	4618.13	-0.40	519.94	-65.65	-2.695e+05
		-3.987e+05	-197.41	1.33e-04	0.0	325.5	-238.89	-5411.85	-0.40	519.94	-197.41	-3.987e+05
79	12	5.769e+04	-41.47	-0.01	-8330.66	0.0	-159.68	3813.71	-0.29	396.06	-41.47	-2.259e+05
		-3.403e+05	-135.99	9.11e-05	0.0	325.5	-159.68	-4516.94	-0.29	396.06	-135.99	-3.403e+05
79	13	4.117e+04	-42.73	-0.01	-5664.40	0.0	-125.22	2614.73	-0.26	392.00	-42.73	-1.547e+05

		-2.255e+05	-128.56	8.71e-05	0.0	325.5	-125.22	-3049.67	-0.26	392.00	-128.56	-2.255e+05
79	14	6.252e+04	-51.13	-0.02	-8330.66	0.0	-195.08	3830.71	-0.32	401.40	-51.13	-2.235e+05
		-3.324e+05	-155.42	1.05e-04	0.0	325.5	-195.08	-4499.95	-0.32	401.40	-155.42	-3.324e+05
79	15	3.787e+04	-36.14	-9.38e-03	-5664.40	0.0	-101.06	2603.13	-0.24	388.36	-36.14	-1.564e+05
		-2.309e+05	-115.30	7.79e-05	0.0	325.5	-101.06	-3061.27	-0.24	388.36	-115.30	-2.309e+05
79	16	4.499e+04	-38.94	-0.01	-6553.15	0.0	-124.34	3008.45	-0.26	391.49	-38.94	-1.793e+05
		-2.666e+05	-124.25	8.37e-05	0.0	325.5	-124.34	-3544.70	-0.26	391.49	-124.25	-2.666e+05
79	17	4.247e+04	-45.34	-0.01	-5664.40	0.0	-134.77	2619.32	-0.27	393.44	-45.34	-1.541e+05
		-2.234e+05	-133.80	9.07e-05	0.0	325.5	-134.77	-3045.08	-0.27	393.44	-133.80	-2.234e+05
79	18	4.959e+04	-48.14	-0.01	-6553.15	0.0	-158.06	3024.64	-0.29	396.58	-48.14	-1.770e+05
		-2.590e+05	-142.76	9.65e-05	0.0	325.5	-158.06	-3528.51	-0.29	396.58	-142.76	-2.590e+05
79	19	5.211e+04	-41.74	-0.01	-7441.90	0.0	-147.63	3413.78	-0.28	394.62	-41.74	-2.022e+05
		-3.022e+05	-133.21	8.95e-05	0.0	325.5	-147.63	-4028.12	-0.28	394.62	-133.21	-3.022e+05
79	20	4.109e+04	-42.58	-0.01	-5664.40	0.0	-124.66	2614.46	-0.26	391.92	-42.58	-1.548e+05
		-2.256e+05	-128.25	8.69e-05	0.0	325.5	-124.66	-3049.94	-0.26	391.92	-128.25	-2.256e+05
79	21	5.533e+04	-48.18	-0.01	-7441.90	0.0	-171.23	3425.12	-0.30	398.18	-48.18	-2.006e+05
		-2.969e+05	-146.16	9.85e-05	0.0	325.5	-171.23	-4016.79	-0.30	398.18	-146.16	-2.969e+05
79	22	9.575e+04	2715.37	-0.03	-5664.40	0.0	-2172.42	2669.63	4.07	-9772.44	1389.56	-1.083e+05
		-1.612e+05	1389.56	-0.02	0.0	325.5	-2172.42	-2994.76	4.07	-9772.44	2715.37	-1.612e+05
79	23	-1.364e+04	-1412.03	0.01	-5664.40	0.0	1882.87	2553.93	-4.42	1.031e+04	-1412.03	-2.009e+05
		-2.915e+05	-2851.49	0.02	0.0	325.5	1882.87	-3110.47	-4.42	1.031e+04	-2851.49	-2.915e+05
79	24	4.915e+05	297.41	0.24	-5664.40	0.0	-422.18	7661.17	-1.96	-7007.48	297.41	-1.080e+06
		-1.080e+06	-341.93	5.19e-03	0.0	325.5	-422.18	1996.78	-1.96	-7007.48	-341.93	4.915e+05
79	25	7.583e+05	182.25	-0.26	-5664.40	0.0	394.71	-2877.49	1.63	7458.94	-348.79	7.583e+05
		-1.100e+06	-348.79	-4.98e-03	0.0	325.5	394.71	-8541.89	1.63	7458.94	182.25	-1.100e+06
79	26	9.227e+04	2535.97	-0.03	-5664.40	0.0	-2086.82	2668.00	3.90	-6584.77	1266.64	-1.115e+05
		-1.649e+05	1266.64	-0.02	0.0	325.5	-2086.82	-2996.40	3.90	-6584.77	2535.97	-1.649e+05
79	27	-1.041e+04	-1313.24	9.81e-03	-5664.40	0.0	1816.82	2555.50	-4.31	7337.72	-1313.24	-1.979e+05
		-2.879e+05	-2717.18	0.02	0.0	325.5	1816.82	-3108.89	-4.31	7337.72	-2717.18	-2.879e+05
79	28	2.010e+05	77.93	0.18	-5664.40	0.0	-328.10	5451.54	-0.77	-4961.41	77.93	-6.524e+05
		-6.524e+05	-171.35	1.00e-03	0.0	325.5	-328.10	-212.85	-0.77	-4961.41	-171.35	2.002e+05
79	29	3.643e+05	-51.21	-0.20	-5664.40	0.0	268.99	-323.80	0.25	5736.09	-134.20	3.643e+05
		-6.630e+05	-134.20	-8.72e-04	0.0	325.5	268.99	-5988.19	0.25	5736.09	-51.21	-6.630e+05
79	30	9.715e+04	3078.70	-0.03	-5664.40	0.0	-2164.99	2636.73	6.35	-1.176e+04	1010.46	-1.019e+05
		-1.655e+05	1010.46	-0.02	0.0	325.5	-2164.99	-3027.67	6.35	-1.176e+04	3078.70	-1.655e+05
79	31	-1.458e+04	-961.99	0.01	-5664.40	0.0	1840.08	2587.18	-6.76	1.265e+04	-961.99	-2.066e+05
		-2.863e+05	-3163.54	0.02	0.0	325.5	1840.08	-3077.21	-6.76	1.265e+04	-3163.54	-2.863e+05
79	32	5.225e+05	236.88	0.24	-5664.40	0.0	-582.93	7802.12	-1.60	-6963.09	236.88	-1.095e+06
		-1.095e+06	-282.68	4.53e-03	0.0	325.5	-582.93	2137.72	-1.60	-6963.09	-282.68	5.225e+05
79	33	7.736e+05	142.62	-0.26	-5664.40	0.0	385.57	-2933.67	1.43	7454.80	-321.63	7.736e+05
		-1.103e+06	-321.63	-4.77e-03	0.0	325.5	385.57	-8598.07	1.43	7454.80	142.62	-1.103e+06
79	34	9.715e+04	3078.70	-0.03	-5664.40	0.0	-2164.99	2636.73	6.35	-1.176e+04	1010.46	-1.019e+05
		-1.655e+05	1010.46	-0.02	0.0	325.5	-2164.99	-3027.67	6.35	-1.176e+04	3078.70	-1.655e+05
79	35	-1.458e+04	-961.99	0.01	-5664.40	0.0	1840.08	2587.18	-6.76	1.265e+04	-961.99	-2.066e+05
		-2.863e+05	-3163.54	0.02	0.0	325.5	1840.08	-3077.21	-6.76	1.265e+04	-3163.54	-2.863e+05
79	36	3.340e+05	80.76	0.20	-5664.40	0.0	-410.74	6286.75	-0.73	-5525.09	80.76	-7.904e+05
		-7.904e+05	-157.93	1.17e-03	0.0	325.5	-410.74	622.35	-0.73	-5525.09	-157.93	3.340e+05
79	37	4.887e+05	-62.22	-0.22	-5664.40	0.0	410.34	-1089.29	0.20	6133.12	-126.75	4.887e+05
		-7.877e+05	-126.75	-9.74e-04	0.0	325.5	410.34	-6753.69	0.20	6133.12	-62.22	-7.877e+05
79	38	3.787e+04	-36.14	-9.38e-03	-5664.40	0.0	-101.06	2603.13	-0.24	388.36	-36.14	-1.564e+05
		-2.309e+05	-115.30	7.79e-05	0.0	325.5	-101.06	-3061.27	-0.24	388.36	-115.30	-2.309e+05
79	39	4.109e+04	-42.58	-0.01	-5664.40	0.0	-124.66	2614.46	-0.26	391.92	-42.58	-1.548e+05
		-2.256e+05	-128.25	8.69e-05	0.0	325.5	-124.66	-3049.94	-0.26	391.92	-128.25	-2.256e+05
79	40	4.072e+04	-37.26	-9.91e-03	-6019.90	0.0	-110.37	2765.26	-0.25	389.61	-37.26	-1.655e+05
		-2.452e+05	-118.88	8.02e-05	0.0	325.5	-110.37	-3254.64	-0.25	389.61	-118.88	-2.452e+05
79	41	4.063e+04	-41.66	-0.01	-5664.40	0.0	-121.28	2612.84	-0.26	391.41	-41.66	-1.550e+05
		-2.264e+05	-126.40	8.56e-05	0.0	325.5	-121.28	-3051.56	-0.26	391.41	-126.40	-2.264e+05
79	42	4.348e+04	-42.78	-0.01	-6019.90	0.0	-130.60	2774.97	-0.27	392.66	-42.78	-1.642e+05
		-2.407e+05	-129.98	8.79e-05	0.0	325.5	-130.60	-3244.93	-0.27	392.66	-129.98	-2.407e+05
79	43	3.787e+04	-36.14	-9.38e-03	-5664.40	0.0	-101.06	2603.13	-0.24	388.36	-36.14	-1.564e+05
		-2.309e+05	-115.30	7.79e-05	0.0	325.5	-101.06	-3061.27	-0.24	388.36	-115.30	-2.309e+05
79	44	4.063e+04	-41.66	-0.01	-5664.40	0.0	-121.28	2612.84	-0.26	391.41	-41.66	-1.550e+05
		-2.264e+05	-126.40	8.56e-05	0.0	325.5	-121.28	-3051.56	-0.26	391.41	-126.40	-2.264e+05
79	45	3.787e+04	-36.14	-9.38e-03	-5664.40	0.0	-101.06	2603.13	-0.24	388.36	-36.14	-1.564e+05
		-2.309e+05	-115.30	7.79e-05	0.0	325.5	-101.06	-3061.27	-0.24	388.36	-115.30	-2.309e+05
79	46	4.063e+04	-41.66	-0.01	-5664.40	0.0	-121.28	2612.84	-0.26	391.41	-41.66	-1.550e+05
		-2.264e+05	-126.40	8.56e-05	0.0	325.5	-121.28	-3051.56	-0.26	391.41	-126.40	-2.264e+05
80	1	2.751e+05	80.82	-0.06	-9942.71	0.0	-389.02	5511.71	0.55	-1.643e+04	-163.05	-3.961e+05
		-3.961e+05	-163.05	-3.33e-04	0.0	439.5	-389.02	-4431.00	0.55	-1.643e+04	80.82	-1.587e+05
80	2	3.285e+05	86.55	-0.07	-1.174e+04	0.0	-444.61	6495.24	0.60	-1.707e+04	-178.51	-4.608e+05
		-4.608e+05	-178.51	-3.67e-04	0.0	439.5	-444.61	-5247.51	0.60	-1.707e+04	86.55	-1.866e+05
80	3	2.677e+05	92.48	-0.06	-9942.71	0.0	-470.40	5448.31	0.65	-1.819e+04	-193.96	-3.879e+05
		-3.879e+05	-193.96	-4.03e-04	0.0	439.5	-470.40	-4494.40	0.65	-1.819e+04	92.48	-1.783e+05
80	4	3.210e+05	98.21	-0.07	-1.174e+04	0.0	-525.98	6431.83	0.70	-1.883e+04	-209.42	-4.526e+05
		-4.526e+05	-209.42	-4.36e-04	0.0	439.5	-525.98	-5310.92	0.70	-1.883e+04	98.21	-2.063e+05
80	5	2.136e+05	59.18	-0.05	-7648.24	0.0	-278.38	4256.04	0.40	-1.218e+04	-117.49	-3.068e+05
		-3.068e+05	-117.49	-2.39e-04	0.0	439.5	-278.38	-3392.20	0.40	-1.218e+04	59.18	-1.170e+05

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80      6 2.669e+05      64.91      -0.05   -9448.27      0.0    -333.97    5239.56    0.45 -1.283e+04   -132.95 -3.715e+05
        -3.715e+05    -132.95 -2.72e-04      0.0    439.5    -333.97   -4208.72    0.45 -1.283e+04     64.91 -1.449e+05
80      7 2.061e+05      70.84      -0.04   -7648.24      0.0    -359.76    4192.63    0.50 -1.395e+04   -148.41 -2.986e+05
        -2.986e+05    -148.41 -3.08e-04      0.0    439.5    -359.76   -3455.61    0.50 -1.395e+04     70.84 -1.367e+05
80      8 2.594e+05      76.57      -0.05   -9448.27      0.0    -415.34    5176.15    0.55 -1.459e+04   -163.87 -3.633e+05
        -3.633e+05    -163.87 -3.41e-04      0.0    439.5    -415.34   -4272.12    0.55 -1.459e+04     76.57 -1.646e+05
80      9 3.819e+05      92.28      -0.07 -1.354e+04      0.0    -500.19    7478.76    0.65 -1.772e+04   -193.96 -5.254e+05
        -5.254e+05    -193.96 -4.00e-04      0.0    439.5    -500.19   -6064.02    0.65 -1.772e+04     92.28 -2.145e+05
80     10 2.699e+05      88.98      -0.06   -9942.71      0.0    -445.99    5467.33    0.62 -1.766e+04   -184.68 -3.904e+05
        -3.904e+05    -184.68 -3.82e-04      0.0    439.5    -445.99   -4475.38    0.62 -1.766e+04     88.98 -1.724e+05
80     11 3.766e+05     100.45      -0.07 -1.354e+04      0.0    -557.15    7434.37    0.72 -1.895e+04   -215.60 -5.197e+05
        -5.197e+05    -215.60 -4.48e-04      0.0    439.5    -557.15   -6108.41    0.72 -1.895e+04    100.45 -2.283e+05
80     12 3.203e+05      70.64      -0.06 -1.125e+04      0.0    -389.55    6223.08    0.50 -1.348e+04   -148.41 -4.361e+05
        -4.361e+05    -148.41 -3.05e-04      0.0    439.5    -389.55   -5025.23    0.50 -1.348e+04     70.64 -1.729e+05
80     13 2.083e+05      67.34      -0.04   -7648.24      0.0    -335.35    4211.65    0.47 -1.342e+04   -139.13 -3.011e+05
        -3.011e+05    -139.13 -2.87e-04      0.0    439.5    -335.35   -3436.59    0.47 -1.342e+04     67.34 -1.308e+05
80     14 3.150e+05      78.80      -0.06 -1.125e+04      0.0    -446.51    6178.70    0.57 -1.471e+04   -170.05 -4.303e+05
        -4.303e+05    -170.05 -3.54e-04      0.0    439.5    -446.51   -5069.61    0.57 -1.471e+04     78.80 -1.866e+05
80     15 2.119e+05      61.77      -0.05   -7648.24      0.0    -296.47    4241.95    0.42 -1.258e+04   -124.36 -3.050e+05
        -3.050e+05    -124.36 -2.54e-04      0.0    439.5    -296.47   -3406.29    0.42 -1.258e+04     61.77 -1.214e+05
80     16 2.475e+05      65.59      -0.05   -8848.26      0.0    -333.52    4897.63    0.46 -1.301e+04   -134.67 -3.481e+05
        -3.481e+05    -134.67 -2.76e-04      0.0    439.5    -333.52   -3950.63    0.46 -1.301e+04     65.59 -1.400e+05
80     17 2.069e+05      69.55      -0.04   -7648.24      0.0    -350.72    4199.68    0.49 -1.375e+04   -144.97 -2.995e+05
        -2.995e+05    -144.97 -3.00e-04      0.0    439.5    -350.72   -3448.56    0.49 -1.375e+04     69.55 -1.345e+05
80     18 2.425e+05      73.37      -0.05   -8848.26      0.0    -387.77    4855.36    0.52 -1.418e+04   -155.28 -3.426e+05
        -3.426e+05    -155.28 -3.22e-04      0.0    439.5    -387.77   -3992.90    0.52 -1.418e+04     73.37 -1.531e+05
80     19 2.830e+05      69.41      -0.06 -1.005e+04      0.0    -370.58    5553.31    0.49 -1.344e+04   -144.98 -3.912e+05
        -3.912e+05    -144.98 -2.98e-04      0.0    439.5    -370.58   -4494.98    0.49 -1.344e+04     69.41 -1.586e+05
80     20 2.084e+05      67.21      -0.04   -7648.24      0.0    -334.44    4212.36    0.47 -1.340e+04   -138.79 -3.012e+05
        -3.012e+05    -138.79 -2.86e-04      0.0    439.5    -334.44   -3435.88    0.47 -1.340e+04     67.21 -1.305e+05
80     21 2.796e+05      74.85      -0.06 -1.005e+04      0.0    -408.55    5523.72    0.53 -1.426e+04   -159.40 -3.874e+05
        -3.874e+05    -159.40 -3.31e-04      0.0    439.5    -408.55   -4524.57    0.53 -1.426e+04     74.85 -1.678e+05
80     22 2.213e+05    2405.41       0.06   -7648.24      0.0   -1427.93    3746.86  -10.32  1.837e+05   2405.41 -1.819e+05
        -2.159e+05   -2130.21      -0.02      0.0    439.5   -1427.93   -3901.38  -10.32  1.837e+05  -2130.21 -2.159e+05
80     23 2.088e+05    2152.33      -0.09   -7648.24      0.0     729.72    4678.86   10.68 -2.137e+05  -2543.64 -4.199e+05
        -4.199e+05   -2543.64       0.02      0.0    439.5     729.72   -2969.38   10.68 -2.137e+05   2152.33 -4.421e+04
80     24 1.184e+06     216.03       0.35   -7648.24      0.0    -393.99    9039.43   -3.52 -2.466e+04    216.03 -1.108e+06
        -1.108e+06   -1329.20  5.94e-03      0.0    439.5    -393.99    1391.19   -3.52 -2.466e+04  -1329.20  1.184e+06
80     25 4.988e+05    1433.61      -0.39   -7648.24      0.0     383.41     -48.32    4.14   -1164.72   -387.04  4.988e+05
        -1.203e+06    -387.04 -6.12e-03      0.0    439.5     383.41   -7696.56    4.14   -1164.72   1433.61 -1.203e+06
80     26 2.204e+05    2209.33       0.05   -7648.24      0.0   -1373.14    3774.77   -9.51  1.323e+05   2209.33 -1.889e+05
        -2.106e+05   -1969.33      -0.02      0.0    439.5   -1373.14   -3873.47   -9.51  1.323e+05  -1969.33 -2.106e+05
80     27 2.082e+05    2046.00      -0.09   -7648.24      0.0     689.77    4653.02   10.14 -1.586e+05  -2410.52 -4.134e+05
        -4.134e+05   -2410.52       0.02      0.0    439.5     689.77   -2995.22   10.14 -1.586e+05   2046.00 -4.909e+04
80     28 4.747e+05     -15.29       0.24   -7648.24      0.0    -499.09    6447.35   -1.79 -2.185e+04    -15.29 -7.181e+05
        -7.181e+05    -804.14  5.59e-04      0.0    439.5    -499.09   -1200.89   -1.79 -2.185e+04   -804.14  4.348e+05
80     29 2.305e+05     944.93      -0.27   -7648.24      0.0      15.06    2062.58    2.67   -4573.53   -228.80  1.089e+05
        -6.653e+05    -228.80 -9.38e-04      0.0    439.5      15.06   -5585.66    2.67   -4573.53    944.93 -6.653e+05
80     30 2.204e+05    2162.93       0.06   -7648.24      0.0   -1451.99    3703.97   -9.00  2.093e+05   2162.93 -1.734e+05
        -2.262e+05   -1790.59      -0.02      0.0    439.5   -1451.99   -3944.27   -9.00  2.093e+05  -1790.59 -2.262e+05
80     31 2.119e+05    1741.43      -0.09   -7648.24      0.0     731.16    4715.08    9.02 -2.438e+05  -2224.80 -4.268e+05
        -4.268e+05   -2224.80       0.02      0.0    439.5     731.16   -2933.16    9.02 -2.438e+05   1741.43 -3.522e+04
80     32 1.050e+06     156.81       0.33   -7648.24      0.0    -501.15    8662.40   -3.58 -2.441e+04    156.81 -1.077e+06
        -1.077e+06   -1416.27  4.90e-03      0.0    439.5    -501.15    1014.16   -3.58 -2.441e+04  -1416.27  1.050e+06
80     33 4.957e+05    1608.46      -0.38   -7648.24      0.0     271.63     -40.96    4.50   -1139.64   -370.77  4.957e+05
        -1.203e+06    -370.77 -5.69e-03      0.0    439.5     271.63   -7689.20    4.50   -1139.64   1608.46 -1.203e+06
80     34 2.204e+05    2162.93       0.06   -7648.24      0.0   -1451.99    3703.97   -9.00  2.093e+05   2162.93 -1.734e+05
        -2.262e+05   -1790.59      -0.02      0.0    439.5   -1451.99   -3944.27   -9.00  2.093e+05  -1790.59 -2.262e+05
80     35 2.119e+05    1741.43      -0.09   -7648.24      0.0     731.16    4715.08    9.02 -2.438e+05  -2224.80 -4.268e+05
        -4.268e+05   -2224.80       0.02      0.0    439.5     731.16   -2933.16    9.02 -2.438e+05   1741.43 -3.522e+04
80     36 6.528e+05     -11.01       0.27   -7648.24      0.0    -486.13    7276.40   -2.31 -2.269e+04    -11.01 -8.685e+05
        -8.685e+05   -1025.80  6.68e-04      0.0    439.5    -486.13    -371.84   -2.31 -2.269e+04  -1025.80  6.488e+05
80     37 2.986e+05    1131.80      -0.29   -7648.24      0.0      75.45    1313.36    3.08   -3928.72   -223.50  2.495e+05
        -8.540e+05    -223.50 -9.53e-04      0.0    439.5      75.45   -6334.88    3.08   -3928.72   1131.80 -8.540e+05
80     38 2.119e+05      61.77      -0.05   -7648.24      0.0    -296.47    4241.95    0.42 -1.258e+04   -124.36 -3.050e+05
        -3.050e+05    -124.36 -2.54e-04      0.0    439.5    -296.47   -3406.29    0.42 -1.258e+04     61.77 -1.214e+05
80     39 2.084e+05      67.21      -0.04   -7648.24      0.0    -334.44    4212.36    0.47 -1.340e+04   -138.79 -3.012e+05
        -3.012e+05    -138.79 -2.86e-04      0.0    439.5    -334.44   -3435.88    0.47 -1.340e+04     67.21 -1.305e+05
80     40 2.261e+05      63.30      -0.05   -8128.25      0.0    -311.29    4504.22    0.44 -1.275e+04   -128.49 -3.222e+05
        -3.222e+05    -128.49 -2.63e-04      0.0    439.5    -311.29   -3624.03    0.44 -1.275e+04     63.30 -1.288e+05
80     41 2.089e+05      66.44      -0.04   -7648.24      0.0    -329.02    4216.58    0.46 -1.328e+04   -136.73 -3.017e+05
        -3.017e+05    -136.73 -2.82e-04      0.0    439.5    -329.02   -3431.66    0.46 -1.328e+04     66.44 -1.292e+05
80     42 2.231e+05      67.96      -0.05   -8128.25      0.0    -343.84    4478.86    0.48 -1.345e+04   -140.85 -3.190e+05
        -3.190e+05    -140.85 -2.91e-04      0.0    439.5    -343.84   -3649.39    0.48 -1.345e+04     67.96 -1.367e+05
80     43 2.119e+05      61.77      -0.05   -7648.24      0.0    -296.47    4241.95    0.42 -1.258e+04   -124.36 -3.050e+05
        -3.050e+05    -124.36 -2.54e-04      0.0    439.5    -296.47   -3406.29    0.42 -1.258e+04     61.77 -1.214e+05
80     44 2.089e+05      66.44      -0.04   -7648.24      0.0    -329.02    4216.58    0.46 -1.328e+04   -136.73 -3.017e+05
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		-3.017e+05	-136.73	-2.82e-04	0.0	439.5	-329.02	-3431.66	0.46	-1.328e+04	66.44 -1.292e+05
80	45	2.119e+05	61.77	-0.05	-7648.24	0.0	-296.47	4241.95	0.42	-1.258e+04	-124.36 -3.050e+05
		-3.050e+05	-124.36	-2.54e-04	0.0	439.5	-296.47	-3406.29	0.42	-1.258e+04	61.77 -1.214e+05
80	46	2.089e+05	66.44	-0.04	-7648.24	0.0	-329.02	4216.58	0.46	-1.328e+04	-136.73 -3.017e+05
		-3.017e+05	-136.73	-2.82e-04	0.0	439.5	-329.02	-3431.66	0.46	-1.328e+04	66.44 -1.292e+05
81	1	1.718e+05	53.55	-0.05	-3777.64	0.0	-292.16	1795.33	0.04	-1.028e+04	25.93 -1.029e+05
		-1.633e+05	25.93	-3.41e-04	0.0	645.8	-292.16	-1982.30	0.04	-1.028e+04	53.55 -1.633e+05
81	2	1.728e+05	60.68	-0.06	-3777.64	0.0	-300.63	1810.41	0.05	-1.259e+04	25.62 -1.068e+05
		-1.575e+05	25.62	-3.84e-04	0.0	645.8	-300.63	-1967.23	0.05	-1.259e+04	60.68 -1.575e+05
81	3	1.745e+05	71.64	-0.06	-3777.64	0.0	-323.33	1837.96	0.07	-1.121e+04	25.07 -1.140e+05
		-1.469e+05	25.07	-4.48e-04	0.0	645.8	-323.33	-1939.68	0.07	-1.121e+04	71.64 -1.469e+05
81	4	1.754e+05	78.77	-0.07	-3777.64	0.0	-331.80	1853.03	0.08	-1.353e+04	24.77 -1.179e+05
		-1.410e+05	24.77	-4.90e-04	0.0	645.8	-331.80	-1924.61	0.08	-1.353e+04	78.77 -1.410e+05
81	5	1.315e+05	36.56	-0.04	-2905.88	0.0	-216.75	1370.10	0.03	-7667.63	20.16 -7.635e+04
		-1.298e+05	20.16	-2.35e-04	0.0	645.8	-216.75	-1535.78	0.03	-7667.63	36.56 -1.298e+05
81	6	1.324e+05	43.68	-0.04	-2905.88	0.0	-225.22	1385.17	0.04	-9983.26	19.86 -8.025e+04
		-1.240e+05	19.86	-2.77e-04	0.0	645.8	-225.22	-1520.70	0.04	-9983.26	43.68 -1.240e+05
81	7	1.341e+05	54.65	-0.05	-2905.88	0.0	-247.92	1412.72	0.05	-8600.91	19.31 -8.743e+04
		-1.134e+05	19.31	-3.42e-04	0.0	645.8	-247.92	-1493.16	0.05	-8600.91	54.65 -1.134e+05
81	8	1.351e+05	61.77	-0.05	-2905.88	0.0	-256.39	1427.79	0.07	-1.092e+04	19.01 -9.134e+04
		-1.076e+05	19.01	-3.84e-04	0.0	645.8	-256.39	-1478.08	0.07	-1.092e+04	61.77 -1.076e+05
81	9	1.737e+05	67.80	-0.06	-3777.64	0.0	-309.11	1825.48	0.07	-1.491e+04	25.32 -1.108e+05
		-1.517e+05	25.32	-4.26e-04	0.0	645.8	-309.11	-1952.16	0.07	-1.491e+04	67.80 -1.517e+05
81	10	1.737e+05	66.22	-0.06	-3777.64	0.0	-313.98	1825.17	0.06	-1.093e+04	25.33 -1.107e+05
		-1.518e+05	25.33	-4.16e-04	0.0	645.8	-313.98	-1952.47	0.06	-1.093e+04	66.22 -1.518e+05
81	11	1.756e+05	80.47	-0.07	-3777.64	0.0	-330.93	1855.32	0.09	-1.556e+04	24.72 -1.185e+05
		-1.401e+05	24.72	-5.00e-04	0.0	645.8	-330.93	-1922.32	0.09	-1.556e+04	80.47 -1.401e+05
81	12	1.334e+05	50.81	-0.05	-2905.88	0.0	-233.70	1400.24	0.05	-1.230e+04	19.56 -8.415e+04
		-1.182e+05	19.56	-3.19e-04	0.0	645.8	-233.70	-1505.63	0.05	-1.230e+04	50.81 -1.182e+05
81	13	1.333e+05	49.22	-0.05	-2905.88	0.0	-238.57	1399.93	0.05	-8320.92	19.57 -8.411e+04
		-1.183e+05	19.57	-3.10e-04	0.0	645.8	-238.57	-1505.94	0.05	-8320.92	49.22 -1.183e+05
81	14	1.353e+05	63.47	-0.05	-2905.88	0.0	-255.51	1430.08	0.07	-1.295e+04	18.96 -9.191e+04
		-1.067e+05	18.96	-3.94e-04	0.0	645.8	-255.51	-1475.80	0.07	-1.295e+04	63.47 -1.067e+05
81	15	1.321e+05	40.58	-0.04	-2905.88	0.0	-223.67	1379.57	0.03	-7875.02	19.97 -7.881e+04
		-1.262e+05	19.97	-2.59e-04	0.0	645.8	-223.67	-1526.31	0.03	-7875.02	40.58 -1.262e+05
81	16	1.327e+05	45.33	-0.04	-2905.88	0.0	-229.32	1389.62	0.04	-9418.78	19.77 -8.141e+04
		-1.223e+05	19.77	-2.87e-04	0.0	645.8	-229.32	-1516.26	0.04	-9418.78	45.33 -1.223e+05
81	17	1.338e+05	52.64	-0.05	-2905.88	0.0	-244.45	1407.98	0.05	-8497.21	19.40 -8.620e+04
		-1.152e+05	19.40	-3.30e-04	0.0	645.8	-244.45	-1497.89	0.05	-8497.21	52.64 -1.152e+05
81	18	1.345e+05	57.39	-0.05	-2905.88	0.0	-250.10	1418.03	0.06	-1.004e+04	19.20 -8.880e+04
		-1.113e+05	19.20	-3.58e-04	0.0	645.8	-250.10	-1487.84	0.06	-1.004e+04	57.39 -1.113e+05
81	19	1.333e+05	50.08	-0.05	-2905.88	0.0	-234.97	1399.67	0.05	-1.096e+04	19.57 -8.401e+04
		-1.184e+05	19.57	-3.15e-04	0.0	645.8	-234.97	-1506.21	0.05	-1.096e+04	50.08 -1.184e+05
81	20	1.333e+05	49.02	-0.05	-2905.88	0.0	-238.22	1399.46	0.05	-8310.55	19.57 -8.398e+04
		-1.185e+05	19.57	-3.09e-04	0.0	645.8	-238.22	-1506.42	0.05	-8310.55	49.02 -1.185e+05
81	21	1.346e+05	58.52	-0.05	-2905.88	0.0	-249.52	1419.56	0.06	-1.140e+04	19.17 -8.919e+04
		-1.107e+05	19.17	-3.65e-04	0.0	645.8	-249.52	-1486.32	0.06	-1.140e+04	58.52 -1.107e+05
81	22	7.016e+05	1802.49	0.17	-2905.88	0.0	-126.74	4694.34	-4.50	-1.795e+04	1802.49 -1.392e+06
		-1.392e+06	-1104.63	-0.04	0.0	645.8	-126.74	1788.47	-4.50	-1.795e+04	-1104.63 7.016e+05
81	23	1.289e+06	1231.37	-0.23	-2905.88	0.0	-44.92	-2002.19	4.78	1456.81	-1853.61 1.289e+06
		-9.418e+05	-1853.61	0.04	0.0	645.8	-44.92	-4908.06	4.78	1456.81	1231.37 -9.418e+05
81	24	1.226e+05	1582.45	0.11	-2905.88	0.0	881.36	1064.44	-5.59	-2818.58	1582.45 -3257.05
		-2.541e+05	-2026.60	0.02	0.0	645.8	881.36	-1841.43	-5.59	-2818.58	-2026.60 -2.541e+05
81	25	1.632e+05	1937.22	-0.15	-2905.88	0.0	-1300.40	1687.13	5.22	1574.56	-1436.03 -1.528e+05
		-1.528e+05	-1436.03	-0.02	0.0	645.8	-1300.40	-1218.75	5.22	1574.56	1937.22 -1574.28
81	26	5.984e+05	1716.51	0.16	-2905.88	0.0	65.29	4138.93	-4.41	-1.697e+04	1716.51 -1.136e+06
		-1.136e+06	-1129.32	-0.04	0.0	645.8	65.29	1233.06	-4.41	-1.697e+04	-1129.32 5.984e+05
81	27	1.007e+06	1239.44	-0.22	-2905.88	0.0	-296.56	-1394.33	4.60	428.50	-1732.74 1.007e+06
		-8.317e+05	-1732.74	0.04	0.0	645.8	-296.56	-4300.21	4.60	428.50	1239.44 -8.317e+05
81	28	1.228e+05	1050.17	0.06	-2905.88	0.0	550.62	1181.38	-3.73	-1.855e+04	1050.17 -3.134e+04
		-2.067e+05	-1356.27	7.29e-03	0.0	645.8	550.62	-1724.49	-3.73	-1.855e+04	-1356.27 -2.067e+05
81	29	1.530e+05	1414.04	-0.11	-2905.88	0.0	-1028.04	1607.58	3.74	-910.23	-1001.95 -1.341e+05
		-1.341e+05	-1001.95	-7.73e-03	0.0	645.8	-1028.04	-1298.30	3.74	-910.23	1414.04 -3.421e+04
81	30	7.269e+05	1557.61	0.17	-2905.88	0.0	-411.56	4791.68	-3.85	-1.846e+04	1557.61 -1.429e+06
		-1.429e+06	-928.43	-0.04	0.0	645.8	-411.56	1885.80	-3.85	-1.846e+04	-928.43 7.269e+05
81	31	1.390e+06	1074.62	-0.24	-2905.88	0.0	390.48	-2222.59	4.26	2208.26	-1675.38 1.390e+06
		-9.833e+05	-1675.38	0.04	0.0	645.8	390.48	-5128.46	4.26	2208.26	1074.62 -9.833e+05
81	32	1.222e+05	1947.42	0.10	-2905.88	0.0	1068.06	1077.14	-6.81	-1.140e+04	1947.42 -6736.97
		-2.494e+05	-2451.11	0.02	0.0	645.8	1068.06	-1828.73	-6.81	-1.140e+04	-2451.11 -2.494e+05
81	33	1.626e+05	2487.57	-0.15	-2905.88	0.0	-1520.90	1677.65	6.81	689.52	-1907.91 -1.499e+05
		-1.499e+05	-1907.91	-0.02	0.0	645.8	-1520.90	-1228.22	6.81	689.52	2487.57 -4809.73
81	34	7.269e+05	1557.61	0.17	-2905.88	0.0	-411.56	4791.68	-3.85	-1.846e+04	1557.61 -1.429e+06
		-1.429e+06	-928.43	-0.04	0.0	645.8	-411.56	1885.80	-3.85	-1.846e+04	-928.43 7.269e+05
81	35	1.390e+06	1074.62	-0.24	-2905.88	0.0	390.48	-2222.59	4.26	2208.26	-1675.38 1.390e+06
		-9.833e+05	-1675.38	0.04	0.0	645.8	390.48	-5128.46	4.26	2208.26	1074.62 -9.833e+05
81	36	1.223e+05	1506.90	0.07	-2905.88	0.0	796.89	1163.83	-5.29	-1.897e+04	1506.90 -2.755e+04
		-2.142e+05	-1907.53	9.59e-03	0.0	645.8	796.89	-1742.04	-5.29	-1.897e+04	-1907.53 -2.142e+05

81	37	1.545e+05	1908.96	-0.12	-2905.88	0.0	-1248.40	1615.60	5.15	-1745.12	-1418.30 -1.355e+05
		-1.355e+05	-1418.30	-9.66e-03	0.0	645.8	-1248.40	-1290.28	5.15	-1745.12	1908.96 -3.046e+04
81	38	1.321e+05	40.58	-0.04	-2905.88	0.0	-223.67	1379.57	0.03	-7875.02	19.97 -7.881e+04
		-1.262e+05	19.97	-2.59e-04	0.0	645.8	-223.67	-1526.31	0.03	-7875.02	40.58 -1.262e+05
81	39	1.333e+05	49.02	-0.05	-2905.88	0.0	-238.22	1399.46	0.05	-8310.55	19.57 -8.398e+04
		-1.185e+05	19.57	-3.09e-04	0.0	645.8	-238.22	-1506.42	0.05	-8310.55	49.02 -1.185e+05
81	40	1.323e+05	42.48	-0.04	-2905.88	0.0	-225.93	1383.59	0.03	-8492.52	19.89 -7.985e+04
		-1.246e+05	19.89	-2.70e-04	0.0	645.8	-225.93	-1522.29	0.03	-8492.52	42.48 -1.246e+05
81	41	1.331e+05	47.81	-0.05	-2905.88	0.0	-236.14	1396.62	0.04	-8248.33	19.63 -8.325e+04
		-1.196e+05	19.63	-3.02e-04	0.0	645.8	-236.14	-1509.26	0.04	-8248.33	47.81 -1.196e+05
81	42	1.334e+05	49.71	-0.05	-2905.88	0.0	-238.40	1400.64	0.05	-8865.84	19.55 -8.429e+04
		-1.181e+05	19.55	-3.13e-04	0.0	645.8	-238.40	-1505.24	0.05	-8865.84	49.71 -1.181e+05
81	43	1.321e+05	40.58	-0.04	-2905.88	0.0	-223.67	1379.57	0.03	-7875.02	19.97 -7.881e+04
		-1.262e+05	19.97	-2.59e-04	0.0	645.8	-223.67	-1526.31	0.03	-7875.02	40.58 -1.262e+05
81	44	1.331e+05	47.81	-0.05	-2905.88	0.0	-236.14	1396.62	0.04	-8248.33	19.63 -8.325e+04
		-1.196e+05	19.63	-3.02e-04	0.0	645.8	-236.14	-1509.26	0.04	-8248.33	47.81 -1.196e+05
81	45	1.321e+05	40.58	-0.04	-2905.88	0.0	-223.67	1379.57	0.03	-7875.02	19.97 -7.881e+04
		-1.262e+05	19.97	-2.59e-04	0.0	645.8	-223.67	-1526.31	0.03	-7875.02	40.58 -1.262e+05
81	46	1.331e+05	47.81	-0.05	-2905.88	0.0	-236.14	1396.62	0.04	-8248.33	19.63 -8.325e+04
		-1.196e+05	19.63	-3.02e-04	0.0	645.8	-236.14	-1509.26	0.04	-8248.33	47.81 -1.196e+05
82	1	-4.898e+04	54.21	4.02e-03	-1880.78	0.0	-163.08	937.01	0.03	-539.65	45.28 -1.240e+05
		-1.251e+05	45.28	-1.65e-05	0.0	321.5	-163.08	-943.77	0.03	-539.65	54.21 -1.251e+05
82	2	-4.468e+04	62.02	3.66e-03	-1880.78	0.0	-177.11	937.84	0.03	-667.54	51.76 -1.199e+05
		-1.207e+05	51.76	-1.93e-05	0.0	321.5	-177.11	-942.94	0.03	-667.54	62.02 -1.207e+05
82	3	-3.697e+04	74.48	3.02e-03	-1880.78	0.0	-212.95	938.67	0.04	-564.00	62.73 -1.123e+05
		-1.128e+05	62.73	-2.32e-05	0.0	321.5	-212.95	-942.11	0.04	-564.00	74.48 -1.128e+05
82	4	-3.267e+04	82.29	2.67e-03	-1880.78	0.0	-226.98	939.49	0.04	-691.88	69.21 -1.081e+05
		-1.084e+05	69.21	-2.60e-05	0.0	321.5	-226.98	-941.28	0.04	-691.88	82.29 -1.084e+05
82	5	-4.075e+04	36.50	3.35e-03	-1446.75	0.0	-112.66	720.35	0.02	-408.87	30.36 -9.841e+04
		-9.938e+04	30.36	-1.10e-05	0.0	321.5	-112.66	-726.40	0.02	-408.87	36.50 -9.938e+04
82	6	-3.646e+04	44.31	2.99e-03	-1446.75	0.0	-126.69	721.18	0.02	-536.76	36.84 -9.425e+04
		-9.495e+04	36.84	-1.38e-05	0.0	321.5	-126.69	-725.57	0.02	-536.76	44.31 -9.495e+04
82	7	-2.874e+04	56.78	2.35e-03	-1446.75	0.0	-162.53	722.01	0.03	-433.22	47.80 -8.667e+04
		-8.710e+04	47.80	-1.77e-05	0.0	321.5	-162.53	-724.74	0.03	-433.22	56.78 -8.710e+04
82	8	-2.445e+04	64.58	2.00e-03	-1446.75	0.0	-176.56	722.84	0.03	-561.11	54.29 -8.250e+04
		-8.268e+04	54.29	-2.05e-05	0.0	321.5	-176.56	-723.91	0.03	-561.11	64.58 -8.268e+04
82	9	-4.039e+04	69.83	3.30e-03	-1880.78	0.0	-191.15	938.66	0.04	-795.42	58.25 -1.157e+05
		-1.162e+05	58.25	-2.21e-05	0.0	321.5	-191.15	-942.11	0.04	-795.42	69.83 -1.162e+05
82	10	-4.057e+04	68.40	3.32e-03	-1880.78	0.0	-197.99	938.17	0.03	-556.69	57.49 -1.158e+05
		-1.165e+05	57.49	-2.12e-05	0.0	321.5	-197.99	-942.61	0.03	-556.69	68.40 -1.165e+05
82	11	-3.198e+04	84.02	2.61e-03	-1880.78	0.0	-226.06	939.82	0.04	-812.47	70.46 -1.075e+05
		-1.077e+05	70.46	-2.68e-05	0.0	321.5	-226.06	-940.95	0.04	-812.47	84.02 -1.077e+05
82	12	-3.216e+04	52.12	2.62e-03	-1446.75	0.0	-140.73	722.00	0.03	-664.64	43.32 -9.008e+04
		-9.052e+04	43.32	-1.66e-05	0.0	321.5	-140.73	-724.75	0.03	-664.64	52.12 -9.052e+04
82	13	-3.235e+04	50.69	2.65e-03	-1446.75	0.0	-147.57	721.51	0.03	-425.92	42.57 -9.019e+04
		-9.079e+04	42.57	-1.57e-05	0.0	321.5	-147.57	-725.24	0.03	-425.92	50.69 -9.079e+04
82	14	-2.376e+04	66.31	1.93e-03	-1446.75	0.0	-175.64	723.16	0.03	-681.69	55.54 -8.186e+04
		-8.193e+04	55.54	-2.13e-05	0.0	321.5	-175.64	-723.59	0.03	-681.69	66.31 -8.193e+04
82	15	-3.809e+04	41.01	3.13e-03	-1446.75	0.0	-123.74	720.72	0.02	-414.28	34.23 -9.580e+04
		-9.665e+04	34.23	-1.25e-05	0.0	321.5	-123.74	-726.03	0.02	-414.28	41.01 -9.665e+04
82	16	-3.522e+04	46.21	2.89e-03	-1446.75	0.0	-133.10	721.27	0.02	-499.54	38.56 -9.302e+04
		-9.370e+04	38.56	-1.43e-05	0.0	321.5	-133.10	-725.48	0.02	-499.54	46.21 -9.370e+04
82	17	-3.008e+04	54.52	2.46e-03	-1446.75	0.0	-156.99	721.82	0.03	-430.51	45.86 -8.797e+04
		-8.847e+04	45.86	-1.69e-05	0.0	321.5	-156.99	-724.93	0.03	-430.51	54.52 -8.847e+04
82	18	-2.721e+04	59.73	2.22e-03	-1446.75	0.0	-166.34	722.38	0.03	-515.77	50.19 -8.519e+04
		-8.552e+04	50.19	-1.88e-05	0.0	321.5	-166.34	-724.37	0.03	-515.77	59.73 -8.552e+04
82	19	-3.236e+04	51.42	2.64e-03	-1446.75	0.0	-142.45	721.82	0.03	-584.80	42.88 -9.025e+04
		-9.075e+04	42.88	-1.62e-05	0.0	321.5	-142.45	-724.93	0.03	-584.80	51.42 -9.075e+04
82	20	-3.248e+04	50.47	2.66e-03	-1446.75	0.0	-147.01	721.49	0.03	-425.65	42.37 -9.032e+04
		-9.092e+04	42.37	-1.56e-05	0.0	321.5	-147.01	-725.26	0.03	-425.65	50.47 -9.092e+04
82	21	-2.675e+04	60.88	2.18e-03	-1446.75	0.0	-165.73	722.59	0.03	-596.16	51.02 -8.477e+04
		-8.502e+04	51.02	-1.93e-05	0.0	321.5	-165.73	-724.16	0.03	-596.16	60.88 -8.502e+04
82	22	5.706e+05	2976.29	0.09	-1446.75	0.0	-141.34	4990.48	-18.16	-1.468e+04	2976.29 -8.013e+05
		-8.013e+05	-2863.10	-0.02	0.0	321.5	-141.34	3543.73	-18.16	-1.468e+04	-2863.10 5.706e+05
82	23	5.739e+05	2987.78	-0.09	-1446.75	0.0	-92.03	-3554.12	18.24	1.383e+04	-2874.97 5.739e+05
		-8.014e+05	-2874.97	0.02	0.0	321.5	-92.03	-5000.87	18.24	1.383e+04	2987.78 -8.014e+05
82	24	-1.225e+05	-774.23	0.01	-1446.75	0.0	2153.37	724.57	-1.68	754.72	-774.23 -1.808e+05
		-1.808e+05	-1313.78	5.83e-03	0.0	321.5	2153.37	-722.18	-1.68	754.72	-1313.78 -1.804e+05
82	25	4.482e+04	1281.61	-3.86e-03	-1446.75	0.0	-2313.55	718.40	1.64	-473.14	754.44 -1.252e+04
		-1.412e+04	754.44	-5.66e-03	0.0	321.5	-2313.55	-728.35	1.64	-473.14	1281.61 -1.412e+04
82	26	5.840e+05	2937.92	0.09	-1446.75	0.0	-157.33	5050.26	-17.93	-1.566e+04	2937.92 -8.071e+05
		-8.071e+05	-2825.34	-0.02	0.0	321.5	-157.33	3603.51	-17.93	-1.566e+04	-2825.34 5.840e+05
82	27	5.871e+05	2947.70	-0.09	-1446.75	0.0	-111.11	-3614.66	17.99	1.481e+04	-2834.94 5.871e+05
		-8.076e+05	-2834.94	0.02	0.0	321.5	-111.11	-5061.41	17.99	1.481e+04	2947.70 -8.076e+05
82	28	-9.073e+04	-611.03	7.39e-03	-1446.75	0.0	1474.23	716.90	-0.65	-536.27	-611.03 -1.478e+05
		-1.499e+05	-819.69	1.44e-03	0.0	321.5	1474.23	-729.85	-0.65	-536.27	-819.69 -1.499e+05
82	29	2.306e+04	886.66	-1.89e-03	-1446.75	0.0	-1761.58	726.05	0.70	-407.93	662.92 -3.551e+04

		-3.551e+04	662.92	-1.46e-03	0.0	321.5	-1761.58	-720.70	0.70	-407.93	886.66 -3.465e+04
82	30	5.660e+05	2696.02	0.09	-1446.75	0.0	-81.84	5009.25	-16.43	-1.513e+04	2696.02 -8.119e+05
		-8.119e+05	-2586.26	-0.02	0.0	321.5	-81.84	3562.50	-16.43	-1.513e+04	-2586.26 5.660e+05
82	31	5.695e+05	2709.48	-0.09	-1446.75	0.0	-25.16	-3573.69	16.51	1.428e+04	-2598.70 5.695e+05
		-8.120e+05	-2598.70	0.02	0.0	321.5	-25.16	-5020.44	16.51	1.428e+04	2709.48 -8.120e+05
82	32	-1.196e+05	-937.75	9.91e-03	-1446.75	0.0	2545.02	723.08	-1.72	426.16	-937.75 -1.777e+05
		-1.778e+05	-1489.47	5.31e-03	0.0	321.5	2545.02	-723.67	-1.72	426.16	-1489.47 -1.778e+05
82	33	4.314e+04	1531.77	-3.71e-03	-1446.75	0.0	-2782.83	717.40	1.85	-524.63	935.52 -1.404e+04
		-1.596e+04	935.52	-5.63e-03	0.0	321.5	-2782.83	-729.35	1.85	-524.63	1531.77 -1.596e+04
82	34	5.660e+05	2696.02	0.09	-1446.75	0.0	-81.84	5009.25	-16.43	-1.513e+04	2696.02 -8.119e+05
		-8.119e+05	-2586.26	-0.02	0.0	321.5	-81.84	3562.50	-16.43	-1.513e+04	-2586.26 5.660e+05
82	35	5.695e+05	2709.48	-0.09	-1446.75	0.0	-25.16	-3573.69	16.51	1.428e+04	-2598.70 5.695e+05
		-8.120e+05	-2598.70	0.02	0.0	321.5	-25.16	-5020.44	16.51	1.428e+04	2709.48 -8.120e+05
82	36	-9.602e+04	-809.35	7.82e-03	-1446.75	0.0	1988.25	717.56	-0.89	-517.05	-809.35 -1.532e+05
		-1.551e+05	-1096.58	1.78e-03	0.0	321.5	1988.25	-729.19	-0.89	-517.05	-1096.58 -1.551e+05
82	37	2.573e+04	1125.95	-2.11e-03	-1446.75	0.0	-2220.20	724.70	0.89	-489.03	838.78 -3.262e+04
		-3.262e+04	838.78	-1.71e-03	0.0	321.5	-2220.20	-722.05	0.89	-489.03	1125.95 -3.219e+04
82	38	-3.809e+04	41.01	3.13e-03	-1446.75	0.0	-123.74	720.72	0.02	-414.28	34.23 -9.580e+04
		-9.665e+04	34.23	-1.25e-05	0.0	321.5	-123.74	-726.03	0.02	-414.28	41.01 -9.665e+04
82	39	-3.248e+04	50.47	2.66e-03	-1446.75	0.0	-147.01	721.49	0.03	-425.65	42.37 -9.032e+04
		-9.092e+04	42.37	-1.56e-05	0.0	321.5	-147.01	-725.26	0.03	-425.65	50.47 -9.092e+04
82	40	-3.694e+04	43.09	3.03e-03	-1446.75	0.0	-127.48	720.94	0.02	-448.39	35.96 -9.469e+04
		-9.547e+04	35.96	-1.32e-05	0.0	321.5	-127.48	-725.81	0.02	-448.39	43.09 -9.547e+04
82	41	-3.328e+04	49.12	2.73e-03	-1446.75	0.0	-143.69	721.38	0.02	-424.02	41.21 -9.110e+04
		-9.174e+04	41.21	-1.52e-05	0.0	321.5	-143.69	-725.37	0.02	-424.02	49.12 -9.174e+04
82	42	-3.214e+04	51.20	2.63e-03	-1446.75	0.0	-147.43	721.60	0.03	-458.12	42.94 -8.999e+04
		-9.056e+04	42.94	-1.59e-05	0.0	321.5	-147.43	-725.15	0.03	-458.12	51.20 -9.056e+04
82	43	-3.809e+04	41.01	3.13e-03	-1446.75	0.0	-123.74	720.72	0.02	-414.28	34.23 -9.580e+04
		-9.665e+04	34.23	-1.25e-05	0.0	321.5	-123.74	-726.03	0.02	-414.28	41.01 -9.665e+04
82	44	-3.328e+04	49.12	2.73e-03	-1446.75	0.0	-143.69	721.38	0.02	-424.02	41.21 -9.110e+04
		-9.174e+04	41.21	-1.52e-05	0.0	321.5	-143.69	-725.37	0.02	-424.02	49.12 -9.174e+04
82	45	-3.809e+04	41.01	3.13e-03	-1446.75	0.0	-123.74	720.72	0.02	-414.28	34.23 -9.580e+04
		-9.665e+04	34.23	-1.25e-05	0.0	321.5	-123.74	-726.03	0.02	-414.28	41.01 -9.665e+04
82	46	-3.328e+04	49.12	2.73e-03	-1446.75	0.0	-143.69	721.38	0.02	-424.02	41.21 -9.110e+04
		-9.174e+04	41.21	-1.52e-05	0.0	321.5	-143.69	-725.37	0.02	-424.02	49.12 -9.174e+04
83	1	1.747e+05	58.89	0.03	-3809.81	0.0	-297.54	1998.87	-0.05	1.039e+04	58.89 -1.660e+05
		-1.660e+05	24.29	3.57e-04	0.0	651.2	-297.54	-1810.94	-0.05	1.039e+04	24.29 -1.048e+05
83	2	1.758e+05	66.70	0.03	-3809.81	0.0	-306.23	1983.50	-0.07	1.273e+04	66.70 -1.600e+05
		-1.600e+05	23.71	3.98e-04	0.0	651.2	-306.23	-1826.31	-0.07	1.273e+04	23.71 -1.088e+05
83	3	1.775e+05	78.39	0.05	-3809.81	0.0	-329.26	1955.71	-0.09	1.132e+04	78.39 -1.491e+05
		-1.491e+05	23.03	4.64e-04	0.0	651.2	-329.26	-1854.10	-0.09	1.132e+04	23.03 -1.161e+05
83	4	1.786e+05	86.19	0.05	-3809.81	0.0	-337.94	1940.34	-0.10	1.366e+04	86.19 -1.431e+05
		-1.431e+05	22.45	5.05e-04	0.0	651.2	-337.94	-1869.48	-0.10	1.366e+04	22.45 -1.200e+05
83	5	1.337e+05	40.30	-0.02	-2930.62	0.0	-220.75	1548.66	-0.03	7753.52	40.30 -1.320e+05
		-1.320e+05	19.01	2.48e-04	0.0	651.2	-220.75	-1381.96	-0.03	7753.52	19.01 -7.772e+04
83	6	1.347e+05	48.11	0.02	-2930.62	0.0	-229.44	1533.29	-0.05	1.009e+04	48.11 -1.260e+05
		-1.260e+05	18.43	2.89e-04	0.0	651.2	-229.44	-1397.33	-0.05	1.009e+04	18.43 -8.170e+04
83	7	1.365e+05	59.80	0.03	-2930.62	0.0	-252.46	1505.50	-0.06	8685.66	59.80 -1.152e+05
		-1.152e+05	17.75	3.55e-04	0.0	651.2	-252.46	-1425.13	-0.06	8685.66	17.75 -8.898e+04
83	8	1.375e+05	67.60	0.04	-2930.62	0.0	-261.15	1490.13	-0.08	1.103e+04	67.60 -1.091e+05
		-1.091e+05	17.16	3.96e-04	0.0	651.2	-261.15	-1440.50	-0.08	1.103e+04	17.16 -9.296e+04
83	9	1.768e+05	74.50	0.04	-3809.81	0.0	-314.92	1968.13	-0.08	1.507e+04	74.50 -1.539e+05
		-1.539e+05	23.13	4.39e-04	0.0	651.2	-314.92	-1841.68	-0.08	1.507e+04	23.13 -1.127e+05
83	10	1.767e+05	72.54	0.04	-3809.81	0.0	-319.74	1968.66	-0.08	1.104e+04	72.54 -1.542e+05
		-1.542e+05	23.41	4.32e-04	0.0	651.2	-319.74	-1841.16	-0.08	1.104e+04	23.41 -1.127e+05
83	11	1.788e+05	88.15	0.05	-3809.81	0.0	-337.12	1937.92	-0.10	1.572e+04	88.15 -1.421e+05
		-1.421e+05	22.24	5.14e-04	0.0	651.2	-337.12	-1871.90	-0.10	1.572e+04	22.24 -1.206e+05
83	12	1.358e+05	55.91	0.03	-2930.62	0.0	-238.12	1517.92	-0.06	1.243e+04	55.91 -1.199e+05
		-1.199e+05	17.85	3.29e-04	0.0	651.2	-238.12	-1412.70	-0.06	1.243e+04	17.85 -8.567e+04
83	13	1.357e+05	53.95	0.03	-2930.62	0.0	-242.95	1518.45	-0.06	8406.02	53.95 -1.202e+05
		-1.202e+05	18.13	3.22e-04	0.0	651.2	-242.95	-1412.18	-0.06	8406.02	18.13 -8.561e+04
83	14	1.377e+05	69.56	0.04	-2930.62	0.0	-260.32	1487.71	-0.08	1.309e+04	69.56 -1.081e+05
		-1.081e+05	16.96	4.04e-04	0.0	651.2	-260.32	-1442.92	-0.08	1.309e+04	16.96 -9.355e+04
83	15	1.343e+05	44.64	0.02	-2930.62	0.0	-227.79	1539.07	-0.04	7960.66	44.64 -1.283e+05
		-1.283e+05	18.73	2.71e-04	0.0	651.2	-227.79	-1391.56	-0.04	7960.66	18.73 -8.023e+04
83	16	1.350e+05	49.84	0.03	-2930.62	0.0	-233.59	1528.82	-0.05	9520.70	49.84 -1.242e+05
		-1.242e+05	18.34	2.99e-04	0.0	651.2	-233.59	-1401.80	-0.05	9520.70	18.34 -8.287e+04
83	17	1.362e+05	57.63	0.03	-2930.62	0.0	-248.94	1510.29	-0.06	8582.09	57.63 -1.170e+05
		-1.170e+05	17.89	3.43e-04	0.0	651.2	-248.94	-1420.33	-0.06	8582.09	17.89 -8.773e+04
83	18	1.369e+05	62.84	0.04	-2930.62	0.0	-254.73	1500.05	-0.07	1.014e+04	62.84 -1.130e+05
		-1.130e+05	17.50	3.70e-04	0.0	651.2	-254.73	-1430.58	-0.07	1.014e+04	17.50 -9.038e+04
83	19	1.357e+05	55.04	0.03	-2930.62	0.0	-239.38	1518.58	-0.06	1.108e+04	55.04 -1.202e+05
		-1.202e+05	17.95	3.26e-04	0.0	651.2	-239.38	-1412.05	-0.06	1.108e+04	17.95 -8.552e+04
83	20	1.356e+05	53.73	0.03	-2930.62	0.0	-242.59	1518.93	-0.05	8395.66	53.73 -1.204e+05
		-1.204e+05	18.14	3.21e-04	0.0	651.2	-242.59	-1411.70	-0.05	8395.66	18.14 -8.548e+04
83	21	1.370e+05	64.14	0.04	-2930.62	0.0	-254.18	1498.43	-0.07	1.152e+04	64.14 -1.123e+05
		-1.123e+05	17.36	3.76e-04	0.0	651.2	-254.18	-1432.19	-0.07	1.152e+04	17.36 -9.078e+04

83	22	1.288e+06	1231.56	0.23	-2930.62	0.0	-65.91	4896.77	-4.71	-1194.30	1231.56 -9.464e+05
		-9.464e+05	-1838.02	-0.04	0.0	651.2	-65.91	1966.14	-4.71	-1194.30	-1838.02 1.288e+06
83	23	7.017e+05	1787.29	-0.17	-2930.62	0.0	-107.39	-1749.06	4.43	1.784e+04	-1099.41 7.017e+05
		-1.392e+06	-1099.41	0.04	0.0	651.2	-107.39	-4679.69	4.43	1.784e+04	1787.29 -1.392e+06
83	24	1.260e+05	1204.46	-0.11	-2930.62	0.0	891.75	1865.44	4.59	4369.08	-1787.88 -2.605e+05
		-2.605e+05	-1787.88	5.04e-03	0.0	651.2	891.75	-1065.19	4.59	4369.08	1204.46 56.95
83	25	1.658e+05	1715.53	0.15	-2930.62	0.0	-1319.53	1219.99	-4.29	-1817.22	1715.53 873.92
		-1.589e+05	-1076.60	-4.79e-03	0.0	651.2	-1319.53	-1710.63	-4.29	-1817.22	-1076.60 -1.589e+05
83	26	1.006e+06	1240.59	0.21	-2930.62	0.0	-315.47	4294.52	-4.54	-176.18	1240.59 -8.361e+05
		-8.361e+05	-1719.09	-0.04	0.0	651.2	-315.47	1363.89	-4.54	-176.18	-1719.09 1.006e+06
83	27	5.982e+05	1699.82	-0.16	-2930.62	0.0	84.01	-1197.86	4.33	1.689e+04	-1122.48 5.982e+05
		-1.136e+06	-1122.48	0.04	0.0	651.2	84.01	-4128.49	4.33	1.689e+04	1699.82 -1.136e+06
83	28	1.251e+05	959.23	-0.06	-2930.62	0.0	557.39	1741.64	3.50	1.874e+04	-1319.94 -2.111e+05
		-2.111e+05	-1319.94	-1.74e-03	0.0	651.2	557.39	-1188.99	3.50	1.874e+04	959.23 -3.111e+04
83	29	1.559e+05	1385.91	0.11	-2930.62	0.0	-1043.74	1306.08	-3.53	828.71	1385.91 -3.359e+04
		-1.373e+05	-913.28	2.16e-03	0.0	651.2	-1043.74	-1624.55	-3.53	828.71	-913.28 -1.373e+05
83	30	1.390e+06	1076.42	0.23	-2930.62	0.0	368.38	5117.49	-4.21	-1948.03	1076.42 -9.883e+05
		-9.883e+05	-1662.24	-0.04	0.0	651.2	368.38	2186.86	-4.21	-1948.03	-1662.24 1.390e+06
83	31	7.269e+05	1546.56	-0.17	-2930.62	0.0	-389.62	-1845.13	3.80	1.834e+04	-926.48 7.269e+05
		-1.429e+06	-926.48	0.04	0.0	651.2	-389.62	-4775.75	3.80	1.834e+04	1546.56 -1.429e+06
83	32	1.254e+05	1614.90	-0.10	-2930.62	0.0	1082.30	1852.16	5.95	1.142e+04	-2258.33 -2.557e+05
		-2.557e+05	-2258.33	2.68e-03	0.0	651.2	1082.30	-1078.46	5.95	1.142e+04	1614.90 -3763.93
83	33	1.652e+05	2265.27	0.14	-2930.62	0.0	-1543.80	1228.26	-5.84	-1005.99	2265.27 -2081.56
		-1.565e+05	-1535.31	-3.10e-03	0.0	651.2	-1543.80	-1702.37	-5.84	-1005.99	-1535.31 -1.565e+05
83	34	1.390e+06	1076.42	0.23	-2930.62	0.0	368.38	5117.49	-4.21	-1948.03	1076.42 -9.883e+05
		-9.883e+05	-1662.24	-0.04	0.0	651.2	368.38	2186.86	-4.21	-1948.03	-1662.24 1.390e+06
83	35	7.269e+05	1546.56	-0.17	-2930.62	0.0	-389.62	-1845.13	3.80	1.834e+04	-926.48 7.269e+05
		-1.429e+06	-926.48	0.04	0.0	651.2	-389.62	-4775.75	3.80	1.834e+04	1546.56 -1.429e+06
83	36	1.248e+05	1387.24	-0.07	-2930.62	0.0	807.18	1760.55	4.99	1.923e+04	-1859.71 -2.191e+05
		-2.191e+05	-1859.71	-2.76e-03	0.0	651.2	807.18	-1170.07	4.99	1.923e+04	1387.24 -2.679e+04
83	37	1.573e+05	1870.49	0.12	-2930.62	0.0	-1266.85	1297.30	-4.88	1735.43	1870.49 -2.968e+04
		-1.391e+05	-1306.11	3.15e-03	0.0	651.2	-1266.85	-1633.32	-4.88	1735.43	-1306.11 -1.391e+05
83	38	1.343e+05	44.64	0.02	-2930.62	0.0	-227.79	1539.07	-0.04	7960.66	44.64 -1.283e+05
		-1.283e+05	18.73	2.71e-04	0.0	651.2	-227.79	-1391.56	-0.04	7960.66	18.73 -8.023e+04
83	39	1.356e+05	53.73	0.03	-2930.62	0.0	-242.59	1518.93	-0.05	8395.66	53.73 -1.204e+05
		-1.204e+05	18.14	3.21e-04	0.0	651.2	-242.59	-1411.70	-0.05	8395.66	18.14 -8.548e+04
83	40	1.346e+05	46.72	0.02	-2930.62	0.0	-230.11	1534.97	-0.04	8584.68	46.72 -1.267e+05
		-1.267e+05	18.58	2.82e-04	0.0	651.2	-230.11	-1395.65	-0.04	8584.68	18.58 -8.129e+04
83	41	1.354e+05	52.43	0.03	-2930.62	0.0	-240.48	1521.80	-0.05	8333.52	52.43 -1.215e+05
		-1.215e+05	18.22	3.14e-04	0.0	651.2	-240.48	-1408.82	-0.05	8333.52	18.22 -8.473e+04
83	42	1.357e+05	54.51	0.03	-2930.62	0.0	-242.80	1517.71	-0.06	8957.53	54.51 -1.199e+05
		-1.199e+05	18.07	3.25e-04	0.0	651.2	-242.80	-1412.92	-0.06	8957.53	18.07 -8.579e+04
83	43	1.343e+05	44.64	0.02	-2930.62	0.0	-227.79	1539.07	-0.04	7960.66	44.64 -1.283e+05
		-1.283e+05	18.73	2.71e-04	0.0	651.2	-227.79	-1391.56	-0.04	7960.66	18.73 -8.023e+04
83	44	1.354e+05	52.43	0.03	-2930.62	0.0	-240.48	1521.80	-0.05	8333.52	52.43 -1.215e+05
		-1.215e+05	18.22	3.14e-04	0.0	651.2	-240.48	-1408.82	-0.05	8333.52	18.22 -8.473e+04
83	45	1.343e+05	44.64	0.02	-2930.62	0.0	-227.79	1539.07	-0.04	7960.66	44.64 -1.283e+05
		-1.283e+05	18.73	2.71e-04	0.0	651.2	-227.79	-1391.56	-0.04	7960.66	18.73 -8.023e+04
83	46	1.354e+05	52.43	0.03	-2930.62	0.0	-240.48	1521.80	-0.05	8333.52	52.43 -1.215e+05
		-1.215e+05	18.22	3.14e-04	0.0	651.2	-240.48	-1408.82	-0.05	8333.52	18.22 -8.473e+04
84	1	1.753e+05	-30.55	-0.06	-3777.64	0.0	-266.82	1824.50	-0.02	1.666e+04	-30.55 -1.088e+05
		-1.504e+05	-45.48	3.14e-04	0.0	645.8	-266.82	-1953.14	-0.02	1.666e+04	-45.48 -1.504e+05
84	2	1.765e+05	-27.43	-0.07	-3777.64	0.0	-273.52	1841.96	-0.04	2.084e+04	-27.43 -1.133e+05
		-1.436e+05	-55.31	3.59e-04	0.0	645.8	-273.52	-1935.68	-0.04	2.084e+04	-55.31 -1.436e+05
84	3	1.786e+05	-38.02	-0.08	-3777.64	0.0	-291.19	1873.99	-0.02	1.661e+04	-38.02 -1.216e+05
		-1.312e+05	-53.22	3.85e-04	0.0	645.8	-291.19	-1903.64	-0.02	1.661e+04	-53.22 -1.312e+05
84	4	1.797e+05	-34.90	-0.08	-3777.64	0.0	-297.89	1891.46	-0.04	2.078e+04	-34.90 -1.260e+05
		-1.260e+05	-63.04	4.31e-04	0.0	645.8	-297.89	-1886.18	-0.04	2.078e+04	-63.04 -1.243e+05
84	5	1.340e+05	-21.58	-0.04	-2905.88	0.0	-199.00	1390.77	-0.02	1.283e+04	-21.58 -8.046e+04
		-1.206e+05	-33.00	2.23e-04	0.0	645.8	-199.00	-1515.11	-0.02	1.283e+04	-33.00 -1.206e+05
84	6	1.352e+05	-18.46	-0.05	-2905.88	0.0	-205.69	1408.23	-0.04	1.701e+04	-18.46 -8.492e+04
		-1.138e+05	-42.83	2.69e-04	0.0	645.8	-205.69	-1497.64	-0.04	1.701e+04	-42.83 -1.138e+05
84	7	1.373e+05	-29.06	-0.06	-2905.88	0.0	-223.37	1440.26	-0.02	1.278e+04	-29.06 -9.320e+04
		-1.014e+05	-40.74	2.94e-04	0.0	645.8	-223.37	-1465.61	-0.02	1.278e+04	-40.74 -1.014e+05
84	8	1.384e+05	-25.93	-0.06	-2905.88	0.0	-230.06	1457.73	-0.04	1.695e+04	-25.93 -9.766e+04
		-9.766e+04	-50.56	3.40e-04	0.0	645.8	-230.06	-1448.15	-0.04	1.695e+04	-50.56 -9.457e+04
84	9	1.777e+05	-24.30	-0.07	-3777.64	0.0	-280.22	1859.42	-0.06	2.502e+04	-24.30 -1.178e+05
		-1.368e+05	-65.13	4.05e-04	0.0	645.8	-280.22	-1918.21	-0.06	2.502e+04	-65.13 -1.368e+05
84	10	1.776e+05	-35.78	-0.07	-3777.64	0.0	-283.88	1859.14	-0.02	1.662e+04	-35.78 -1.178e+05
		-1.369e+05	-50.89	3.64e-04	0.0	645.8	-283.88	-1918.49	-0.02	1.662e+04	-50.89 -1.369e+05
84	11	1.799e+05	-29.53	-0.08	-3777.64	0.0	-297.27	1894.07	-0.06	2.498e+04	-29.53 -1.267e+05
		-1.267e+05	-70.55	4.55e-04	0.0	645.8	-297.27	-1883.56	-0.06	2.498e+04	-70.55 -1.233e+05
84	12	1.364e+05	-15.34	-0.05	-2905.88	0.0	-212.39	1425.69	-0.06	2.118e+04	-15.34 -8.939e+04
		-1.070e+05	-52.66	3.14e-04	0.0	645.8	-212.39	-1480.18	-0.06	2.118e+04	-52.66 -1.070e+05
84	13	1.363e+05	-26.81	-0.05	-2905.88	0.0	-216.05	1425.42	-0.02	1.279e+04	-26.81 -8.937e+04
		-1.071e+05	-38.42	2.73e-04	0.0	645.8	-216.05	-1480.46	-0.02	1.279e+04	-38.42 -1.071e+05
84	14	1.386e+05	-20.57	-0.06	-2905.88	0.0	-229.45	1460.34	-0.06	2.114e+04	-20.57 -9.830e+04

Node	Idx											
		-9.830e+04	-58.07	3.64e-04	0.0	645.8	-229.45	-1445.53	-0.06	2.114e+04	-58.07	-9.352e+04
84	15	1.347e+05	-23.24	-0.05	-2905.88	0.0	-204.41	1401.77	-0.02	1.282e+04	-23.24	-8.329e+04
		-1.163e+05	-34.72	2.39e-04	0.0	645.8	-204.41	-1504.11	-0.02	1.282e+04	-34.72	-1.163e+05
84	16	1.355e+05	-21.16	-0.05	-2905.88	0.0	-208.88	1413.41	-0.03	1.560e+04	-21.16	-8.626e+04
		-1.118e+05	-41.27	2.69e-04	0.0	645.8	-208.88	-1492.47	-0.03	1.560e+04	-41.27	-1.118e+05
84	17	1.369e+05	-28.23	-0.06	-2905.88	0.0	-220.66	1434.77	-0.02	1.278e+04	-28.23	-9.178e+04
		-1.035e+05	-39.88	2.86e-04	0.0	645.8	-220.66	-1471.11	-0.02	1.278e+04	-39.88	-1.035e+05
84	18	1.377e+05	-26.14	-0.06	-2905.88	0.0	-225.12	1446.41	-0.03	1.557e+04	-26.14	-9.476e+04
		-9.897e+04	-46.43	3.17e-04	0.0	645.8	-225.12	-1459.47	-0.03	1.557e+04	-46.43	-9.897e+04
84	19	1.363e+05	-19.08	-0.05	-2905.88	0.0	-213.34	1425.05	-0.04	1.839e+04	-19.08	-8.924e+04
		-1.072e+05	-47.82	3.00e-04	0.0	645.8	-213.34	-1480.82	-0.04	1.839e+04	-47.82	-1.072e+05
84	20	1.363e+05	-26.73	-0.05	-2905.88	0.0	-215.78	1424.87	-0.02	1.279e+04	-26.73	-8.923e+04
		-1.074e+05	-38.33	2.72e-04	0.0	645.8	-215.78	-1481.01	-0.02	1.279e+04	-38.33	-1.074e+05
84	21	1.378e+05	-22.57	-0.06	-2905.88	0.0	-224.72	1448.15	-0.04	1.836e+04	-22.57	-9.519e+04
		-9.828e+04	-51.43	3.33e-04	0.0	645.8	-224.72	-1457.72	-0.04	1.836e+04	-51.43	-9.828e+04
84	22	6.897e+05	1466.37	0.15	-2905.88	0.0	-92.36	4609.78	5.91	1.928e+04	-2351.63	-1.349e+06
		-1.349e+06	-2351.63	-0.04	0.0	645.8	-92.36	1703.90	5.91	1.928e+04	1466.37	6.897e+05
84	23	1.258e+06	2368.54	-0.23	-2905.88	0.0	29.10	-1909.16	-6.06	5953.96	2368.54	1.258e+06
		-9.132e+05	-1544.14	0.04	0.0	645.8	29.10	-4815.04	-6.06	5953.96	-1544.14	-9.132e+05
84	24	1.664e+05	1409.89	-0.16	-2905.88	0.0	-1274.34	1702.99	-5.17	8545.04	1409.89	-1.553e+05
		-1.553e+05	-1930.68	0.02	0.0	645.8	-1274.34	-1202.88	-5.17	8545.04	-1930.68	6179.95
84	25	1.229e+05	1871.34	0.08	-2905.88	0.0	767.10	1122.70	5.12	2863.04	-1432.89	-1.703e+04
		-2.303e+05	-1432.89	-0.02	0.0	645.8	767.10	-1783.17	5.12	2863.04	1871.34	-2.303e+05
84	26	6.031e+05	1443.48	0.14	-2905.88	0.0	44.56	4128.42	5.71	1.858e+04	-2240.91	-1.125e+06
		-1.125e+06	-2240.91	-0.03	0.0	645.8	44.56	1222.54	5.71	1.858e+04	1443.48	6.031e+05
84	27	9.873e+05	2229.98	-0.22	-2905.88	0.0	-215.27	-1337.35	-5.81	6762.38	2229.98	9.873e+05
		-8.145e+05	-1518.88	0.04	0.0	645.8	-215.27	-4243.22	-5.81	6762.38	-1518.88	-8.145e+05
84	28	1.570e+05	910.23	-0.13	-2905.88	0.0	-967.57	1630.96	-3.48	4789.75	910.23	-1.386e+05
		-1.386e+05	-1337.83	7.64e-03	0.0	645.8	-967.57	-1274.92	-3.48	4789.75	-1337.83	-2.365e+04
84	29	1.246e+05	1299.84	0.05	-2905.88	0.0	528.73	1208.27	3.52	2.388e+04	-974.20	-3.718e+04
		-1.952e+05	-974.20	-7.31e-03	0.0	645.8	528.73	-1697.60	3.52	2.388e+04	1299.84	-1.952e+05
84	30	7.116e+05	1571.35	0.14	-2905.88	0.0	-373.44	4690.87	6.25	1.871e+04	-2461.81	-1.379e+06
		-1.379e+06	-2461.81	-0.04	0.0	645.8	-373.44	1784.99	6.25	1.871e+04	1571.35	7.116e+05
84	31	1.345e+06	2519.38	-0.24	-2905.87	0.0	438.13	-2098.10	-6.47	6240.84	2519.38	1.345e+06
		-9.486e+05	-1659.83	0.04	0.0	645.8	438.13	-5003.97	-6.47	6240.84	-1659.83	-9.486e+05
84	32	1.655e+05	1764.54	-0.15	-2905.88	0.0	-1440.93	1692.81	-6.39	8478.62	1764.54	-1.525e+05
		-1.525e+05	-2358.98	0.02	0.0	645.8	-1440.93	-1213.07	-6.39	8478.62	-2358.98	2384.81
84	33	1.224e+05	2427.39	0.08	-2905.88	0.0	1000.52	1127.00	6.71	1480.62	-1907.74	-1.861e+04
		-2.291e+05	-1907.74	-0.02	0.0	645.8	1000.52	-1778.88	6.71	1480.62	2427.39	-2.291e+05
84	34	7.116e+05	1571.35	0.14	-2905.88	0.0	-373.44	4690.87	6.25	1.871e+04	-2461.81	-1.379e+06
		-1.379e+06	-2461.81	-0.04	0.0	645.8	-373.44	1784.99	6.25	1.871e+04	1571.35	7.116e+05
84	35	1.345e+06	2519.38	-0.24	-2905.87	0.0	438.13	-2098.10	-6.47	6240.84	2519.38	1.345e+06
		-9.486e+05	-1659.83	0.04	0.0	645.8	438.13	-5003.97	-6.47	6240.84	-1659.83	-9.486e+05
84	36	1.595e+05	1349.07	-0.13	-2905.88	0.0	-1206.27	1648.39	-4.99	4577.18	1349.07	-1.424e+05
		-1.424e+05	-1872.53	9.93e-03	0.0	645.8	-1206.27	-1257.49	-4.99	4577.18	-1872.53	-1.616e+04
84	37	1.237e+05	1780.93	0.05	-2905.88	0.0	734.16	1195.72	4.88	2.418e+04	-1368.93	-3.456e+04
		-2.007e+05	-1368.93	-9.25e-03	0.0	645.8	734.16	-1710.16	4.88	2.418e+04	1780.93	-2.007e+05
84	38	1.347e+05	-23.24	-0.05	-2905.88	0.0	-204.41	1401.77	-0.02	1.282e+04	-23.24	-8.329e+04
		-1.163e+05	-34.72	2.39e-04	0.0	645.8	-204.41	-1504.11	-0.02	1.282e+04	-34.72	-1.163e+05
84	39	1.363e+05	-26.73	-0.05	-2905.88	0.0	-215.78	1424.87	-0.02	1.279e+04	-26.73	-8.923e+04
		-1.074e+05	-38.33	2.72e-04	0.0	645.8	-215.78	-1481.01	-0.02	1.279e+04	-38.33	-1.074e+05
84	40	1.351e+05	-22.41	-0.05	-2905.88	0.0	-206.20	1406.42	-0.02	1.393e+04	-22.41	-8.448e+04
		-1.145e+05	-37.34	2.51e-04	0.0	645.8	-206.20	-1499.45	-0.02	1.393e+04	-37.34	-1.145e+05
84	41	1.360e+05	-26.23	-0.05	-2905.88	0.0	-214.16	1421.57	-0.02	1.280e+04	-26.23	-8.838e+04
		-1.086e+05	-37.81	2.67e-04	0.0	645.8	-214.16	-1484.31	-0.02	1.280e+04	-37.81	-1.086e+05
84	42	1.364e+05	-25.40	-0.05	-2905.88	0.0	-215.95	1426.22	-0.02	1.391e+04	-25.40	-8.957e+04
		-1.068e+05	-40.43	2.80e-04	0.0	645.8	-215.95	-1479.65	-0.02	1.391e+04	-40.43	-1.068e+05
84	43	1.347e+05	-23.24	-0.05	-2905.88	0.0	-204.41	1401.77	-0.02	1.282e+04	-23.24	-8.329e+04
		-1.163e+05	-34.72	2.39e-04	0.0	645.8	-204.41	-1504.11	-0.02	1.282e+04	-34.72	-1.163e+05
84	44	1.360e+05	-26.23	-0.05	-2905.88	0.0	-214.16	1421.57	-0.02	1.280e+04	-26.23	-8.838e+04
		-1.086e+05	-37.81	2.67e-04	0.0	645.8	-214.16	-1484.31	-0.02	1.280e+04	-37.81	-1.086e+05
84	45	1.347e+05	-23.24	-0.05	-2905.88	0.0	-204.41	1401.77	-0.02	1.282e+04	-23.24	-8.329e+04
		-1.163e+05	-34.72	2.39e-04	0.0	645.8	-204.41	-1504.11	-0.02	1.282e+04	-34.72	-1.163e+05
84	46	1.360e+05	-26.23	-0.05	-2905.88	0.0	-214.16	1421.57	-0.02	1.280e+04	-26.23	-8.838e+04
		-1.086e+05	-37.81	2.67e-04	0.0	645.8	-214.16	-1484.31	-0.02	1.280e+04	-37.81	-1.086e+05
85	1	-4.107e+04	-34.23	3.33e-03	-1880.78	0.0	-132.91	939.67	-0.04	955.18	-34.23	-1.165e+05
		-1.168e+05	-48.10	1.81e-05	0.0	321.5	-132.91	-941.10	-0.04	955.18	-48.10	-1.168e+05
85	2	-3.603e+04	-40.55	2.91e-03	-1880.78	0.0	-144.56	940.82	-0.05	1195.28	-40.55	-1.117e+05
		-1.117e+05	-56.54	2.06e-05	0.0	321.5	-144.56	-939.96	-0.05	1195.28	-56.54	-1.115e+05
85	3	-2.702e+04	-45.74	2.18e-03	-1880.78	0.0	-169.24	942.03	-0.05	933.10	-45.74	-1.029e+05
		-1.029e+05	-62.62	2.28e-05	0.0	321.5	-169.24	-938.74	-0.05	933.10	-62.62	-1.023e+05
85	4	-2.198e+04	-52.07	1.76e-03	-1880.78	0.0	-180.89	943.18	-0.06	1173.19	-52.07	-9.802e+04
		-9.802e+04	-71.06	2.54e-05	0.0	321.5	-180.89	-937.59	-0.06	1173.19	-71.06	-9.712e+04
85	5	-3.519e+04	-23.38	2.86e-03	-1446.75	0.0	-92.92	722.22	-0.03	740.42	-23.38	-9.315e+04
		-9.352e+04	-33.27	1.27e-05	0.0	321.5	-92.92	-724.53	-0.03	740.42	-33.27	-9.352e+04
85	6	-3.016e+04	-29.70	2.44e-03	-1446.75	0.0	-104.57	723.37	-0.04	980.51	-29.70	-8.830e+04
		-8.830e+04	-41.71	1.52e-05	0.0	321.5	-104.57	-723.38	-0.04	980.51	-41.71	-8.830e+04

85	7	-2.114e+04	-34.89	1.70e-03	-1446.75	0.0	-129.25	724.58	-0.04	718.33	-34.89	-7.948e+04
		-7.948e+04	-47.80	1.74e-05	0.0	321.5	-129.25	-722.17	-0.04	718.33	-47.80	-7.909e+04
85	8	-1.611e+04	-41.21	1.29e-03	-1446.75	0.0	-140.90	725.73	-0.05	958.42	-41.21	-7.463e+04
		-7.463e+04	-56.24	2.00e-05	0.0	321.5	-140.90	-721.02	-0.05	958.42	-56.24	-7.387e+04
85	9	-3.100e+04	-46.87	2.49e-03	-1880.78	0.0	-156.20	941.97	-0.06	1435.37	-46.87	-1.068e+05
		-1.068e+05	-64.97	2.31e-05	0.0	321.5	-156.20	-938.81	-0.06	1435.37	-64.97	-1.063e+05
85	10	-3.124e+04	-42.29	2.52e-03	-1880.78	0.0	-158.34	941.32	-0.05	939.72	-42.29	-1.070e+05
		-1.070e+05	-58.27	2.14e-05	0.0	321.5	-158.34	-939.45	-0.05	939.72	-58.27	-1.067e+05
85	11	-2.116e+04	-54.93	1.70e-03	-1880.78	0.0	-181.64	943.62	-0.06	1419.91	-54.93	-9.726e+04
		-9.726e+04	-75.14	2.65e-05	0.0	321.5	-181.64	-937.15	-0.06	1419.91	-75.14	-9.622e+04
85	12	-2.512e+04	-36.02	2.02e-03	-1446.75	0.0	-116.22	724.51	-0.04	1220.60	-36.02	-8.344e+04
		-8.344e+04	-50.15	1.77e-05	0.0	321.5	-116.22	-722.24	-0.04	1220.60	-50.15	-8.308e+04
85	13	-2.536e+04	-31.44	2.05e-03	-1446.75	0.0	-118.35	723.87	-0.04	724.96	-31.44	-8.358e+04
		-8.358e+04	-43.44	1.60e-05	0.0	321.5	-118.35	-722.88	-0.04	724.96	-43.44	-8.342e+04
85	14	-1.529e+04	-44.08	1.22e-03	-1446.75	0.0	-141.65	726.17	-0.05	1205.14	-44.08	-7.388e+04
		-7.388e+04	-60.32	2.11e-05	0.0	321.5	-141.65	-720.58	-0.05	1205.14	-60.32	-7.298e+04
85	15	-3.207e+04	-25.93	2.60e-03	-1446.75	0.0	-101.00	722.74	-0.03	735.51	-25.93	-9.011e+04
		-9.032e+04	-36.50	1.38e-05	0.0	321.5	-101.00	-724.01	-0.03	735.51	-36.50	-9.032e+04
85	16	-2.871e+04	-30.15	2.32e-03	-1446.75	0.0	-108.76	723.51	-0.04	895.57	-30.15	-8.688e+04
		-8.688e+04	-42.13	1.54e-05	0.0	321.5	-108.76	-723.24	-0.04	895.57	-42.13	-8.683e+04
85	17	-2.271e+04	-33.61	1.83e-03	-1446.75	0.0	-125.22	724.32	-0.04	720.79	-33.61	-8.100e+04
		-8.100e+04	-46.19	1.69e-05	0.0	321.5	-125.22	-722.43	-0.04	720.79	-46.19	-8.070e+04
85	18	-1.935e+04	-37.83	1.55e-03	-1446.75	0.0	-132.98	725.08	-0.04	880.85	-37.83	-7.776e+04
		-7.776e+04	-51.81	1.86e-05	0.0	321.5	-132.98	-721.67	-0.04	880.85	-51.81	-7.721e+04
85	19	-2.536e+04	-34.37	2.04e-03	-1446.75	0.0	-116.52	724.27	-0.04	1055.63	-34.37	-8.364e+04
		-8.364e+04	-47.75	1.71e-05	0.0	321.5	-116.52	-722.48	-0.04	1055.63	-47.75	-8.335e+04
85	20	-2.552e+04	-31.31	2.06e-03	-1446.75	0.0	-117.95	723.85	-0.04	725.21	-31.31	-8.373e+04
		-8.373e+04	-43.28	1.60e-05	0.0	321.5	-117.95	-722.90	-0.04	725.21	-43.28	-8.358e+04
85	21	-1.880e+04	-39.74	1.50e-03	-1446.75	0.0	-133.48	725.38	-0.05	1045.33	-39.74	-7.726e+04
		-7.726e+04	-54.53	1.93e-05	0.0	321.5	-133.48	-721.37	-0.05	1045.33	-54.53	-7.662e+04
85	22	5.370e+05	3256.88	0.09	-1446.75	0.0	-59.03	4740.01	20.48	1.088e+04	-3327.74	-7.543e+05
		-7.543e+05	-3327.74	-0.02	0.0	321.5	-59.03	3293.26	20.48	1.088e+04	3256.88	5.370e+05
85	23	5.398e+05	3268.01	-0.09	-1446.75	0.0	-10.92	-3300.31	-20.56	-9445.13	3268.01	5.398e+05
		-7.538e+05	-3340.43	0.02	0.0	321.5	-10.92	-4747.06	-20.56	-9445.13	-3340.43	-7.538e+05
85	24	5.066e+04	-789.32	-4.43e-03	-1446.75	0.0	-2278.57	721.22	-1.73	1294.28	-789.32	-7132.50
		-7825.14	-1344.08	5.83e-03	0.0	321.5	-2278.57	-725.53	-1.73	1294.28	-1344.08	-7825.14
85	25	-1.080e+05	1289.72	8.97e-03	-1446.75	0.0	1937.69	726.81	1.63	-716.97	766.95	-1.667e+05
		-1.667e+05	766.95	-5.65e-03	0.0	321.5	1937.69	-719.94	1.63	-716.97	1289.72	-1.656e+05
85	26	5.596e+05	3152.81	0.09	-1446.75	0.0	-93.44	4840.40	19.85	1.175e+04	-3228.88	-7.640e+05
		-7.640e+05	-3228.88	-0.02	0.0	321.5	-93.44	3393.65	19.85	1.175e+04	3152.81	5.596e+05
85	27	5.619e+05	3164.95	-0.09	-1446.75	0.0	-50.22	-3400.59	-19.93	-1.031e+04	3164.95	5.619e+05
		-7.640e+05	-3243.16	0.02	0.0	321.5	-50.22	-4847.34	-19.93	-1.031e+04	-3243.16	-7.640e+05
85	28	3.035e+04	-673.89	-2.55e-03	-1446.75	0.0	-1662.64	728.33	-0.69	680.32	-673.89	-2.859e+04
		-2.859e+04	-895.02	1.45e-03	0.0	321.5	-1662.64	-718.42	-0.69	680.32	-895.02	-2.699e+04
85	29	-8.431e+04	841.91	6.84e-03	-1446.75	0.0	1425.02	719.18	0.63	886.73	640.03	-1.418e+05
		-1.431e+05	640.03	-1.45e-03	0.0	321.5	1425.02	-727.57	0.63	886.73	841.91	-1.431e+05
85	30	5.312e+05	3286.99	0.09	-1446.75	0.0	0.56	4742.94	20.66	1.038e+04	-3354.02	-7.611e+05
		-7.611e+05	-3354.02	-0.02	0.0	321.5	0.56	3296.19	20.66	1.038e+04	3286.99	5.312e+05
85	31	5.342e+05	3295.56	-0.09	-1446.75	0.0	52.63	-3304.51	-20.72	-8949.86	3295.56	5.342e+05
		-7.608e+05	-3367.10	0.02	0.0	321.5	52.63	-4751.26	-20.72	-8949.86	-3367.10	-7.608e+05
85	32	4.831e+04	-972.11	-4.22e-03	-1446.75	0.0	-2640.64	721.97	-1.72	1277.09	-972.11	-9602.61
		-1.006e+04	-1524.92	5.31e-03	0.0	321.5	-2640.64	-724.78	-1.72	1277.09	-1524.92	-1.006e+04
85	33	-1.077e+05	1555.71	8.95e-03	-1446.75	0.0	2422.24	727.33	1.84	-836.30	962.90	-1.665e+05
		-1.665e+05	962.90	-5.63e-03	0.0	321.5	2422.24	-719.42	1.84	-836.30	1555.71	-1.652e+05
85	34	5.312e+05	3286.99	0.09	-1446.75	0.0	0.56	4742.94	20.66	1.038e+04	-3354.02	-7.611e+05
		-7.611e+05	-3354.02	-0.02	0.0	321.5	0.56	3296.19	20.66	1.038e+04	3286.99	5.312e+05
85	35	5.342e+05	3295.56	-0.09	-1446.75	0.0	52.63	-3304.51	-20.72	-8949.86	3295.56	5.342e+05
		-7.608e+05	-3367.10	0.02	0.0	321.5	52.63	-4751.26	-20.72	-8949.86	-3367.10	-7.608e+05
85	36	3.564e+04	-878.54	-2.98e-03	-1446.75	0.0	-2159.87	727.58	-0.92	705.18	-878.54	-2.318e+04
		-2.318e+04	-1175.92	1.79e-03	0.0	321.5	-2159.87	-719.17	-0.92	705.18	-1175.92	-2.182e+04
85	37	-8.826e+04	1091.29	7.16e-03	-1446.75	0.0	1859.74	719.57	0.84	859.46	821.63	-1.458e+05
		-1.470e+05	821.63	-1.70e-03	0.0	321.5	1859.74	-727.18	0.84	859.46	1091.29	-1.470e+05
85	38	-3.207e+04	-25.93	2.60e-03	-1446.75	0.0	-101.00	722.74	-0.03	735.51	-25.93	-9.011e+04
		-9.032e+04	-36.50	1.38e-05	0.0	321.5	-101.00	-724.01	-0.03	735.51	-36.50	-9.032e+04
85	39	-2.552e+04	-31.31	2.06e-03	-1446.75	0.0	-117.95	723.85	-0.04	725.21	-31.31	-8.373e+04
		-8.373e+04	-43.28	1.60e-05	0.0	321.5	-117.95	-722.90	-0.04	725.21	-43.28	-8.358e+04
85	40	-3.073e+04	-27.62	2.49e-03	-1446.75	0.0	-104.10	723.05	-0.03	799.54	-27.62	-8.882e+04
		-8.892e+04	-38.75	1.44e-05	0.0	321.5	-104.10	-723.70	-0.03	799.54	-38.75	-8.892e+04
85	41	-2.645e+04	-30.54	2.14e-03	-1446.75	0.0	-115.53	723.69	-0.04	726.68	-30.54	-8.464e+04
		-8.464e+04	-42.31	1.57e-05	0.0	321.5	-115.53	-723.06	-0.04	726.68	-42.31	-8.454e+04
85	42	-2.511e+04	-32.23	2.03e-03	-1446.75	0.0	-118.63	723.99	-0.04	790.70	-32.23	-8.335e+04
		-8.335e+04	-44.56	1.63e-05	0.0	321.5	-118.63	-722.76	-0.04	790.70	-44.56	-8.315e+04
85	43	-3.207e+04	-25.93	2.60e-03	-1446.75	0.0	-101.00	722.74	-0.03	735.51	-25.93	-9.011e+04
		-9.032e+04	-36.50	1.38e-05	0.0	321.5	-101.00	-724.01	-0.03	735.51	-36.50	-9.032e+04
85	44	-2.645e+04	-30.54	2.14e-03	-1446.75	0.0	-115.53	723.69	-0.04	726.68	-30.54	-8.464e+04
		-8.464e+04	-42.31	1.57e-05	0.0	321.5	-115.53	-723.06	-0.04	726.68	-42.31	-8.454e+04
85	45	-3.207e+04	-25.93	2.60e-03	-1446.75	0.0	-101.00	722.74	-0.03	735.51	-25.93	-9.011e+04

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        -9.032e+04      -36.50   1.38e-05        0.0    321.5   -101.00    -724.01   -0.03     735.51      -36.50 -9.032e+04
85   46 -2.645e+04      -30.54   2.14e-03   -1446.75      0.0   -115.53     723.69   -0.04     726.68      -30.54 -8.464e+04
        -8.464e+04      -42.31   1.57e-05        0.0    321.5   -115.53    -723.06   -0.04     726.68      -42.31 -8.454e+04
86    1 1.785e+05       -28.65      0.04   -3809.81      0.0   -272.46    1969.10    0.04 -1.687e+04      -52.72 -1.525e+05
        -1.525e+05      -52.72  -3.11e-04        0.0    651.2   -272.46   -1840.72    0.04 -1.687e+04      -28.65 -1.107e+05
86    2 1.798e+05       -25.19      0.05   -3809.81      0.0   -279.42    1951.23    0.06 -2.109e+04      -63.50 -1.454e+05
        -1.454e+05      -63.50  -3.59e-04        0.0    651.2   -279.42   -1858.58    0.06 -2.109e+04      -25.19 -1.153e+05
86    3 1.819e+05       -35.40      0.06   -3809.81      0.0   -297.45    1918.90    0.04 -1.681e+04      -62.42 -1.328e+05
        -1.328e+05      -62.42  -3.84e-04        0.0    651.2   -297.45   -1890.92    0.04 -1.681e+04      -35.40 -1.236e+05
86    4 1.832e+05       -31.94      0.07   -3809.81      0.0   -304.41    1901.03    0.06 -2.103e+04      -73.20 -1.257e+05
        -1.282e+05      -73.20  -4.33e-04        0.0    651.2   -304.41   -1908.78    0.06 -2.103e+04      -31.94 -1.282e+05
86    5 1.364e+05       -20.30      0.03   -2930.62      0.0   -203.18    1527.56    0.03 -1.299e+04      -38.07 -1.224e+05
        -1.224e+05      -38.07  -2.20e-04        0.0    651.2   -203.18   -1403.06    0.03 -1.299e+04      -20.30 -8.186e+04
86    6 1.377e+05       -16.84      0.03   -2930.62      0.0   -210.14    1509.70    0.05 -1.722e+04      -48.85 -1.153e+05
        -1.153e+05      -48.85  -2.68e-04        0.0    651.2   -210.14   -1420.93    0.05 -1.722e+04      -16.84 -8.640e+04
86    7 1.399e+05       -27.06      0.05   -2930.62      0.0   -228.17    1477.36    0.03 -1.293e+04      -47.77 -1.026e+05
        -1.026e+05      -47.77  -2.94e-04        0.0    651.2   -228.17   -1453.26    0.03 -1.293e+04      -27.06 -9.478e+04
86    8 1.411e+05       -23.60      0.05   -2930.62      0.0   -235.13    1459.50    0.05 -1.715e+04      -58.55 -9.554e+04
        -9.933e+04      -58.55  -3.42e-04        0.0    651.2   -235.13   -1471.13    0.05 -1.715e+04      -23.60 -9.933e+04
86    9 1.811e+05       -21.73      0.06   -3809.81      0.0   -286.39    1933.37    0.08 -2.532e+04      -74.29 -1.384e+05
        -1.384e+05      -74.29  -4.07e-04        0.0    651.2   -286.39   -1876.44    0.08 -2.532e+04      -21.73 -1.198e+05
86   10 1.809e+05       -33.37      0.06   -3809.81      0.0   -289.95    1933.96    0.04 -1.683e+04      -59.51 -1.387e+05
        -1.387e+05      -59.51  -3.62e-04        0.0    651.2   -289.95   -1875.86    0.04 -1.683e+04      -33.37 -1.198e+05
86   11 1.835e+05       -26.46      0.07   -3809.81      0.0   -303.87    1898.23    0.08 -2.527e+04      -81.08 -1.245e+05
        -1.289e+05      -81.08  -4.58e-04        0.0    651.2   -303.87   -1911.58    0.08 -2.527e+04      -26.46 -1.289e+05
86   12 1.390e+05       -13.39      0.04   -2930.62      0.0   -217.10    1491.83    0.07 -2.144e+04      -59.63 -1.082e+05
        -1.082e+05      -59.63  -3.16e-04        0.0    651.2   -217.10   -1438.79    0.07 -2.144e+04      -13.39 -9.095e+04
86   13 1.388e+05       -25.03      0.04   -2930.62      0.0   -220.67    1492.42    0.03 -1.295e+04      -44.86 -1.086e+05
        -1.086e+05      -44.86  -2.72e-04        0.0    651.2   -220.67   -1438.20    0.03 -1.295e+04      -25.03 -9.090e+04
86   14 1.414e+05       -18.12      0.06   -2930.62      0.0   -234.59    1456.70    0.07 -2.140e+04      -66.42 -9.438e+04
        -1.000e+05      -66.42  -3.68e-04        0.0    651.2   -234.59   -1473.93    0.07 -2.140e+04      -18.12 -1.000e+05
86   15 1.372e+05       -21.80      0.03   -2930.62      0.0   -208.73    1516.41    0.03 -1.298e+04      -40.23 -1.180e+05
        -1.180e+05      -40.23  -2.36e-04        0.0    651.2   -208.73   -1414.22    0.03 -1.298e+04      -21.80 -8.473e+04
86   16 1.381e+05       -19.50      0.04   -2930.62      0.0   -213.37    1504.50    0.04 -1.579e+04      -47.41 -1.133e+05
        -1.133e+05      -47.41  -2.69e-04        0.0    651.2   -213.37   -1426.13    0.04 -1.579e+04      -19.50 -8.776e+04
86   17 1.395e+05       -26.31      0.04   -2930.62      0.0   -225.39    1482.94    0.03 -1.294e+04      -46.69 -1.048e+05
        -1.048e+05      -46.69  -2.86e-04        0.0    651.2   -225.39   -1447.69    0.03 -1.294e+04      -26.31 -9.334e+04
86   18 1.403e+05       -24.00      0.05   -2930.62      0.0   -230.03    1471.03    0.05 -1.575e+04      -53.88 -1.001e+05
        -1.001e+05      -53.88  -3.18e-04        0.0    651.2   -230.03   -1459.59    0.05 -1.575e+04      -24.00 -9.637e+04
86   19 1.389e+05       -17.19      0.04   -2930.62      0.0   -218.01    1492.59    0.06 -1.861e+04      -54.60 -1.086e+05
        -1.086e+05      -54.60  -3.01e-04        0.0    651.2   -218.01   -1438.04    0.06 -1.861e+04      -17.19 -9.079e+04
86   20 1.388e+05       -24.96      0.04   -2930.62      0.0   -220.39    1492.98    0.03 -1.295e+04      -44.75 -1.088e+05
        -1.088e+05      -44.75  -2.71e-04        0.0    651.2   -220.39   -1437.65    0.03 -1.295e+04      -24.96 -9.076e+04
86   21 1.405e+05       -20.35      0.05   -2930.62      0.0   -229.67    1469.16    0.06 -1.858e+04      -59.13 -9.933e+04
        -9.933e+04      -59.13  -3.35e-04        0.0    651.2   -229.67   -1461.46    0.06 -1.858e+04      -20.35 -9.682e+04
86   22 1.257e+06      2355.92      0.22   -2930.62      0.0      9.32    4804.21    5.99  -6293.92    -1546.88 -9.174e+05
        -9.174e+05   -1546.88     -0.04        0.0    651.2      9.32    1873.58    5.99  -6293.92     2355.92 1.257e+06
86   23 6.906e+05      1455.56     -0.14   -2930.62      0.0    -74.00   -1666.72   -5.82 -1.926e+04     1455.56 6.906e+05
        -1.349e+06   -2332.74      0.04        0.0    651.2    -74.00   -4597.35   -5.82 -1.926e+04    -2332.74 -1.349e+06
86   24 1.694e+05       981.72      0.16   -2930.62      0.0  -1293.84    1202.91    4.08  -8403.73    -1673.09    9335.84
        -1.616e+05   -1673.09   5.00e-03        0.0    651.2  -1293.84   -1727.71    4.08  -8403.73      981.72 -1.616e+05
86   25 1.264e+05      1615.41     -0.08   -2930.62      0.0    776.10    1806.11   -4.04  -4332.81     1615.41 -2.360e+05
        -2.360e+05   -1016.28  -5.00e-03        0.0    651.2    776.10   -1124.51   -4.04  -4332.81    -1016.28 -1.403e+04
86   26 9.867e+05      2216.09      0.21   -2930.62      0.0   -233.56    4237.09    5.74  -7071.80    -1519.84 -8.184e+05
        -8.184e+05   -1519.84     -0.04        0.0    651.2   -233.56    1306.47    5.74  -7071.80     2216.09 9.867e+05
86   27 6.037e+05      1433.28     -0.13   -2930.62      0.0     61.72   -1188.95   -5.61 -1.857e+04     1433.28 6.037e+05
        -1.125e+06   -2223.43      0.03        0.0    651.2     61.72   -4119.57   -5.61 -1.857e+04    -2223.43 -1.125e+06
86   28 1.601e+05       808.10      0.13   -2930.62      0.0   -983.03    1282.24    3.25  -4809.73    -1305.45 -2.260e+04
        -1.418e+05   -1305.45  -2.10e-03        0.0    651.2   -983.03   -1648.39    3.25  -4809.73      808.10 -1.418e+05
86   29 1.269e+05      1255.87     -0.06   -2930.62      0.0    534.95    1714.26   -3.26 -2.413e+04     1255.87 -1.991e+05
        -1.991e+05    -868.08   1.73e-03        0.0    651.2    534.95   -1216.37   -3.26 -2.413e+04     -868.08 -3.699e+04
86   30 1.345e+06      2507.96      0.23   -2930.62      0.0    418.41    4993.69    6.40  -6581.97    -1662.82 -9.531e+05
        -9.531e+05   -1662.82     -0.04        0.0    651.2    418.41    2063.07    6.40  -6581.97     2507.96 1.345e+06
86   31 7.123e+05      1558.87     -0.14   -2930.62      0.0   -353.60   -1746.59   -6.14 -1.870e+04     1558.87 7.123e+05
        -1.379e+06   -2441.52      0.04        0.0    651.2   -353.60   -4677.21   -6.14 -1.870e+04    -2441.52 -1.379e+06
86   32 1.685e+05      1381.55      0.15   -2930.62      0.0  -1462.74    1214.04    5.41  -8409.97    -2142.80    5256.90
        -1.584e+05   -2142.80   2.59e-03        0.0    651.2  -1462.74   -1716.58    5.41  -8409.97     1381.55 -1.584e+05
86   33 1.260e+05      2170.94     -0.08   -2930.62      0.0   1013.46    1803.28   -5.60  -3123.04     2170.94 -2.352e+05
        -2.352e+05   -1476.12  -3.25e-03        0.0    651.2   1013.46   -1127.35   -5.60  -3123.04    -1476.12 -1.510e+04
86   34 1.345e+06      2507.96      0.23   -2930.62      0.0    418.41    4993.69    6.40  -6581.97    -1662.82 -9.531e+05
        -9.531e+05   -1662.82     -0.04        0.0    651.2    418.41    2063.07    6.40  -6581.97     2507.96 1.345e+06
86   35 7.123e+05      1558.87     -0.14   -2930.62      0.0   -353.60   -1746.59   -6.14 -1.870e+04     1558.87 7.123e+05
        -1.379e+06   -2441.52      0.04        0.0    651.2   -353.60   -4677.21   -6.14 -1.870e+04    -2441.52 -1.379e+06
86   36 1.627e+05      1213.93      0.13   -2930.62      0.0  -1225.00    1263.48    4.67  -4511.88    -1826.26 -1.468e+04
        -1.461e+05   -1826.26  -3.10e-03        0.0    651.2  -1225.00   -1667.15    4.67  -4511.88     1213.93 -1.461e+05
86   37 1.261e+05      1728.48     -0.06   -2930.62      0.0    743.56    1728.02   -4.55 -2.448e+04     1728.48 -2.050e+05
        -2.050e+05   -1237.57   2.73e-03        0.0    651.2    743.56   -1202.61   -4.55 -2.448e+04    -1237.57 -3.391e+04
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86	38	1.372e+05	-21.80	0.03	-2930.62	0.0	-208.73	1516.41	0.03	-1.298e+04	-40.23	-1.180e+05
		-1.180e+05	-40.23	-2.36e-04	0.0	651.2	-208.73	-1414.22	0.03	-1.298e+04	-21.80	-8.473e+04
86	39	1.388e+05	-24.96	0.04	-2930.62	0.0	-220.39	1492.98	0.03	-1.295e+04	-44.75	-1.088e+05
		-1.088e+05	-44.75	-2.71e-04	0.0	651.2	-220.39	-1437.65	0.03	-1.295e+04	-24.96	-9.076e+04
86	40	1.375e+05	-20.88	0.03	-2930.62	0.0	-210.59	1511.64	0.03	-1.411e+04	-43.10	-1.161e+05
		-1.161e+05	-43.10	-2.49e-04	0.0	651.2	-210.59	-1418.98	0.03	-1.411e+04	-20.88	-8.594e+04
86	41	1.386e+05	-24.51	0.04	-2930.62	0.0	-218.73	1496.33	0.03	-1.296e+04	-44.10	-1.101e+05
		-1.101e+05	-44.10	-2.66e-04	0.0	651.2	-218.73	-1434.30	0.03	-1.296e+04	-24.51	-8.990e+04
86	42	1.389e+05	-23.58	0.04	-2930.62	0.0	-220.58	1491.56	0.04	-1.408e+04	-46.98	-1.082e+05
		-1.082e+05	-46.98	-2.79e-04	0.0	651.2	-220.58	-1439.06	0.04	-1.408e+04	-23.58	-9.111e+04
86	43	1.372e+05	-21.80	0.03	-2930.62	0.0	-208.73	1516.41	0.03	-1.298e+04	-40.23	-1.180e+05
		-1.180e+05	-40.23	-2.36e-04	0.0	651.2	-208.73	-1414.22	0.03	-1.298e+04	-21.80	-8.473e+04
86	44	1.386e+05	-24.51	0.04	-2930.62	0.0	-218.73	1496.33	0.03	-1.296e+04	-44.10	-1.101e+05
		-1.101e+05	-44.10	-2.66e-04	0.0	651.2	-218.73	-1434.30	0.03	-1.296e+04	-24.51	-8.990e+04
86	45	1.372e+05	-21.80	0.03	-2930.62	0.0	-208.73	1516.41	0.03	-1.298e+04	-40.23	-1.180e+05
		-1.180e+05	-40.23	-2.36e-04	0.0	651.2	-208.73	-1414.22	0.03	-1.298e+04	-21.80	-8.473e+04
86	46	1.386e+05	-24.51	0.04	-2930.62	0.0	-218.73	1496.33	0.03	-1.296e+04	-44.10	-1.101e+05
		-1.101e+05	-44.10	-2.66e-04	0.0	651.2	-218.73	-1434.30	0.03	-1.296e+04	-24.51	-8.990e+04
87	1	2.596e+05	20.41	-0.04	-1.294e+04	0.0	-404.98	5987.48	0.06	8081.57	2.06	-1.928e+05
		-3.503e+05	2.06	-5.04e-05	0.0	327.5	-404.98	-6949.62	0.06	8081.57	20.41	-3.503e+05
87	2	3.160e+05	24.13	-0.05	-1.555e+04	0.0	-466.63	7206.95	0.07	7934.68	0.82	-2.291e+05
		-4.158e+05	0.82	-5.95e-05	0.0	327.5	-466.63	-8347.20	0.07	7934.68	24.13	-4.158e+05
87	3	2.522e+05	28.84	-0.05	-1.294e+04	0.0	-511.03	6157.53	0.09	7713.00	0.74	-2.265e+05
		-3.284e+05	0.74	-7.21e-05	0.0	327.5	-511.03	-6779.57	0.09	7713.00	28.84	-3.284e+05
87	4	3.084e+05	32.56	-0.06	-1.555e+04	0.0	-572.69	7376.99	0.10	7566.11	-0.50	-2.628e+05
		-3.938e+05	-0.50	-8.12e-05	0.0	327.5	-572.69	-8177.16	0.10	7566.11	32.56	-3.938e+05
87	5	2.021e+05	13.54	-0.03	-9951.62	0.0	-284.33	4562.15	0.04	6311.09	1.93	-1.396e+05
		-2.751e+05	1.93	-3.32e-05	0.0	327.5	-284.33	-5389.46	0.04	6311.09	13.54	-2.751e+05
87	6	2.585e+05	17.26	-0.04	-1.257e+04	0.0	-345.98	5781.62	0.05	6164.21	0.69	-1.759e+05
		-3.406e+05	0.69	-4.23e-05	0.0	327.5	-345.98	-6787.05	0.05	6164.21	17.26	-3.406e+05
87	7	1.941e+05	21.97	-0.04	-9951.62	0.0	-390.38	4732.20	0.07	5942.53	0.60	-1.734e+05
		-2.532e+05	0.60	-5.49e-05	0.0	327.5	-390.38	-5219.42	0.07	5942.53	21.97	-2.532e+05
87	8	2.504e+05	25.69	-0.05	-1.257e+04	0.0	-452.04	5951.66	0.08	5795.64	-0.64	-2.097e+05
		-3.186e+05	-0.64	-6.41e-05	0.0	327.5	-452.04	-6617.00	0.08	5795.64	25.69	-3.186e+05
87	9	3.724e+05	27.85	-0.06	-1.817e+04	0.0	-528.28	8426.41	0.09	7787.79	-0.42	-2.654e+05
		-4.813e+05	-0.42	-6.86e-05	0.0	327.5	-528.28	-9744.79	0.09	7787.79	27.85	-4.813e+05
87	10	2.539e+05	26.31	-0.05	-1.294e+04	0.0	-479.22	6106.51	0.08	7823.57	1.14	-2.164e+05
		-3.350e+05	1.14	-6.56e-05	0.0	327.5	-479.22	-6830.59	0.08	7823.57	26.31	-3.350e+05
87	11	3.664e+05	33.75	-0.07	-1.817e+04	0.0	-602.52	8545.44	0.11	7529.79	-1.34	-2.890e+05
		-4.659e+05	-1.34	-8.39e-05	0.0	327.5	-602.52	-9625.76	0.11	7529.79	33.75	-4.659e+05
87	12	3.149e+05	20.97	-0.05	-1.519e+04	0.0	-407.63	7001.08	0.07	6017.32	-0.55	-2.123e+05
		-4.061e+05	-0.55	-5.14e-05	0.0	327.5	-407.63	-8184.63	0.07	6017.32	20.97	-4.061e+05
87	13	1.959e+05	19.44	-0.04	-9951.62	0.0	-358.57	4681.19	0.06	6053.10	1.00	-1.632e+05
		-2.597e+05	1.00	-4.84e-05	0.0	327.5	-358.57	-5270.43	0.06	6053.10	19.44	-2.597e+05
87	14	3.084e+05	26.88	-0.06	-1.519e+04	0.0	-481.87	7120.11	0.09	5759.32	-1.48	-2.359e+05
		-3.907e+05	-1.48	-6.67e-05	0.0	327.5	-481.87	-8065.60	0.09	5759.32	26.88	-3.907e+05
87	15	2.000e+05	15.41	-0.03	-9951.62	0.0	-307.89	4599.94	0.04	6229.19	1.63	-1.471e+05
		-2.702e+05	1.63	-3.80e-05	0.0	327.5	-307.89	-5351.67	0.04	6229.19	15.41	-2.702e+05
87	16	2.376e+05	17.89	-0.04	-1.170e+04	0.0	-349.00	5412.92	0.05	6131.27	0.81	-1.713e+05
		-3.139e+05	0.81	-4.41e-05	0.0	327.5	-349.00	-6283.40	0.05	6131.27	17.89	-3.139e+05
87	17	1.948e+05	21.03	-0.04	-9951.62	0.0	-378.60	4713.31	0.06	5983.48	0.75	-1.696e+05
		-2.556e+05	0.75	-5.25e-05	0.0	327.5	-378.60	-5238.31	0.06	5983.48	21.03	-2.556e+05
87	18	2.323e+05	23.51	-0.05	-1.170e+04	0.0	-419.70	5526.28	0.07	5885.55	-0.08	-1.938e+05
		-2.992e+05	-0.08	-5.86e-05	0.0	327.5	-419.70	-6170.03	0.07	5885.55	23.51	-2.992e+05
87	19	2.752e+05	20.37	-0.05	-1.344e+04	0.0	-390.10	6225.89	0.06	6033.34	-0.02	-1.955e+05
		-3.575e+05	-0.02	-5.02e-05	0.0	327.5	-390.10	-7215.12	0.06	6033.34	20.37	-3.575e+05
87	20	1.960e+05	19.35	-0.04	-9951.62	0.0	-357.39	4679.30	0.06	6057.19	1.02	-1.629e+05
		-2.600e+05	1.02	-4.81e-05	0.0	327.5	-357.39	-5272.32	0.06	6057.19	19.35	-2.600e+05
87	21	2.710e+05	24.30	-0.05	-1.344e+04	0.0	-439.59	6305.25	0.08	5861.34	-0.64	-2.113e+05
		-3.473e+05	-0.64	-6.03e-05	0.0	327.5	-439.59	-7135.77	0.08	5861.34	24.30	-3.473e+05
87	22	1.971e+05	3926.22	-0.02	-9951.62	0.0	-360.57	4464.73	29.38	-3.445e+05	-5697.29	-1.307e+05
		-2.981e+05	-5697.29	-0.02	0.0	327.5	-360.57	-5486.89	29.38	-3.445e+05	3926.22	-2.981e+05
87	23	1.995e+05	5706.23	-0.05	-9951.62	0.0	-342.42	4869.68	-29.28	3.572e+05	5706.23	-1.905e+05
		-2.253e+05	-3882.99	0.02	0.0	327.5	-342.42	-5081.94	-29.28	3.572e+05	-3882.99	-2.253e+05
87	24	4.287e+05	-112.69	0.30	-9951.62	0.0	122.25	9958.90	1.87	1.414e+04	-724.99	-1.203e+06
		-1.203e+06	-724.99	6.32e-03	0.0	327.5	122.25	7.29	1.87	1.414e+04	-112.69	4.287e+05
87	25	1.126e+06	681.51	-0.37	-9951.62	0.0	-231.01	-1391.83	-1.70	-952.39	681.51	1.126e+06
		-9.592e+05	125.97	-6.16e-03	0.0	327.5	-231.01	-1.134e+04	-1.70	-952.39	125.97	-9.592e+05
87	26	1.976e+05	3905.62	-0.02	-9951.62	0.0	-344.01	4441.18	29.13	-2.477e+05	-5633.86	-1.268e+05
		-3.019e+05	-5633.86	-0.02	0.0	327.5	-344.01	-5510.44	29.13	-2.477e+05	3905.62	-3.019e+05
87	27	1.996e+05	5629.77	-0.05	-9951.62	0.0	-363.45	4895.08	-28.96	2.610e+05	5629.77	-1.946e+05
		-2.211e+05	-3855.37	0.02	0.0	327.5	-363.45	-5056.54	-28.96	2.610e+05	-3855.37	-2.211e+05
87	28	1.825e+05	28.31	0.20	-9951.62	0.0	-152.12	7266.36	1.89	1.126e+04	-589.05	-6.856e+05
		-6.856e+05	-589.05	1.73e-03	0.0	327.5	-152.12	-2685.25	1.89	1.126e+04	28.31	6.453e+04
87	29	4.734e+05	583.20	-0.27	-9951.62	0.0	-277.81	1937.51	-1.78	1020.18	583.20	4.117e+05
		-5.833e+05	1.12	-1.80e-03	0.0	327.5	-277.81	-8014.11	-1.78	1020.18	1.12	-5.833e+05
87	30	1.966e+05	4007.56	-0.02	-9951.62	0.0	-339.26	4472.65	29.84	-3.804e+05	-5764.51	-1.323e+05

		-2.971e+05	-5764.51	-0.03	0.0	327.5	-339.26	-5478.97	29.84	-3.804e+05	4007.56	-2.971e+05
87	31	1.998e+05	5795.31	-0.05	-9951.62	0.0	-358.31	4854.62	-29.84	3.944e+05	5795.31	-1.878e+05
		-2.275e+05	-3978.56	0.03	0.0	327.5	-358.31	-5096.99	-29.84	3.944e+05	-3978.56	-2.275e+05
87	32	4.248e+05	-79.24	0.29	-9951.62	0.0	-26.67	9946.39	2.46	1.385e+04	-884.49	-1.203e+06
		-1.203e+06	-884.49	5.86e-03	0.0	327.5	-26.67	-5.23	2.46	1.385e+04	-79.24	4.248e+05
87	33	1.014e+06	850.22	-0.36	-9951.62	0.0	-239.33	-1000.26	-2.21	-758.57	850.22	1.014e+06
		-9.436e+05	124.91	-6.21e-03	0.0	327.5	-239.33	-1.095e+04	-2.21	-758.57	124.91	-9.436e+05
87	34	1.966e+05	4007.56	-0.02	-9951.62	0.0	-339.26	4472.65	29.84	-3.804e+05	-5764.51	-1.323e+05
		-2.971e+05	-5764.51	-0.03	0.0	327.5	-339.26	-5478.97	29.84	-3.804e+05	4007.56	-2.971e+05
87	35	1.998e+05	5795.31	-0.05	-9951.62	0.0	-358.31	4854.62	-29.84	3.944e+05	5795.31	-1.878e+05
		-2.275e+05	-3978.56	0.03	0.0	327.5	-358.31	-5096.99	-29.84	3.944e+05	-3978.56	-2.275e+05
87	36	2.553e+05	22.41	0.22	-9951.62	0.0	-160.14	8386.29	2.41	1.171e+04	-767.81	-9.004e+05
		-9.004e+05	-767.81	2.17e-03	0.0	327.5	-160.14	-1565.33	2.41	1.171e+04	22.41	2.165e+05
87	37	6.387e+05	742.06	-0.29	-9951.62	0.0	-199.81	822.81	-2.25	808.44	742.06	6.283e+05
		-7.319e+05	3.64	-2.14e-03	0.0	327.5	-199.81	-9128.81	-2.25	808.44	3.64	-7.319e+05
87	38	2.000e+05	15.41	-0.03	-9951.62	0.0	-307.89	4599.94	0.04	6229.19	1.63	-1.471e+05
		-2.702e+05	1.63	-3.80e-05	0.0	327.5	-307.89	-5351.67	0.04	6229.19	15.41	-2.702e+05
87	39	1.960e+05	19.35	-0.04	-9951.62	0.0	-357.39	4679.30	0.06	6057.19	1.02	-1.629e+05
		-2.600e+05	1.02	-4.81e-05	0.0	327.5	-357.39	-5272.32	0.06	6057.19	19.35	-2.600e+05
87	40	2.151e+05	16.40	-0.04	-1.065e+04	0.0	-324.33	4925.13	0.05	6190.02	1.30	-1.568e+05
		-2.877e+05	1.30	-4.04e-05	0.0	327.5	-324.33	-5724.36	0.05	6190.02	16.40	-2.877e+05
87	41	1.964e+05	18.78	-0.04	-9951.62	0.0	-350.32	4667.96	0.05	6081.76	1.10	-1.606e+05
		-2.614e+05	1.10	-4.67e-05	0.0	327.5	-350.32	-5283.66	0.05	6081.76	18.78	-2.614e+05
87	42	2.114e+05	19.78	-0.04	-1.065e+04	0.0	-366.76	4993.15	0.06	6042.59	0.77	-1.703e+05
		-2.789e+05	0.77	-4.91e-05	0.0	327.5	-366.76	-5656.35	0.06	6042.59	19.78	-2.789e+05
87	43	2.000e+05	15.41	-0.03	-9951.62	0.0	-307.89	4599.94	0.04	6229.19	1.63	-1.471e+05
		-2.702e+05	1.63	-3.80e-05	0.0	327.5	-307.89	-5351.67	0.04	6229.19	15.41	-2.702e+05
87	44	1.964e+05	18.78	-0.04	-9951.62	0.0	-350.32	4667.96	0.05	6081.76	1.10	-1.606e+05
		-2.614e+05	1.10	-4.67e-05	0.0	327.5	-350.32	-5283.66	0.05	6081.76	18.78	-2.614e+05
87	45	2.000e+05	15.41	-0.03	-9951.62	0.0	-307.89	4599.94	0.04	6229.19	1.63	-1.471e+05
		-2.702e+05	1.63	-3.80e-05	0.0	327.5	-307.89	-5351.67	0.04	6229.19	15.41	-2.702e+05
87	46	1.964e+05	18.78	-0.04	-9951.62	0.0	-350.32	4667.96	0.05	6081.76	1.10	-1.606e+05
		-2.614e+05	1.10	-4.67e-05	0.0	327.5	-350.32	-5283.66	0.05	6081.76	18.78	-2.614e+05
88	1	1.097e+05	16.45	-0.02	-1.286e+04	0.0	-421.84	6008.85	0.01	571.18	12.52	-3.454e+05
		-4.822e+05	12.52	-1.01e-05	0.0	325.5	-421.84	-6849.25	0.01	571.18	16.45	-4.822e+05
88	2	1.322e+05	19.80	-0.03	-1.546e+04	0.0	-492.57	7202.36	0.02	588.86	14.32	-4.119e+05
		-5.835e+05	14.32	-1.26e-05	0.0	325.5	-492.57	-8256.80	0.02	588.86	19.80	-5.835e+05
88	3	1.273e+05	24.07	-0.03	-1.286e+04	0.0	-554.15	6077.31	0.02	620.61	18.01	-3.386e+05
		-4.531e+05	18.01	-1.53e-05	0.0	325.5	-554.15	-6780.79	0.02	620.61	24.07	-4.531e+05
88	4	1.492e+05	27.43	-0.03	-1.546e+04	0.0	-624.88	7270.82	0.02	638.29	19.81	-4.051e+05
		-5.545e+05	19.81	-1.78e-05	0.0	325.5	-624.88	-8188.34	0.02	638.29	27.43	-5.545e+05
88	5	8.016e+04	10.70	-0.02	-9890.84	0.0	-290.57	4604.64	7.60e-03	426.70	8.22	-2.675e+05
		-3.784e+05	8.22	-6.39e-06	0.0	325.5	-290.57	-5286.21	7.60e-03	426.70	10.70	-3.784e+05
88	6	1.026e+05	14.05	-0.02	-1.249e+04	0.0	-361.29	5798.15	0.01	444.38	10.02	-3.339e+05
		-4.797e+05	10.02	-8.96e-06	0.0	325.5	-361.29	-6693.76	0.01	444.38	14.05	-4.797e+05
88	7	9.745e+04	18.32	-0.02	-9890.84	0.0	-422.88	4673.10	0.01	476.13	13.71	-2.607e+05
		-3.493e+05	13.71	-1.16e-05	0.0	325.5	-422.88	-5217.75	0.01	476.13	18.32	-3.493e+05
88	8	1.194e+05	21.67	-0.03	-1.249e+04	0.0	-493.60	5866.61	0.02	493.81	15.51	-3.272e+05
		-4.506e+05	15.51	-1.42e-05	0.0	325.5	-493.60	-6625.30	0.02	493.81	21.67	-4.506e+05
88	9	1.546e+05	23.15	-0.03	-1.806e+04	0.0	-563.29	8395.88	0.02	606.54	16.12	-4.784e+05
		-6.848e+05	16.12	-1.52e-05	0.0	325.5	-563.29	-9664.35	0.02	606.54	23.15	-6.848e+05
88	10	1.219e+05	21.79	-0.03	-1.286e+04	0.0	-514.46	6056.77	0.02	605.78	16.36	-3.407e+05
		-4.619e+05	16.36	-1.37e-05	0.0	325.5	-514.46	-6801.33	0.02	605.78	21.79	-4.619e+05
88	11	1.662e+05	28.49	-0.04	-1.806e+04	0.0	-655.91	8443.80	0.03	641.14	19.96	-4.737e+05
		-6.645e+05	19.96	-1.89e-05	0.0	325.5	-655.91	-9616.42	0.03	641.14	28.49	-6.645e+05
88	12	1.251e+05	17.40	-0.02	-1.509e+04	0.0	-432.02	6991.67	0.02	462.06	11.82	-4.004e+05
		-5.810e+05	11.82	-1.16e-05	0.0	325.5	-432.02	-8101.30	0.02	462.06	17.40	-5.810e+05
88	13	9.207e+04	16.03	-0.02	-9890.84	0.0	-383.18	4652.56	0.01	461.30	12.07	-2.627e+05
		-3.580e+05	12.07	-1.00e-05	0.0	325.5	-383.18	-5238.29	0.01	461.30	16.03	-3.580e+05
88	14	1.366e+05	22.74	-0.03	-1.509e+04	0.0	-524.63	7039.59	0.02	496.66	15.67	-3.957e+05
		-5.607e+05	15.67	-1.52e-05	0.0	325.5	-524.63	-8053.38	0.02	496.66	22.74	-5.607e+05
88	15	8.384e+04	12.39	-0.02	-9890.84	0.0	-319.97	4619.85	9.06e-03	437.68	9.44	-2.659e+05
		-3.719e+05	9.44	-7.55e-06	0.0	325.5	-319.97	-5270.99	9.06e-03	437.68	12.39	-3.719e+05
88	16	9.881e+04	14.63	-0.02	-1.162e+04	0.0	-367.12	5415.53	0.01	449.47	10.64	-3.103e+05
		-4.395e+05	10.64	-9.26e-06	0.0	325.5	-367.12	-6209.36	0.01	449.47	14.63	-4.395e+05
88	17	9.545e+04	17.48	-0.02	-9890.84	0.0	-408.18	4665.49	0.01	470.63	13.10	-2.614e+05
		-3.525e+05	13.10	-1.10e-05	0.0	325.5	-408.18	-5225.35	0.01	470.63	17.48	-3.525e+05
88	18	1.101e+05	19.71	-0.03	-1.162e+04	0.0	-455.33	5461.17	0.02	482.42	14.30	-3.057e+05
		-4.201e+05	14.30	-1.27e-05	0.0	325.5	-455.33	-6163.72	0.02	482.42	19.71	-4.201e+05
88	19	1.138e+05	16.86	-0.02	-1.336e+04	0.0	-414.27	6211.21	0.02	461.25	11.84	-3.546e+05
		-5.070e+05	11.84	-1.10e-05	0.0	325.5	-414.27	-7147.73	0.02	461.25	16.86	-5.070e+05
88	20	9.187e+04	15.95	-0.02	-9890.84	0.0	-381.71	4651.80	0.01	460.75	12.01	-2.628e+05
		-3.584e+05	12.01	-9.99e-06	0.0	325.5	-381.71	-5239.05	0.01	460.75	15.95	-3.584e+05
88	21	1.215e+05	20.42	-0.03	-1.336e+04	0.0	-476.01	6243.15	0.02	484.32	14.40	-3.514e+05
		-4.934e+05	14.40	-1.34e-05	0.0	325.5	-476.01	-7115.78	0.02	484.32	20.42	-4.934e+05
88	22	7.411e+04	3252.96	-0.02	-9890.84	0.0	-399.65	4647.80	5.27	-1.323e+04	1537.23	-2.799e+05
		-3.768e+05	1537.23	-0.02	0.0	325.5	-399.65	-5243.05	5.27	-1.323e+04	3252.96	-3.768e+05

88	23	1.067e+05	-1511.78	-0.02	-9890.84	0.0	-326.07	4648.57	-5.25	1.403e+04	-1511.78	-2.474e+05
		-3.440e+05	-3221.35	0.02	0.0	325.5	-326.07	-5242.27	-5.25	1.403e+04	-3221.35	-3.440e+05
88	24	4.482e+05	408.38	0.16	-9890.84	0.0	-385.84	1.000e+04	-2.67	3234.46	408.38	-1.198e+06
		-1.198e+06	-459.80	6.00e-03	0.0	325.5	-385.84	110.62	-2.67	3234.46	-459.80	4.482e+05
88	25	6.670e+05	453.24	-0.20	-9890.84	0.0	232.58	-792.68	2.58	-2153.06	-385.23	6.670e+05
		-1.201e+06	-385.23	-5.82e-03	0.0	325.5	232.58	-1.068e+04	2.58	-2153.06	453.24	-1.201e+06
88	26	7.240e+04	3174.89	-0.02	-9890.84	0.0	-354.47	4648.42	4.85	-7949.21	1595.93	-2.817e+05
		-3.784e+05	1595.93	-0.02	0.0	325.5	-354.47	-5242.42	4.85	-7949.21	3174.89	-3.784e+05
88	27	1.086e+05	-1561.11	-0.02	-9890.84	0.0	-386.84	4648.12	-4.85	9106.24	-1561.11	-2.454e+05
		-3.422e+05	-3139.86	0.02	0.0	325.5	-386.84	-5242.73	-4.85	9106.24	-3139.86	-3.422e+05
88	28	1.633e+05	168.20	0.12	-9890.84	0.0	-459.17	7542.39	-1.07	2136.98	168.20	-7.725e+05
		-7.725e+05	-178.99	1.53e-03	0.0	325.5	-459.17	-2348.46	-1.07	2136.98	-178.99	7.284e+04
88	29	3.153e+05	204.04	-0.16	-9890.84	0.0	63.40	1628.79	1.10	-1220.92	-154.09	2.724e+05
		-8.071e+05	-154.09	-1.56e-03	0.0	325.5	63.40	-8262.05	1.10	-1220.92	204.04	-8.071e+05
88	30	7.385e+04	3543.76	-0.02	-9890.84	0.0	-379.15	4653.67	7.52	-1.552e+04	1096.54	-2.811e+05
		-3.761e+05	1096.54	-0.02	0.0	325.5	-379.15	-5237.18	7.52	-1.552e+04	3543.76	-3.761e+05
88	31	1.063e+05	-1081.57	-0.02	-9890.84	0.0	-321.01	4642.53	-7.49	1.683e+04	-1081.57	-2.468e+05
		-3.454e+05	-3518.19	0.02	0.0	325.5	-321.01	-5248.31	-7.49	1.683e+04	-3518.19	-3.454e+05
88	32	4.480e+05	406.37	0.16	-9890.84	0.0	-558.88	1.001e+04	-2.65	3138.07	406.37	-1.201e+06
		-1.201e+06	-455.86	5.49e-03	0.0	325.5	-558.88	121.21	-2.65	3138.07	-455.86	4.480e+05
88	33	6.824e+05	496.68	-0.20	-9890.84	0.0	270.64	-847.07	2.83	-2180.86	-424.43	6.824e+05
		-1.203e+06	-424.43	-5.80e-03	0.0	325.5	270.64	-1.074e+04	2.83	-2180.86	496.68	-1.203e+06
88	34	7.385e+04	3543.76	-0.02	-9890.84	0.0	-379.15	4653.67	7.52	-1.552e+04	1096.54	-2.811e+05
		-3.761e+05	1096.54	-0.02	0.0	325.5	-379.15	-5237.18	7.52	-1.552e+04	3543.76	-3.761e+05
88	35	1.063e+05	-1081.57	-0.02	-9890.84	0.0	-321.01	4642.53	-7.49	1.683e+04	-1081.57	-2.468e+05
		-3.454e+05	-3518.19	0.02	0.0	325.5	-321.01	-5248.31	-7.49	1.683e+04	-3518.19	-3.454e+05
88	36	2.464e+05	217.24	0.13	-9890.84	0.0	-526.71	8410.30	-1.39	2341.13	217.24	-9.165e+05
		-9.165e+05	-236.82	1.90e-03	0.0	325.5	-526.71	-1480.55	-1.39	2341.13	-236.82	2.113e+05
88	37	4.150e+05	252.71	-0.17	-9890.84	0.0	198.54	823.95	1.38	-1352.26	-196.87	4.046e+05
		-9.370e+05	-196.87	-1.83e-03	0.0	325.5	198.54	-9066.89	1.38	-1352.26	252.71	-9.370e+05
88	38	8.384e+04	12.39	-0.02	-9890.84	0.0	-319.97	4619.85	9.06e-03	437.68	9.44	-2.659e+05
		-3.719e+05	9.44	-7.55e-06	0.0	325.5	-319.97	-5270.99	9.06e-03	437.68	12.39	-3.719e+05
88	39	9.187e+04	15.95	-0.02	-9890.84	0.0	-381.71	4651.80	0.01	460.75	12.01	-2.628e+05
		-3.584e+05	12.01	-9.99e-06	0.0	325.5	-381.71	-5239.05	0.01	460.75	15.95	-3.584e+05
88	40	8.983e+04	13.28	-0.02	-1.058e+04	0.0	-338.83	4938.12	0.01	442.40	9.92	-2.837e+05
		-3.989e+05	9.92	-8.24e-06	0.0	325.5	-338.83	-5646.34	0.01	442.40	13.28	-3.989e+05
88	41	9.067e+04	15.44	-0.02	-9890.84	0.0	-372.89	4647.23	0.01	457.45	11.64	-2.632e+05
		-3.603e+05	11.64	-9.64e-06	0.0	325.5	-372.89	-5243.61	0.01	457.45	15.44	-3.603e+05
88	42	9.652e+04	16.34	-0.02	-1.058e+04	0.0	-391.75	4965.50	0.01	462.17	12.12	-2.810e+05
		-3.873e+05	12.12	-1.03e-05	0.0	325.5	-391.75	-5618.96	0.01	462.17	16.34	-3.873e+05
88	43	8.384e+04	12.39	-0.02	-9890.84	0.0	-319.97	4619.85	9.06e-03	437.68	9.44	-2.659e+05
		-3.719e+05	9.44	-7.55e-06	0.0	325.5	-319.97	-5270.99	9.06e-03	437.68	12.39	-3.719e+05
88	44	9.067e+04	15.44	-0.02	-9890.84	0.0	-372.89	4647.23	0.01	457.45	11.64	-2.632e+05
		-3.603e+05	11.64	-9.64e-06	0.0	325.5	-372.89	-5243.61	0.01	457.45	15.44	-3.603e+05
88	45	8.384e+04	12.39	-0.02	-9890.84	0.0	-319.97	4619.85	9.06e-03	437.68	9.44	-2.659e+05
		-3.719e+05	9.44	-7.55e-06	0.0	325.5	-319.97	-5270.99	9.06e-03	437.68	12.39	-3.719e+05
88	46	9.067e+04	15.44	-0.02	-9890.84	0.0	-372.89	4647.23	0.01	457.45	11.64	-2.632e+05
		-3.603e+05	11.64	-9.64e-06	0.0	325.5	-372.89	-5243.61	0.01	457.45	15.44	-3.603e+05
89	1	4.729e+05	21.37	-0.08	-1.736e+04	0.0	-722.42	9339.20	-0.05	-5782.99	21.37	-6.288e+05
		-6.288e+05	-0.15	5.91e-05	0.0	439.5	-722.42	-8022.20	-0.05	-5782.99	-0.15	-3.393e+05
89	2	5.740e+05	25.51	-0.09	-2.087e+04	0.0	-824.12	1.123e+04	-0.06	-5624.24	25.51	-7.501e+05
		-7.501e+05	-0.60	6.86e-05	0.0	439.5	-824.12	-9646.89	-0.06	-5624.24	-0.60	-4.030e+05
89	3	4.610e+05	31.05	-0.07	-1.736e+04	0.0	-890.56	9190.25	-0.08	-5375.31	31.05	-6.048e+05
		-6.048e+05	-4.35	8.09e-05	0.0	439.5	-890.56	-8171.14	-0.08	-5375.31	-4.35	-3.808e+05
89	4	5.614e+05	35.20	-0.09	-2.087e+04	0.0	-992.27	1.108e+04	-0.09	-5216.56	35.20	-7.261e+05
		-7.261e+05	-4.79	9.05e-05	0.0	439.5	-992.27	-9795.84	-0.09	-5216.56	-4.79	-4.445e+05
89	5	3.671e+05	13.95	-0.06	-1.335e+04	0.0	-512.59	7222.19	-0.03	-4552.99	13.95	-4.898e+05
		-4.898e+05	0.96	3.98e-05	0.0	439.5	-512.59	-6132.73	-0.03	-4552.99	0.96	-2.504e+05
89	6	4.681e+05	18.10	-0.08	-1.687e+04	0.0	-614.29	9109.54	-0.04	-4394.24	18.10	-6.112e+05
		-6.112e+05	0.52	4.94e-05	0.0	439.5	-614.29	-7757.42	-0.04	-4394.24	0.52	-3.140e+05
89	7	3.548e+05	23.64	-0.06	-1.335e+04	0.0	-680.74	7073.24	-0.06	-4145.31	23.64	-4.658e+05
		-4.658e+05	-3.24	6.17e-05	0.0	439.5	-680.74	-6281.68	-0.06	-4145.31	-3.24	-2.919e+05
89	8	4.553e+05	27.78	-0.07	-1.687e+04	0.0	-782.44	8960.59	-0.07	-3986.55	27.78	-5.872e+05
		-5.872e+05	-3.68	7.13e-05	0.0	439.5	-782.44	-7906.37	-0.07	-3986.55	-3.68	-3.555e+05
89	9	6.750e+05	29.65	-0.11	-2.439e+04	0.0	-925.82	1.311e+04	-0.07	-5465.49	29.65	-8.715e+05
		-8.715e+05	-1.04	7.82e-05	0.0	439.5	-925.82	-1.127e+04	-0.07	-5465.49	-1.04	-4.666e+05
89	10	4.639e+05	28.15	-0.08	-1.736e+04	0.0	-840.12	9234.93	-0.07	-5497.62	28.15	-6.120e+05
		-6.120e+05	-3.09	7.44e-05	0.0	439.5	-840.12	-8126.46	-0.07	-5497.62	-3.09	-3.684e+05
89	11	6.660e+05	36.43	-0.10	-2.439e+04	0.0	-1043.53	1.301e+04	-0.09	-5180.11	36.43	-8.547e+05
		-8.547e+05	-3.98	9.35e-05	0.0	439.5	-1043.53	-1.138e+04	-0.09	-5180.11	-3.98	-4.957e+05
89	12	5.691e+05	22.24	-0.09	-2.038e+04	0.0	-716.00	1.100e+04	-0.05	-4235.48	22.24	-7.325e+05
		-7.325e+05	0.07	5.90e-05	0.0	439.5	-716.00	-9382.11	-0.05	-4235.48	0.07	-3.777e+05
89	13	3.581e+05	20.73	-0.06	-1.335e+04	0.0	-630.29	7117.93	-0.05	-4267.61	20.73	-4.730e+05
		-4.730e+05	-1.98	5.51e-05	0.0	439.5	-630.29	-6236.99	-0.05	-4267.61	-1.98	-2.794e+05
89	14	5.602e+05	29.02	-0.09	-2.038e+04	0.0	-833.70	1.089e+04	-0.07	-3950.10	29.02	-7.157e+05
		-7.157e+05	-2.87	7.43e-05	0.0	439.5	-833.70	-9486.38	-0.07	-3950.10	-2.87	-4.067e+05
89	15	3.642e+05	16.11	-0.06	-1.335e+04	0.0	-549.96	7189.09	-0.04	-4462.40	16.11	-4.845e+05

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         -4.845e+05      0.03  4.47e-05     0.0  439.5  -549.96  -6165.83   -0.04  -4462.40    0.03 -2.596e+05
89  16 4.316e+05       18.87     -0.07 -1.570e+04   0.0  -617.76   8447.32   -0.04  -4356.56   18.87 -5.654e+05
         -5.654e+05     -0.27  5.11e-05     0.0  439.5  -617.76  -7248.96   -0.04  -4356.56   -0.27 -3.020e+05
89  17 3.558e+05       22.56     -0.06 -1.335e+04   0.0  -662.05   7089.79   -0.06  -4190.61   22.56 -4.685e+05
         -4.685e+05     -2.77  5.93e-05     0.0  439.5  -662.05  -6265.13   -0.06  -4190.61   -2.77 -2.873e+05
89  18 4.230e+05       25.32     -0.07 -1.570e+04   0.0  -729.86   8348.02   -0.06  -4084.77   25.32 -5.494e+05
         -5.494e+05     -3.07  6.56e-05     0.0  439.5  -729.86  -7348.25   -0.06  -4084.77   -3.07 -3.297e+05
89  19 4.989e+05       21.63     -0.08 -1.804e+04   0.0  -685.56   9705.55   -0.05  -4250.72   21.63 -6.463e+05
         -6.463e+05     -0.57  5.74e-05     0.0  439.5  -685.56  -8332.08   -0.05  -4250.72   -0.57 -3.445e+05
89  20 3.582e+05       20.63     -0.06 -1.335e+04   0.0  -628.42   7119.58   -0.05  -4272.14   20.63 -4.733e+05
         -4.733e+05     -1.93  5.49e-05     0.0  439.5  -628.42  -6235.34   -0.05  -4272.14   -1.93 -2.790e+05
89  21 4.929e+05       26.15     -0.08 -1.804e+04   0.0  -764.03   9636.04   -0.07  -4060.47   26.15 -6.351e+05
         -6.351e+05     -2.52  6.76e-05     0.0  439.5  -764.03  -8401.59   -0.07  -4060.47   -2.52 -3.638e+05
89  22 3.594e+05     2923.66     -0.07 -1.335e+04   0.0  -620.71   7268.94  -15.37 2.691e+05 2923.66 -5.090e+05
         -5.090e+05  -3830.73     -0.02     0.0  439.5  -620.71  -6085.97  -15.37 2.691e+05 -3830.73 -2.491e+05
89  23 3.616e+05     3836.13     -0.05 -1.335e+04   0.0  -615.59   6998.09   15.31 -2.781e+05 -2892.04 -4.425e+05
         -4.425e+05  -2892.04      0.02     0.0  439.5  -615.59  -6356.83   15.31 -2.781e+05 3836.13 -3.016e+05
89  24 1.120e+06      595.62      0.28 -1.335e+04   0.0  -601.73 1.188e+04    1.17   1478.71   79.75 -1.203e+06
         -1.203e+06     79.75  8.43e-03     0.0  439.5  -601.73  -1472.36    1.17   1478.71  595.62 1.085e+06
89  25 5.871e+05      -56.29     -0.26 -1.335e+04   0.0   448.12   2915.61   -1.24 -1.041e+04  -56.29 4.500e+05
         -1.203e+06   -601.82 -8.14e-03     0.0  439.5   448.12 -1.044e+04   -1.24 -1.041e+04  -601.82 -1.203e+06
89  26 3.598e+05     2891.64     -0.07 -1.335e+04   0.0  -604.13   7282.33  -15.17 1.929e+05 2891.64 -5.120e+05
         -5.120e+05  -3776.91     -0.02     0.0  439.5  -604.13  -6072.59  -15.17 1.929e+05 -3776.91 -2.462e+05
89  27 3.617e+05     3769.05     -0.05 -1.335e+04   0.0  -636.11   6982.80   15.06 -2.021e+05 -2848.48 -4.391e+05
         -4.391e+05  -2848.48      0.02     0.0  439.5  -636.11  -6372.12   15.06 -2.021e+05 3769.05 -3.049e+05
89  28 5.729e+05      495.01      0.20 -1.335e+04   0.0  -792.52   9514.65    1.18   -111.62  -24.11 -9.149e+05
         -9.149e+05    -24.11  2.34e-03     0.0  439.5  -792.52  -3840.27    1.18   -111.62  495.01 3.320e+05
89  29 3.457e+05       57.23     -0.18 -1.335e+04   0.0  -120.10   4900.07   -1.28 -8573.67   57.23 -4.918e+04
         -8.303e+05   -507.03 -2.28e-03     0.0  439.5  -120.10  -8454.84   -1.28 -8573.67  -507.03 -8.303e+05
89  30 3.598e+05     2573.90     -0.07 -1.335e+04   0.0  -604.40   7278.72  -13.61 2.978e+05 2573.90 -5.110e+05
         -5.110e+05  -3406.07     -0.02     0.0  439.5  -604.40  -6076.19  -13.61 2.978e+05 -3406.07 -2.468e+05
89  31 3.614e+05     3427.33     -0.05 -1.335e+04   0.0  -624.84   6994.18   13.61 -3.078e+05 -2554.85 -4.419e+05
         -4.419e+05  -2554.85      0.02     0.0  439.5  -624.84  -6360.74   13.61 -3.078e+05 3427.33 -3.027e+05
89  32 1.011e+06      732.34      0.27 -1.335e+04   0.0  -718.65 1.160e+04    1.57   1298.61   44.19 -1.203e+06
         -1.203e+06     44.19  7.80e-03     0.0  439.5  -718.65  -1754.78    1.57   1298.61  732.34 9.605e+05
89  33 5.423e+05      -43.36     -0.26 -1.335e+04   0.0   363.20   3051.47   -1.61 -1.037e+04  -43.36 3.905e+05
         -1.203e+06   -752.82 -8.21e-03     0.0  439.5   363.20 -1.030e+04   -1.61 -1.037e+04  -752.82 -1.203e+06
89  34 3.598e+05     2573.90     -0.07 -1.335e+04   0.0  -604.40   7278.72  -13.61 2.978e+05 2573.90 -5.110e+05
         -5.110e+05  -3406.07     -0.02     0.0  439.5  -604.40  -6076.19  -13.61 2.978e+05 -3406.07 -2.468e+05
89  35 3.614e+05     3427.33     -0.05 -1.335e+04   0.0  -624.84   6994.18   13.61 -3.078e+05 -2554.85 -4.419e+05
         -4.419e+05  -2554.85      0.02     0.0  439.5  -624.84  -6360.74   13.61 -3.078e+05 3427.33 -3.027e+05
89  36 6.989e+05      650.93      0.22 -1.335e+04   0.0  -811.25 1.037e+04    1.56    275.94  -32.70 -1.070e+06
         -1.070e+06    -32.70  2.92e-03     0.0  439.5  -811.25  -2981.47    1.56    275.94  650.93 5.548e+05
89  37 3.765e+05       66.38     -0.19 -1.335e+04   0.0   -30.75   4117.81   -1.62 -8868.86   66.38 9.753e+04
         -1.027e+06   -646.07 -2.72e-03     0.0  439.5   -30.75  -9237.11   -1.62 -8868.86  -646.07 -1.027e+06
89  38 3.642e+05       16.11     -0.06 -1.335e+04   0.0  -549.96   7189.09   -0.04  -4462.40   16.11 -4.845e+05
         -4.845e+05      0.03  4.47e-05     0.0  439.5  -549.96  -6165.83   -0.04  -4462.40    0.03 -2.596e+05
89  39 3.582e+05       20.63     -0.06 -1.335e+04   0.0  -628.42   7119.58   -0.05  -4272.14   20.63 -4.733e+05
         -4.733e+05     -1.93  5.49e-05     0.0  439.5  -628.42  -6235.34   -0.05  -4272.14   -1.93 -2.790e+05
89  40 3.912e+05       17.21     -0.07 -1.429e+04   0.0  -577.08   7692.38   -0.04  -4420.06   17.21 -5.168e+05
         -5.168e+05     -0.09  4.73e-05     0.0  439.5  -577.08  -6599.08   -0.04  -4420.06   -0.09 -2.766e+05
89  41 3.591e+05       19.98     -0.06 -1.335e+04   0.0  -617.22   7129.51   -0.05  -4299.32   19.98 -4.749e+05
         -4.749e+05     -1.65  5.34e-05     0.0  439.5  -617.22  -6225.41   -0.05  -4299.32   -1.65 -2.762e+05
89  42 3.860e+05       21.08     -0.06 -1.429e+04   0.0  -644.34   7632.80   -0.05  -4256.99   21.08 -5.072e+05
         -5.072e+05     -1.77  5.60e-05     0.0  439.5  -644.34  -6658.66   -0.05  -4256.99   -1.77 -2.932e+05
89  43 3.642e+05       16.11     -0.06 -1.335e+04   0.0  -549.96   7189.09   -0.04  -4462.40   16.11 -4.845e+05
         -4.845e+05      0.03  4.47e-05     0.0  439.5  -549.96  -6165.83   -0.04  -4462.40    0.03 -2.596e+05
89  44 3.591e+05       19.98     -0.06 -1.335e+04   0.0  -617.22   7129.51   -0.05  -4299.32   19.98 -4.749e+05
         -4.749e+05     -1.65  5.34e-05     0.0  439.5  -617.22  -6225.41   -0.05  -4299.32   -1.65 -2.762e+05
89  45 3.642e+05       16.11     -0.06 -1.335e+04   0.0  -549.96   7189.09   -0.04  -4462.40   16.11 -4.845e+05
         -4.845e+05      0.03  4.47e-05     0.0  439.5  -549.96  -6165.83   -0.04  -4462.40    0.03 -2.596e+05
89  46 3.591e+05       19.98     -0.06 -1.335e+04   0.0  -617.22   7129.51   -0.05  -4299.32   19.98 -4.749e+05
         -4.749e+05     -1.65  5.34e-05     0.0  439.5  -617.22  -6225.41   -0.05  -4299.32   -1.65 -2.762e+05
90   1 4.794e+05        3.20     -0.08 -1.761e+04   0.0  -730.12   9469.37    0.05   6073.84  -19.80 -6.369e+05
         -6.369e+05    -19.80 -4.68e-05     0.0  439.5  -730.12  -8144.67    0.05   6073.84    3.20 -3.458e+05
90   2 5.820e+05        4.17     -0.10 -2.118e+04   0.0  -832.88 1.139e+04    0.06   5929.45  -23.86 -7.602e+05
         -7.602e+05    -23.86 -5.70e-05     0.0  439.5  -832.88  -9797.07    0.06   5929.45    4.17 -4.108e+05
90   3 4.674e+05        8.38     -0.07 -1.761e+04   0.0  -900.21   9318.35    0.09   5694.08  -29.31 -6.126e+05
         -6.126e+05    -29.31 -6.81e-05     0.0  439.5  -900.21  -8295.69    0.09   5694.08    8.38 -3.879e+05
90   4 5.694e+05        9.36     -0.09 -2.118e+04   0.0 -1002.98 1.124e+04    0.10   5549.68  -33.36 -7.359e+05
         -7.359e+05    -33.36 -7.83e-05     0.0  439.5 -1002.98  -9948.09    0.10   5549.68    9.36 -4.528e+05
90   5 3.721e+05        1.13     -0.06 -1.355e+04   0.0  -518.01   7322.85    0.03   4769.56  -12.80 -4.962e+05
         -4.962e+05    -12.80 -3.06e-05     0.0  439.5  -518.01  -6226.41    0.03   4769.56    1.13 -2.552e+05
90   6 4.747e+05        2.11     -0.08 -1.712e+04   0.0  -620.78   9240.79    0.04   4625.17  -16.85 -6.195e+05
         -6.195e+05    -16.85 -4.08e-05     0.0  439.5  -620.78  -7878.81    0.04   4625.17    2.11 -3.202e+05
90   7 3.598e+05        6.32     -0.06 -1.355e+04   0.0  -688.11   7171.83    0.07   4389.80  -22.30 -4.719e+05
         -4.719e+05    -22.30 -5.18e-05     0.0  439.5  -688.11  -6377.43    0.07   4389.80    6.32 -2.973e+05
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90      8 4.618e+05      7.29      -0.07 -1.712e+04    0.0   -790.88   9089.77     0.08   4245.40   -26.35 -5.952e+05
       -5.952e+05     -26.35  -6.20e-05      0.0   439.5   -790.88  -8029.83     0.08   4245.40     7.29 -3.623e+05
90      9 6.845e+05      5.15      -0.11 -2.475e+04    0.0   -935.65 1.331e+04     0.08   5785.05   -27.91 -8.836e+05
       -8.836e+05     -27.91  -6.72e-05      0.0   439.5   -935.65 -1.145e+04     0.08   5785.05     5.15 -4.758e+05
90     10 4.703e+05      6.83      -0.08 -1.761e+04    0.0   -849.18   9363.65     0.08   5808.01   -26.46 -6.199e+05
       -6.199e+05     -26.46  -6.17e-05      0.0   439.5   -849.18  -8250.38     0.08   5808.01     6.83 -3.753e+05
90     11 6.754e+05      8.78      -0.11 -2.475e+04    0.0  -1054.72 1.320e+04     0.10   5519.22   -34.56 -8.665e+05
       -8.665e+05     -34.56  -8.21e-05      0.0   439.5  -1054.72 -1.156e+04     0.10   5519.22     8.78 -5.052e+05
90     12 5.772e+05      3.08      -0.09 -2.069e+04    0.0   -723.55 1.116e+04     0.05   4480.77   -20.90 -7.428e+05
       -7.428e+05     -20.90  -5.09e-05      0.0   439.5   -723.55  -9531.21     0.05   4480.77     3.08 -3.852e+05
90     13 3.630e+05      4.76      -0.06 -1.355e+04    0.0   -637.08   7217.14     0.06   4503.73   -19.45 -4.792e+05
       -4.792e+05     -19.45  -4.55e-05      0.0   439.5   -637.08  -6332.12     0.06   4503.73     4.76 -2.847e+05
90     14 5.681e+05      6.71      -0.09 -2.069e+04    0.0   -842.61 1.105e+04     0.08   4214.94   -27.55 -7.258e+05
       -7.258e+05     -27.55  -6.58e-05      0.0   439.5   -842.61  -9636.92     0.08   4214.94     6.71 -4.146e+05
90     15 3.692e+05      2.28      -0.06 -1.355e+04    0.0   -555.81   7289.29     0.04   4685.17   -14.91 -4.908e+05
       -4.908e+05     -14.91  -3.53e-05      0.0   439.5   -555.81  -6259.97     0.04   4685.17     2.28 -2.646e+05
90     16 4.376e+05      2.93      -0.07 -1.593e+04    0.0   -624.32   8567.92     0.05   4588.91   -17.61 -5.730e+05
       -5.730e+05     -17.61  -4.21e-05      0.0   439.5   -624.32  -7361.57     0.05   4588.91     2.93 -3.079e+05
90     17 3.608e+05      5.74      -0.06 -1.355e+04    0.0   -669.21   7188.61     0.06   4431.99   -21.25 -4.746e+05
       -4.746e+05     -21.25  -4.95e-05      0.0   439.5   -669.21  -6360.65     0.06   4431.99     5.74 -2.926e+05
90     18 4.289e+05      6.39      -0.07 -1.593e+04    0.0   -737.72   8467.24     0.07   4335.73   -23.95 -5.568e+05
       -5.568e+05     -23.95  -5.63e-05      0.0   439.5   -737.72  -7462.25     0.07   4335.73     6.39 -3.359e+05
90     19 5.060e+05      3.58      -0.08 -1.831e+04    0.0   -692.84   9846.55     0.05   4492.64   -20.31 -6.552e+05
       -6.552e+05     -20.31  -4.89e-05      0.0   439.5   -692.84  -8463.17     0.05   4492.64     3.58 -3.512e+05
90     20 3.631e+05      4.70      -0.06 -1.355e+04    0.0   -635.19   7218.82     0.05   4507.95   -19.34 -4.794e+05
       -4.794e+05     -19.34  -4.52e-05      0.0   439.5   -635.19  -6330.44     0.05   4507.95     4.70 -2.842e+05
90     21 4.999e+05      6.00      -0.08 -1.831e+04    0.0   -772.21   9776.07     0.07   4315.42   -24.75 -6.439e+05
       -6.439e+05     -24.75  -5.88e-05      0.0   439.5   -772.21  -8533.64     0.07   4315.42     6.00 -3.708e+05
90     22 3.667e+05   2885.60      -0.05 -1.355e+04    0.0   -621.34   7095.54   -15.27 2.784e+05   2885.60 -4.482e+05
       -4.482e+05   -3824.74      -0.02      0.0   439.5   -621.34  -6453.72   -15.27 2.784e+05  -3824.74 -3.072e+05
90     23 3.643e+05   3833.38      -0.07 -1.355e+04    0.0   -628.02   7370.50    15.37 -2.684e+05  -2922.65 -5.157e+05
       -5.157e+05   -2922.65       0.02      0.0   439.5   -628.02  -6178.76    15.37 -2.684e+05   3833.38 -2.538e+05
90     24 1.121e+06    296.84       0.28 -1.355e+04    0.0   -605.50 1.197e+04    -2.53   -758.19    296.84 -1.203e+06
       -1.203e+06    -814.01   7.26e-03      0.0   439.5   -605.50  -1578.99    -2.53   -758.19   -814.01 1.080e+06
90     25 5.961e+05    812.00      -0.26 -1.355e+04    0.0    449.17   3009.22     2.54 1.017e+04   -306.34 4.516e+05
       -1.203e+06    -306.34  -7.07e-03      0.0   439.5    449.17 -1.054e+04     2.54 1.017e+04    812.00 -1.203e+06
90     26 3.667e+05   2843.74      -0.05 -1.355e+04    0.0   -641.91   7080.70   -15.02 2.025e+05   2843.74 -4.449e+05
       -4.449e+05   -3759.62      -0.02      0.0   439.5   -641.91  -6468.56   -15.02 2.025e+05  -3759.62 -3.104e+05
90     27 3.647e+05   3777.51      -0.07 -1.355e+04    0.0   -611.29   7383.57    15.17 -1.923e+05  -2888.97 -5.186e+05
       -5.186e+05   -2888.97       0.02      0.0   439.5   -611.29  -6165.69    15.17 -1.923e+05   3777.51 -2.510e+05
90     28 5.770e+05    114.51       0.20 -1.355e+04    0.0   -798.34   9616.13    -1.44    542.22    114.51 -9.213e+05
       -9.213e+05    -516.42   1.45e-03      0.0   439.5   -798.34  -3933.13    -1.44    542.22   -516.42 3.275e+05
90     29 3.499e+05    532.68      -0.17 -1.355e+04    0.0   -125.23   4999.39     1.54   8611.70   -146.19 -5.537e+04
       -8.356e+05    -146.19  -1.53e-03      0.0   439.5   -125.23  -8549.87     1.54   8611.70    532.68 -8.356e+05
90     30 3.664e+05   2549.40      -0.05 -1.355e+04    0.0   -629.66   7091.82   -13.58 3.083e+05   2549.40 -4.476e+05
       -4.476e+05   -3416.88      -0.02      0.0   439.5   -629.66  -6457.44   -13.58 3.083e+05  -3416.88 -3.082e+05
90     31 3.647e+05   3411.48      -0.07 -1.355e+04    0.0   -612.62   7380.10    13.62 -2.970e+05  -2575.68 -5.177e+05
       -5.177e+05   -2575.68       0.02      0.0   439.5   -612.62  -6169.16    13.62 -2.970e+05   3411.48 -2.516e+05
90     32 1.012e+06    291.89       0.27 -1.355e+04    0.0   -722.71 1.169e+04    -2.74   -616.87    291.89 -1.203e+06
       -1.203e+06    -910.71   6.42e-03      0.0   439.5   -722.71  -1861.71    -2.74   -616.87   -910.71 9.563e+05
90     33 5.488e+05    958.40      -0.26 -1.355e+04    0.0    363.07   3153.19     2.93 1.015e+04   -331.22 3.884e+05
       -1.203e+06    -331.22  -6.88e-03      0.0   439.5    363.07 -1.040e+04     2.93 1.015e+04    958.40 -1.203e+06
90     34 3.664e+05   2549.40      -0.05 -1.355e+04    0.0   -629.66   7091.82   -13.58 3.083e+05   2549.40 -4.476e+05
       -4.476e+05   -3416.88      -0.02      0.0   439.5   -629.66  -6457.44   -13.58 3.083e+05  -3416.88 -3.082e+05
90     35 3.647e+05   3411.48      -0.07 -1.355e+04    0.0   -612.62   7380.10    13.62 -2.970e+05  -2575.68 -5.177e+05
       -5.177e+05   -2575.68       0.02      0.0   439.5   -612.62  -6169.16    13.62 -2.970e+05   3411.48 -2.516e+05
90     36 7.022e+05    150.97       0.22 -1.355e+04    0.0   -817.82 1.048e+04    -1.89    171.75    150.97 -1.076e+06
       -1.076e+06    -680.13   1.76e-03      0.0   439.5   -817.82  -3072.50    -1.89    171.75   -680.13 5.507e+05
90     37 3.798e+05    675.39      -0.19 -1.355e+04    0.0    -35.57   4216.16     1.94   8891.62   -176.68 9.150e+04
       -1.033e+06    -176.68  -1.73e-03      0.0   439.5    -35.57  -9333.10     1.94   8891.62    675.39 -1.033e+06
90     38 3.692e+05      2.28      -0.06 -1.355e+04    0.0   -555.81   7289.29     0.04   4685.17   -14.91 -4.908e+05
       -4.908e+05     -14.91  -3.53e-05      0.0   439.5   -555.81  -6259.97     0.04   4685.17     2.28 -2.646e+05
90     39 3.631e+05      4.70      -0.06 -1.355e+04    0.0   -635.19   7218.82     0.05   4507.95   -19.34 -4.794e+05
       -4.794e+05     -19.34  -4.52e-05      0.0   439.5   -635.19  -6330.44     0.05   4507.95     4.70 -2.842e+05
90     40 3.965e+05      2.54      -0.07 -1.450e+04    0.0   -583.22   7800.74     0.04   4646.66   -15.99 -5.237e+05
       -5.237e+05     -15.99  -3.80e-05      0.0   439.5   -583.22  -6700.61     0.04   4646.66     2.54 -2.819e+05
90     41 3.640e+05      4.36      -0.06 -1.355e+04    0.0   -623.85   7228.88     0.05   4533.26   -18.71 -4.810e+05
       -4.810e+05     -18.71  -4.38e-05      0.0   439.5   -623.85  -6320.38     0.05   4533.26     4.36 -2.814e+05
90     42 3.913e+05      4.62      -0.06 -1.450e+04    0.0   -651.26   7740.34     0.06   4494.76   -19.79 -5.139e+05
       -5.139e+05     -19.79  -4.65e-05      0.0   439.5   -651.26  -6761.02     0.06   4494.76     4.62 -2.987e+05
90     43 3.692e+05      2.28      -0.06 -1.355e+04    0.0   -555.81   7289.29     0.04   4685.17   -14.91 -4.908e+05
       -4.908e+05     -14.91  -3.53e-05      0.0   439.5   -555.81  -6259.97     0.04   4685.17     2.28 -2.646e+05
90     44 3.640e+05      4.36      -0.06 -1.355e+04    0.0   -623.85   7228.88     0.05   4533.26   -18.71 -4.810e+05
       -4.810e+05     -18.71  -4.38e-05      0.0   439.5   -623.85  -6320.38     0.05   4533.26     4.36 -2.814e+05
90     45 3.692e+05      2.28      -0.06 -1.355e+04    0.0   -555.81   7289.29     0.04   4685.17   -14.91 -4.908e+05
       -4.908e+05     -14.91  -3.53e-05      0.0   439.5   -555.81  -6259.97     0.04   4685.17     2.28 -2.646e+05
90     46 3.640e+05      4.36      -0.06 -1.355e+04    0.0   -623.85   7228.88     0.05   4533.26   -18.71 -4.810e+05
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		-4.810e+05	-18.71	-4.38e-05	0.0	439.5	-623.85	-6320.38	0.05	4533.26	4.36	-2.814e+05
91	1	1.116e+05	-12.01	-0.02	-1.305e+04	0.0	-425.71	6097.16	-0.01	-565.99	-12.01	-3.502e+05
		-4.887e+05	-16.34	1.33e-05	0.0	325.5	-425.71	-6948.05	-0.01	-565.99	-16.34	-4.887e+05
91	2	1.345e+05	-13.79	-0.03	-1.569e+04	0.0	-496.91	7310.54	-0.02	-582.11	-13.79	-4.178e+05
		-5.917e+05	-19.70	1.52e-05	0.0	325.5	-496.91	-8378.91	-0.02	-582.11	-19.70	-5.917e+05
91	3	1.295e+05	-17.64	-0.03	-1.305e+04	0.0	-559.11	6166.78	-0.02	-612.06	-17.64	-3.434e+05
		-4.592e+05	-23.84	1.82e-05	0.0	325.5	-559.11	-6878.43	-0.02	-612.06	-23.84	-4.592e+05
91	4	1.518e+05	-19.43	-0.03	-1.569e+04	0.0	-630.32	7380.17	-0.02	-628.18	-19.43	-4.110e+05
		-5.622e+05	-27.20	2.01e-05	0.0	325.5	-630.32	-8309.29	-0.02	-628.18	-27.20	-5.622e+05
91	5	8.158e+04	-7.79	-0.02	-1.003e+04	0.0	-293.26	4672.27	-8.77e-03	-423.56	-7.79	-2.712e+05
		-3.835e+05	-10.64	9.03e-06	0.0	325.5	-293.26	-5362.51	-8.77e-03	-423.56	-10.64	-3.835e+05
91	6	1.044e+05	-9.58	-0.02	-1.268e+04	0.0	-364.46	5885.65	-0.01	-439.68	-9.58	-3.388e+05
		-4.865e+05	-14.00	1.09e-05	0.0	325.5	-364.46	-6793.37	-0.01	-439.68	-14.00	-4.865e+05
91	7	9.913e+04	-13.43	-0.02	-1.003e+04	0.0	-426.67	4741.89	-0.01	-469.63	-13.43	-2.643e+05
		-3.540e+05	-18.15	1.38e-05	0.0	325.5	-426.67	-5292.88	-0.01	-469.63	-18.15	-3.540e+05
91	8	1.214e+05	-15.22	-0.03	-1.268e+04	0.0	-497.87	5955.28	-0.02	-485.75	-15.22	-3.319e+05
		-4.570e+05	-21.51	1.57e-05	0.0	325.5	-497.87	-6723.74	-0.02	-485.75	-21.51	-4.570e+05
91	9	1.573e+05	-15.58	-0.03	-1.833e+04	0.0	-568.11	8523.93	-0.02	-598.23	-15.58	-4.854e+05
		-6.947e+05	-23.06	1.71e-05	0.0	325.5	-568.11	-9809.77	-0.02	-598.23	-23.06	-6.947e+05
91	10	1.240e+05	-15.95	-0.03	-1.305e+04	0.0	-519.09	6145.89	-0.02	-598.24	-15.95	-3.455e+05
		-4.681e+05	-21.59	1.67e-05	0.0	325.5	-519.09	-6899.32	-0.02	-598.24	-21.59	-4.681e+05
91	11	1.691e+05	-19.53	-0.04	-1.833e+04	0.0	-661.50	8572.67	-0.03	-630.47	-19.53	-4.806e+05
		-6.740e+05	-28.31	2.05e-05	0.0	325.5	-661.50	-9761.03	-0.03	-630.47	-28.31	-6.740e+05
91	12	1.273e+05	-11.37	-0.02	-1.532e+04	0.0	-435.66	7099.04	-0.02	-455.80	-11.37	-4.064e+05
		-5.895e+05	-17.36	1.28e-05	0.0	325.5	-435.66	-8224.22	-0.02	-455.80	-17.36	-5.895e+05
91	13	9.367e+04	-11.74	-0.02	-1.003e+04	0.0	-386.65	4721.00	-0.01	-455.81	-11.74	-2.664e+05
		-3.629e+05	-15.90	1.24e-05	0.0	325.5	-386.65	-5313.77	-0.01	-455.81	-15.90	-3.629e+05
91	14	1.390e+05	-15.31	-0.03	-1.532e+04	0.0	-529.05	7147.78	-0.02	-488.05	-15.31	-4.016e+05
		-5.688e+05	-22.61	1.62e-05	0.0	325.5	-529.05	-8175.49	-0.02	-488.05	-22.61	-5.688e+05
91	15	8.531e+04	-9.04	-0.02	-1.003e+04	0.0	-322.91	4687.74	-0.01	-433.80	-9.04	-2.697e+05
		-3.770e+05	-12.31	1.01e-05	0.0	325.5	-322.91	-5347.04	-0.01	-433.80	-12.31	-3.770e+05
91	16	1.005e+05	-10.23	-0.02	-1.180e+04	0.0	-370.38	5496.66	-0.01	-444.55	-10.23	-3.147e+05
		-4.456e+05	-14.55	1.13e-05	0.0	325.5	-370.38	-6300.94	-0.01	-444.55	-14.55	-4.456e+05
91	17	9.711e+04	-12.80	-0.02	-1.003e+04	0.0	-411.84	4734.16	-0.01	-464.51	-12.80	-2.651e+05
		-3.573e+05	-17.31	1.33e-05	0.0	325.5	-411.84	-5300.62	-0.01	-464.51	-17.31	-3.573e+05
91	18	1.120e+05	-13.99	-0.03	-1.180e+04	0.0	-459.31	5543.08	-0.02	-475.26	-13.99	-3.101e+05
		-4.259e+05	-19.55	1.46e-05	0.0	325.5	-459.31	-6254.53	-0.02	-475.26	-19.55	-4.259e+05
91	19	1.158e+05	-11.43	-0.02	-1.356e+04	0.0	-417.84	6305.59	-0.02	-455.29	-11.43	-3.598e+05
		-5.143e+05	-16.79	1.26e-05	0.0	325.5	-417.84	-7254.85	-0.02	-455.29	-16.79	-5.143e+05
91	20	9.347e+04	-11.67	-0.02	-1.003e+04	0.0	-385.16	4720.23	-0.01	-455.30	-11.67	-2.665e+05
		-3.632e+05	-15.81	1.23e-05	0.0	325.5	-385.16	-5314.55	-0.01	-455.30	-15.81	-3.632e+05
91	21	1.236e+05	-14.06	-0.03	-1.356e+04	0.0	-480.10	6338.08	-0.02	-476.79	-14.06	-3.566e+05
		-5.005e+05	-20.29	1.49e-05	0.0	325.5	-480.10	-7222.36	-0.02	-476.79	-20.29	-5.005e+05
91	22	1.085e+05	3220.87	-0.02	-1.003e+04	0.0	-330.23	4717.34	5.26	-1.399e+04	1508.28	-2.509e+05
		-3.486e+05	1508.28	-0.02	0.0	325.5	-330.23	-5317.44	5.26	-1.399e+04	3220.87	-3.486e+05
91	23	7.543e+04	-1541.38	-0.02	-1.003e+04	0.0	-401.23	4715.69	-5.25	1.321e+04	-1541.38	-2.838e+05
		-3.820e+05	-3250.24	0.02	0.0	325.5	-401.23	-5319.09	-5.25	1.321e+04	-3250.24	-3.820e+05
91	24	4.500e+05	194.31	0.16	-1.003e+04	0.0	-385.21	1.008e+04	-1.17	-2266.26	194.31	-1.197e+06
		-1.197e+06	-186.34	5.61e-03	0.0	325.5	-385.21	43.87	-1.17	-2266.26	-186.34	4.500e+05
91	25	6.627e+05	168.17	-0.20	-1.003e+04	0.0	231.37	-708.13	1.12	1236.88	-196.35	6.627e+05
		-1.201e+06	-196.35	-5.44e-03	0.0	325.5	231.37	-1.074e+04	1.12	1236.88	168.17	-1.201e+06
91	26	1.104e+05	3136.02	-0.02	-1.003e+04	0.0	-390.96	4716.94	4.84	-9178.43	1561.45	-2.490e+05
		-3.468e+05	1561.45	-0.02	0.0	325.5	-390.96	-5317.84	4.84	-9178.43	3136.02	-3.468e+05
91	27	7.375e+04	-1596.84	-0.02	-1.003e+04	0.0	-356.05	4716.33	-4.85	7933.74	-1596.84	-2.855e+05
		-3.835e+05	-3175.00	0.02	0.0	325.5	-356.05	-5318.44	-4.85	7933.74	-3175.00	-3.835e+05
91	28	1.630e+05	1.16	0.12	-1.003e+04	0.0	-461.50	7610.60	-6.97e-03	-1824.49	1.16	-7.762e+05
		-7.762e+05	-1.10	1.27e-03	0.0	325.5	-461.50	-2424.17	-6.97e-03	-1824.49	-1.10	6.784e+04
91	29	3.150e+05	-16.33	-0.16	-1.003e+04	0.0	61.03	1696.68	-0.02	916.41	-16.33	2.689e+05
		-8.120e+05	-22.81	-1.26e-03	0.0	325.5	61.03	-8338.10	-0.02	916.41	-22.81	-8.120e+05
91	30	1.081e+05	3520.56	-0.02	-1.003e+04	0.0	-323.31	4711.40	7.51	-1.679e+04	1077.59	-2.504e+05
		-3.500e+05	1077.59	-0.02	0.0	325.5	-323.31	-5323.38	7.51	-1.679e+04	3520.56	-3.500e+05
91	31	7.517e+04	-1104.66	-0.02	-1.003e+04	0.0	-382.33	4721.42	-7.48	1.554e+04	-1104.66	-2.849e+05
		-3.813e+05	-3539.71	0.02	0.0	325.5	-382.33	-5313.36	-7.48	1.554e+04	-3539.71	-3.813e+05
91	32	4.498e+05	147.69	0.15	-1.003e+04	0.0	-558.31	1.009e+04	-0.87	-2254.17	147.69	-1.201e+06
		-1.201e+06	-135.04	5.03e-03	0.0	325.5	-558.31	54.77	-0.87	-2254.17	-135.04	4.498e+05
91	33	6.780e+05	155.44	-0.20	-1.003e+04	0.0	272.29	-761.61	1.05	1199.27	-186.87	6.780e+05
		-1.203e+06	-186.87	-5.35e-03	0.0	325.5	272.29	-1.080e+04	1.05	1199.27	155.44	-1.203e+06
91	34	1.081e+05	3520.56	-0.02	-1.003e+04	0.0	-323.31	4711.40	7.51	-1.679e+04	1077.59	-2.504e+05
		-3.500e+05	1077.59	-0.02	0.0	325.5	-323.31	-5323.38	7.51	-1.679e+04	3520.56	-3.500e+05
91	35	7.517e+04	-1104.66	-0.02	-1.003e+04	0.0	-382.33	4721.42	-7.48	1.554e+04	-1104.66	-2.849e+05
		-3.813e+05	-3539.71	0.02	0.0	325.5	-382.33	-5313.36	-7.48	1.554e+04	-3539.71	-3.813e+05
91	36	2.443e+05	4.57	0.13	-1.003e+04	0.0	-528.02	8480.06	-9.52e-03	-1938.58	4.57	-9.205e+05
		-9.205e+05	1.47	1.55e-03	0.0	325.5	-528.02	-1554.71	-9.52e-03	-1938.58	1.47	2.066e+05
91	37	4.130e+05	-14.88	-0.17	-1.003e+04	0.0	196.73	890.32	-0.04	975.08	-14.88	4.013e+05
		-9.421e+05	-27.05	-1.46e-03	0.0	325.5	196.73	-9144.46	-0.04	975.08	-27.05	-9.421e+05
91	38	8.531e+04	-9.04	-0.02	-1.003e+04	0.0	-322.91	4687.74	-0.01	-433.80	-9.04	-2.697e+05
		-3.770e+05	-12.31	1.01e-05	0.0	325.5	-322.91	-5347.04	-0.01	-433.80	-12.31	-3.770e+05

91	39	9.347e+04	-11.67	-0.02	-1.003e+04	0.0	-385.16	4720.23	-0.01	-455.30	-11.67 -2.665e+05
		-3.632e+05	-15.81	1.23e-05	0.0	325.5	-385.16	-5314.55	-0.01	-455.30	-15.81 -3.632e+05
91	40	9.140e+04	-9.52	-0.02	-1.074e+04	0.0	-341.90	5011.31	-0.01	-438.10	-9.52 -2.877e+05
		-4.044e+05	-13.21	1.06e-05	0.0	325.5	-341.90	-5728.60	-0.01	-438.10	-13.21 -4.044e+05
91	41	9.226e+04	-11.30	-0.02	-1.003e+04	0.0	-376.27	4715.59	-0.01	-452.23	-11.30 -2.669e+05
		-3.652e+05	-15.31	1.20e-05	0.0	325.5	-376.27	-5319.19	-0.01	-452.23	-15.31 -3.652e+05
91	42	9.821e+04	-11.77	-0.02	-1.074e+04	0.0	-395.26	5039.16	-0.01	-456.53	-11.77 -2.849e+05
		-3.926e+05	-16.21	1.25e-05	0.0	325.5	-395.26	-5700.75	-0.01	-456.53	-16.21 -3.926e+05
91	43	8.531e+04	-9.04	-0.02	-1.003e+04	0.0	-322.91	4687.74	-0.01	-433.80	-9.04 -2.697e+05
		-3.770e+05	-12.31	1.01e-05	0.0	325.5	-322.91	-5347.04	-0.01	-433.80	-12.31 -3.770e+05
91	44	9.226e+04	-11.30	-0.02	-1.003e+04	0.0	-376.27	4715.59	-0.01	-452.23	-11.30 -2.669e+05
		-3.652e+05	-15.31	1.20e-05	0.0	325.5	-376.27	-5319.19	-0.01	-452.23	-15.31 -3.652e+05
91	45	8.531e+04	-9.04	-0.02	-1.003e+04	0.0	-322.91	4687.74	-0.01	-433.80	-9.04 -2.697e+05
		-3.770e+05	-12.31	1.01e-05	0.0	325.5	-322.91	-5347.04	-0.01	-433.80	-12.31 -3.770e+05
91	46	9.226e+04	-11.30	-0.02	-1.003e+04	0.0	-376.27	4715.59	-0.01	-452.23	-11.30 -2.669e+05
		-3.652e+05	-15.31	1.20e-05	0.0	325.5	-376.27	-5319.19	-0.01	-452.23	-15.31 -3.652e+05
92	1	2.631e+05	2.31	-0.04	-1.313e+04	0.0	-409.13	6078.69	-0.07	-8376.32	2.31 -1.964e+05
		-3.549e+05	-20.86	5.27e-05	0.0	327.5	-409.13	-7046.68	-0.07	-8376.32	-20.86 -3.549e+05
92	2	3.204e+05	4.12	-0.05	-1.579e+04	0.0	-471.36	7318.70	-0.09	-8240.04	4.12 -2.335e+05
		-4.215e+05	-24.63	6.06e-05	0.0	327.5	-471.36	-8467.15	-0.09	-8240.04	-24.63 -4.215e+05
92	3	2.556e+05	4.96	-0.05	-1.313e+04	0.0	-516.31	6251.17	-0.10	-8025.54	4.96 -2.307e+05
		-3.327e+05	-29.30	7.33e-05	0.0	327.5	-516.31	-6874.20	-0.10	-8025.54	-29.30 -3.327e+05
92	4	3.127e+05	6.77	-0.06	-1.579e+04	0.0	-578.54	7491.18	-0.12	-7889.26	6.77 -2.677e+05
		-3.993e+05	-33.07	8.13e-05	0.0	327.5	-578.54	-8294.67	-0.12	-7889.26	-33.07 -3.993e+05
92	5	2.049e+05	1.09	-0.03	-1.010e+04	0.0	-287.23	4631.69	-0.05	-6533.27	1.09 -1.423e+05
		-2.787e+05	-13.88	3.52e-05	0.0	327.5	-287.23	-5464.75	-0.05	-6533.27	-13.88 -2.787e+05
92	6	2.621e+05	2.91	-0.04	-1.276e+04	0.0	-349.47	5871.70	-0.06	-6396.98	2.91 -1.794e+05
		-3.453e+05	-17.65	4.32e-05	0.0	327.5	-349.47	-6885.22	-0.06	-6396.98	-17.65 -3.453e+05
92	7	1.968e+05	3.75	-0.04	-1.010e+04	0.0	-394.41	4804.17	-0.08	-6182.49	3.75 -1.766e+05
		-2.565e+05	-22.32	5.59e-05	0.0	327.5	-394.41	-5292.27	-0.08	-6182.49	-22.32 -2.565e+05
92	8	2.539e+05	5.56	-0.05	-1.276e+04	0.0	-456.65	6044.18	-0.10	-6046.21	5.56 -2.136e+05
		-3.231e+05	-26.09	6.38e-05	0.0	327.5	-456.65	-6712.74	-0.10	-6046.21	-26.09 -3.231e+05
92	9	3.776e+05	5.93	-0.06	-1.845e+04	0.0	-533.60	8558.72	-0.10	-8103.76	5.93 -2.705e+05
		-4.881e+05	-28.40	6.86e-05	0.0	327.5	-533.60	-9887.63	-0.10	-8103.76	-28.40 -4.881e+05
92	10	2.574e+05	4.16	-0.05	-1.313e+04	0.0	-484.15	6199.42	-0.09	-8130.78	4.16 -2.204e+05
		-3.394e+05	-26.76	6.71e-05	0.0	327.5	-484.15	-6925.94	-0.09	-8130.78	-26.76 -3.394e+05
92	11	3.716e+05	7.79	-0.07	-1.845e+04	0.0	-608.63	8679.45	-0.13	-7858.21	7.79 -2.945e+05
		-4.725e+05	-34.31	8.30e-05	0.0	327.5	-608.63	-9766.89	-0.13	-7858.21	-34.31 -4.725e+05
92	12	3.194e+05	4.72	-0.05	-1.542e+04	0.0	-411.70	7111.72	-0.08	-6260.70	4.72 -2.164e+05
		-4.119e+05	-21.42	5.11e-05	0.0	327.5	-411.70	-8305.70	-0.08	-6260.70	-21.42 -4.119e+05
92	13	1.986e+05	2.95	-0.04	-1.010e+04	0.0	-362.26	4752.42	-0.07	-6287.72	2.95 -1.663e+05
		-2.632e+05	-19.79	4.97e-05	0.0	327.5	-362.26	-5344.01	-0.07	-6287.72	-19.79 -2.632e+05
92	14	3.128e+05	6.57	-0.06	-1.542e+04	0.0	-486.73	7232.46	-0.10	-6015.16	6.57 -2.404e+05
		-3.963e+05	-27.33	6.56e-05	0.0	327.5	-486.73	-8184.96	-0.10	-6015.16	-27.33 -3.963e+05
92	15	2.027e+05	1.68	-0.03	-1.010e+04	0.0	-311.05	4670.02	-0.05	-6455.32	1.68 -1.499e+05
		-2.738e+05	-15.75	3.98e-05	0.0	327.5	-311.05	-5426.42	-0.05	-6455.32	-15.75 -2.738e+05
92	16	2.409e+05	2.89	-0.04	-1.187e+04	0.0	-352.54	5496.69	-0.06	-6364.46	2.89 -1.746e+05
		-3.182e+05	-18.27	4.51e-05	0.0	327.5	-352.54	-6373.40	-0.06	-6364.46	-18.27 -3.182e+05
92	17	1.975e+05	3.45	-0.04	-1.010e+04	0.0	-382.50	4785.00	-0.08	-6221.46	3.45 -1.728e+05
		-2.590e+05	-21.38	5.36e-05	0.0	327.5	-382.50	-5311.43	-0.08	-6221.46	-21.38 -2.590e+05
92	18	2.355e+05	4.66	-0.05	-1.187e+04	0.0	-423.99	5611.68	-0.09	-6130.61	4.66 -1.975e+05
		-3.034e+05	-23.90	5.89e-05	0.0	327.5	-423.99	-6258.42	-0.09	-6130.61	-23.90 -3.034e+05
92	19	2.791e+05	4.10	-0.05	-1.364e+04	0.0	-394.03	6323.37	-0.08	-6273.61	4.10 -1.993e+05
		-3.626e+05	-20.78	5.04e-05	0.0	327.5	-394.03	-7320.39	-0.08	-6273.61	-20.78 -3.626e+05
92	20	1.987e+05	2.92	-0.04	-1.010e+04	0.0	-361.07	4750.51	-0.07	-6291.62	2.92 -1.659e+05
		-2.634e+05	-19.69	4.94e-05	0.0	327.5	-361.07	-5345.93	-0.07	-6291.62	-19.69 -2.634e+05
92	21	2.748e+05	5.34	-0.05	-1.364e+04	0.0	-444.05	6403.86	-0.09	-6109.91	5.34 -2.153e+05
		-3.522e+05	-24.72	6.00e-05	0.0	327.5	-444.05	-7239.90	-0.09	-6109.91	-24.72 -3.522e+05
92	22	2.022e+05	3878.87	-0.05	-1.010e+04	0.0	-344.90	4943.88	29.24	-3.576e+05	-5696.80 -1.940e+05
		-2.282e+05	-5696.80	-0.02	0.0	327.5	-344.90	-5152.56	29.24	-3.576e+05	3878.87 -2.282e+05
92	23	1.998e+05	5699.38	-0.02	-1.010e+04	0.0	-365.12	4532.34	-29.39	3.437e+05	5699.38 -1.331e+05
		-3.021e+05	-3924.76	0.02	0.0	327.5	-365.12	-5564.09	-29.39	3.437e+05	-3924.76 -3.021e+05
92	24	4.302e+05	977.50	0.30	-1.010e+04	0.0	124.32	1.004e+04	-3.93	-1.410e+04	977.50 -1.203e+06
		-1.203e+06	-310.96	5.37e-03	0.0	327.5	124.32	-60.50	-3.93	-1.410e+04	-310.96 4.302e+05
92	25	1.126e+06	278.28	-0.37	-1.010e+04	0.0	-233.25	-1337.06	3.66	463.42	-920.08 1.126e+06
		-9.650e+05	-920.08	-5.18e-03	0.0	327.5	-233.25	-1.143e+04	3.66	463.42	278.28 -9.650e+05
92	26	2.022e+05	3850.77	-0.05	-1.010e+04	0.0	-366.02	4969.03	28.92	-2.614e+05	-5619.35 -1.981e+05
		-2.240e+05	-5619.35	-0.02	0.0	327.5	-366.02	-5127.40	28.92	-2.614e+05	3850.77 -2.240e+05
92	27	2.003e+05	5637.29	-0.02	-1.010e+04	0.0	-348.56	4509.14	-29.14	2.470e+05	5637.29 -1.293e+05
		-3.059e+05	-3905.71	0.02	0.0	327.5	-348.56	-5587.29	-29.14	2.470e+05	-3905.71 -3.059e+05
92	28	1.838e+05	617.23	0.20	-1.010e+04	0.0	-154.20	7339.35	-2.28	-1.135e+04	617.23 -6.890e+05
		-6.890e+05	-130.50	1.10e-03	0.0	327.5	-154.20	-2757.08	-2.28	-1.135e+04	-130.50 6.135e+04
92	29	4.746e+05	100.59	-0.27	-1.010e+04	0.0	-280.86	2004.89	2.16	-1402.33	-605.35 4.096e+05
		-5.871e+05	-605.35	-1.04e-03	0.0	327.5	-280.86	-8091.54	2.16	-1402.33	100.59 -5.871e+05
92	30	2.025e+05	3978.10	-0.05	-1.010e+04	0.0	-359.77	4928.96	29.83	-3.949e+05	-5790.41 -1.913e+05
		-2.304e+05	-5790.41	-0.03	0.0	327.5	-359.77	-5167.47	29.83	-3.949e+05	3978.10 -2.304e+05
92	31	1.993e+05	5769.84	-0.02	-1.010e+04	0.0	-344.74	4539.96	-29.86	3.796e+05	5769.84 -1.347e+05

		-3.012e+05	-4008.67	0.03	0.0	327.5	-344.74	-5556.47	-29.86	3.796e+05	-4008.67 -3.012e+05
92	32	4.262e+05	1085.29	0.29 -1.010e+04	0.0		-23.42	1.002e+04	-4.22	-1.382e+04	1085.29 -1.203e+06
		-1.203e+06	-295.36	4.74e-03	0.0	327.5	-23.42	-73.29	-4.22	-1.382e+04	-295.36 4.262e+05
92	33	1.014e+06	294.02	-0.36 -1.010e+04	0.0		-240.70	-946.53	4.21	315.23	-1083.98 1.014e+06
		-9.494e+05	-1083.98	-5.03e-03	0.0	327.5	-240.70	-1.104e+04	4.21	315.23	294.02 -9.494e+05
92	34	2.025e+05	3978.10	-0.05 -1.010e+04	0.0		-359.77	4928.96	29.83	-3.949e+05	-5790.41 -1.913e+05
		-2.304e+05	-5790.41	-0.03	0.0	327.5	-359.77	-5167.47	29.83	-3.949e+05	3978.10 -2.304e+05
92	35	1.993e+05	5769.84	-0.02 -1.010e+04	0.0		-344.74	4539.96	-29.86	3.796e+05	5769.84 -1.347e+05
		-3.012e+05	-4008.67	0.03	0.0	327.5	-344.74	-5556.47	-29.86	3.796e+05	-4008.67 -3.012e+05
92	36	2.559e+05	803.78	0.22 -1.010e+04	0.0		-161.74	8461.19	-2.93	-1.181e+04	803.78 -9.042e+05
		-9.042e+05	-156.36	1.31e-03	0.0	327.5	-161.74	-1635.24	-2.93	-1.181e+04	-156.36 2.136e+05
92	37	6.383e+05	123.54	-0.29 -1.010e+04	0.0		-201.22	888.24	2.73	-1170.46	-770.26 6.266e+05
		-7.358e+05	-770.26	-1.18e-03	0.0	327.5	-201.22	-9208.19	2.73	-1170.46	123.54 -7.358e+05
92	38	2.027e+05	1.68	-0.03 -1.010e+04	0.0		-311.05	4670.02	-0.05	-6455.32	1.68 -1.499e+05
		-2.738e+05	-15.75	3.98e-05	0.0	327.5	-311.05	-5426.42	-0.05	-6455.32	-15.75 -2.738e+05
92	39	1.987e+05	2.92	-0.04 -1.010e+04	0.0		-361.07	4750.51	-0.07	-6291.62	2.92 -1.659e+05
		-2.634e+05	-19.69	4.94e-05	0.0	327.5	-361.07	-5345.93	-0.07	-6291.62	-19.69 -2.634e+05
92	40	2.180e+05	2.17	-0.04 -1.081e+04	0.0		-327.65	5000.69	-0.06	-6418.97	2.17 -1.598e+05
		-2.916e+05	-16.76	4.19e-05	0.0	327.5	-327.65	-5805.21	-0.06	-6418.97	-16.76 -2.916e+05
92	41	1.991e+05	2.75	-0.04 -1.010e+04	0.0		-353.92	4739.01	-0.07	-6315.01	2.75 -1.636e+05
		-2.649e+05	-19.13	4.81e-05	0.0	327.5	-353.92	-5357.43	-0.07	-6315.01	-19.13 -2.649e+05
92	42	2.143e+05	3.23	-0.04 -1.081e+04	0.0		-370.52	5069.68	-0.07	-6278.66	3.23 -1.735e+05
		-2.827e+05	-20.14	5.02e-05	0.0	327.5	-370.52	-5736.22	-0.07	-6278.66	-20.14 -2.827e+05
92	43	2.027e+05	1.68	-0.03 -1.010e+04	0.0		-311.05	4670.02	-0.05	-6455.32	1.68 -1.499e+05
		-2.738e+05	-15.75	3.98e-05	0.0	327.5	-311.05	-5426.42	-0.05	-6455.32	-15.75 -2.738e+05
92	44	1.991e+05	2.75	-0.04 -1.010e+04	0.0		-353.92	4739.01	-0.07	-6315.01	2.75 -1.636e+05
		-2.649e+05	-19.13	4.81e-05	0.0	327.5	-353.92	-5357.43	-0.07	-6315.01	-19.13 -2.649e+05
92	45	2.027e+05	1.68	-0.03 -1.010e+04	0.0		-311.05	4670.02	-0.05	-6455.32	1.68 -1.499e+05
		-2.738e+05	-15.75	3.98e-05	0.0	327.5	-311.05	-5426.42	-0.05	-6455.32	-15.75 -2.738e+05
92	46	1.991e+05	2.75	-0.04 -1.010e+04	0.0		-353.92	4739.01	-0.07	-6315.01	2.75 -1.636e+05
		-2.649e+05	-19.13	4.81e-05	0.0	327.5	-353.92	-5357.43	-0.07	-6315.01	-19.13 -2.649e+05

Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T	
	-1.476e+06	-5790.41	-0.42	-3.190e+04		-2782.83	-1.559e+04	-29.86	-5.523e+05	
	1.476e+06	5795.31	0.41	0.0		2759.49	1.653e+04	29.84	5.539e+05	

Trave f.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN/cm2	cm	daN	daN	daN	daN cm	daN cm	daN cm
1	1	1.396e+06	2499.48	0.05	-0.62	0.0	-59.89	-1.415e+04	7.71	-8583.60	-2521.86	1.396e+06
		-1.223e+06	-2521.86	-2.35e-03		651.3	-59.89	9718.53	7.71	-1.386e+04	2499.48	7.165e+04
1	2	1.504e+06	2914.44	0.05	-0.65	0.0	-58.69	-1.511e+04	9.04	-1.095e+04	-2971.14	1.504e+06
		-1.293e+06	-2971.14	-2.83e-03		651.3	-58.69	1.029e+04	9.04	-1.613e+04	2914.44	7.408e+04
1	3	1.732e+06	2675.26	0.06	-0.71	0.0	-50.35	-1.710e+04	8.21	-1.152e+04	-2670.12	1.732e+06
		-1.440e+06	-2670.12	-2.90e-03		651.3	-50.35	1.147e+04	8.21	-1.743e+04	2675.26	7.812e+04
1	4	1.840e+06	3090.22	0.07	-0.74	0.0	-49.14	-1.806e+04	9.53	-1.389e+04	-3119.40	1.840e+06
		-1.511e+06	-3119.40	-3.38e-03		651.3	-49.14	1.203e+04	9.53	-1.970e+04	3090.22	8.055e+04
1	5	9.875e+05	1877.61	0.03	-0.45	0.0	-48.52	-1.013e+04	5.80	-5849.76	-1901.88	9.875e+05
		-8.847e+05	-1901.88	-1.67e-03		651.3	-48.52	7027.94	5.80	-9743.52	1877.61	5.345e+04
1	6	1.096e+06	2292.57	0.04	-0.48	0.0	-47.32	-1.108e+04	7.13	-8214.72	-2351.16	1.096e+06
		-9.554e+05	-2351.16	-2.14e-03		651.3	-47.32	7595.67	7.13	-1.201e+04	2292.57	5.589e+04
1	7	1.324e+06	2053.39	0.05	-0.55	0.0	-38.97	-1.308e+04	6.30	-8786.48	-2050.14	1.324e+06
		-1.102e+06	-2050.14	-2.22e-03		651.3	-38.97	8774.56	6.30	-1.332e+04	2053.39	5.992e+04
1	8	1.432e+06	2468.35	0.05	-0.58	0.0	-37.77	-1.403e+04	7.63	-1.115e+04	-2499.42	1.432e+06
		-1.173e+06	-2499.42	-2.70e-03		651.3	-37.77	9342.29	7.63	-1.559e+04	2468.35	6.236e+04
1	9	1.612e+06	3329.40	0.06	-0.68	0.0	-57.49	-1.606e+04	10.36	-1.331e+04	-3420.42	1.612e+06
		-1.364e+06	-3420.42	-3.30e-03		651.3	-57.49	1.085e+04	10.36	-1.840e+04	3329.40	7.652e+04
1	10	1.631e+06	2622.53	0.06	-0.69	0.0	-53.21	-1.622e+04	8.06	-1.064e+04	-2625.65	1.631e+06
		-1.375e+06	-2625.65	-2.74e-03		651.3	-53.21	1.094e+04	8.06	-1.636e+04	2622.53	7.618e+04
1	11	1.847e+06	3452.45	0.07	-0.74	0.0	-50.81	-1.812e+04	10.71	-1.537e+04	-3524.20	1.847e+06
		-1.516e+06	-3524.20	-3.69e-03		651.3	-50.81	1.208e+04	10.71	-2.090e+04	3452.45	8.105e+04
1	12	1.204e+06	2707.53	0.04	-0.51	0.0	-46.11	-1.204e+04	8.46	-1.058e+04	-2800.44	1.204e+06
		-1.026e+06	-2800.44	-2.62e-03		651.3	-46.11	8163.40	8.46	-1.429e+04	2707.53	5.833e+04
1	13	1.223e+06	2000.65	0.04	-0.52	0.0	-41.84	-1.220e+04	6.15	-7905.47	-2005.66	1.223e+06
		-1.037e+06	-2005.66	-2.05e-03		651.3	-41.84	8250.58	6.15	-1.224e+04	2000.65	5.798e+04
1	14	1.439e+06	2830.57	0.05	-0.58	0.0	-39.43	-1.410e+04	8.81	-1.264e+04	-2904.22	1.439e+06
		-1.178e+06	-2904.22	-3.01e-03		651.3	-39.43	9386.04	8.81	-1.679e+04	2830.57	6.286e+04
1	15	1.062e+06	1916.67	0.04	-0.47	0.0	-46.40	-1.079e+04	5.91	-6502.37	-1934.82	1.062e+06
		-9.331e+05	-1934.82	-1.79e-03		651.3	-46.40	7416.08	5.91	-1.054e+04	1916.67	5.489e+04
1	16	1.134e+06	2193.31	0.04	-0.49	0.0	-45.60	-1.142e+04	6.80	-8079.00	-2234.34	1.134e+06
		-9.802e+05	-2234.34	-2.11e-03		651.3	-45.60	7794.57	6.80	-1.205e+04	2193.31	5.651e+04
1	17	1.286e+06	2033.86	0.05	-0.54	0.0	-40.03	-1.275e+04	6.25	-8460.18	-2033.67	1.286e+06
		-1.078e+06	-2033.67	-2.16e-03		651.3	-40.03	8580.49	6.25	-1.292e+04	2033.86	5.921e+04
1	18	1.358e+06	2310.50	0.05	-0.56	0.0	-39.23	-1.339e+04	7.13	-1.004e+04	-2333.19	1.358e+06
		-1.125e+06	-2333.19	-2.48e-03		651.3	-39.23	8958.98	7.13	-1.443e+04	2310.50	6.083e+04
1	19	1.206e+06	2469.95	0.04	-0.51	0.0	-44.80	-1.206e+04	7.68	-9655.64	-2533.86	1.206e+06
		-1.027e+06	-2533.86	-2.43e-03		651.3	-44.80	8173.05	7.68	-1.357e+04	2469.95	5.814e+04

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1   20 1.219e+06    1998.70      0.04    -0.52    0.0    -41.94 -1.216e+04     6.15  -7872.83    -2004.01 1.219e+06
      -1.035e+06   -2004.01   -2.05e-03           651.3    -41.94   8231.17     6.15 -1.220e+04    1998.70 5.791e+04
1   21 1.363e+06    2551.98      0.05    -0.56    0.0    -40.34 -1.343e+04     7.92 -1.103e+04    -2603.05 1.363e+06
      -1.129e+06   -2603.05   -2.68e-03           651.3    -40.34   8988.14     7.92 -1.523e+04    2551.98 6.116e+04
1   22 1.546e+06  6.185e+04     -0.21    -0.47    0.0   -339.70  -5371.97  -225.40 3.676e+04  6.185e+04   -3253.84
      -5.117e+05 -8.494e+04    3.63e-03           651.3   -339.70   8184.17  -225.40 3.707e+04 -8.494e+04 1.546e+06
1   23 2.374e+06  8.917e+04     -0.15    -0.71    0.0    266.43 -1.862e+04   238.97 -5.022e+04 -6.645e+04 2.374e+06
      -2.160e+06 -6.645e+04   -6.89e-03           651.3    266.43   7934.80   238.97 -5.909e+04  8.917e+04 -1.506e+06
1   24 6.972e+05  9.207e+04      0.15    -0.19    0.0   1119.27  -1187.92  -267.67 2.586e+04  9.207e+04 6.972e+05
      -3.363e+05 -8.225e+04      0.03            651.3   1119.27  -3471.14  -267.67 6.332e+04 -8.225e+04 -3.363e+05
1   25 1.652e+06  8.334e+04      0.10    -1.01    0.0  -1216.57 -2.257e+04   270.83 -6.602e+04 -9.304e+04 1.652e+06
      -2.344e+06 -9.304e+04     -0.04            651.3  -1216.57   1.979e+04  270.83 -1.113e+05  8.334e+04 4.702e+05
1   26 1.543e+06  6.742e+04     -0.20    -0.47    0.0   -271.23  -5273.54  -244.55 3.288e+04  6.742e+04 -7.941e+04
      -5.699e+05 -9.185e+04    3.46e-03           651.3   -271.23   8407.54  -244.55 3.305e+04 -9.185e+04 1.543e+06
1   27 2.445e+06  9.596e+04      0.14    -0.70    0.0    167.97 -1.871e+04   257.79 -4.675e+04 -7.193e+04 2.445e+06
      -2.129e+06 -7.193e+04   -6.68e-03           651.3    167.97   7727.28   257.79 -5.549e+04  9.596e+04 -1.500e+06
1   28 8.439e+05  6.067e+04      0.12    -0.28    0.0    780.99  -4184.24  -176.29 2.415e+04  6.067e+04 8.439e+05
      -2.319e+05 -5.414e+04      0.02            651.3    780.99   -314.76  -176.29 4.848e+04 -5.414e+04 -2.319e+05
1   29 1.522e+06  5.949e+04      0.08    -0.86    0.0   -871.93 -1.952e+04   193.03 -4.671e+04 -6.623e+04 1.522e+06
      -1.964e+06 -6.623e+04     -0.03            651.3   -871.93   1.642e+04  193.03 -7.789e+04  5.949e+04 3.472e+05
1   30 1.500e+06  7.285e+04     -0.21    -0.47    0.0    114.81  -5475.85  -262.58 3.798e+04  7.285e+04 1.703e+04
      -5.115e+05 -9.816e+04    4.51e-03           651.3    114.81   8071.66  -262.58 3.835e+04 -9.816e+04 1.500e+06
1   31 2.371e+06  1.026e+05     -0.15    -0.71    0.0   -151.25 -1.857e+04   276.69 -4.991e+04 -7.761e+04 2.371e+06
      -2.129e+06 -7.761e+04   -7.59e-03           651.3   -151.25   7994.98   276.69 -5.884e+04  1.026e+05 -1.463e+06
1   32 7.045e+05  7.979e+04     -0.14    -0.20    0.0   1060.05  -1418.57  -231.71 2.397e+04  7.979e+04 7.045e+05
      -3.262e+05 -7.111e+04      0.03            651.3   1060.05  -3199.77  -231.71 6.017e+04 -7.111e+04 -3.262e+05
1   33 1.638e+06  7.120e+04      0.10    -1.00    0.0  -1168.86 -2.240e+04   231.70 -6.708e+04 -7.970e+04 1.638e+06
      -2.326e+06 -7.970e+04     -0.03            651.3  -1168.86   1.964e+04  231.70 -1.117e+05  7.120e+04 4.682e+05
1   34 1.500e+06  7.285e+04     -0.21    -0.47    0.0    114.81  -5475.85  -262.58 3.798e+04  7.285e+04 1.703e+04
      -5.115e+05 -9.816e+04    4.51e-03           651.3    114.81   8071.66  -262.58 3.835e+04 -9.816e+04 1.500e+06
1   35 2.371e+06  1.026e+05     -0.15    -0.71    0.0   -151.25 -1.857e+04   276.69 -4.991e+04 -7.761e+04 2.371e+06
      -2.129e+06 -7.761e+04   -7.59e-03           651.3   -151.25   7994.98   276.69 -5.884e+04  1.026e+05 -1.463e+06
1   36 8.081e+05  5.899e+04     -0.12    -0.25    0.0    837.71  -3423.66  -171.21 2.735e+04  5.899e+04 8.081e+05
      -2.605e+05 -5.251e+04      0.02            651.3    837.71  -1132.20  -171.21 5.411e+04 -5.251e+04 -2.605e+05
1   37 1.552e+06  5.543e+04      0.08    -0.88    0.0   -905.81 -2.013e+04   180.10 -5.029e+04 -6.186e+04 1.552e+06
      -2.037e+06 -6.186e+04     -0.02            651.3   -905.81   1.706e+04  180.10 -8.296e+04  5.543e+04 3.700e+05
1   38 1.062e+06    1916.67      0.04    -0.47    0.0    -46.40 -1.079e+04     5.91  -6502.37    -1934.82 1.062e+06
      -9.331e+05   -1934.82   -1.79e-03           651.3    -46.40   7416.08     5.91 -1.054e+04    1916.67 5.489e+04
1   39 1.219e+06    1998.70      0.04    -0.52    0.0    -41.94 -1.216e+04     6.15  -7872.83    -2004.01 1.219e+06
      -1.035e+06   -2004.01   -2.05e-03           651.3    -41.94   8231.17     6.15 -1.220e+04    1998.70 5.791e+04
1   40 1.091e+06    2027.33      0.04    -0.48    0.0    -46.08 -1.104e+04     6.27  -7133.02    -2054.63 1.091e+06
      -9.520e+05   -2054.63   -1.92e-03           651.3    -46.08   7567.47     6.27 -1.114e+04    2027.33 5.554e+04
1   41 1.197e+06    1986.98      0.04    -0.51    0.0    -42.58 -1.197e+04     6.11  -7677.05    -1994.13 1.197e+06
      -1.020e+06   -1994.13   -2.01e-03           651.3    -42.58   8114.73     6.11 -1.197e+04    1986.98 5.748e+04
1   42 1.226e+06    2097.64      0.04    -0.52    0.0    -42.26 -1.222e+04     6.47  -8307.71    -2113.94 1.226e+06
      -1.039e+06   -2113.94   -2.14e-03           651.3    -42.26   8266.12     6.47 -1.257e+04    2097.64 5.813e+04
1   43 1.062e+06    1916.67      0.04    -0.47    0.0    -46.40 -1.079e+04     5.91  -6502.37    -1934.82 1.062e+06
      -9.331e+05   -1934.82   -1.79e-03           651.3    -46.40   7416.08     5.91 -1.054e+04    1916.67 5.489e+04
1   44 1.197e+06    1986.98      0.04    -0.51    0.0    -42.58 -1.197e+04     6.11  -7677.05    -1994.13 1.197e+06
      -1.020e+06   -1994.13   -2.01e-03           651.3    -42.58   8114.73     6.11 -1.197e+04    1986.98 5.748e+04
1   45 1.062e+06    1916.67      0.04    -0.47    0.0    -46.40 -1.079e+04     5.91  -6502.37    -1934.82 1.062e+06
      -9.331e+05   -1934.82   -1.79e-03           651.3    -46.40   7416.08     5.91 -1.054e+04    1916.67 5.489e+04
1   46 1.197e+06    1986.98      0.04    -0.51    0.0    -42.58 -1.197e+04     6.11  -7677.05    -1994.13 1.197e+06
      -1.020e+06   -1994.13   -2.01e-03           651.3    -42.58   8114.73     6.11 -1.197e+04    1986.98 5.748e+04
2    1 1.363e+06    2554.22      0.05    -0.62    0.0    -59.60  -9646.12    -8.00 1.369e+04    2554.22 7.012e+04
      -1.207e+06   -2610.55    2.32e-03           645.8    -59.60   1.402e+04   -8.00  8451.19    -2610.55 1.363e+06
2    2 1.469e+06    2969.39      0.05    -0.65    0.0    -58.32 -1.021e+04    -9.34 1.595e+04    2969.39 7.247e+04
      -1.277e+06   -3058.75    2.79e-03           645.8    -58.32   1.496e+04   -9.34 1.080e+04    -3058.75 1.469e+06
2    3 1.691e+06    2752.41      0.06    -0.71    0.0    -50.07 -1.138e+04    -8.60 1.724e+04    2752.41 7.636e+04
      -1.422e+06   -2803.82    2.87e-03           645.8    -50.07   1.694e+04   -8.60 1.137e+04    -2803.82 1.691e+06
2    4 1.797e+06    3167.58      0.07    -0.74    0.0    -48.79 -1.194e+04    -9.94 1.950e+04    3167.58 7.871e+04
      -1.491e+06   -3252.02    3.34e-03           645.8    -48.79   1.788e+04   -9.94 1.372e+04    -3252.02 1.797e+06
2    5 9.646e+05    1913.97      0.03    -0.45    0.0    -48.29  -6976.38    -6.00  9617.81    1913.97 5.234e+04
      -8.734e+05   -1958.56    1.64e-03           645.8    -48.29   1.004e+04   -6.00  5752.16    -1958.56 9.646e+05
2    6 1.070e+06    2329.14      0.04    -0.48    0.0    -47.01  -7538.79    -7.33 1.188e+04    2329.14 5.469e+04
      -9.430e+05   -2406.76    2.12e-03           645.8    -47.01   1.098e+04   -7.33  8103.60    -2406.76 1.070e+06
2    7 1.293e+06    2112.16      0.05    -0.55    0.0    -38.76  -8706.84    -6.60 1.317e+04    2112.16 5.858e+04
      -1.088e+06   -2151.83    2.19e-03           645.8    -38.76   1.295e+04   -6.60  8672.29    -2151.83 1.293e+06
2    8 1.398e+06    2527.33      0.05    -0.58    0.0    -37.48  -9269.25    -7.94 1.543e+04    2527.33 6.093e+04
      -1.158e+06   -2600.03    2.66e-03           645.8    -37.48   1.390e+04   -7.94 1.102e+04    -2600.03 1.398e+06
2    9 1.574e+06    3384.56      0.06    -0.68    0.0    -57.04 -1.077e+04   -10.67 1.821e+04    3384.56 7.483e+04
      -1.346e+06   -3506.95    3.26e-03           645.8    -57.04   1.590e+04  -10.67 1.315e+04    -3506.95 1.574e+06
2   10 1.593e+06    2692.96      0.06    -0.68    0.0    -52.93 -1.086e+04    -8.42 1.617e+04    2692.96 7.449e+04
      -1.357e+06   -2745.84    2.70e-03           645.8    -52.93   1.606e+04   -8.42 1.050e+04    -2745.84 1.593e+06
2   11 1.804e+06    3523.30      0.07    -0.74    0.0    -50.37 -1.198e+04   -11.10 2.070e+04    3523.30 7.919e+04
      -1.497e+06   -3642.24    3.65e-03           645.8    -50.37   1.795e+04  -11.10 1.520e+04    -3642.24 1.804e+06
2   12 1.175e+06    2744.31      0.04    -0.51    0.0    -45.73  -8101.20    -8.67 1.414e+04    2744.31 5.705e+04
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		-1.013e+06	-2854.96	2.59e-03		645.8	-45.73	1.192e+04	-8.67	1.046e+04	-2854.96	1.175e+06
2	13	1.194e+06	2052.70	0.04	-0.52	0.0	-41.62	-8187.70	-6.42	1.211e+04	2052.70	5.671e+04
		-1.024e+06	-2093.85	2.03e-03		645.8	-41.62	1.208e+04	-6.42	7796.25	-2093.85	1.194e+06
2	14	1.405e+06	2883.04	0.05	-0.58	0.0	-39.06	-9312.52	-9.10	1.663e+04	2883.04	6.141e+04
		-1.163e+06	-2990.25	2.97e-03		645.8	-39.06	1.396e+04	-9.10	1.250e+04	-2990.25	1.405e+06
2	15	1.037e+06	1958.01	0.04	-0.47	0.0	-46.18	-7360.93	-6.13	1.041e+04	1958.01	5.373e+04
		-9.211e+05	-2001.51	1.77e-03		645.8	-46.18	1.069e+04	-6.13	6401.08	-2001.51	1.037e+06
2	16	1.108e+06	2234.79	0.04	-0.49	0.0	-45.32	-7735.87	-7.02	1.192e+04	2234.79	5.529e+04
		-9.675e+05	-2300.31	2.08e-03		645.8	-45.32	1.131e+04	-7.02	7968.71	-2300.31	1.108e+06
2	17	1.256e+06	2090.14	0.05	-0.54	0.0	-39.82	-8514.57	-6.54	1.278e+04	2090.14	5.788e+04
		-1.064e+06	-2130.35	2.13e-03		645.8	-39.82	1.263e+04	-6.54	8347.83	-2130.35	1.256e+06
2	18	1.326e+06	2366.92	0.05	-0.56	0.0	-38.97	-8889.51	-7.43	1.428e+04	2366.92	5.945e+04
		-1.111e+06	-2429.16	2.45e-03		645.8	-38.97	1.326e+04	-7.43	9915.46	-2429.16	1.326e+06
2	19	1.178e+06	2511.57	0.04	-0.51	0.0	-44.46	-8110.81	-7.91	1.342e+04	2511.57	5.686e+04
		-1.014e+06	-2599.11	2.39e-03		645.8	-44.46	1.194e+04	-7.91	9536.33	-2599.11	1.178e+06
2	20	1.191e+06	2050.50	0.04	-0.52	0.0	-41.73	-8168.48	-6.41	1.207e+04	2050.50	5.664e+04
		-1.021e+06	-2091.70	2.02e-03		645.8	-41.73	1.205e+04	-6.41	7763.81	-2091.70	1.191e+06
2	21	1.331e+06	2604.06	0.05	-0.56	0.0	-40.02	-8918.36	-8.20	1.508e+04	2604.06	5.977e+04
		-1.114e+06	-2689.30	2.65e-03		645.8	-40.02	1.330e+04	-8.20	1.090e+04	-2689.30	1.331e+06
2	22	2.321e+06	8.974e+04	-0.15	-0.71	0.0	287.24	-7877.21	-242.61	6.012e+04	8.974e+04	-1.504e+06
		-2.148e+06	-6.693e+04	6.38e-03		645.8	287.24	1.849e+04	-242.61	5.129e+04	-6.693e+04	2.321e+06
2	23	1.544e+06	6.214e+04	-0.21	-0.47	0.0	-360.41	-8120.76	228.43	-3.839e+04	-8.537e+04	1.544e+06
		-4.973e+05	-8.537e+04	-2.61e-03		645.8	-360.41	5277.37	228.43	-3.808e+04	6.214e+04	-7870.42
2	24	6.675e+05	9.636e+04	-0.15	-0.19	0.0	1105.82	3499.39	284.61	-6.492e+04	-8.743e+04	-3.230e+05
		-3.230e+05	-8.743e+04	-0.03		645.8	1105.82	1061.16	284.61	-2.766e+04	9.636e+04	6.675e+05
2	25	1.625e+06	8.834e+04	0.10	-1.01	0.0	-1202.81	-1.970e+04	-287.31	1.131e+05	8.834e+04	4.554e+05
		-2.324e+06	-9.719e+04	0.04		645.8	-1202.81	2.247e+04	-287.31	6.802e+04	-9.719e+04	1.625e+06
2	26	2.394e+06	9.657e+04	-0.14	-0.70	0.0	188.08	-7665.68	-261.73	5.641e+04	9.657e+04	-1.499e+06
		-2.117e+06	-7.244e+04	6.01e-03		645.8	188.08	1.857e+04	-261.73	4.771e+04	-7.244e+04	2.394e+06
2	27	1.540e+06	6.777e+04	-0.20	-0.47	0.0	-291.19	-8350.12	247.95	-3.422e+04	-9.234e+04	1.540e+06
		-5.569e+05	-9.234e+04	-2.24e-03		645.8	-291.19	5174.12	247.95	-3.403e+04	6.777e+04	-8.612e+04
2	28	8.174e+05	6.048e+04	-0.12	-0.27	0.0	769.31	326.62	178.26	-4.846e+04	-5.463e+04	-2.272e+05
		-2.272e+06	-5.463e+04	-0.02		645.8	769.31	4092.99	178.26	-2.433e+04	6.048e+04	8.174e+05
2	29	1.493e+06	6.004e+04	0.08	-0.85	0.0	-859.68	-1.631e+04	-195.37	7.775e+04	6.004e+04	3.401e+05
		-1.940e+06	-6.611e+04	0.02		645.8	-859.68	1.938e+04	-195.37	4.679e+04	-6.611e+04	1.493e+06
2	30	2.319e+06	1.032e+05	-0.15	-0.71	0.0	-132.50	-7935.77	-280.87	5.981e+04	1.032e+05	-1.462e+06
		-2.117e+06	-7.815e+04	6.95e-03		645.8	-132.50	1.843e+04	-280.87	5.094e+04	-7.815e+04	2.319e+06
2	31	1.498e+06	7.322e+04	-0.21	-0.47	0.0	96.47	-8007.86	266.19	-3.968e+04	-9.867e+04	1.498e+06
		-4.973e+05	-9.867e+04	-3.42e-03		645.8	96.47	5380.82	266.19	-3.930e+04	7.322e+04	1.206e+04
2	32	6.756e+05	8.373e+04	-0.15	-0.20	0.0	1047.50	3228.04	247.09	-6.174e+04	-7.583e+04	-3.142e+05
		-3.142e+05	-7.583e+04	-0.03		645.8	1047.50	1296.48	247.09	-2.573e+04	8.373e+04	6.756e+05
2	33	1.612e+06	7.588e+04	0.10	-1.01	0.0	-1156.14	-1.956e+04	-247.03	1.135e+05	7.588e+04	4.543e+05
		-2.305e+06	-8.363e+04	0.03		645.8	-1156.14	2.229e+04	-247.03	6.906e+04	-8.363e+04	1.612e+06
2	34	2.319e+06	1.032e+05	-0.15	-0.71	0.0	-132.50	-7935.77	-280.87	5.981e+04	1.032e+05	-1.462e+06
		-2.117e+06	-7.815e+04	6.95e-03		645.8	-132.50	1.843e+04	-280.87	5.094e+04	-7.815e+04	2.319e+06
2	35	1.498e+06	7.322e+04	-0.21	-0.47	0.0	96.47	-8007.86	266.19	-3.968e+04	-9.867e+04	1.498e+06
		-4.973e+05	-9.867e+04	-3.42e-03		645.8	96.47	5380.82	266.19	-3.930e+04	7.322e+04	1.206e+04
2	36	7.823e+05	5.903e+04	-0.12	-0.25	0.0	825.94	1142.07	173.82	-5.404e+04	-5.321e+04	-2.553e+05
		-2.553e+06	-5.321e+04	-0.02		645.8	825.94	3334.54	173.82	-2.749e+04	5.903e+04	7.823e+05
2	37	1.523e+06	5.611e+04	0.08	-0.88	0.0	-893.45	-1.695e+04	-182.76	8.278e+04	5.611e+04	3.625e+05
		-2.012e+06	-6.191e+04	0.02		645.8	-893.45	1.999e+04	-182.76	5.036e+04	-6.191e+04	1.523e+06
2	38	1.037e+06	1958.01	0.04	-0.47	0.0	-46.18	-7360.93	-6.13	1.041e+04	1958.01	5.373e+04
		-9.211e+05	-2001.51	1.77e-03		645.8	-46.18	1.069e+04	-6.13	6401.08	-2001.51	1.037e+06
2	39	1.191e+06	2050.50	0.04	-0.52	0.0	-41.73	-8168.48	-6.41	1.207e+04	2050.50	5.664e+04
		-1.021e+06	-2091.70	2.02e-03		645.8	-41.73	1.205e+04	-6.41	7763.81	-2091.70	1.191e+06
2	40	1.066e+06	2068.72	0.04	-0.48	0.0	-45.83	-7510.91	-6.49	1.101e+04	2068.72	5.435e+04
		-9.397e+05	-2121.03	1.89e-03		645.8	-45.83	1.094e+04	-6.49	7028.13	-2121.03	1.066e+06
2	41	1.169e+06	2037.29	0.04	-0.51	0.0	-42.36	-8053.11	-6.37	1.183e+04	2037.29	5.622e+04
		-1.007e+06	-2078.81	1.99e-03		645.8	-42.36	1.185e+04	-6.37	7569.13	-2078.81	1.169e+06
2	42	1.197e+06	2148.00	0.04	-0.52	0.0	-42.02	-8203.09	-6.73	1.243e+04	2148.00	5.685e+04
		-1.026e+06	-2198.34	2.11e-03		645.8	-42.02	1.210e+04	-6.73	8196.18	-2198.34	1.197e+06
2	43	1.037e+06	1958.01	0.04	-0.47	0.0	-46.18	-7360.93	-6.13	1.041e+04	1958.01	5.373e+04
		-9.211e+05	-2001.51	1.77e-03		645.8	-46.18	1.069e+04	-6.13	6401.08	-2001.51	1.037e+06
2	44	1.169e+06	2037.29	0.04	-0.51	0.0	-42.36	-8053.11	-6.37	1.183e+04	2037.29	5.622e+04
		-1.007e+06	-2078.81	1.99e-03		645.8	-42.36	1.185e+04	-6.37	7569.13	-2078.81	1.169e+06
2	45	1.037e+06	1958.01	0.04	-0.47	0.0	-46.18	-7360.93	-6.13	1.041e+04	1958.01	5.373e+04
		-9.211e+05	-2001.51	1.77e-03		645.8	-46.18	1.069e+04	-6.13	6401.08	-2001.51	1.037e+06
2	46	1.169e+06	2037.29	0.04	-0.51	0.0	-42.36	-8053.11	-6.37	1.183e+04	2037.29	5.622e+04
		-1.007e+06	-2078.81	1.99e-03		645.8	-42.36	1.185e+04	-6.37	7569.13	-2078.81	1.169e+06
3	1	1.450e+06	4514.62	0.05	-0.60	0.0	-162.48	-1.384e+04	13.78	-4261.77	-4459.97	1.450e+06
		-1.134e+06	-4459.97	-1.47e-03		651.3	-162.48	8938.50	13.78	-4473.70	4514.62	3.477e+04
3	2	1.583e+06	5145.17	0.06	-0.64	0.0	-162.53	-1.493e+04	15.72	-5018.35	-5091.65	1.583e+06
		-1.207e+06	-5091.65	-1.70e-03		651.3	-162.53	9513.46	15.72	-5179.55	5145.17	3.236e+04
3	3	1.839e+06	5344.35	0.07	-0.70	0.0	-163.42	-1.702e+04	16.34	-7304.35	-5295.07	1.839e+06
		-1.352e+06	-5295.07	-2.09e-03		651.3	-163.42	1.063e+04	16.34	-7245.86	5344.35	2.810e+04
3	4	1.972e+06	5974.89	0.08	-0.74	0.0	-163.47	-1.810e+04	18.28	-8060.94	-5926.75	1.972e+06
		-1.427e+06	-5926.75	-2.32e-03		651.3	-163.47	1.121e+04	18.28	-7951.71	5974.89	2.568e+04

3	5	1.016e+06	3260.04	0.04	-0.44	0.0	-124.74	-9833.51	9.94	-2498.13	-3216.62	1.016e+06
		-8.168e+05	-3216.62	-9.75e-04		651.3	-124.74	6441.90	9.94	-2730.50	3260.04	2.846e+04
3	6	1.149e+06	3890.58	0.04	-0.47	0.0	-124.79	-1.092e+04	11.88	-3254.72	-3848.30	1.149e+06
		-8.899e+05	-3848.30	-1.20e-03		651.3	-124.79	7016.87	11.88	-3436.35	3890.58	2.605e+04
3	7	1.404e+06	4089.76	0.06	-0.54	0.0	-125.68	-1.301e+04	12.50	-5540.72	-4051.72	1.404e+06
		-1.034e+06	-4051.72	-1.59e-03		651.3	-125.68	8133.97	12.50	-5502.66	4089.76	2.179e+04
3	8	1.538e+06	4720.30	0.06	-0.57	0.0	-125.73	-1.409e+04	14.44	-6297.30	-4683.40	1.538e+06
		-1.109e+06	-4683.40	-1.82e-03		651.3	-125.73	8708.93	14.44	-6208.51	4720.30	1.937e+04
3	9	1.716e+06	5775.71	0.07	-0.67	0.0	-162.58	-1.601e+04	17.66	-5774.93	-5723.33	1.716e+06
		-1.282e+06	-5723.33	-1.93e-03		651.3	-162.58	1.009e+04	17.66	-5885.40	5775.71	2.994e+04
3	10	1.722e+06	5095.43	0.07	-0.67	0.0	-163.14	-1.607e+04	15.57	-6391.58	-5044.54	1.722e+06
		-1.286e+06	-5044.54	-1.91e-03		651.3	-163.14	1.012e+04	15.57	-6414.21	5095.43	3.010e+04
3	11	1.988e+06	6356.51	0.08	-0.74	0.0	-163.24	-1.824e+04	19.45	-7904.74	-6307.90	1.988e+06
		-1.436e+06	-6307.90	-2.36e-03		651.3	-163.24	1.127e+04	19.45	-7825.91	6356.51	2.527e+04
3	12	1.282e+06	4521.12	0.05	-0.51	0.0	-124.84	-1.200e+04	13.82	-4011.30	-4479.98	1.282e+06
		-9.643e+05	-4479.98	-1.43e-03		651.3	-124.84	7591.83	13.82	-4142.19	4521.12	2.363e+04
3	13	1.288e+06	3840.84	0.05	-0.51	0.0	-125.40	-1.206e+04	11.73	-4627.94	-3801.19	1.288e+06
		-9.686e+05	-3801.19	-1.41e-03		651.3	-125.40	7626.35	11.73	-4671.01	3840.84	2.379e+04
3	14	1.554e+06	5101.93	0.07	-0.58	0.0	-125.50	-1.423e+04	15.61	-6141.11	-5064.55	1.554e+06
		-1.118e+06	-5064.55	-1.86e-03		651.3	-125.50	8776.28	15.61	-6082.71	5101.93	1.896e+04
3	15	1.102e+06	3444.42	0.04	-0.46	0.0	-124.95	-1.054e+04	10.51	-3174.26	-3402.20	1.102e+06
		-8.646e+05	-3402.20	-1.11e-03		651.3	-124.95	6817.92	10.51	-3346.53	3444.42	2.698e+04
3	16	1.191e+06	3864.78	0.05	-0.48	0.0	-124.98	-1.126e+04	11.81	-3678.65	-3823.32	1.191e+06
		-9.135e+05	-3823.32	-1.26e-03		651.3	-124.98	7201.23	11.81	-3817.10	3864.78	2.537e+04
3	17	1.361e+06	3997.57	0.05	-0.53	0.0	-125.58	-1.266e+04	12.22	-5202.65	-3958.93	1.361e+06
		-1.010e+06	-3958.93	-1.53e-03		651.3	-125.58	7945.96	12.22	-5194.64	3997.57	2.253e+04
3	18	1.450e+06	4417.93	0.06	-0.55	0.0	-125.61	-1.338e+04	13.51	-5707.04	-4380.05	1.450e+06
		-1.060e+06	-4380.05	-1.68e-03		651.3	-125.61	8329.27	13.51	-5665.21	4417.93	2.092e+04
3	19	1.280e+06	4285.14	0.05	-0.51	0.0	-125.02	-1.199e+04	13.10	-4183.04	-4244.44	1.280e+06
		-9.633e+05	-4244.44	-1.42e-03		651.3	-125.02	7584.54	13.10	-4287.66	4285.14	2.376e+04
3	20	1.283e+06	3831.62	0.05	-0.51	0.0	-125.39	-1.202e+04	11.71	-4594.14	-3791.91	1.283e+06
		-9.662e+05	-3791.91	-1.40e-03		651.3	-125.39	7607.55	11.71	-4640.21	3831.62	2.386e+04
3	21	1.461e+06	4672.35	0.06	-0.55	0.0	-125.46	-1.347e+04	14.29	-5602.91	-4634.15	1.461e+06
		-1.066e+06	-4634.15	-1.70e-03		651.3	-125.46	8374.17	14.29	-5581.34	4672.35	2.064e+04
3	22	1.602e+06	2.206e+04	-0.18	-0.48	0.0	-20.28	-6393.28	-78.76	3045.50	2.206e+04	2.747e+05
		-4.145e+05	-2.923e+04	-3.11e-03		651.3	-20.28	8822.62	-78.76	3950.82	-2.923e+04	1.602e+06
3	23	2.204e+06	3.750e+04	-0.09	-0.61	0.0	-24.44	-1.726e+04	104.33	-1.036e+04	-3.045e+04	2.204e+06
		-2.088e+06	-3.045e+04	4.30e-04		651.3	-24.44	6069.28	104.33	-1.137e+04	3.750e+04	-1.638e+06
3	24	1.133e+06	1.195e+05	-0.08	-0.44	0.0	72.40	-9099.76	-364.15	4.677e+04	1.195e+05	1.133e+06
		-6.251e+05	-1.176e+05	0.03		651.3	72.40	4644.94	-364.15	7.187e+04	-1.176e+05	-5.079e+04
3	25	1.444e+06	1.189e+05	0.05	-0.62	0.0	-291.99	-1.473e+04	367.84	-5.957e+04	-1.206e+05	1.444e+06
		-1.281e+06	-1.206e+05	-0.03		651.3	-291.99	1.018e+04	367.84	-8.495e+04	1.189e+05	7.570e+04
3	26	1.582e+06	2.637e+04	-0.17	-0.48	0.0	-36.69	-6443.30	-92.98	1820.72	2.637e+04	2.671e+05
		-4.335e+05	-3.418e+04	-3.10e-03		651.3	-36.69	8880.58	-92.98	2706.98	-3.418e+04	1.582e+06
3	27	2.209e+06	4.231e+04	-0.08	-0.61	0.0	-10.17	-1.721e+04	118.15	-9315.97	-3.463e+04	2.209e+06
		-2.064e+06	-3.463e+04	-5.08e-04		651.3	-10.17	6017.03	118.15	-1.031e+04	4.231e+04	-1.619e+06
3	28	1.123e+06	7.773e+04	-0.06	-0.45	0.0	2.06	-9638.75	-236.77	3.406e+04	7.773e+04	1.123e+06
		-7.119e+05	-7.646e+04	0.02		651.3	2.06	5447.99	-236.77	5.399e+04	-7.646e+04	-2.022e+04
3	29	1.411e+06	8.493e+04	0.05	-0.59	0.0	-248.35	-1.412e+04	262.64	-4.395e+04	-8.612e+04	1.411e+06
		-1.206e+06	-8.612e+04	-0.02		651.3	-248.35	9603.83	262.64	-6.354e+04	8.493e+04	6.844e+04
3	30	1.559e+06	3.232e+04	-0.18	-0.48	0.0	41.98	-6515.30	-112.10	3399.90	3.232e+04	3.033e+05
		-4.143e+05	-4.069e+04	-2.45e-03		651.3	41.98	8723.40	-112.10	4319.97	-4.069e+04	1.559e+06
3	31	2.182e+06	4.914e+04	-0.09	-0.61	0.0	-83.71	-1.716e+04	138.17	-1.012e+04	-4.085e+04	2.182e+06
		-2.059e+06	-4.085e+04	-1.04e-03		651.3	-83.71	6149.54	138.17	-1.115e+04	4.914e+04	-1.594e+06
3	32	1.131e+06	1.037e+05	-0.08	-0.44	0.0	66.86	-9098.57	-315.71	4.604e+04	1.037e+05	1.131e+06
		-6.270e+05	-1.019e+05	0.03		651.3	66.86	4650.19	-315.71	7.066e+04	-1.019e+05	-5.212e+04
3	33	1.445e+06	1.019e+05	0.05	-0.62	0.0	-284.81	-1.468e+04	315.26	-5.915e+04	-1.035e+05	1.445e+06
		-1.272e+06	-1.035e+05	-0.03		651.3	-284.81	1.010e+04	315.26	-8.429e+04	1.019e+05	7.218e+04
3	34	1.559e+06	3.232e+04	-0.18	-0.48	0.0	41.98	-6515.30	-112.10	3399.90	3.232e+04	3.033e+05
		-4.143e+05	-4.069e+04	-2.45e-03		651.3	41.98	8723.40	-112.10	4319.97	-4.069e+04	1.559e+06
3	35	2.182e+06	4.914e+04	-0.09	-0.61	0.0	-83.71	-1.716e+04	138.17	-1.012e+04	-4.085e+04	2.182e+06
		-2.059e+06	-4.085e+04	-1.04e-03		651.3	-83.71	6149.54	138.17	-1.115e+04	4.914e+04	-1.594e+06
3	36	1.113e+06	7.567e+04	-0.06	-0.45	0.0	12.43	-9449.28	-230.36	3.804e+04	7.567e+04	1.113e+06
		-6.904e+05	-7.435e+04	0.02		651.3	12.43	5261.85	-230.36	5.974e+04	-7.435e+04	-2.462e+04
3	37	1.429e+06	7.927e+04	0.05	-0.60	0.0	-253.77	-1.432e+04	245.29	-4.723e+04	-8.047e+04	1.429e+06
		-1.225e+06	-8.047e+04	-0.02		651.3	-253.77	9759.18	245.29	-6.833e+04	7.927e+04	7.075e+04
3	38	1.102e+06	3444.42	0.04	-0.46	0.0	-124.95	-1.054e+04	10.51	-3174.26	-3402.20	1.102e+06
		-8.646e+05	-3402.20	-1.11e-03		651.3	-124.95	6817.92	10.51	-3346.53	3444.42	2.698e+04
3	39	1.283e+06	3831.62	0.05	-0.51	0.0	-125.39	-1.202e+04	11.71	-4594.14	-3791.91	1.283e+06
		-9.662e+05	-3791.91	-1.40e-03		651.3	-125.39	7607.55	11.71	-4640.21	3831.62	2.386e+04
3	40	1.138e+06	3612.56	0.04	-0.47	0.0	-124.96	-1.083e+04	11.03	-3376.02	-3570.64	1.138e+06
		-8.841e+05	-3570.64	-1.17e-03		651.3	-124.96	6971.24	11.03	-3534.76	3612.56	2.633e+04
3	41	1.258e+06	3776.31	0.05	-0.50	0.0	-125.33	-1.181e+04	11.54	-4391.30	-3736.24	1.258e+06
		-9.516e+05	-3736.24	-1.36e-03		651.3	-125.33	7494.74	11.54	-4455.40	3776.31	2.431e+04
3	42	1.293e+06	3944.45	0.05	-0.51	0.0	-125.34	-1.210e+04	12.05	-4593.05	-3904.69	1.293e+06
		-9.715e+05	-3904.69	-1.42e-03		651.3	-125.34	7648.07	12.05	-4643.62	3944.45	2.366e+04
3	43	1.102e+06	3444.42	0.04	-0.46	0.0	-124.95	-1.054e+04	10.51	-3174.26	-3402.20	1.102e+06

		-8.646e+05	-3402.20	-1.11e-03		651.3	-124.95	6817.92	10.51	-3346.53	3444.42	2.698e+04
3	44	1.258e+06	3776.31	0.05	-0.50	0.0	-125.33	-1.181e+04	11.54	-4391.30	-3736.24	1.258e+06
		-9.516e+05	-3736.24	-1.36e-03		651.3	-125.33	7494.74	11.54	-4455.40	3776.31	2.431e+04
3	45	1.102e+06	3444.42	0.04	-0.46	0.0	-124.95	-1.054e+04	10.51	-3174.26	-3402.20	1.102e+06
		-8.646e+05	-3402.20	-1.11e-03		651.3	-124.95	6817.92	10.51	-3346.53	3444.42	2.698e+04
3	46	1.258e+06	3776.31	0.05	-0.50	0.0	-125.33	-1.181e+04	11.54	-4391.30	-3736.24	1.258e+06
		-9.516e+05	-3736.24	-1.36e-03		651.3	-125.33	7494.74	11.54	-4455.40	3776.31	2.431e+04
4	1	1.167e+06	-1304.11	-9.12e-03	-0.58	0.0	96.29	-5790.91	-0.86	-313.34	-1304.11	1.141e+06
		6.805e+05	-1580.79	-3.41e-05		321.5	96.29	5953.20	-0.86	-752.56	-1580.79	1.167e+06
4	2	1.256e+06	-1472.76	-9.86e-03	-0.60	0.0	125.54	-6167.40	-0.96	-244.30	-1472.76	1.228e+06
		7.372e+05	-1781.55	-4.02e-05		321.5	125.54	6342.01	-0.96	-996.62	-1781.55	1.256e+06
4	3	1.440e+06	-1662.26	-0.01	-0.66	0.0	181.76	-6951.83	-1.17	-192.27	-1662.26	1.408e+06
		8.552e+05	-2037.84	-4.62e-05		321.5	181.76	7153.89	-1.17	-1251.21	-2037.84	1.440e+06
4	4	1.529e+06	-1830.91	-0.01	-0.69	0.0	211.00	-7328.32	-1.27	-123.23	-1830.91	1.495e+06
		9.119e+05	-2238.60	-5.23e-05		321.5	211.00	7542.70	-1.27	-1495.27	-2238.60	1.529e+06
4	5	8.278e+05	-911.33	-6.43e-03	-0.42	0.0	52.16	-4156.88	-0.58	-272.07	-911.33	8.095e+05
		4.787e+05	-1098.80	-2.32e-05		321.5	52.16	4271.51	-0.58	-451.04	-1098.80	8.278e+05
4	6	9.163e+05	-1079.98	-7.17e-03	-0.45	0.0	81.40	-4533.36	-0.68	-203.03	-1079.98	8.961e+05
		5.354e+05	-1299.56	-2.93e-05		321.5	81.40	4660.33	-0.68	-695.10	-1299.56	9.163e+05
4	7	1.101e+06	-1269.48	-8.72e-03	-0.51	0.0	137.62	-5317.79	-0.89	-151.01	-1269.48	1.076e+06
		6.534e+05	-1555.85	-3.52e-05		321.5	137.62	5472.20	-0.89	-949.68	-1555.85	1.101e+06
4	8	1.189e+06	-1438.13	-9.46e-03	-0.53	0.0	166.86	-5694.28	-0.99	-81.97	-1438.13	1.163e+06
		7.100e+05	-1756.61	-4.13e-05		321.5	166.86	5861.02	-0.99	-1193.74	-1756.61	1.189e+06
4	9	1.344e+06	-1641.42	-0.01	-0.63	0.0	154.78	-6543.89	-1.06	-175.26	-1641.42	1.315e+06
		7.939e+05	-1982.30	-4.63e-05		321.5	154.78	6730.83	-1.06	-1240.68	-1982.30	1.344e+06
4	10	1.358e+06	-1554.81	-0.01	-0.63	0.0	156.12	-6603.56	-1.08	-228.59	-1554.81	1.328e+06
		8.028e+05	-1900.73	-4.26e-05		321.5	156.12	6793.68	-1.08	-1101.61	-1900.73	1.358e+06
4	11	1.535e+06	-1892.12	-0.01	-0.69	0.0	214.60	-7356.53	-1.28	-90.51	-1892.12	1.501e+06
		9.162e+05	-2302.24	-5.48e-05		321.5	214.60	7571.32	-1.28	-1589.73	-2302.24	1.535e+06
4	12	1.005e+06	-1248.64	-7.91e-03	-0.48	0.0	110.64	-4909.85	-0.78	-133.99	-1248.64	9.827e+05
		5.920e+05	-1500.31	-3.54e-05		321.5	110.64	5049.15	-0.78	-939.15	-1500.31	1.005e+06
4	13	1.019e+06	-1162.03	-8.03e-03	-0.48	0.0	111.98	-4969.52	-0.80	-187.33	-1162.03	9.963e+05
		6.010e+05	-1418.74	-3.16e-05		321.5	111.98	5111.99	-0.80	-800.09	-1418.74	1.019e+06
4	14	1.196e+06	-1499.34	-9.52e-03	-0.53	0.0	170.47	-5722.49	-1.00	-49.24	-1499.34	1.170e+06
		7.143e+05	-1820.25	-4.38e-05		321.5	170.47	5889.63	-1.00	-1288.21	-1820.25	1.196e+06
4	15	8.885e+05	-990.92	-6.94e-03	-0.44	0.0	71.15	-4414.86	-0.65	-245.17	-990.92	8.688e+05
		5.175e+05	-1200.37	-2.58e-05		321.5	71.15	4538.33	-0.65	-561.85	-1200.37	8.885e+05
4	16	9.475e+05	-1103.35	-7.43e-03	-0.46	0.0	90.64	-4665.85	-0.72	-199.14	-1103.35	9.265e+05
		5.553e+05	-1334.20	-2.99e-05		321.5	90.64	4797.54	-0.72	-724.55	-1334.20	9.475e+05
4	17	1.071e+06	-1229.68	-8.46e-03	-0.50	0.0	128.13	-5188.80	-0.86	-164.46	-1229.68	1.047e+06
		6.340e+05	-1505.07	-3.39e-05		321.5	128.13	5338.79	-0.86	-894.28	-1505.07	1.071e+06
4	18	1.130e+06	-1342.12	-8.96e-03	-0.51	0.0	147.62	-5439.79	-0.92	-118.43	-1342.12	1.104e+06
		6.717e+05	-1638.91	-3.79e-05		321.5	147.62	5598.00	-0.92	-1056.98	-1638.91	1.130e+06
4	19	1.007e+06	-1215.79	-7.93e-03	-0.48	0.0	110.14	-4916.84	-0.78	-153.11	-1215.79	9.843e+05
		5.931e+05	-1468.04	-3.40e-05		321.5	110.14	5056.76	-0.78	-887.26	-1468.04	1.007e+06
4	20	1.016e+06	-1158.05	-8.01e-03	-0.48	0.0	111.03	-4956.62	-0.80	-188.67	-1158.05	9.933e+05
		5.990e+05	-1413.66	-3.15e-05		321.5	111.03	5098.65	-0.80	-794.55	-1413.66	1.016e+06
4	21	1.134e+06	-1382.93	-9.00e-03	-0.52	0.0	150.02	-5458.60	-0.93	-96.62	-1382.93	1.109e+06
		6.746e+05	-1681.34	-3.96e-05		321.5	150.02	5617.08	-0.93	-1119.96	-1681.34	1.134e+06
4	22	1.512e+06	1.098e+05	0.08	-0.51	0.0	26.04	-1980.84	691.57	-7.052e+04	-1.125e+05	4.983e+05
		4.399e+05	-1.125e+05	-5.48e-03		321.5	26.04	7906.54	691.57	-7.108e+04	1.098e+05	1.512e+06
4	23	1.509e+06	1.099e+05	-0.08	-0.51	0.0	-5.46	-7775.20	-692.86	7.010e+04	1.099e+05	1.509e+06
		4.732e+05	-1.128e+05	5.42e-03		321.5	-5.46	2132.96	-692.86	6.954e+04	-1.128e+05	5.406e+05
4	24	1.522e+06	3.201e+04	-9.47e-03	-0.93	0.0	-1775.21	-1.061e+04	14.21	-1.437e+04	2.744e+04	1.491e+06
		6.443e+05	2.744e+04	-9.14e-04		321.5	-1775.21	1.080e+04	14.21	9609.88	3.201e+04	1.522e+06
4	25	4.655e+05	-2.752e+04	-5.55e-03	-0.13	0.0	1831.38	966.00	-14.77	1.378e+04	-2.752e+04	3.864e+05
		3.864e+05	-3.227e+04	8.39e-04		321.5	1831.38	-887.73	-14.77	-1.258e+04	-3.227e+04	3.978e+05
4	26	1.442e+06	1.161e+05	0.08	-0.51	0.0	17.55	-2413.67	730.45	-7.325e+04	-1.188e+05	5.667e+05
		4.809e+05	-1.188e+05	-5.57e-03		321.5	17.55	7470.52	730.45	-7.382e+04	1.161e+05	1.442e+06
4	27	1.438e+06	1.162e+05	-0.08	-0.51	0.0	-13.24	-7338.71	-731.63	7.285e+04	1.162e+05	1.438e+06
		5.101e+05	-1.190e+05	5.51e-03		321.5	-13.24	2564.87	-731.63	7.229e+04	-1.190e+05	6.077e+05
4	28	1.410e+06	2.028e+04	-9.44e-03	-0.80	0.0	-1124.17	-9025.08	9.87	-9071.50	1.711e+04	1.385e+06
		6.641e+05	1.711e+04	-5.79e-04		321.5	-1124.17	9181.13	9.87	6816.40	2.028e+04	1.410e+06
4	29	5.623e+05	-1.912e+04	-6.10e-03	-0.22	0.0	1323.10	-628.91	-11.41	9127.10	-1.912e+04	5.435e+05
		4.960e+05	-2.279e+04	5.93e-04		321.5	1323.10	750.62	-11.41	-9155.26	-2.279e+04	5.623e+05
4	30	1.530e+06	1.221e+05	-0.08	-0.51	0.0	45.52	-1921.26	767.92	-7.111e+04	-1.248e+05	4.940e+05
		4.393e+05	-1.248e+05	-5.29e-03		321.5	45.52	7984.37	767.92	-7.167e+04	1.221e+05	1.530e+06
4	31	1.527e+06	1.222e+05	0.08	-0.51	0.0	17.85	-7851.86	-769.06	7.068e+04	1.222e+05	1.527e+06
		4.726e+05	-1.251e+05	5.22e-03		321.5	17.85	2074.21	-769.06	7.014e+04	-1.251e+05	5.364e+05
4	32	1.521e+06	2.790e+04	-9.52e-03	-0.92	0.0	-1644.83	-1.053e+04	12.41	-1.398e+04	2.391e+04	1.491e+06
		6.503e+05	2.391e+04	-7.99e-04		321.5	-1644.83	1.072e+04	12.41	9654.76	2.790e+04	1.521e+06
4	33	4.678e+05	-2.369e+04	-5.59e-03	-0.13	0.0	1700.44	844.91	-12.97	1.338e+04	-2.369e+04	3.983e+05
		3.983e+05	-2.786e+04	7.22e-04		321.5	1700.44	-763.80	-12.97	-1.231e+04	-2.786e+04	4.101e+05
4	34	1.530e+06	1.221e+05	-0.08	-0.51	0.0	45.52	-1921.26	767.92	-7.111e+04	-1.248e+05	4.940e+05
		4.393e+05	-1.248e+05	-5.29e-03		321.5	45.52	7984.37	767.92	-7.167e+04	1.221e+05	1.530e+06
4	35	1.527e+06	1.222e+05	0.08	-0.51	0.0	17.85	-7851.86	-769.06	7.068e+04	1.222e+05	1.527e+06
		4.726e+05	-1.251e+05	5.22e-03		321.5	17.85	2074.21	-769.06	7.014e+04	-1.251e+05	5.364e+05

4	36	1.449e+06	1.979e+04	-9.59e-03	-0.83	0.0	-1178.12	-9411.99	9.40	-9776.80	1.676e+04	1.423e+06
		6.714e+05	1.676e+04	-5.68e-04		321.5	-1178.12	9571.55	9.40	7371.16	1.979e+04	1.449e+06
4	37	5.174e+05	-1.792e+04	-5.85e-03	-0.20	0.0	1325.29	-289.93	-10.42	9636.51	-1.792e+04	5.002e+05
		4.793e+05	-2.127e+04	5.49e-04		321.5	1325.29	401.90	-10.42	-9826.57	-2.127e+04	5.174e+05
4	38	8.885e+05	-990.92	-6.94e-03	-0.44	0.0	71.15	-4414.86	-0.65	-245.17	-990.92	8.688e+05
		5.175e+05	-1200.37	-2.58e-05		321.5	71.15	4538.33	-0.65	-561.85	-1200.37	8.885e+05
4	39	1.016e+06	-1158.05	-8.01e-03	-0.48	0.0	111.03	-4956.62	-0.80	-188.67	-1158.05	9.933e+05
		5.990e+05	-1413.66	-3.15e-05		321.5	111.03	5098.65	-0.80	-794.55	-1413.66	1.016e+06
4	40	9.121e+05	-1035.89	-7.14e-03	-0.45	0.0	78.95	-4515.26	-0.68	-226.76	-1035.89	8.919e+05
		5.326e+05	-1253.90	-2.75e-05		321.5	78.95	4642.02	-0.68	-626.93	-1253.90	9.121e+05
4	41	9.977e+05	-1134.18	-7.85e-03	-0.47	0.0	105.34	-4879.23	-0.77	-196.74	-1134.18	9.756e+05
		5.874e+05	-1383.19	-3.07e-05		321.5	105.34	5018.61	-0.77	-761.30	-1383.19	9.977e+05
4	42	1.021e+06	-1179.15	-8.05e-03	-0.48	0.0	113.13	-4979.62	-0.80	-178.33	-1179.15	9.987e+05
		6.025e+05	-1436.72	-3.23e-05		321.5	113.13	5122.29	-0.80	-826.39	-1436.72	1.021e+06
4	43	8.885e+05	-990.92	-6.94e-03	-0.44	0.0	71.15	-4414.86	-0.65	-245.17	-990.92	8.688e+05
		5.175e+05	-1200.37	-2.58e-05		321.5	71.15	4538.33	-0.65	-561.85	-1200.37	8.885e+05
4	44	9.977e+05	-1134.18	-7.85e-03	-0.47	0.0	105.34	-4879.23	-0.77	-196.74	-1134.18	9.756e+05
		5.874e+05	-1383.19	-3.07e-05		321.5	105.34	5018.61	-0.77	-761.30	-1383.19	9.977e+05
4	45	8.885e+05	-990.92	-6.94e-03	-0.44	0.0	71.15	-4414.86	-0.65	-245.17	-990.92	8.688e+05
		5.175e+05	-1200.37	-2.58e-05		321.5	71.15	4538.33	-0.65	-561.85	-1200.37	8.885e+05
4	46	9.977e+05	-1134.18	-7.85e-03	-0.47	0.0	105.34	-4879.23	-0.77	-196.74	-1134.18	9.756e+05
		5.874e+05	-1383.19	-3.07e-05		321.5	105.34	5018.61	-0.77	-761.30	-1383.19	9.977e+05
5	1	1.365e+06	5227.69	0.05	-0.59	0.0	-173.49	-1.331e+04	16.27	1.816e+04	-5370.69	1.365e+06
		-1.111e+06	-5370.69	1.87e-03		651.3	-173.49	8803.39	16.27	1.624e+04	5227.69	4.873e+04
5	2	1.487e+06	5943.54	0.06	-0.62	0.0	-174.76	-1.432e+04	18.49	2.051e+04	-6095.43	1.487e+06
		-1.180e+06	-6095.43	2.10e-03		651.3	-174.76	9350.03	18.49	1.817e+04	5943.54	4.758e+04
5	3	1.727e+06	6504.61	0.07	-0.69	0.0	-176.65	-1.631e+04	20.22	2.488e+04	-6662.89	1.727e+06
		-1.317e+06	-6662.89	2.66e-03		651.3	-176.65	1.043e+04	20.22	2.186e+04	6504.61	4.519e+04
5	4	1.850e+06	7220.46	0.07	-0.72	0.0	-177.92	-1.732e+04	22.43	2.724e+04	-7387.63	1.850e+06
		-1.387e+06	-7387.63	2.88e-03		651.3	-177.92	1.098e+04	22.43	2.378e+04	7220.46	4.404e+04
5	5	9.570e+05	3693.89	0.03	-0.43	0.0	-132.65	-9472.26	11.51	1.224e+04	-3799.97	9.570e+05
		-8.018e+05	-3799.97	1.24e-03		651.3	-132.65	6354.75	11.51	1.105e+04	3693.89	3.839e+04
5	6	1.079e+06	4409.74	0.04	-0.46	0.0	-133.91	-1.048e+04	13.72	1.460e+04	-4524.71	1.079e+06
		-8.710e+05	-4524.71	1.46e-03		651.3	-133.91	6901.39	13.72	1.298e+04	4409.74	3.724e+04
5	7	1.319e+06	4970.80	0.05	-0.53	0.0	-135.80	-1.247e+04	15.45	1.897e+04	-5092.17	1.319e+06
		-1.008e+06	-5092.17	2.02e-03		651.3	-135.80	7981.39	15.45	1.667e+04	4970.80	3.485e+04
5	8	1.442e+06	5686.65	0.06	-0.56	0.0	-137.07	-1.348e+04	17.66	2.132e+04	-5816.91	1.442e+06
		-1.078e+06	-5816.91	2.25e-03		651.3	-137.07	8528.03	17.66	1.860e+04	5686.65	3.370e+04
5	9	1.609e+06	6659.39	0.06	-0.65	0.0	-176.03	-1.533e+04	20.70	2.287e+04	-6820.18	1.609e+06
		-1.249e+06	-6820.18	2.32e-03		651.3	-176.03	9896.67	20.70	2.010e+04	6659.39	4.643e+04
5	10	1.619e+06	6121.54	0.06	-0.66	0.0	-175.70	-1.541e+04	19.04	2.287e+04	-6275.23	1.619e+06
		-1.255e+06	-6275.23	2.42e-03		651.3	-175.70	9942.04	19.04	2.017e+04	6121.54	4.625e+04
5	11	1.863e+06	7553.23	0.07	-0.72	0.0	-178.24	-1.743e+04	23.46	2.757e+04	-7724.72	1.863e+06
		-1.394e+06	-7724.72	2.87e-03		651.3	-178.24	1.104e+04	23.46	2.403e+04	7553.23	4.395e+04
5	12	1.202e+06	5125.59	0.05	-0.49	0.0	-135.18	-1.149e+04	15.93	1.695e+04	-5249.46	1.202e+06
		-9.401e+05	-5249.46	1.69e-03		651.3	-135.18	7448.03	15.93	1.491e+04	5125.59	3.609e+04
5	13	1.211e+06	4587.73	0.05	-0.50	0.0	-134.86	-1.157e+04	14.27	1.695e+04	-4704.51	1.211e+06
		-9.460e+05	-4704.51	1.79e-03		651.3	-134.86	7493.40	14.27	1.498e+04	4587.73	3.591e+04
5	14	1.455e+06	6019.43	0.06	-0.56	0.0	-137.40	-1.359e+04	18.69	2.166e+04	-6154.00	1.455e+06
		-1.085e+06	-6154.00	2.24e-03		651.3	-137.40	8586.68	18.69	1.884e+04	6019.43	3.362e+04
5	15	1.038e+06	3977.65	0.04	-0.45	0.0	-133.35	-1.014e+04	12.38	1.374e+04	-4087.12	1.038e+06
		-8.476e+05	-4087.12	1.41e-03		651.3	-133.35	6716.22	12.38	1.230e+04	3977.65	3.760e+04
5	16	1.119e+06	4454.88	0.04	-0.47	0.0	-134.19	-1.081e+04	13.86	1.531e+04	-4570.28	1.119e+06
		-8.937e+05	-4570.28	1.56e-03		651.3	-134.19	7080.65	13.86	1.359e+04	4454.88	3.684e+04
5	17	1.279e+06	4828.93	0.05	-0.51	0.0	-135.45	-1.214e+04	15.01	1.822e+04	-4948.59	1.279e+06
		-9.848e+05	-4948.59	1.94e-03		651.3	-135.45	7800.65	15.01	1.604e+04	4828.93	3.524e+04
5	18	1.361e+06	5306.15	0.05	-0.54	0.0	-136.30	-1.281e+04	16.49	1.979e+04	-5431.75	1.361e+06
		-1.031e+06	-5431.75	2.09e-03		651.3	-136.30	8165.08	16.49	1.733e+04	5306.16	3.448e+04
5	19	1.201e+06	4932.11	0.04	-0.49	0.0	-135.04	-1.148e+04	15.33	1.688e+04	-5053.45	1.201e+06
		-9.397e+05	-5053.45	1.71e-03		651.3	-135.04	7445.08	15.33	1.487e+04	4932.11	3.607e+04
5	20	1.207e+06	4573.54	0.05	-0.50	0.0	-134.82	-1.154e+04	14.22	1.688e+04	-4690.15	1.207e+06
		-9.437e+05	-4690.15	1.78e-03		651.3	-134.82	7475.32	14.22	1.492e+04	4573.54	3.595e+04
5	21	1.370e+06	5528.01	0.05	-0.54	0.0	-136.51	-1.288e+04	17.17	2.002e+04	-5656.48	1.370e+06
		-1.036e+06	-5656.48	2.08e-03		651.3	-136.51	8204.18	17.17	1.749e+04	5528.01	3.442e+04
5	22	1.559e+06	1.117e+05	-0.18	-0.47	0.0	-40.28	-5829.55	324.10	-1.475e+04	-9.942e+04	2.159e+05
		-3.900e+05	-9.942e+04	-7.13e-03		651.3	-40.28	8256.26	324.10	-1.986e+04	1.117e+05	1.559e+06
5	23	2.113e+06	8.882e+04	-0.11	-0.62	0.0	-13.79	-1.688e+04	-291.61	4.813e+04	8.882e+04	2.113e+06
		-2.067e+06	-1.011e+05	0.01		651.3	-13.79	6379.72	-291.61	4.949e+04	-1.011e+05	-1.577e+06
5	24	1.261e+06	1.227e+05	0.05	-0.62	0.0	-227.98	-1.406e+04	-373.50	7.891e+04	1.227e+05	1.261e+06
		-1.327e+06	-1.206e+05	0.04		651.3	-227.98	1.037e+04	-373.50	1.120e+05	-1.206e+05	6.929e+04
5	25	1.159e+06	1.214e+05	-0.09	-0.44	0.0	-15.43	-8812.72	376.10	-3.297e+04	-1.236e+05	1.159e+06
		-5.440e+05	-1.236e+05	-0.03		651.3	-15.43	4234.11	376.10	-6.971e+04	1.214e+05	-2.177e+04
5	26	1.541e+06	1.155e+05	-0.18	-0.47	0.0	-45.98	-5872.40	335.30	-1.207e+04	-1.029e+05	2.027e+05
		-4.113e+05	-1.029e+05	-6.64e-03		651.3	-45.98	8337.61	335.30	-1.708e+04	1.155e+05	1.541e+06
5	27	2.124e+06	9.234e+04	-0.10	-0.62	0.0	-10.36	-1.684e+04	-303.03	4.558e+04	9.234e+04	2.124e+06
		-2.042e+06	-1.050e+05	9.49e-03		651.3	-10.36	6303.74	-303.03	4.684e+04	-1.050e+05	-1.559e+06
5	28	1.238e+06	7.909e+04	0.04	-0.58	0.0	-221.60	-1.347e+04	-240.85	5.258e+04	7.909e+04	1.238e+06

		-1.241e+06	-7.777e+04	0.02		651.3	-221.60	9807.71	-240.85	7.665e+04	-7.777e+04	8.009e+04
5	29	1.154e+06	8.661e+04	-0.08	-0.45	0.0	-43.16	-9394.11	268.37	-1.859e+04	-8.817e+04	1.154e+06
		-6.410e+05	-8.817e+04	-0.02		651.3	-43.16	5010.94	268.37	-4.697e+04	8.661e+04	-8635.51
5	30	1.516e+06	1.154e+05	-0.18	-0.47	0.0	42.24	-5950.26	335.04	-1.553e+04	-1.028e+05	2.452e+05
		-3.842e+05	-1.028e+05	-6.77e-03		651.3	42.24	8149.24	335.04	-2.068e+04	1.154e+05	1.516e+06
5	31	2.091e+06	9.219e+04	-0.11	-0.62	0.0	-91.29	-1.678e+04	-302.58	4.828e+04	9.219e+04	2.091e+06
		-2.038e+06	-1.049e+05	9.49e-03		651.3	-91.29	6465.75	-302.58	4.969e+04	-1.049e+05	-1.533e+06
5	32	1.256e+06	1.064e+05	0.05	-0.62	0.0	-241.68	-1.399e+04	-323.82	7.734e+04	1.064e+05	1.256e+06
		-1.319e+06	-1.045e+05	0.03		651.3	-241.68	1.032e+04	-323.82	1.100e+05	-1.045e+05	7.077e+04
5	33	1.160e+06	1.039e+05	-0.09	-0.44	0.0	1.54	-8825.85	322.29	-3.140e+04	-1.060e+05	1.160e+06
		-5.466e+05	-1.060e+05	-0.03		651.3	1.54	4240.47	322.29	-6.740e+04	1.039e+05	-2.400e+04
5	34	1.516e+06	1.154e+05	-0.18	-0.47	0.0	42.24	-5950.26	335.04	-1.553e+04	-1.028e+05	2.452e+05
		-3.842e+05	-1.028e+05	-6.77e-03		651.3	42.24	8149.24	335.04	-2.068e+04	1.154e+05	1.516e+06
5	35	2.091e+06	9.219e+04	-0.11	-0.62	0.0	-91.29	-1.678e+04	-302.58	4.828e+04	9.219e+04	2.091e+06
		-2.038e+06	-1.049e+05	9.49e-03		651.3	-91.29	6465.75	-302.58	4.969e+04	-1.049e+05	-1.533e+06
5	36	1.244e+06	7.693e+04	0.05	-0.60	0.0	-241.47	-1.368e+04	-234.15	5.616e+04	7.693e+04	1.244e+06
		-1.271e+06	-7.556e+04	0.02		651.3	-241.47	1.005e+04	-234.15	8.256e+04	-7.556e+04	8.536e+04
5	37	1.153e+06	8.071e+04	-0.08	-0.45	0.0	-21.56	-9229.22	250.27	-2.007e+04	-8.228e+04	1.153e+06
		-6.166e+05	-8.228e+04	-0.02		651.3	-21.56	4792.79	250.27	-5.041e+04	8.071e+04	-1.579e+04
5	38	1.038e+06	3977.65	0.04	-0.45	0.0	-133.35	-1.014e+04	12.38	1.374e+04	-4087.12	1.038e+06
		-8.476e+05	-4087.12	1.41e-03		651.3	-133.35	6716.22	12.38	1.230e+04	3977.65	3.760e+04
5	39	1.207e+06	4573.54	0.05	-0.50	0.0	-134.82	-1.154e+04	14.22	1.688e+04	-4690.15	1.207e+06
		-9.437e+05	-4690.15	1.78e-03		651.3	-134.82	7475.32	14.22	1.492e+04	4573.54	3.595e+04
5	40	1.070e+06	4168.54	0.04	-0.46	0.0	-133.69	-1.041e+04	12.97	1.437e+04	-4280.39	1.070e+06
		-8.660e+05	-4280.39	1.47e-03		651.3	-133.69	6861.99	12.97	1.282e+04	4168.54	3.730e+04
5	41	1.183e+06	4488.41	0.04	-0.49	0.0	-134.61	-1.134e+04	13.96	1.643e+04	-4604.00	1.183e+06
		-9.299e+05	-4604.00	1.73e-03		651.3	-134.61	7366.88	13.96	1.455e+04	4488.41	3.619e+04
5	42	1.215e+06	4679.31	0.05	-0.50	0.0	-134.95	-1.161e+04	14.55	1.706e+04	-4797.27	1.215e+06
		-9.484e+05	-4797.27	1.79e-03		651.3	-134.95	7512.65	14.55	1.506e+04	4679.31	3.588e+04
5	43	1.038e+06	3977.65	0.04	-0.45	0.0	-133.35	-1.014e+04	12.38	1.374e+04	-4087.12	1.038e+06
		-8.476e+05	-4087.12	1.41e-03		651.3	-133.35	6716.22	12.38	1.230e+04	3977.65	3.760e+04
5	44	1.183e+06	4488.41	0.04	-0.49	0.0	-134.61	-1.134e+04	13.96	1.643e+04	-4604.00	1.183e+06
		-9.299e+05	-4604.00	1.73e-03		651.3	-134.61	7366.88	13.96	1.455e+04	4488.41	3.619e+04
5	45	1.038e+06	3977.65	0.04	-0.45	0.0	-133.35	-1.014e+04	12.38	1.374e+04	-4087.12	1.038e+06
		-8.476e+05	-4087.12	1.41e-03		651.3	-133.35	6716.22	12.38	1.230e+04	3977.65	3.760e+04
5	46	1.183e+06	4488.41	0.04	-0.49	0.0	-134.61	-1.134e+04	13.96	1.643e+04	-4604.00	1.183e+06
		-9.299e+05	-4604.00	1.73e-03		651.3	-134.61	7366.88	13.96	1.455e+04	4488.41	3.619e+04
6	1	1.296e+06	-561.50	-0.01	-0.60	0.0	4.01	-6058.79	-0.95	157.21	-561.50	1.258e+06
		7.780e+05	-866.20	-4.01e-05		321.5	4.01	6300.68	-0.95	-1307.69	-866.20	1.296e+06
6	2	1.411e+06	-639.63	-0.01	-0.63	0.0	19.96	-6514.39	-1.08	224.29	-639.63	1.369e+06
		8.532e+05	-986.16	-4.49e-05		321.5	19.96	6780.59	-1.08	-1515.45	-986.16	1.411e+06
6	3	1.637e+06	-693.35	-0.01	-0.70	0.0	52.12	-7411.62	-1.22	307.84	-693.35	1.587e+06
		1.001e+06	-1085.20	-5.59e-05		321.5	52.12	7726.05	-1.22	-1892.12	-1085.20	1.637e+06
6	4	1.751e+06	-771.47	-0.01	-0.73	0.0	68.07	-7867.21	-1.35	374.92	-771.47	1.698e+06
		1.076e+06	-1205.16	-6.07e-05		321.5	68.07	8205.96	-1.35	-2099.88	-1205.16	1.751e+06
6	5	9.095e+05	-398.12	-7.21e-03	-0.44	0.0	-9.25	-4313.73	-0.66	82.31	-398.12	8.829e+05
		5.414e+05	-610.15	-2.68e-05		321.5	-9.25	4481.20	-0.66	-856.06	-610.15	9.095e+05
6	6	1.024e+06	-476.25	-8.19e-03	-0.47	0.0	6.70	-4769.32	-0.79	149.39	-476.25	9.939e+05
		6.165e+05	-730.11	-3.16e-05		321.5	6.70	4961.11	-0.79	-1063.82	-730.11	1.024e+06
6	7	1.250e+06	-529.96	-0.01	-0.53	0.0	38.86	-5666.56	-0.93	232.93	-529.96	1.212e+06
		7.642e+05	-829.16	-4.26e-05		321.5	38.86	5906.57	-0.93	-1440.49	-829.16	1.250e+06
6	8	1.365e+06	-608.09	-0.01	-0.57	0.0	54.80	-6122.15	-1.06	300.01	-608.09	1.323e+06
		8.393e+05	-949.12	-4.74e-05		321.5	54.80	6386.48	-1.06	-1648.25	-949.12	1.365e+06
6	9	1.526e+06	-717.76	-0.01	-0.67	0.0	35.90	-6969.98	-1.21	291.37	-717.76	1.480e+06
		9.283e+05	-1106.12	-4.97e-05		321.5	35.90	7260.50	-1.21	-1723.21	-1106.12	1.526e+06
6	10	1.534e+06	-653.79	-0.01	-0.67	0.0	37.69	-7005.77	-1.14	262.65	-653.79	1.488e+06
		9.340e+05	-1019.50	-5.12e-05		321.5	37.69	7298.44	-1.14	-1716.79	-1019.50	1.534e+06
6	11	1.764e+06	-810.05	-0.01	-0.74	0.0	69.58	-7916.96	-1.40	396.81	-810.05	1.710e+06
		1.084e+06	-1259.42	-6.08e-05		321.5	69.58	8258.26	-1.40	-2132.31	-1259.42	1.764e+06
6	12	1.139e+06	-554.38	-9.17e-03	-0.50	0.0	22.64	-5224.92	-0.92	216.47	-554.38	1.105e+06
		6.916e+05	-850.07	-3.64e-05		321.5	22.64	5441.02	-0.92	-1271.58	-850.07	1.139e+06
6	13	1.148e+06	-490.41	-9.24e-03	-0.51	0.0	24.43	-5260.71	-0.85	187.75	-490.41	1.113e+06
		6.973e+05	-763.46	-3.79e-05		321.5	24.43	5478.96	-0.85	-1265.16	-763.46	1.148e+06
6	14	1.378e+06	-646.67	-0.01	-0.57	0.0	56.32	-6171.90	-1.11	321.91	-646.67	1.335e+06
		8.476e+05	-1003.38	-4.74e-05		321.5	56.32	6438.78	-1.11	-1680.68	-1003.38	1.378e+06
6	15	9.852e+05	-427.42	-7.86e-03	-0.46	0.0	1.44	-4614.36	-0.72	115.78	-427.42	9.561e+05
		5.909e+05	-658.82	-3.03e-05		321.5	1.44	4797.95	-0.72	-985.94	-658.82	9.852e+05
6	16	1.062e+06	-479.50	-8.51e-03	-0.48	0.0	12.07	-4918.09	-0.81	160.50	-479.50	1.030e+06
		6.410e+05	-738.79	-3.35e-05		321.5	12.07	5117.89	-0.81	-1124.44	-738.79	1.062e+06
6	17	1.212e+06	-515.31	-9.79e-03	-0.52	0.0	33.51	-5516.24	-0.90	216.20	-515.31	1.176e+06
		7.394e+05	-804.82	-4.08e-05		321.5	33.51	5748.19	-0.90	-1375.55	-804.82	1.212e+06
6	18	1.289e+06	-567.40	-0.01	-0.55	0.0	44.14	-5819.97	-0.99	260.92	-567.40	1.250e+06
		7.895e+05	-884.80	-4.40e-05		321.5	44.14	6068.13	-0.99	-1514.06	-884.80	1.289e+06
6	19	1.138e+06	-531.59	-9.16e-03	-0.50	0.0	22.70	-5221.82	-0.89	205.22	-531.59	1.104e+06
		6.910e+05	-818.77	-3.67e-05		321.5	22.70	5437.83	-0.89	-1262.95	-818.77	1.138e+06
6	20	1.144e+06	-488.94	-9.21e-03	-0.50	0.0	23.89	-5245.68	-0.85	186.07	-488.94	1.110e+06
		6.948e+05	-761.02	-3.77e-05		321.5	23.89	5463.12	-0.85	-1258.67	-761.02	1.144e+06

6	21	1.297e+06	-593.12	-0.01	-0.55	0.0	45.15	-5853.14	-1.02	275.51	-593.12	1.258e+06
		7.950e+05	-920.97	-4.41e-05		321.5	45.15	6103.00	-1.02	-1535.68	-920.97	1.297e+06
6	22	1.950e+06	1.268e+05	-0.05	-0.51	0.0	-13.67	-286.32	792.67	-4.055e+04	-1.281e+05	3.164e+05
		3.160e+05	-1.281e+05	-3.38e-03		321.5	-13.67	1.023e+04	792.67	-4.195e+04	1.268e+05	1.950e+06
6	23	1.930e+06	1.269e+05	-0.05	-0.51	0.0	-49.41	-1.002e+04	-793.90	4.089e+04	1.269e+05	1.930e+06
		3.600e+05	-1.283e+05	3.31e-03		321.5	-49.41	507.14	-793.90	3.949e+04	-1.283e+05	3.638e+05
6	24	1.213e+06	2.070e+04	-9.09e-03	-0.61	0.0	-8.97	-6398.35	23.65	-8865.87	1.309e+04	1.176e+06
		6.694e+05	1.309e+04	-5.74e-04		321.5	-8.97	6624.04	23.65	4734.18	2.070e+04	1.213e+06
6	25	1.074e+06	-1.307e+04	-9.40e-03	-0.45	0.0	90.09	-3979.30	-24.33	9259.00	-1.307e+04	1.040e+06
		7.270e+05	-2.089e+04	5.23e-04		321.5	90.09	4194.66	-24.33	-7484.21	-2.089e+04	1.074e+06
6	26	1.921e+06	1.321e+05	-0.05	-0.51	0.0	-25.21	-464.73	825.64	-4.234e+04	-1.334e+05	3.451e+05
		3.420e+05	-1.334e+05	-3.41e-03		321.5	-25.21	1.005e+04	825.64	-4.374e+04	1.321e+05	1.921e+06
6	27	1.900e+06	1.322e+05	-0.05	-0.51	0.0	-58.33	-9844.52	-826.90	4.268e+04	1.322e+05	1.900e+06
		3.848e+05	-1.336e+05	3.35e-03		321.5	-58.33	684.83	-826.90	4.128e+04	-1.336e+05	3.916e+05
6	28	1.186e+06	1.289e+04	-9.00e-03	-0.59	0.0	-26.01	-6147.31	13.81	-6205.18	8449.06	1.153e+06
		6.653e+05	8449.06	-3.79e-04		321.5	-26.01	6357.72	13.81	3838.57	1.289e+04	1.186e+06
6	29	1.079e+06	-9362.34	-9.22e-03	-0.46	0.0	77.96	-4249.79	-15.70	6742.15	-9362.34	1.044e+06
		7.094e+05	-1.441e+04	3.71e-04		321.5	77.96	4468.07	-15.70	-6389.90	-1.441e+04	1.079e+06
6	30	1.934e+06	1.351e+05	-0.05	-0.51	0.0	-14.04	-417.32	844.75	-4.101e+04	-1.364e+05	3.408e+05
		3.384e+05	-1.364e+05	-3.21e-03		321.5	-14.04	1.011e+04	844.75	-4.240e+04	1.351e+05	1.934e+06
6	31	1.914e+06	1.352e+05	-0.05	-0.51	0.0	-44.76	-9903.86	-845.67	4.133e+04	1.352e+05	1.914e+06
		3.821e+05	-1.367e+05	3.15e-03		321.5	-44.76	638.20	-845.67	3.994e+04	-1.367e+05	3.880e+05
6	32	1.208e+06	1.808e+04	-9.06e-03	-0.61	0.0	-31.95	-6369.01	20.85	-8654.69	1.138e+04	1.172e+06
		6.676e+05	1.138e+04	-5.04e-04		321.5	-31.95	6595.56	20.85	4792.19	1.808e+04	1.208e+06
6	33	1.075e+06	-1.120e+04	-9.41e-03	-0.45	0.0	116.77	-3982.49	-21.51	9047.46	-1.120e+04	1.041e+06
		7.276e+05	-1.811e+04	4.52e-04		321.5	116.77	4200.27	-21.51	-7385.42	-1.811e+04	1.075e+06
6	34	1.934e+06	1.351e+05	-0.05	-0.51	0.0	-14.04	-417.32	844.75	-4.101e+04	-1.364e+05	3.408e+05
		3.384e+05	-1.364e+05	-3.21e-03		321.5	-14.04	1.011e+04	844.75	-4.240e+04	1.351e+05	1.934e+06
6	35	1.914e+06	1.352e+05	-0.05	-0.51	0.0	-44.76	-9903.86	-845.67	4.133e+04	1.352e+05	1.914e+06
		3.821e+05	-1.367e+05	3.15e-03		321.5	-44.76	638.20	-845.67	3.994e+04	-1.367e+05	3.880e+05
6	36	1.193e+06	1.257e+04	-9.00e-03	-0.60	0.0	-47.80	-6244.42	13.27	-6783.53	8303.75	1.159e+06
		6.638e+05	8303.75	-3.72e-04		321.5	-47.80	6459.15	13.27	4277.51	1.257e+04	1.193e+06
6	37	1.076e+06	-8798.87	-9.25e-03	-0.46	0.0	103.62	-4166.28	-14.64	7255.35	-8798.87	1.041e+06
		7.127e+05	-1.351e+04	3.49e-04		321.5	103.62	4392.31	-14.64	-6781.65	-1.351e+04	1.076e+06
6	38	9.852e+05	-427.42	-7.86e-03	-0.46	0.0	1.44	-4614.36	-0.72	115.78	-427.42	9.561e+05
		5.909e+05	-658.82	-3.03e-05		321.5	1.44	4797.95	-0.72	-985.94	-658.82	9.852e+05
6	39	1.144e+06	-488.94	-9.21e-03	-0.50	0.0	23.89	-5245.68	-0.85	186.07	-488.94	1.110e+06
		6.948e+05	-761.02	-3.77e-05		321.5	23.89	5463.12	-0.85	-1258.67	-761.02	1.144e+06
6	40	1.016e+06	-448.25	-8.12e-03	-0.47	0.0	5.69	-4735.85	-0.75	133.67	-448.25	9.857e+05
		6.109e+05	-690.81	-3.16e-05		321.5	5.69	4925.93	-0.75	-1041.34	-690.81	1.016e+06
6	41	1.121e+06	-480.15	-9.02e-03	-0.50	0.0	20.68	-5155.49	-0.83	176.03	-480.15	1.088e+06
		6.800e+05	-746.42	-3.66e-05		321.5	20.68	5368.10	-0.83	-1219.71	-746.42	1.121e+06
6	42	1.152e+06	-500.99	-9.28e-03	-0.51	0.0	24.94	-5276.98	-0.86	193.92	-500.99	1.117e+06
		7.000e+05	-778.41	-3.79e-05		321.5	24.94	5496.07	-0.86	-1275.11	-778.41	1.152e+06
6	43	9.852e+05	-427.42	-7.86e-03	-0.46	0.0	1.44	-4614.36	-0.72	115.78	-427.42	9.561e+05
		5.909e+05	-658.82	-3.03e-05		321.5	1.44	4797.95	-0.72	-985.94	-658.82	9.852e+05
6	44	1.121e+06	-480.15	-9.02e-03	-0.50	0.0	20.68	-5155.49	-0.83	176.03	-480.15	1.088e+06
		6.800e+05	-746.42	-3.66e-05		321.5	20.68	5368.10	-0.83	-1219.71	-746.42	1.121e+06
6	45	9.852e+05	-427.42	-7.86e-03	-0.46	0.0	1.44	-4614.36	-0.72	115.78	-427.42	9.561e+05
		5.909e+05	-658.82	-3.03e-05		321.5	1.44	4797.95	-0.72	-985.94	-658.82	9.852e+05
6	46	1.121e+06	-480.15	-9.02e-03	-0.50	0.0	20.68	-5155.49	-0.83	176.03	-480.15	1.088e+06
		6.800e+05	-746.42	-3.66e-05		321.5	20.68	5368.10	-0.83	-1219.71	-746.42	1.121e+06
7	1	1.372e+06	-620.87	-0.01	-0.61	0.0	27.84	-6277.96	-0.33	199.77	-620.87	1.328e+06
		8.323e+05	-728.13	2.92e-05		321.5	27.84	6554.01	-0.33	222.90	-728.13	1.372e+06
7	2	1.496e+06	-701.03	-0.01	-0.65	0.0	46.34	-6765.61	-0.40	198.59	-701.03	1.448e+06
		9.141e+05	-830.69	3.30e-05		321.5	46.34	7070.29	-0.40	268.69	-830.69	1.496e+06
7	3	1.736e+06	-751.94	-0.01	-0.72	0.0	81.16	-7707.04	-0.34	208.22	-751.94	1.680e+06
		1.071e+06	-861.01	3.89e-05		321.5	81.16	8065.81	-0.34	451.80	-861.01	1.736e+06
7	4	1.861e+06	-832.10	-0.02	-0.75	0.0	99.66	-8194.69	-0.41	207.04	-832.10	1.800e+06
		1.153e+06	-963.57	4.27e-05		321.5	99.66	8582.09	-0.41	497.58	-963.57	1.861e+06
7	5	9.619e+05	-443.98	-7.69e-03	-0.45	0.0	7.75	-4462.77	-0.26	151.50	-443.98	9.316e+05
		5.789e+05	-526.03	2.01e-05		321.5	7.75	4653.91	-0.26	112.77	-526.03	9.619e+05
7	6	1.086e+06	-524.14	-8.75e-03	-0.48	0.0	26.24	-4950.42	-0.32	150.32	-524.14	1.052e+06
		6.607e+05	-628.59	2.39e-05		321.5	26.24	5170.18	-0.32	158.56	-628.59	1.086e+06
7	7	1.326e+06	-575.06	-0.01	-0.55	0.0	61.06	-5891.85	-0.26	159.95	-575.06	1.283e+06
		8.181e+05	-658.91	2.97e-05		321.5	61.06	6165.71	-0.26	341.67	-658.91	1.326e+06
7	8	1.451e+06	-655.21	-0.01	-0.58	0.0	79.56	-6379.50	-0.33	158.77	-655.21	1.403e+06
		8.998e+05	-761.47	3.34e-05		321.5	79.56	6681.99	-0.33	387.45	-761.47	1.451e+06
7	9	1.621e+06	-781.18	-0.01	-0.68	0.0	64.84	-7253.25	-0.47	197.41	-781.18	1.568e+06
		9.958e+05	-933.26	3.68e-05		321.5	64.84	7586.56	-0.47	314.47	-933.26	1.621e+06
7	10	1.627e+06	-712.62	-0.01	-0.69	0.0	65.16	-7278.32	-0.34	205.68	-712.62	1.574e+06
		9.997e+05	-821.15	3.60e-05		321.5	65.16	7612.27	-0.34	383.13	-821.15	1.627e+06
7	11	1.876e+06	-872.94	-0.02	-0.76	0.0	102.16	-8253.61	-0.48	203.33	-872.94	1.814e+06
		1.163e+06	-1026.27	4.35e-05		321.5	102.16	8644.83	-0.48	474.70	-1026.27	1.876e+06
7	12	1.211e+06	-604.30	-9.81e-03	-0.52	0.0	44.74	-5438.06	-0.39	149.15	-604.30	1.172e+06
		7.424e+05	-731.15	2.76e-05		321.5	44.74	5686.46	-0.39	204.34	-731.15	1.211e+06
7	13	1.217e+06	-535.74	-9.87e-03	-0.52	0.0	45.07	-5463.13	-0.26	157.42	-535.74	1.178e+06

Grp	ID	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11
		7.463e+05	-619.05	2.68e-05		321.5	45.07	5712.17	-0.26	273.00	-619.05	1.217e+06
7	14	1.466e+06	-696.05	-0.01	-0.59	0.0	82.06	-6438.42	-0.40	155.06	-696.05	1.418e+06
		9.098e+05	-824.17	3.43e-05		321.5	82.06	6744.72	-0.40	364.57	-824.17	1.466e+06
7	15	1.043e+06	-473.11	-8.38e-03	-0.47	0.0	19.59	-4780.34	-0.26	153.38	-473.11	1.010e+06
		6.320e+05	-555.56	2.22e-05		321.5	19.59	4989.86	-0.26	163.64	-555.56	1.043e+06
7	16	1.126e+06	-526.55	-9.09e-03	-0.49	0.0	31.93	-5105.44	-0.30	152.59	-526.55	1.090e+06
		6.866e+05	-623.93	2.47e-05		321.5	31.93	5334.05	-0.30	194.16	-623.93	1.126e+06
7	17	1.286e+06	-560.49	-0.01	-0.54	0.0	55.14	-5733.06	-0.26	159.01	-560.49	1.244e+06
		7.915e+05	-644.15	2.86e-05		321.5	55.14	5997.73	-0.26	316.24	-644.15	1.286e+06
7	18	1.369e+06	-613.93	-0.01	-0.56	0.0	67.47	-6058.16	-0.31	158.23	-613.93	1.324e+06
		8.460e+05	-712.52	3.11e-05		321.5	67.47	6341.91	-0.31	346.76	-712.52	1.369e+06
7	19	1.209e+06	-579.99	-9.80e-03	-0.52	0.0	44.26	-5430.54	-0.35	151.81	-579.99	1.170e+06
		7.411e+05	-692.31	2.72e-05		321.5	44.26	5678.23	-0.35	224.68	-692.31	1.209e+06
7	20	1.213e+06	-534.28	-9.83e-03	-0.52	0.0	44.47	-5447.25	-0.26	157.32	-534.28	1.174e+06
		7.437e+05	-617.57	2.66e-05		321.5	44.47	5695.37	-0.26	270.46	-617.57	1.213e+06
7	21	1.379e+06	-641.15	-0.01	-0.56	0.0	69.14	-6097.44	-0.35	155.75	-641.15	1.334e+06
		8.527e+05	-754.32	3.17e-05		321.5	69.14	6383.74	-0.35	331.50	-754.32	1.379e+06
7	22	2.079e+06	6.369e+04	-0.04	-0.52	0.0	-9.41	-119.20	-400.60	1.731e+04	6.369e+04	3.269e+05
		3.269e+05	-6.510e+04	9.28e-04		321.5	-9.41	1.083e+04	-400.60	1.739e+04	-6.510e+04	2.079e+06
7	23	2.052e+06	6.367e+04	-0.04	-0.52	0.0	-41.36	-1.059e+04	400.06	-1.702e+04	-6.495e+04	2.052e+06
		3.758e+05	-6.495e+04	-8.81e-04		321.5	-41.36	369.50	400.06	-1.694e+04	6.367e+04	3.773e+05
7	24	1.062e+06	2.296e+04	-9.16e-03	-0.45	0.0	305.36	-4079.10	24.76	-6416.53	1.500e+04	1.027e+06
		7.059e+05	1.500e+04	-5.81e-04		321.5	305.36	4305.00	24.76	4299.22	2.296e+04	1.062e+06
7	25	1.368e+06	-1.515e+04	-0.01	-0.63	0.0	-174.65	-6711.86	-24.58	6746.49	-1.515e+04	1.327e+06
		7.958e+05	-2.305e+04	6.05e-04		321.5	-174.65	6965.16	-24.58	-3723.34	-2.305e+04	1.368e+06
7	26	2.055e+06	7.054e+04	-0.04	-0.52	0.0	-26.07	-266.20	-443.19	1.903e+04	7.054e+04	3.506e+05
		3.506e+05	-7.194e+04	1.14e-03		321.5	-26.07	1.068e+04	-443.19	1.912e+04	-7.194e+04	2.055e+06
7	27	2.027e+06	7.051e+04	-0.04	-0.52	0.0	-53.90	-1.044e+04	442.53	-1.874e+04	-7.176e+04	2.027e+06
		3.965e+05	-7.176e+04	-1.09e-03		321.5	-53.90	516.20	442.53	-1.866e+04	7.051e+04	4.002e+05
7	28	1.061e+06	1.443e+04	-8.92e-03	-0.46	0.0	204.29	-4338.84	14.43	-4816.93	9791.17	1.024e+06
		6.829e+05	9791.17	-3.87e-04		321.5	204.29	4572.12	14.43	3778.84	1.443e+04	1.061e+06
7	29	1.333e+06	-1.088e+04	-0.01	-0.60	0.0	-113.38	-6431.04	-15.44	4998.04	-1.088e+04	1.293e+06
		7.841e+05	-1.584e+04	4.43e-04		321.5	-113.38	6681.05	-15.44	-3139.74	-1.584e+04	1.333e+06
7	30	2.062e+06	7.840e+04	-0.04	-0.52	0.0	-16.18	-254.47	-492.16	1.763e+04	7.840e+04	3.520e+05
		3.520e+05	-7.983e+04	1.14e-03		321.5	-16.18	1.070e+04	-492.16	1.771e+04	-7.983e+04	2.062e+06
7	31	2.035e+06	7.842e+04	-0.04	-0.52	0.0	-42.56	-1.047e+04	491.80	-1.734e+04	-7.969e+04	2.035e+06
		3.986e+05	-7.969e+04	-1.10e-03		321.5	-42.56	504.28	491.80	-1.727e+04	7.842e+04	4.022e+05
7	32	1.061e+06	2.003e+04	-9.14e-03	-0.44	0.0	290.40	-4077.28	21.74	-6261.54	1.304e+04	1.025e+06
		7.044e+05	1.304e+04	-5.08e-04		321.5	290.40	4303.86	21.74	4241.92	2.003e+04	1.061e+06
7	33	1.367e+06	-1.299e+04	-0.01	-0.63	0.0	-157.98	-6684.91	-21.61	6680.46	-1.299e+04	1.327e+06
		7.974e+05	-1.994e+04	5.28e-04		321.5	-157.98	6940.99	-21.61	-3682.34	-1.994e+04	1.367e+06
7	34	2.062e+06	7.840e+04	-0.04	-0.52	0.0	-16.18	-254.47	-492.16	1.763e+04	7.840e+04	3.520e+05
		3.520e+05	-7.983e+04	1.14e-03		321.5	-16.18	1.070e+04	-492.16	1.771e+04	-7.983e+04	2.062e+06
7	35	2.035e+06	7.842e+04	-0.04	-0.52	0.0	-42.56	-1.047e+04	491.80	-1.734e+04	-7.969e+04	2.035e+06
		3.986e+05	-7.969e+04	-1.10e-03		321.5	-42.56	504.28	491.80	-1.727e+04	7.842e+04	4.022e+05
7	36	1.051e+06	1.407e+04	-8.87e-03	-0.45	0.0	213.06	-4251.71	13.79	-5221.41	9631.99	1.014e+06
		6.799e+05	9631.99	-3.77e-04		321.5	213.06	4481.22	13.79	4105.95	1.407e+04	1.051e+06
7	37	1.349e+06	-1.020e+04	-0.01	-0.61	0.0	-113.86	-6522.63	-14.53	5395.98	-1.020e+04	1.309e+06
		7.924e+05	-1.487e+04	4.20e-04		321.5	-113.86	6776.32	-14.53	-3375.71	-1.487e+04	1.349e+06
7	38	1.043e+06	-473.11	-8.38e-03	-0.47	0.0	19.59	-4780.34	-0.26	153.38	-473.11	1.010e+06
		6.320e+05	-555.56	2.22e-05		321.5	19.59	4989.86	-0.26	163.64	-555.56	1.043e+06
7	39	1.213e+06	-534.28	-9.83e-03	-0.52	0.0	44.47	-5447.25	-0.26	157.32	-534.28	1.174e+06
		7.437e+05	-617.57	2.66e-05		321.5	44.47	5695.37	-0.26	270.46	-617.57	1.213e+06
7	40	1.076e+06	-494.49	-8.66e-03	-0.48	0.0	24.53	-4910.38	-0.28	153.07	-494.49	1.042e+06
		6.538e+05	-582.91	2.32e-05		321.5	24.53	5127.54	-0.28	175.85	-582.91	1.076e+06
7	41	1.189e+06	-525.54	-9.62e-03	-0.51	0.0	40.92	-5351.98	-0.26	156.76	-525.54	1.150e+06
		7.277e+05	-608.71	2.60e-05		321.5	40.92	5594.58	-0.26	255.20	-608.71	1.189e+06
7	42	1.222e+06	-546.92	-9.91e-03	-0.52	0.0	45.85	-5482.02	-0.28	156.44	-546.92	1.182e+06
		7.495e+05	-636.06	2.70e-05		321.5	45.85	5732.26	-0.28	267.41	-636.06	1.222e+06
7	43	1.043e+06	-473.11	-8.38e-03	-0.47	0.0	19.59	-4780.34	-0.26	153.38	-473.11	1.010e+06
		6.320e+05	-555.56	2.22e-05		321.5	19.59	4989.86	-0.26	163.64	-555.56	1.043e+06
7	44	1.189e+06	-525.54	-9.62e-03	-0.51	0.0	40.92	-5351.98	-0.26	156.76	-525.54	1.150e+06
		7.277e+05	-608.71	2.60e-05		321.5	40.92	5594.58	-0.26	255.20	-608.71	1.189e+06
7	45	1.043e+06	-473.11	-8.38e-03	-0.47	0.0	19.59	-4780.34	-0.26	153.38	-473.11	1.010e+06
		6.320e+05	-555.56	2.22e-05		321.5	19.59	4989.86	-0.26	163.64	-555.56	1.043e+06
7	46	1.189e+06	-525.54	-9.62e-03	-0.51	0.0	40.92	-5351.98	-0.26	156.76	-525.54	1.150e+06
		7.277e+05	-608.71	2.60e-05		321.5	40.92	5594.58	-0.26	255.20	-608.71	1.189e+06
8	1	1.327e+06	5339.61	0.05	-0.59	0.0	-171.52	-8743.63	-16.73	-1.621e+04	5339.61	4.806e+04
		-1.098e+06	-5460.72	-1.84e-03		645.8	-171.52	1.317e+04	-16.73	-1.809e+04	-5460.72	1.327e+06
8	2	1.445e+06	6067.77	0.05	-0.62	0.0	-172.77	-9285.63	-18.99	-1.814e+04	6067.77	4.690e+04
		-1.167e+06	-6194.78	-2.06e-03		645.8	-172.77	1.416e+04	-18.99	-2.044e+04	-6194.78	1.445e+06
8	3	1.678e+06	6642.59	0.07	-0.68	0.0	-174.60	-1.036e+04	-20.78	-2.182e+04	6642.59	4.452e+04
		-1.302e+06	-6773.93	-2.62e-03		645.8	-174.60	1.612e+04	-20.78	-2.479e+04	-6773.93	1.678e+06
8	4	1.797e+06	7370.76	0.07	-0.72	0.0	-175.85	-1.090e+04	-23.04	-2.375e+04	7370.76	4.336e+04
		-1.370e+06	-7507.99	-2.84e-03		645.8	-175.85	1.712e+04	-23.04	-2.714e+04	-7507.99	1.797e+06
8	5	9.306e+05	3773.29	0.03	-0.43	0.0	-131.15	-6312.28	-11.83	-1.103e+04	3773.29	3.787e+04
		-7.926e+05	-3863.83	-1.22e-03		645.8	-131.15	9371.52	-11.83	-1.219e+04	-3863.83	9.306e+05

8	6	1.049e+06	4501.46	0.04	-0.46	0.0	-132.40	-6854.28	-14.09	-1.296e+04	4501.46	3.672e+04
		-8.610e+05	-4597.89	-1.44e-03		645.8	-132.40	1.037e+04	-14.09	-1.454e+04	-4597.89	1.049e+06
8	7	1.282e+06	5076.28	0.05	-0.52	0.0	-134.23	-7925.28	-15.88	-1.664e+04	5076.28	3.433e+04
		-9.962e+05	-5177.04	-1.99e-03		645.8	-134.23	1.233e+04	-15.88	-1.890e+04	-5177.04	1.282e+06
8	8	1.400e+06	5804.44	0.06	-0.56	0.0	-135.48	-8467.28	-18.14	-1.857e+04	5804.44	3.318e+04
		-1.065e+06	-5911.10	-2.21e-03		645.8	-135.48	1.332e+04	-18.14	-2.125e+04	-5911.10	1.400e+06
8	9	1.564e+06	6795.94	0.06	-0.65	0.0	-174.01	-9827.63	-21.25	-2.007e+04	6795.94	4.574e+04
		-1.235e+06	-6928.84	-2.29e-03		645.8	-174.01	1.516e+04	-21.25	-2.279e+04	-6928.84	1.564e+06
8	10	1.573e+06	6251.70	0.06	-0.66	0.0	-173.68	-9872.73	-19.56	-2.013e+04	6251.70	4.558e+04
		-1.241e+06	-6379.96	-2.38e-03		645.8	-173.68	1.524e+04	-19.56	-2.278e+04	-6379.96	1.573e+06
8	11	1.810e+06	7708.03	0.07	-0.72	0.0	-176.17	-1.096e+04	-24.09	-2.400e+04	7708.03	4.326e+04
		-1.377e+06	-7848.09	-2.83e-03		645.8	-176.17	1.723e+04	-24.09	-2.748e+04	-7848.09	1.810e+06
8	12	1.168e+06	5229.62	0.04	-0.49	0.0	-133.64	-7396.28	-16.36	-1.489e+04	5229.62	3.556e+04
		-9.293e+05	-5331.96	-1.66e-03		645.8	-133.64	1.136e+04	-16.36	-1.689e+04	-5331.96	1.168e+06
8	13	1.177e+06	4685.38	0.05	-0.50	0.0	-133.31	-7441.38	-14.66	-1.496e+04	4685.38	3.540e+04
		-9.351e+05	-4783.08	-1.76e-03		645.8	-133.31	1.144e+04	-14.66	-1.689e+04	-4783.08	1.177e+06
8	14	1.414e+06	6141.71	0.06	-0.56	0.0	-135.80	-8525.38	-19.19	-1.882e+04	6141.71	3.308e+04
		-1.072e+06	-6251.20	-2.20e-03		645.8	-135.80	1.343e+04	-19.19	-2.159e+04	-6251.20	1.414e+06
8	15	1.009e+06	4062.84	0.04	-0.45	0.0	-131.83	-6670.73	-12.73	-1.227e+04	4062.84	3.709e+04
		-8.379e+05	-4155.66	-1.39e-03		645.8	-131.83	1.003e+04	-12.73	-1.368e+04	-4155.66	1.009e+06
8	16	1.088e+06	4548.29	0.04	-0.47	0.0	-132.67	-7032.06	-14.24	-1.356e+04	4548.29	3.631e+04
		-8.834e+05	-4645.03	-1.54e-03		645.8	-132.67	1.069e+04	-14.24	-1.525e+04	-4645.03	1.088e+06
8	17	1.243e+06	4931.50	0.05	-0.51	0.0	-133.89	-7746.06	-15.43	-1.602e+04	4931.50	3.473e+04
		-9.736e+05	-5031.13	-1.91e-03		645.8	-133.89	1.200e+04	-15.43	-1.815e+04	-5031.13	1.243e+06
8	18	1.322e+06	5416.95	0.05	-0.54	0.0	-134.72	-8107.39	-16.94	-1.730e+04	5416.95	3.395e+04
		-1.019e+06	-5520.50	-2.05e-03		645.8	-134.72	1.266e+04	-16.94	-1.972e+04	-5520.50	1.322e+06
8	19	1.167e+06	5033.73	0.04	-0.49	0.0	-133.50	-7393.39	-15.75	-1.485e+04	5033.73	3.554e+04
		-9.290e+05	-5134.41	-1.69e-03		645.8	-133.50	1.136e+04	-15.75	-1.682e+04	-5134.41	1.167e+06
8	20	1.173e+06	4670.90	0.04	-0.49	0.0	-133.27	-7423.46	-14.62	-1.489e+04	4670.90	3.543e+04
		-9.329e+05	-4768.49	-1.75e-03		645.8	-133.27	1.141e+04	-14.62	-1.681e+04	-4768.49	1.173e+06
8	21	1.331e+06	5641.79	0.05	-0.54	0.0	-134.93	-8146.13	-17.64	-1.747e+04	5641.79	3.389e+04
		-1.024e+06	-5747.24	-2.05e-03		645.8	-134.93	1.273e+04	-17.64	-1.995e+04	-5747.24	1.331e+06
8	22	2.062e+06	8.923e+04	-0.11	-0.62	0.0	7.32	-6325.86	295.49	-5.010e+04	-1.016e+05	-1.576e+06
		-2.058e+06	-1.016e+05	-9.75e-03		645.8	7.32	1.676e+04	295.49	-4.872e+04	8.923e+04	2.062e+06
8	23	1.559e+06	1.122e+05	-0.19	-0.47	0.0	-61.12	-8210.78	-328.36	2.048e+04	1.122e+05	1.559e+06
		-3.812e+05	-9.985e+04	6.64e-03		645.8	-61.12	5706.15	-328.36	1.542e+04	-9.985e+04	1.999e+05
8	24	1.229e+06	1.283e+05	0.05	-0.62	0.0	-223.88	-1.031e+04	394.86	-1.139e+05	-1.267e+05	6.489e+04
		-1.315e+06	-1.267e+05	-0.04		645.8	-223.88	1.394e+04	394.86	-8.087e+04	1.283e+05	1.229e+06
8	25	1.123e+06	1.277e+05	-0.09	-0.44	0.0	-16.81	-4182.43	-397.86	7.113e+04	1.277e+05	-1.904e+04
		-5.336e+05	-1.293e+05	0.03		645.8	-16.81	8670.19	-397.86	3.458e+04	-1.293e+05	1.123e+06
8	26	2.074e+06	9.276e+04	-0.11	-0.62	0.0	10.61	-6248.74	307.03	-4.740e+04	-1.055e+05	-1.558e+06
		-2.033e+06	-1.055e+05	-9.18e-03		645.8	10.61	1.671e+04	307.03	-4.612e+04	9.276e+04	2.074e+06
8	27	1.541e+06	1.160e+05	-0.18	-0.47	0.0	-65.90	-8292.89	-339.65	1.769e+04	1.160e+05	1.541e+06
		-4.029e+05	-1.033e+05	6.08e-03		645.8	-65.90	5747.85	-339.65	1.274e+04	-1.033e+05	1.861e+05
8	28	1.205e+06	7.938e+04	0.04	-0.58	0.0	-219.29	-9745.66	244.29	-7.656e+04	-7.837e+04	7.858e+04
		-1.227e+06	-7.837e+04	-0.02		645.8	-219.29	1.334e+04	244.29	-5.265e+04	7.938e+04	1.205e+06
8	29	1.120e+06	8.740e+04	-0.08	-0.45	0.0	-42.46	-4969.10	-272.57	4.688e+04	8.740e+04	-8371.38
		-6.326e+05	-8.861e+04	0.02		645.8	-42.46	9268.97	-272.57	1.874e+04	-8.861e+04	1.120e+06
8	30	2.040e+06	9.265e+04	-0.11	-0.62	0.0	-72.27	-6412.57	306.71	-5.033e+04	-1.054e+05	-1.532e+06
		-2.029e+06	-1.054e+05	-9.20e-03		645.8	-72.27	1.665e+04	306.71	-4.890e+04	9.265e+04	2.040e+06
8	31	1.516e+06	1.159e+05	-0.19	-0.47	0.0	23.71	-8103.42	-339.31	2.131e+04	1.159e+05	1.516e+06
		-3.756e+05	-1.032e+05	6.23e-03		645.8	23.71	5827.39	-339.31	1.621e+04	-1.032e+05	2.291e+05
8	32	1.224e+06	1.116e+05	0.05	-0.62	0.0	-237.70	-1.027e+04	343.28	-1.115e+05	-1.101e+05	6.725e+04
		-1.307e+06	-1.101e+05	-0.03		645.8	-237.70	1.388e+04	343.28	-7.896e+04	1.116e+05	1.224e+06
8	33	1.123e+06	1.098e+05	-0.09	-0.44	0.0	0.21	-4188.28	-342.43	6.878e+04	1.098e+05	-2.156e+04
		-5.363e+05	-1.113e+05	0.03		645.8	0.21	8683.79	-342.43	3.296e+04	-1.113e+05	1.123e+06
8	34	2.040e+06	9.265e+04	-0.11	-0.62	0.0	-72.27	-6412.57	306.71	-5.033e+04	-1.054e+05	-1.532e+06
		-2.029e+06	-1.054e+05	-9.20e-03		645.8	-72.27	1.665e+04	306.71	-4.890e+04	9.265e+04	2.040e+06
8	35	1.516e+06	1.159e+05	-0.19	-0.47	0.0	23.71	-8103.42	-339.31	2.131e+04	1.159e+05	1.516e+06
		-3.756e+05	-1.032e+05	6.23e-03		645.8	23.71	5827.39	-339.31	1.621e+04	-1.032e+05	2.291e+05
8	36	1.210e+06	7.747e+04	0.04	-0.60	0.0	-239.05	-9991.96	238.29	-8.253e+04	-7.640e+04	8.407e+04
		-1.257e+06	-7.640e+04	-0.02		645.8	-239.05	1.355e+04	238.29	-5.630e+04	7.747e+04	1.210e+06
8	37	1.118e+06	8.165e+04	-0.08	-0.45	0.0	-21.38	-4754.46	-254.79	5.042e+04	8.165e+04	-1.507e+04
		-6.087e+05	-8.288e+04	0.02		645.8	-21.38	9101.84	-254.79	2.032e+04	-8.288e+04	1.118e+06
8	38	1.009e+06	4062.84	0.04	-0.45	0.0	-131.83	-6670.73	-12.73	-1.227e+04	4062.84	3.709e+04
		-8.379e+05	-4155.66	-1.39e-03		645.8	-131.83	1.003e+04	-12.73	-1.368e+04	-4155.66	1.009e+06
8	39	1.173e+06	4670.90	0.04	-0.49	0.0	-133.27	-7423.46	-14.62	-1.489e+04	4670.90	3.543e+04
		-9.329e+05	-4768.49	-1.75e-03		645.8	-133.27	1.141e+04	-14.62	-1.681e+04	-4768.49	1.173e+06
8	40	1.040e+06	4257.02	0.04	-0.46	0.0	-132.17	-6815.26	-13.33	-1.279e+04	4257.02	3.678e+04
		-8.561e+05	-4351.41	-1.45e-03		645.8	-132.17	1.029e+04	-13.33	-1.431e+04	-4351.41	1.040e+06
8	41	1.149e+06	4584.04	0.04	-0.49	0.0	-133.07	-7315.93	-14.35	-1.452e+04	4584.04	3.567e+04
		-9.193e+05	-4680.94	-1.70e-03		645.8	-133.07	1.121e+04	-14.35	-1.637e+04	-4680.94	1.149e+06
8	42	1.181e+06	4778.22	0.05	-0.50	0.0	-133.40	-7460.46	-14.95	-1.503e+04	4778.22	3.536e+04
		-9.375e+05	-4876.69	-1.76e-03		645.8	-133.40	1.148e+04	-14.95	-1.699e+04	-4876.69	1.181e+06
8	43	1.009e+06	4062.84	0.04	-0.45	0.0	-131.83	-6670.73	-12.73	-1.227e+04	4062.84	3.709e+04
		-8.379e+05	-4155.66	-1.39e-03		645.8	-131.83	1.003e+04	-12.73	-1.368e+04	-4155.66	1.009e+06
8	44	1.149e+06	4584.04	0.04	-0.49	0.0	-133.07	-7315.93	-14.35	-1.452e+04	4584.04	3.567e+04

		-9.193e+05	-4680.94	-1.70e-03		645.8	-133.07	1.121e+04	-14.35	-1.637e+04	-4680.94	1.149e+06
8	45	1.009e+06	4062.84	0.04	-0.45	0.0	-131.83	-6670.73	-12.73	-1.227e+04	4062.84	3.709e+04
		-8.379e+05	-4155.66	-1.39e-03		645.8	-131.83	1.003e+04	-12.73	-1.368e+04	-4155.66	1.009e+06
8	46	1.149e+06	4584.04	0.04	-0.49	0.0	-133.07	-7315.93	-14.35	-1.452e+04	4584.04	3.567e+04
		-9.193e+05	-4680.94	-1.70e-03		645.8	-133.07	1.121e+04	-14.35	-1.637e+04	-4680.94	1.149e+06
9	1	1.407e+06	4599.27	0.05	-0.60	0.0	-160.81	-8879.32	-14.14	4407.19	4599.27	3.436e+04
		-1.121e+06	-4532.85	1.46e-03		645.8	-160.81	1.368e+04	-14.14	4190.64	-4532.85	1.407e+06
9	2	1.536e+06	5236.32	0.06	-0.64	0.0	-160.88	-9449.63	-16.11	5113.42	5236.32	3.195e+04
		-1.194e+06	-5169.31	1.69e-03		645.8	-160.88	1.475e+04	-16.11	4946.23	-5169.31	1.536e+06
9	3	1.784e+06	5451.29	0.07	-0.70	0.0	-161.75	-1.056e+04	-16.78	7167.26	5451.29	2.774e+04
		-1.336e+06	-5387.42	2.07e-03		645.8	-161.75	1.682e+04	-16.78	7214.18	-5387.42	1.784e+06
9	4	1.913e+06	6088.34	0.08	-0.74	0.0	-161.83	-1.113e+04	-18.76	7873.49	6088.34	2.534e+04
		-1.410e+06	-6023.87	2.30e-03		645.8	-161.83	1.789e+04	-18.76	7969.77	-6023.87	1.913e+06
9	5	9.861e+05	3319.43	0.04	-0.44	0.0	-123.45	-6399.86	-10.20	2682.43	3319.43	2.813e+04
		-8.078e+05	-3267.69	9.65e-04		645.8	-123.45	9723.47	-10.20	2448.30	-3267.69	9.861e+05
9	6	1.115e+06	3956.48	0.04	-0.47	0.0	-123.53	-6970.18	-12.17	3388.66	3956.48	2.572e+04
		-8.802e+05	-3904.14	1.19e-03		645.8	-123.53	1.079e+04	-12.17	3203.90	-3904.14	1.115e+06
9	7	1.362e+06	4171.45	0.06	-0.54	0.0	-124.40	-8078.34	-12.84	5442.51	4171.45	2.151e+04
		-1.022e+06	-4122.25	1.58e-03		645.8	-124.40	1.286e+04	-12.84	5471.84	-4122.25	1.362e+06
9	8	1.491e+06	4808.50	0.06	-0.57	0.0	-124.48	-8648.66	-14.82	6148.74	4808.50	1.911e+04
		-1.096e+06	-4758.71	1.81e-03		645.8	-124.48	1.392e+04	-14.82	6227.44	-4758.71	1.491e+06
9	9	1.665e+06	5873.37	0.07	-0.67	0.0	-160.96	-1.002e+04	-18.09	5819.64	5873.37	2.955e+04
		-1.267e+06	-5805.76	1.91e-03		645.8	-160.96	1.582e+04	-18.09	5701.83	-5805.76	1.665e+06
9	10	1.671e+06	5195.68	0.07	-0.67	0.0	-161.47	-1.005e+04	-15.99	6339.24	5195.68	2.973e+04
		-1.271e+06	-5131.05	1.89e-03		645.8	-161.47	1.588e+04	-15.99	6307.12	-5131.05	1.671e+06
9	11	1.929e+06	6469.79	0.08	-0.74	0.0	-161.62	-1.119e+04	-19.94	7751.70	6469.79	2.492e+04
		-1.418e+06	-6403.95	2.34e-03		645.8	-161.62	1.802e+04	-19.94	7818.30	-6403.95	1.929e+06
9	12	1.244e+06	4593.54	0.05	-0.51	0.0	-123.61	-7540.49	-14.14	4094.89	4593.54	2.331e+04
		-9.528e+05	-4540.60	1.42e-03		645.8	-123.61	1.186e+04	-14.14	3959.49	-4540.60	1.244e+06
9	13	1.249e+06	3915.85	0.05	-0.51	0.0	-124.12	-7574.80	-12.05	4614.49	3915.85	2.350e+04
		-9.571e+05	-3865.88	1.39e-03		645.8	-124.12	1.192e+04	-12.05	4564.78	-3865.88	1.249e+06
9	14	1.507e+06	5189.95	0.07	-0.58	0.0	-124.27	-8715.43	-15.99	6026.94	5189.95	1.868e+04
		-1.105e+06	-5138.79	1.85e-03		645.8	-124.27	1.405e+04	-15.99	6075.97	-5138.79	1.507e+06
9	15	1.070e+06	3508.77	0.04	-0.46	0.0	-123.66	-6772.86	-10.79	3295.78	3508.77	2.666e+04
		-8.552e+05	-3457.59	1.10e-03		645.8	-123.66	1.042e+04	-10.79	3120.20	-3457.59	1.070e+06
9	16	1.156e+06	3933.47	0.05	-0.48	0.0	-123.72	-7153.07	-12.10	3766.60	3933.47	2.505e+04
		-9.035e+05	-3881.90	1.25e-03		645.8	-123.72	1.113e+04	-12.10	3623.93	-3881.90	1.156e+06
9	17	1.321e+06	4076.78	0.05	-0.53	0.0	-124.30	-7891.84	-12.55	5135.83	4076.78	2.225e+04
		-9.981e+05	-4027.30	1.51e-03		645.8	-124.30	1.251e+04	-12.55	5135.89	-4027.30	1.321e+06
9	18	1.407e+06	4501.49	0.06	-0.55	0.0	-124.35	-8272.05	-13.86	5606.65	4501.49	2.064e+04
		-1.047e+06	-4451.60	1.66e-03		645.8	-124.35	1.322e+04	-13.86	5639.62	-4451.60	1.407e+06
9	19	1.242e+06	4358.17	0.05	-0.50	0.0	-123.77	-7533.28	-13.42	4237.42	4358.17	2.345e+04
		-9.518e+05	-4306.20	1.40e-03		645.8	-123.77	1.185e+04	-13.42	4127.66	-4306.20	1.242e+06
9	20	1.245e+06	3906.38	0.05	-0.51	0.0	-124.11	-7556.15	-12.02	4583.82	3906.38	2.357e+04
		-9.547e+05	-3856.39	1.39e-03		645.8	-124.11	1.188e+04	-12.02	4531.19	-3856.39	1.245e+06
9	21	1.417e+06	4755.78	0.06	-0.55	0.0	-124.21	-8316.57	-14.65	5525.46	4755.78	2.036e+04
		-1.053e+06	-4704.99	1.69e-03		645.8	-124.21	1.331e+04	-14.65	5538.64	-4704.99	1.417e+06
9	22	2.150e+06	3.791e+04	-0.09	-0.61	0.0	-4.09	-6014.36	-106.39	1.163e+04	3.791e+04	-1.638e+06
		-2.079e+06	-3.079e+04	-8.15e-04		645.8	-4.09	1.713e+04	-106.39	1.062e+04	-3.079e+04	2.150e+06
9	23	1.602e+06	2.232e+04	0.18	-0.48	0.0	-39.96	-8778.93	80.28	-4344.04	-2.952e+04	1.602e+06
		-4.061e+05	-2.952e+04	3.00e-03		645.8	-39.96	6253.82	80.28	-3449.13	2.232e+04	2.536e+05
9	24	1.097e+06	1.254e+05	-0.08	-0.44	0.0	68.75	-4598.28	386.58	-7.347e+04	-1.242e+05	-4.869e+04
		-6.154e+05	-1.242e+05	-0.03		645.8	68.75	8962.68	386.58	-4.844e+04	1.254e+05	1.097e+06
9	25	1.407e+06	1.254e+05	0.05	-0.62	0.0	-285.96	-1.011e+04	-390.07	8.661e+04	1.254e+05	7.185e+04
		-1.268e+06	-1.265e+05	0.03		645.8	-285.96	1.459e+04	-390.07	6.128e+04	-1.265e+05	1.407e+06
9	26	2.156e+06	4.278e+04	-0.08	-0.61	0.0	9.45	-5961.30	-120.50	1.053e+04	4.278e+04	-1.618e+06
		-2.055e+06	-3.503e+04	-8.95e-04		645.8	9.45	1.707e+04	-120.50	9530.10	-3.503e+04	2.156e+06
9	27	1.582e+06	2.668e+04	0.18	-0.48	0.0	-56.03	-8838.04	94.80	-3017.01	-3.454e+04	1.582e+06
		-4.238e+05	-3.454e+04	3.00e-03		645.8	-56.03	6302.91	94.80	-2142.63	2.668e+04	2.452e+05
9	28	1.087e+06	7.808e+04	-0.06	-0.45	0.0	0.85	-5411.44	240.45	-5.411e+04	-7.719e+04	-1.922e+04
		-7.036e+05	-7.719e+04	-0.02		645.8	0.85	9510.12	240.45	-3.433e+04	7.808e+04	1.087e+06
9	29	1.373e+06	8.578e+04	0.05	-0.59	0.0	-244.60	-9537.07	-266.87	6.359e+04	8.578e+04	6.660e+04
		-1.193e+06	-8.655e+04	0.02		645.8	-244.60	1.397e+04	-266.87	4.413e+04	-8.655e+04	1.373e+06
9	30	2.129e+06	4.961e+04	-0.09	-0.61	0.0	-65.22	-6094.75	-140.70	1.137e+04	4.961e+04	-1.594e+06
		-2.049e+06	-4.125e+04	-8.65e-04		645.8	-65.22	1.702e+04	-140.70	1.035e+04	-4.125e+04	2.129e+06
9	31	1.559e+06	3.268e+04	-0.18	-0.48	0.0	25.07	-8679.17	114.28	-4716.10	-4.111e+04	1.559e+06
		-4.043e+05	-4.111e+04	2.34e-03		645.8	25.07	6376.08	114.28	-3805.47	3.268e+04	2.820e+05
9	32	1.095e+06	1.091e+05	-0.08	-0.44	0.0	63.42	-4607.42	336.04	-7.222e+04	-1.079e+05	-4.991e+04
		-6.177e+05	-1.079e+05	-0.03		645.8	63.42	8963.35	336.04	-4.768e+04	1.091e+05	1.095e+06
9	33	1.407e+06	1.079e+05	0.05	-0.62	0.0	-279.21	-1.004e+04	-335.76	8.592e+04	1.079e+05	6.857e+04
		-1.260e+06	-1.089e+05	0.03		645.8	-279.21	1.454e+04	-335.76	6.084e+04	-1.089e+05	1.407e+06
9	34	2.129e+06	4.961e+04	-0.09	-0.61	0.0	-65.22	-6094.75	-140.70	1.137e+04	4.961e+04	-1.594e+06
		-2.049e+06	-4.125e+04	-8.65e-04		645.8	-65.22	1.702e+04	-140.70	1.035e+04	-4.125e+04	2.129e+06
9	35	1.559e+06	3.268e+04	-0.18	-0.48	0.0	25.07	-8679.17	114.28	-4716.10	-4.111e+04	1.559e+06
		-4.043e+05	-4.111e+04	2.34e-03		645.8	25.07	6376.08	114.28	-3805.47	3.268e+04	2.820e+05
9	36	1.077e+06	7.628e+04	-0.06	-0.44	0.0	11.18	-5224.53	234.78	-6.008e+04	-7.533e+04	-2.373e+04
		-6.821e+05	-7.533e+04	-0.02		645.8	11.18	9322.20	234.78	-3.853e+04	7.628e+04	1.077e+06

9	37	1.390e+06	8.025e+04	0.05	-0.60	0.0	-250.11	-9693.35	-249.81	6.834e+04	8.025e+04 6.898e+04
		-1.212e+06	-8.106e+04	0.02		645.8	-250.11	1.417e+04	-249.81	4.738e+04	-8.106e+04 1.390e+06
9	38	1.070e+06	3508.77	0.04	-0.46	0.0	-123.66	-6772.86	-10.79	3295.78	3508.77 2.666e+04
		-8.552e+05	-3457.59	1.10e-03		645.8	-123.66	1.042e+04	-10.79	3120.20	-3457.59 1.070e+06
9	39	1.245e+06	3906.38	0.05	-0.51	0.0	-124.11	-7556.15	-12.02	4583.82	3906.38 2.357e+04
		-9.547e+05	-3856.39	1.39e-03		645.8	-124.11	1.188e+04	-12.02	4531.19	-3856.39 1.245e+06
9	40	1.104e+06	3678.65	0.04	-0.47	0.0	-123.68	-6924.94	-11.31	3484.11	3678.65 2.601e+04
		-8.745e+05	-3627.31	1.16e-03		645.8	-123.68	1.070e+04	-11.31	3321.69	-3627.31 1.104e+06
9	41	1.220e+06	3849.58	0.05	-0.50	0.0	-124.04	-7444.25	-11.85	4399.81	3849.58 2.401e+04
		-9.404e+05	-3799.42	1.35e-03		645.8	-124.04	1.167e+04	-11.85	4329.62	-3799.42 1.220e+06
9	42	1.255e+06	4019.46	0.05	-0.51	0.0	-124.06	-7596.33	-12.37	4588.14	4019.46 2.337e+04
		-9.599e+05	-3969.14	1.41e-03		645.8	-124.06	1.196e+04	-12.37	4531.11	-3969.14 1.255e+06
9	43	1.070e+06	3508.77	0.04	-0.46	0.0	-123.66	-6772.86	-10.79	3295.78	3508.77 2.666e+04
		-8.552e+05	-3457.59	1.10e-03		645.8	-123.66	1.042e+04	-10.79	3120.20	-3457.59 1.070e+06
9	44	1.220e+06	3849.58	0.05	-0.50	0.0	-124.04	-7444.25	-11.85	4399.81	3849.58 2.401e+04
		-9.404e+05	-3799.42	1.35e-03		645.8	-124.04	1.167e+04	-11.85	4329.62	-3799.42 1.220e+06
9	45	1.070e+06	3508.77	0.04	-0.46	0.0	-123.66	-6772.86	-10.79	3295.78	3508.77 2.666e+04
		-8.552e+05	-3457.59	1.10e-03		645.8	-123.66	1.042e+04	-10.79	3120.20	-3457.59 1.070e+06
9	46	1.220e+06	3849.58	0.05	-0.50	0.0	-124.04	-7444.25	-11.85	4399.81	3849.58 2.401e+04
		-9.404e+05	-3799.42	1.35e-03		645.8	-124.04	1.167e+04	-11.85	4329.62	-3799.42 1.220e+06
60	1	4.060e+05	2524.58	-0.03	-0.59	0.0	152.57	-8531.59	10.94	-1.881e+04	-2281.64 4.060e+05
		-6.366e+05	-2281.64	-2.36e-03		439.5	152.57	7114.30	10.94	-2.298e+04	2524.58 5.180e+04
60	2	4.715e+05	2927.46	-0.03	-0.62	0.0	152.65	-9173.36	12.56	-2.075e+04	-2593.09 4.715e+05
		-6.610e+05	-2593.09	-2.58e-03		439.5	152.65	7447.46	12.56	-2.497e+04	2927.46 5.086e+04
60	3	5.522e+05	2732.78	-0.03	-0.67	0.0	488.08	-1.043e+04	12.14	-2.423e+04	-2603.18 5.522e+05
		-7.571e+05	-2603.18	-2.98e-03		439.5	488.08	8123.95	12.14	-2.856e+04	2732.78 2107.69
60	4	6.177e+05	3135.66	-0.03	-0.69	0.0	488.17	-1.107e+04	13.77	-2.617e+04	-2914.63 6.177e+05
		-7.815e+05	-2914.63	-3.20e-03		439.5	488.17	8457.10	13.77	-3.055e+04	3135.66 1167.99
60	5	2.748e+05	1888.60	-0.02	-0.44	0.0	31.33	-6076.41	8.10	-1.308e+04	-1672.66 2.748e+05
		-4.588e+05	-1672.66	-1.66e-03		439.5	31.33	5213.66	8.10	-1.624e+04	1888.60 5.259e+04
60	6	3.403e+05	2291.48	-0.02	-0.46	0.0	31.42	-6718.17	9.73	-1.502e+04	-1984.11 3.403e+05
		-4.832e+05	-1984.11	-1.88e-03		439.5	31.42	5546.81	9.73	-1.823e+04	2291.48 5.165e+04
60	7	4.210e+05	2096.80	-0.02	-0.51	0.0	366.84	-7973.19	9.31	-1.850e+04	-1994.20 4.210e+05
		-5.793e+05	-1994.20	-2.28e-03		439.5	366.84	6223.30	9.31	-2.183e+04	2096.80 2895.39
60	8	4.865e+05	2499.68	-0.02	-0.54	0.0	366.93	-8614.95	10.93	-2.044e+04	-2305.65 4.865e+05
		-6.037e+05	-2305.65	-2.49e-03		439.5	366.93	6556.46	10.93	-2.382e+04	2499.68 1955.69
60	9	5.370e+05	3330.33	-0.03	-0.64	0.0	152.74	-9815.12	14.19	-2.269e+04	-2904.54 5.370e+05
		-6.855e+05	-2904.54	-2.80e-03		439.5	152.74	7780.61	14.19	-2.696e+04	3330.33 4.992e+04
60	10	5.083e+05	2670.32	-0.03	-0.64	0.0	387.43	-9859.34	11.78	-2.261e+04	-2506.72 5.083e+05
		-7.209e+05	-2506.72	-2.79e-03		439.5	387.43	7821.06	11.78	-2.689e+04	2670.32 1.701e+04
60	11	6.393e+05	3476.07	-0.03	-0.69	0.0	387.60	-1.114e+04	15.03	-2.649e+04	-3129.62 6.393e+05
		-7.698e+05	-3129.62	-3.23e-03		439.5	387.60	8487.36	15.03	-3.087e+04	3476.07 1.514e+04
60	12	4.058e+05	2694.35	-0.02	-0.49	0.0	31.50	-7359.93	11.35	-1.696e+04	-2295.57 4.058e+05
		-5.077e+05	-2295.57	-2.10e-03		439.5	31.50	5879.97	11.35	-2.022e+04	2694.35 5.071e+04
60	13	3.772e+05	2034.34	-0.02	-0.49	0.0	266.19	-7404.16	8.95	-1.688e+04	-1897.74 3.772e+05
		-5.431e+05	-1897.74	-2.09e-03		439.5	266.19	5920.41	8.95	-2.015e+04	2034.34 1.780e+04
60	14	5.082e+05	2840.09	-0.02	-0.54	0.0	266.36	-8687.68	12.20	-2.075e+04	-2520.64 5.082e+05
		-5.920e+05	-2520.64	-2.53e-03		439.5	266.36	6586.72	12.20	-2.413e+04	2840.09 1.592e+04
60	15	3.073e+05	1934.87	-0.02	-0.45	0.0	105.89	-6497.92	8.37	-1.429e+04	-1744.12 3.073e+05
		-4.856e+05	-1744.12	-1.80e-03		439.5	105.89	5438.02	8.37	-1.748e+04	1934.87 4.154e+04
60	16	3.510e+05	2203.45	-0.02	-0.47	0.0	105.95	-6925.76	9.45	-1.558e+04	-1951.75 3.510e+05
		-5.019e+05	-1951.75	-1.94e-03		439.5	105.95	5660.13	9.45	-1.881e+04	2203.45 4.092e+04
60	17	4.048e+05	2073.67	-0.02	-0.50	0.0	329.57	-7762.44	9.17	-1.790e+04	-1958.47 4.048e+05
		-5.659e+05	-1958.47	-2.21e-03		439.5	329.57	6111.12	9.17	-2.121e+04	2073.67 8416.57
60	18	4.484e+05	2342.25	-0.02	-0.52	0.0	329.62	-8190.28	10.26	-1.919e+04	-2166.11 4.484e+05
		-5.822e+05	-2166.11	-2.35e-03		439.5	329.62	6333.22	10.26	-2.253e+04	2342.25 7790.10
60	19	3.947e+05	2472.04	-0.02	-0.49	0.0	106.00	-7353.60	10.54	-1.687e+04	-2159.38 3.947e+05
		-5.182e+05	-2159.38	-2.09e-03		439.5	106.00	5882.23	10.54	-2.014e+04	2472.04 4.029e+04
60	20	3.755e+05	2032.03	-0.02	-0.49	0.0	262.46	-7383.08	8.93	-1.682e+04	-1894.17 3.755e+05
		-5.418e+05	-1894.17	-2.08e-03		439.5	262.46	5909.19	8.93	-2.009e+04	2032.03 1.835e+04
60	21	4.629e+05	2569.20	-0.02	-0.52	0.0	262.58	-8238.76	11.10	-1.940e+04	-2309.44 4.629e+05
		-5.744e+05	-2309.44	-2.37e-03		439.5	262.58	6353.40	11.10	-2.274e+04	2569.20 1.710e+04
60	22	4.732e+05	8.803e+04	-0.09	-0.73	0.0	-1251.56	-8080.90	479.54	-4.343e+04	-1.227e+05 -3.111e+05
		-1.057e+06	-1.227e+05	-0.02		439.5	-1251.56	1.225e+04	479.54	-6.130e+04	8.803e+04 4.732e+05
60	23	1.053e+06	1.190e+05	-0.04	-0.32	0.0	1739.85	-6492.47	-461.24	1.436e+04	1.190e+05 1.053e+06
		-4.359e+05	-8.372e+04	0.02		439.5	1739.85	-597.81	-461.24	2.522e+04	-8.372e+04 -4.359e+05
60	24	2.632e+06	6.227e+04	-0.33	-0.33	0.0	10.38	6326.05	-333.41	1.259e+05	6.227e+04 -1.048e+06
		-1.048e+06	-8.426e+04	0.01		439.5	10.38	8303.81	-333.41	1.296e+05	-8.426e+04 2.632e+06
60	25	1.719e+06	8.515e+04	-0.39	-0.98	0.0	-73.13	-2.062e+04	337.07	-1.720e+05	-6.299e+04 1.719e+06
		-2.665e+06	-6.299e+04	-0.02		439.5	-73.13	3524.03	337.07	-1.822e+05	8.515e+04 -2.580e+06
60	26	4.491e+05	9.525e+04	-0.09	-0.72	0.0	-1209.91	-8117.10	515.15	-3.845e+04	-1.312e+05 -2.713e+05
		-1.032e+06	-1.312e+05	-0.02		439.5	-1209.91	1.198e+04	515.15	-5.582e+04	9.525e+04 4.491e+05
60	27	1.011e+06	1.276e+05	-0.04	-0.32	0.0	1694.61	-6453.64	-497.57	9021.90	1.276e+05 1.011e+06
		-4.101e+05	-9.110e+04	0.02		439.5	1694.61	-300.34	-497.57	1.935e+04	-9.110e+04 -4.101e+05
60	28	1.792e+06	3.877e+04	-0.23	-0.37	0.0	500.55	2998.63	-208.66	9.106e+04	3.877e+04 -9.395e+05
		-9.395e+05	-5.293e+04	9.76e-03		439.5	500.55	7946.28	-208.66	9.273e+04	-5.293e+04 1.792e+06
60	29	1.680e+06	5.825e+04	-0.27	-0.83	0.0	-738.33	-1.731e+04	230.84	-1.243e+05	-4.320e+04 1.680e+06

		-1.770e+06	-4.320e+04	-0.01		439.5	-738.33	3912.27	230.84	-1.325e+05	5.825e+04	-1.646e+06
60	30	4.637e+05	1.020e+05	-0.09	-0.73	0.0	-1281.90	-8063.71	546.12	-4.261e+04	-1.380e+05	-3.114e+05
		-1.057e+06	-1.380e+05	-0.02		439.5	-1281.90	1.220e+04	546.12	-6.018e+04	1.020e+05	4.637e+05
60	31	1.063e+06	1.341e+05	-0.04	-0.32	0.0	1783.83	-6517.61	-526.90	1.497e+04	1.341e+05	1.063e+06
		-4.321e+05	-9.748e+04	0.02		439.5	1783.83	-607.17	-526.90	2.568e+04	-9.748e+04	-4.321e+05
60	32	2.574e+06	5.403e+04	-0.32	-0.33	0.0	49.17	6210.47	-289.53	1.215e+05	5.403e+04	-1.084e+06
		-1.084e+06	-7.322e+04	0.01		439.5	49.17	8388.12	-289.53	1.251e+05	-7.322e+04	2.574e+06
60	33	1.681e+06	7.325e+04	-0.38	-0.97	0.0	-206.97	-2.031e+04	289.71	-1.713e+05	-5.408e+04	1.681e+06
		-2.607e+06	-5.408e+04	-0.02		439.5	-206.97	3667.14	289.71	-1.814e+05	7.325e+04	-2.513e+06
60	34	4.637e+05	1.020e+05	-0.09	-0.73	0.0	-1281.90	-8063.71	546.12	-4.261e+04	-1.380e+05	-3.114e+05
		-1.057e+06	-1.380e+05	-0.02		439.5	-1281.90	1.220e+04	546.12	-6.018e+04	1.020e+05	4.637e+05
60	35	1.063e+06	1.341e+05	-0.04	-0.32	0.0	1783.83	-6517.61	-526.90	1.497e+04	1.341e+05	1.063e+06
		-4.321e+05	-9.748e+04	0.02		439.5	1783.83	-607.17	-526.90	2.568e+04	-9.748e+04	-4.321e+05
60	36	1.841e+06	3.778e+04	-0.26	-0.36	0.0	414.91	3486.65	-203.50	1.013e+05	3.778e+04	-9.686e+05
		-9.686e+05	-5.166e+04	0.01		439.5	414.91	7644.88	-203.50	1.035e+05	-5.166e+04	1.841e+06
60	37	1.703e+06	5.452e+04	-0.29	-0.86	0.0	-940.93	-1.757e+04	215.91	-1.328e+05	-4.037e+04	1.703e+06
		-1.764e+06	-4.037e+04	-0.01		439.5	-940.93	4310.28	215.91	-1.413e+05	5.452e+04	-1.620e+06
60	38	3.073e+05	1934.87	-0.02	-0.45	0.0	105.89	-6497.92	8.37	-1.429e+04	-1744.12	3.073e+05
		-4.856e+05	-1744.12	-1.80e-03		439.5	105.89	5438.02	8.37	-1.748e+04	1934.87	4.154e+04
60	39	3.755e+05	2032.03	-0.02	-0.49	0.0	262.46	-7383.08	8.93	-1.682e+04	-1894.17	3.755e+05
		-5.418e+05	-1894.17	-2.08e-03		439.5	262.46	5909.19	8.93	-2.009e+04	2032.03	1.835e+04
60	40	3.248e+05	2042.30	-0.02	-0.46	0.0	105.91	-6669.05	8.80	-1.480e+04	-1827.17	3.248e+05
		-4.921e+05	-1827.17	-1.85e-03		439.5	105.91	5526.87	8.80	-1.801e+04	2042.30	4.129e+04
60	41	3.658e+05	2018.15	-0.02	-0.48	0.0	240.09	-7256.63	8.85	-1.646e+04	-1872.73	3.658e+05
		-5.338e+05	-1872.73	-2.04e-03		439.5	240.09	5841.88	8.85	-1.972e+04	2018.15	2.167e+04
60	42	3.833e+05	2125.58	-0.02	-0.49	0.0	240.12	-7427.77	9.29	-1.697e+04	-1955.78	3.833e+05
		-5.403e+05	-1955.78	-2.10e-03		439.5	240.12	5930.72	9.29	-2.025e+04	2125.58	2.142e+04
60	43	3.073e+05	1934.87	-0.02	-0.45	0.0	105.89	-6497.92	8.37	-1.429e+04	-1744.12	3.073e+05
		-4.856e+05	-1744.12	-1.80e-03		439.5	105.89	5438.02	8.37	-1.748e+04	1934.87	4.154e+04
60	44	3.658e+05	2018.15	-0.02	-0.48	0.0	240.09	-7256.63	8.85	-1.646e+04	-1872.73	3.658e+05
		-5.338e+05	-1872.73	-2.04e-03		439.5	240.09	5841.88	8.85	-1.972e+04	2018.15	2.167e+04
60	45	3.073e+05	1934.87	-0.02	-0.45	0.0	105.89	-6497.92	8.37	-1.429e+04	-1744.12	3.073e+05
		-4.856e+05	-1744.12	-1.80e-03		439.5	105.89	5438.02	8.37	-1.748e+04	1934.87	4.154e+04
60	46	3.658e+05	2018.15	-0.02	-0.48	0.0	240.09	-7256.63	8.85	-1.646e+04	-1872.73	3.658e+05
		-5.338e+05	-1872.73	-2.04e-03		439.5	240.09	5841.88	8.85	-1.972e+04	2018.15	2.167e+04
61	1	4.356e+05	2306.43	-7.18e-03	-0.56	0.0	-108.15	-4990.74	15.43	6812.64	-2715.33	2.389e+05
		-1.244e+05	-2715.33	4.38e-04		325.5	-108.15	6236.23	15.43	4072.82	2306.43	4.356e+05
61	2	4.907e+05	2627.98	-8.54e-03	-0.58	0.0	-68.60	-5285.72	17.46	7225.41	-3056.52	2.735e+05
		-1.098e+05	-3056.52	4.70e-04		325.5	-68.60	6664.10	17.46	4480.85	2627.98	4.907e+05
61	3	5.934e+05	2833.08	-0.01	-0.63	0.0	125.18	-5865.24	18.84	7896.25	-3300.74	3.361e+05
		-8.634e+04	-3300.74	5.23e-04		325.5	125.18	7498.69	18.84	5132.51	2833.08	5.934e+05
61	4	6.485e+05	3154.63	-0.01	-0.66	0.0	164.74	-6160.23	20.88	8309.01	-3641.93	3.706e+05
		-7.174e+04	-3641.93	5.56e-04		325.5	164.74	7926.57	20.88	5540.54	3154.63	6.485e+05
61	5	2.946e+05	1639.14	-4.72e-03	-0.41	0.0	-143.03	-3614.80	10.99	4962.65	-1938.61	1.588e+05
		-1.054e+05	-1938.61	3.15e-04		325.5	-143.03	4473.39	10.99	2861.22	1639.14	2.946e+05
61	6	3.498e+05	1960.69	-6.08e-03	-0.44	0.0	-103.47	-3909.78	13.03	5375.41	-2279.80	1.934e+05
		-9.083e+04	-2279.80	3.47e-04		325.5	-103.47	4901.26	13.03	3269.25	1960.69	3.498e+05
61	7	4.524e+05	2165.79	-7.86e-03	-0.49	0.0	90.31	-4489.30	14.41	6046.25	-2524.02	2.560e+05
		-6.739e+04	-2524.02	4.00e-04		325.5	90.31	5735.86	14.41	3920.91	2165.79	4.524e+05
61	8	5.075e+05	2487.34	-9.22e-03	-0.51	0.0	129.87	-4784.29	16.44	6459.02	-2865.21	2.906e+05
		-5.279e+04	-2865.21	4.33e-04		325.5	129.87	6163.73	16.44	4328.95	2487.34	5.075e+05
61	9	5.458e+05	2949.54	-9.90e-03	-0.61	0.0	-29.04	-5580.71	19.50	7638.17	-3397.72	3.081e+05
		-9.518e+04	-3397.72	5.03e-04		325.5	-29.04	7091.98	19.50	4888.88	2949.54	5.458e+05
61	10	5.460e+05	2675.08	-9.38e-03	-0.61	0.0	55.18	-5602.89	17.82	7571.17	-3125.12	3.069e+05
		-9.775e+04	-3125.12	4.98e-04		325.5	55.18	7119.95	17.82	4814.60	2675.08	5.460e+05
61	11	6.563e+05	3318.19	-0.01	-0.66	0.0	134.30	-6192.86	21.89	8396.69	-3807.50	3.761e+05
		-6.855e+04	-3807.50	5.63e-04		325.5	134.30	7975.71	21.89	5630.67	3318.19	6.563e+05
61	12	4.049e+05	2282.25	-7.44e-03	-0.46	0.0	-63.91	-4204.77	15.06	5788.18	-2621.00	2.280e+05
		-7.623e+04	-2621.00	3.80e-04		325.5	-63.91	5329.14	15.06	3677.28	2282.25	4.049e+05
61	13	4.051e+05	2007.79	-6.92e-03	-0.46	0.0	20.31	-4226.95	13.38	5721.17	-2348.40	2.269e+05
		-7.880e+04	-2348.40	3.75e-04		325.5	20.31	5357.11	13.38	3603.00	2007.79	4.051e+05
61	14	5.153e+05	2650.90	-9.64e-03	-0.51	0.0	99.43	-4816.92	17.46	6546.70	-3030.78	2.960e+05
		-4.960e+04	-3030.78	4.40e-04		325.5	99.43	6212.87	17.46	4419.07	2650.90	5.153e+05
61	15	3.297e+05	1756.17	-5.42e-03	-0.43	0.0	-91.17	-3809.13	11.75	5203.45	-2068.70	1.804e+05
		-9.698e+04	-2068.70	3.34e-04		325.5	-91.17	4753.94	11.75	3096.71	1756.17	3.297e+05
61	16	3.664e+05	1970.54	-6.32e-03	-0.44	0.0	-64.80	-4005.79	13.11	5478.62	-2296.16	2.035e+05
		-8.724e+04	-2296.16	3.55e-04		325.5	-64.80	5039.19	13.11	3368.73	1970.54	3.664e+05
61	17	4.349e+05	2107.27	-7.51e-03	-0.48	0.0	64.38	-4392.14	14.03	5925.85	-2458.98	2.452e+05
		-7.162e+04	-2458.98	3.91e-04		325.5	64.38	5595.58	14.03	3803.17	2107.27	4.349e+05
61	18	4.716e+05	2321.64	-8.42e-03	-0.49	0.0	90.76	-4588.79	15.39	6201.03	-2686.44	2.683e+05
		-6.188e+04	-2686.44	4.13e-04		325.5	90.76	5880.83	15.39	4075.19	2321.64	4.716e+05
61	19	4.032e+05	2184.91	-7.23e-03	-0.46	0.0	-38.43	-4202.45	14.47	5753.80	-2523.63	2.265e+05
		-7.751e+04	-2523.63	3.77e-04		325.5	-38.43	5324.44	14.47	3640.75	2184.91	4.032e+05
61	20	4.033e+05	2001.94	-6.89e-03	-0.46	0.0	17.72	-4217.23	13.35	5709.13	-2341.89	2.258e+05
		-7.923e+04	-2341.89	3.74e-04		325.5	17.72	5343.09	13.35	3591.23	2001.94	4.033e+05
61	21	4.768e+05	2430.68	-8.70e-03	-0.50	0.0	70.46	-4610.55	16.06	6259.48	-2796.82	2.719e+05
		-5.976e+04	-2796.82	4.17e-04		325.5	70.46	5913.59	16.06	4135.27	2430.68	4.768e+05

61	22	-6.758e+04	-1.885e+04	0.01	-0.65	0.0	-2220.73	-6697.33	-212.69	2.525e+04	-1.885e+04	-1.919e+05
		-7.023e+05	-8.808e+04	4.41e-03		325.5	-2220.73	7412.62	-212.69	1.278e+04	-8.808e+04	-6.758e+04
61	23	8.586e+05	9.268e+04	-0.02	-0.32	0.0	2238.54	-1656.81	240.66	-1.201e+04	1.435e+04	6.375e+05
		5.377e+05	1.435e+04	-3.70e-03		325.5	2238.54	3128.19	240.66	-4235.40	9.268e+04	8.586e+05
61	24	1.787e+06	5.880e+04	-0.24	-0.59	0.0	695.56	9467.41	-365.21	1.699e+05	5.880e+04	-3.005e+06
		-3.005e+06	-6.008e+04	0.01		325.5	695.56	1.883e+04	-365.21	1.675e+05	-6.008e+04	1.787e+06
61	25	3.308e+06	6.057e+04	-0.25	-0.58	0.0	-762.52	-1.760e+04	369.12	-1.553e+05	-5.958e+04	3.308e+06
		-1.103e+06	-5.958e+04	-0.01		325.5	-762.52	-8291.10	369.12	-1.568e+05	6.057e+04	-1.103e+06
61	26	-4.066e+04	-2.200e+04	9.77e-03	-0.64	0.0	-2161.42	-6618.02	-212.87	2.399e+04	-2.200e+04	-1.670e+05
		-6.707e+05	-9.129e+04	4.42e-03		325.5	-2161.42	7349.92	-212.87	1.180e+04	-9.129e+04	-4.066e+04
61	27	8.300e+05	9.590e+04	-0.02	-0.32	0.0	2174.02	-1740.60	240.71	-1.084e+04	1.755e+04	6.113e+05
		5.050e+05	1.755e+04	-3.72e-03		325.5	2174.02	3193.17	240.71	-3355.65	9.590e+04	8.300e+05
61	28	1.453e+06	3.639e+04	-0.18	-0.56	0.0	-127.23	4918.18	-227.27	1.234e+05	3.639e+04	-1.845e+06
		-1.845e+06	-3.758e+04	9.92e-03		325.5	-127.23	1.448e+04	-227.27	1.209e+05	-3.758e+04	1.453e+06
61	29	2.447e+06	4.171e+04	-0.20	-0.55	0.0	-585.81	-1.381e+04	254.36	-1.122e+05	-4.108e+04	2.447e+06
		-6.718e+05	-4.108e+04	-9.19e-03		325.5	-585.81	-4420.47	254.36	-1.139e+05	4.171e+04	-6.718e+05
61	30	-7.848e+04	-2.707e+04	0.01	-0.65	0.0	-2285.13	-6704.98	-196.92	2.559e+04	-2.707e+04	-1.921e+05
		-7.058e+05	-9.117e+04	4.44e-03		325.5	-2285.13	7353.25	-196.92	1.332e+04	-9.117e+04	-7.848e+04
61	31	8.765e+05	9.570e+04	-0.02	-0.32	0.0	2323.33	-1628.65	224.91	-1.236e+04	2.249e+04	6.428e+05
		5.469e+05	2.249e+04	-3.74e-03		325.5	2323.33	3178.78	224.91	-4710.39	9.570e+04	8.765e+05
61	32	1.685e+06	5.118e+04	-0.24	-0.59	0.0	564.17	8849.32	-317.82	1.674e+05	5.118e+04	-2.900e+06
		-2.900e+06	-5.227e+04	0.01		325.5	564.17	1.819e+04	-317.82	1.649e+05	-5.227e+04	1.685e+06
61	33	3.179e+06	5.218e+04	-0.25	-0.57	0.0	-708.22	-1.711e+04	318.25	-1.526e+05	-5.141e+04	3.179e+06
		-1.075e+06	-5.141e+04	-0.01		325.5	-708.22	-7840.30	318.25	-1.541e+05	5.218e+04	-1.075e+06
61	34	-7.848e+04	-2.707e+04	0.01	-0.65	0.0	-2285.13	-6704.98	-196.92	2.559e+04	-2.707e+04	-1.921e+05
		-7.058e+05	-9.117e+04	4.44e-03		325.5	-2285.13	7353.25	-196.92	1.332e+04	-9.117e+04	-7.848e+04
61	35	8.765e+05	9.570e+04	-0.02	-0.32	0.0	2323.33	-1628.65	224.91	-1.236e+04	2.249e+04	6.428e+05
		5.469e+05	2.249e+04	-3.74e-03		325.5	2323.33	3178.78	224.91	-4710.39	9.570e+04	8.765e+05
61	36	1.488e+06	3.557e+04	-0.20	-0.57	0.0	-365.61	5351.61	-222.09	1.349e+05	3.557e+04	-1.970e+06
		-1.970e+06	-3.672e+04	0.01		325.5	-365.61	1.494e+04	-222.09	1.323e+05	-3.672e+04	1.488e+06
61	37	2.512e+06	3.906e+04	-0.21	-0.56	0.0	-619.96	-1.398e+04	238.31	-1.211e+05	-3.851e+04	2.512e+06
		-6.761e+05	-3.851e+04	-9.90e-03		325.5	-619.96	-4610.16	238.31	-1.227e+05	3.906e+04	-6.761e+05
61	38	3.297e+05	1756.17	-5.42e-03	-0.43	0.0	-91.17	-3809.13	11.75	5203.45	-2068.70	1.804e+05
		-9.698e+04	-2068.70	3.34e-04		325.5	-91.17	4753.94	11.75	3096.71	1756.17	3.297e+05
61	39	4.033e+05	2001.94	-6.89e-03	-0.46	0.0	17.72	-4217.23	13.35	5709.13	-2341.89	2.258e+05
		-7.923e+04	-2341.89	3.74e-04		325.5	17.72	5343.09	13.35	3591.23	2001.94	4.033e+05
61	40	3.444e+05	1841.92	-5.78e-03	-0.43	0.0	-80.62	-3887.79	12.29	5313.52	-2159.69	1.897e+05
		-9.308e+04	-2159.69	3.42e-04		325.5	-80.62	4868.04	12.29	3205.51	1841.92	3.444e+05
61	41	3.928e+05	1966.83	-6.68e-03	-0.46	0.0	2.16	-4158.93	13.12	5636.89	-2302.87	2.193e+05
		-8.176e+04	-2302.87	3.68e-04		325.5	2.16	5258.92	13.12	3520.58	1966.83	3.928e+05
61	42	4.075e+05	2052.58	-7.04e-03	-0.46	0.0	12.71	-4237.60	13.66	5746.96	-2393.85	2.285e+05
		-7.787e+04	-2393.85	3.77e-04		325.5	12.71	5373.02	13.66	3629.39	2052.58	4.075e+05
61	43	3.297e+05	1756.17	-5.42e-03	-0.43	0.0	-91.17	-3809.13	11.75	5203.45	-2068.70	1.804e+05
		-9.698e+04	-2068.70	3.34e-04		325.5	-91.17	4753.94	11.75	3096.71	1756.17	3.297e+05
61	44	3.928e+05	1966.83	-6.68e-03	-0.46	0.0	2.16	-4158.93	13.12	5636.89	-2302.87	2.193e+05
		-8.176e+04	-2302.87	3.68e-04		325.5	2.16	5258.92	13.12	3520.58	1966.83	3.928e+05
61	45	3.297e+05	1756.17	-5.42e-03	-0.43	0.0	-91.17	-3809.13	11.75	5203.45	-2068.70	1.804e+05
		-9.698e+04	-2068.70	3.34e-04		325.5	-91.17	4753.94	11.75	3096.71	1756.17	3.297e+05
61	46	3.928e+05	1966.83	-6.68e-03	-0.46	0.0	2.16	-4158.93	13.12	5636.89	-2302.87	2.193e+05
		-8.176e+04	-2302.87	3.68e-04		325.5	2.16	5258.92	13.12	3520.58	1966.83	3.928e+05
62	1	1.829e+05	2599.64	3.25e-03	-0.55	0.0	37.73	-5193.80	20.55	2.277e+04	-4129.20	5.756e+04
		-3.363e+05	-4129.20	1.81e-03		327.5	37.73	5956.16	20.55	1.960e+04	2599.64	1.829e+05
62	2	2.210e+05	2985.39	3.58e-03	-0.58	0.0	48.89	-5399.56	23.42	2.460e+04	-4683.69	5.721e+04
		-3.463e+05	-4683.69	1.97e-03		327.5	48.89	6410.50	23.42	2.139e+04	2985.39	2.210e+05
62	3	2.809e+05	3305.81	5.45e-03	-0.62	0.0	256.09	-5775.75	26.18	2.815e+04	-5267.88	2.510e+04
		-3.916e+05	-5267.88	2.26e-03		327.5	256.09	7365.97	26.18	2.486e+04	3305.81	2.809e+05
62	4	3.190e+05	3691.57	-8.04e-03	-0.65	0.0	267.25	-5981.51	29.05	2.998e+04	-5822.37	2.475e+04
		-4.017e+05	-5822.37	2.42e-03		327.5	267.25	7820.30	29.05	2.665e+04	3691.57	3.190e+05
62	5	1.156e+05	1818.65	2.76e-03	-0.41	0.0	-26.97	-3846.02	14.36	1.614e+04	-2884.34	5.260e+04
		-2.456e+05	-2884.34	1.28e-03		327.5	-26.97	4220.18	14.36	1.373e+04	1818.65	1.156e+05
62	6	1.536e+05	2204.40	2.47e-03	-0.43	0.0	-15.81	-4051.78	17.23	1.797e+04	-3438.83	5.225e+04
		-2.545e+05	-3438.83	1.43e-03		327.5	-15.81	4674.51	17.23	1.552e+04	2204.40	1.536e+05
62	7	2.136e+05	2524.82	4.08e-03	-0.48	0.0	191.39	-4427.97	19.99	2.152e+04	-4023.02	2.014e+04
		-2.998e+05	-4023.02	1.73e-03		327.5	191.39	5629.98	19.99	1.899e+04	2524.82	2.136e+05
62	8	2.516e+05	2910.58	-6.68e-03	-0.50	0.0	202.55	-4633.73	22.86	2.335e+04	-4577.51	1.979e+04
		-3.099e+05	-4577.51	1.88e-03		327.5	202.55	6084.32	22.86	2.078e+04	2910.58	2.516e+05
62	9	2.590e+05	3371.15	4.89e-03	-0.60	0.0	60.04	-5605.32	26.29	2.643e+04	-5238.18	5.686e+04
		-3.564e+05	-5238.18	2.12e-03		327.5	60.04	6864.84	26.29	2.318e+04	3371.15	2.590e+05
62	10	2.515e+05	3093.96	4.33e-03	-0.60	0.0	190.58	-5601.17	24.49	2.654e+04	-4926.28	3.484e+04
		-3.750e+05	-4926.28	2.13e-03		327.5	190.58	6943.03	24.49	2.328e+04	3093.96	2.515e+05
62	11	3.276e+05	3865.47	-9.01e-03	-0.65	0.0	212.89	-6012.69	30.23	3.020e+04	-6035.26	3.413e+04
		-3.952e+05	-6035.26	2.43e-03		327.5	212.89	7851.70	30.23	2.686e+04	3865.47	3.276e+05
62	12	1.917e+05	2590.16	3.53e-03	-0.45	0.0	-4.66	-4257.54	20.10	1.980e+04	-3993.32	5.190e+04
		-2.646e+05	-3993.32	1.59e-03		327.5	-4.66	5128.85	20.10	1.731e+04	2590.16	1.917e+05
62	13	1.842e+05	2312.97	3.07e-03	-0.46	0.0	125.89	-4253.38	18.30	1.990e+04	-3681.42	2.988e+04
		-2.832e+05	-3681.42	1.59e-03		327.5	125.89	5207.04	18.30	1.741e+04	2312.97	1.842e+05
62	14	2.603e+05	3084.48	-7.65e-03	-0.50	0.0	148.19	-4664.90	24.05	2.356e+04	-4790.40	2.917e+04

		-3.034e+05	-4790.40	1.90e-03		327.5	148.19	6115.71	24.05	2.099e+04	3084.48	2.603e+05
62	15	1.374e+05	1975.58	2.51e-03	-0.42	0.0	21.56	-3975.34	15.61	1.734e+04	-3137.38	4.539e+04
		-2.568e+05	-3137.38	1.38e-03		327.5	21.56	4533.47	15.61	1.490e+04	1975.58	1.374e+05
62	16	1.627e+05	2232.75	2.61e-03	-0.44	0.0	28.99	-4112.51	17.53	1.855e+04	-3507.04	4.515e+04
		-2.635e+05	-3507.04	1.48e-03		327.5	28.99	4836.36	17.53	1.609e+04	2232.75	1.627e+05
62	17	2.027e+05	2446.36	3.65e-03	-0.47	0.0	167.13	-4363.30	19.37	2.092e+04	-3896.50	2.375e+04
		-2.937e+05	-3896.50	1.68e-03		327.5	167.13	5473.34	19.37	1.840e+04	2446.36	2.027e+05
62	18	2.281e+05	2703.53	-5.06e-03	-0.49	0.0	174.57	-4500.48	21.28	2.214e+04	-4266.16	2.351e+04
		-3.004e+05	-4266.16	1.78e-03		327.5	174.57	5776.23	21.28	1.960e+04	2703.53	2.281e+05
62	19	1.881e+05	2489.92	3.29e-03	-0.45	0.0	36.43	-4249.68	19.44	1.977e+04	-3876.70	4.492e+04
		-2.702e+05	-3876.70	1.58e-03		327.5	36.43	5139.25	19.44	1.729e+04	2489.92	1.881e+05
62	20	1.831e+05	2305.13	3.04e-03	-0.46	0.0	123.46	-4246.91	18.24	1.984e+04	-3668.77	3.024e+04
		-2.826e+05	-3668.77	1.59e-03		327.5	123.46	5191.37	18.24	1.735e+04	2305.13	1.831e+05
62	21	2.338e+05	2819.47	-5.71e-03	-0.49	0.0	138.33	-4521.26	22.07	2.228e+04	-4408.09	2.977e+04
		-2.960e+05	-4408.09	1.79e-03		327.5	138.33	5797.16	22.07	1.974e+04	2819.47	2.338e+05
62	22	3.320e+05	1.152e+05	-0.06	-0.72	0.0	-1176.08	-1.002e+04	-736.27	7.600e+04	1.152e+05	3.320e+05
		-7.027e+05	-1.259e+05	0.02		327.5	-1176.08	5288.63	-736.27	6.209e+04	-1.259e+05	-3.903e+05
62	23	7.487e+05	1.320e+05	-0.07	-0.29	0.0	1401.54	1582.37	781.06	-3.806e+04	-1.238e+05	-2.666e+05
		-2.666e+05	-1.238e+05	-0.01		327.5	1401.54	4957.11	781.06	-2.958e+04	1.320e+05	7.487e+05
62	24	-2.735e+05	9.157e+04	-0.40	-1.01	0.0	652.30	-3504.43	-481.20	2.272e+05	9.157e+04	-2.503e+06
		-2.584e+06	-6.603e+04	0.02		327.5	652.30	1.516e+04	-481.20	2.186e+05	-6.603e+04	-2.735e+05
62	25	2.573e+06	6.622e+04	0.39	-0.31	0.0	-723.12	-5260.24	483.47	-1.647e+05	-9.212e+04	2.573e+06
		5.335e+05	-9.212e+04	-0.01		327.5	-723.12	-5270.39	483.47	-1.612e+05	6.622e+04	5.335e+05
62	26	3.159e+05	1.208e+05	-0.06	-0.71	0.0	-1140.89	-9759.99	-774.99	6.979e+04	1.208e+05	3.159e+05
		-6.801e+05	-1.330e+05	0.02		327.5	-1140.89	5343.85	-774.99	5.627e+04	-1.330e+05	-3.570e+05
62	27	7.137e+05	1.390e+05	-0.06	-0.30	0.0	1363.37	1307.54	819.72	-3.173e+04	-1.294e+05	-2.496e+05
		-2.496e+05	-1.294e+05	-0.01		327.5	1363.37	4897.35	819.72	-2.366e+04	1.390e+05	7.137e+05
62	28	2.964e+05	5.681e+04	-0.27	-0.84	0.0	-574.46	-3468.50	-299.13	1.514e+05	5.681e+04	-1.425e+06
		-1.524e+06	-4.116e+04	0.01		327.5	-574.46	1.267e+04	-299.13	1.447e+05	-4.116e+04	2.964e+05
62	29	1.566e+06	4.547e+04	0.28	-0.35	0.0	298.78	-4783.00	332.33	-1.119e+05	-6.337e+04	1.566e+06
		1.789e+05	-6.337e+04	-8.62e-03		327.5	298.78	-2315.14	332.33	-1.101e+05	4.547e+04	1.789e+05
62	30	3.439e+05	1.235e+05	-0.07	-0.72	0.0	-1219.15	-1.008e+04	-798.25	7.582e+04	1.235e+05	3.439e+05
		-7.047e+05	-1.379e+05	0.02		327.5	-1219.15	5193.50	-798.25	6.209e+04	-1.379e+05	-4.029e+05
62	31	7.693e+05	1.437e+05	-0.07	-0.29	0.0	1456.45	1699.16	841.69	-3.887e+04	-1.320e+05	-2.830e+05
		-2.830e+05	-1.320e+05	-0.02		327.5	1456.45	5072.08	841.69	-3.050e+04	1.437e+05	7.693e+05
62	32	-2.344e+05	7.959e+04	-0.40	-1.00	0.0	455.78	-3467.71	-417.92	2.217e+05	7.959e+04	-2.443e+06
		-2.523e+06	-5.728e+04	0.02		327.5	455.78	1.504e+04	-417.92	2.133e+05	-5.728e+04	-2.344e+05
62	33	2.515e+06	5.677e+04	0.38	-0.31	0.0	-585.81	-5382.61	415.15	-1.594e+05	-7.919e+04	2.515e+06
		4.691e+05	-7.919e+04	-0.01		327.5	-585.81	-5238.82	415.15	-1.560e+05	5.677e+04	4.691e+05
62	34	3.439e+05	1.235e+05	-0.07	-0.72	0.0	-1219.15	-1.008e+04	-798.25	7.582e+04	1.235e+05	3.439e+05
		-7.047e+05	-1.379e+05	0.02		327.5	-1219.15	5193.50	-798.25	6.209e+04	-1.379e+05	-4.029e+05
62	35	7.693e+05	1.437e+05	-0.07	-0.29	0.0	1456.45	1699.16	841.69	-3.887e+04	-1.320e+05	-2.830e+05
		-2.830e+05	-1.320e+05	-0.02		327.5	1456.45	5072.08	841.69	-3.050e+04	1.437e+05	7.693e+05
62	36	2.226e+05	5.537e+04	-0.29	-0.88	0.0	-931.55	-4188.19	-291.30	1.634e+05	5.537e+04	-1.391e+06
		-1.529e+06	-4.002e+04	0.01		327.5	-931.55	1.261e+04	-291.30	1.562e+05	-4.002e+04	2.226e+05
62	37	1.545e+06	4.234e+04	0.30	-0.34	0.0	455.42	-4293.28	309.76	-1.191e+05	-5.911e+04	1.545e+06
		2.143e+05	-5.911e+04	-9.21e-03		327.5	455.42	-2365.94	309.76	-1.170e+05	4.234e+04	2.143e+05
62	38	1.374e+05	1975.58	2.51e-03	-0.42	0.0	21.56	-3975.34	15.61	1.734e+04	-3137.38	4.539e+04
		-2.568e+05	-3137.38	1.38e-03		327.5	21.56	4533.47	15.61	1.490e+04	1975.58	1.374e+05
62	39	1.831e+05	2305.13	3.04e-03	-0.46	0.0	123.46	-4246.91	18.24	1.984e+04	-3668.77	3.024e+04
		-2.826e+05	-3668.77	1.59e-03		327.5	123.46	5191.37	18.24	1.735e+04	2305.13	1.831e+05
62	40	1.475e+05	2078.45	2.49e-03	-0.43	0.0	24.53	-4030.21	16.38	1.782e+04	-3285.25	4.529e+04
		-2.594e+05	-3285.25	1.42e-03		327.5	24.53	4654.62	16.38	1.538e+04	2078.45	1.475e+05
62	41	1.766e+05	2258.05	2.90e-03	-0.45	0.0	108.90	-4208.12	17.87	1.949e+04	-3592.85	3.240e+04
		-2.789e+05	-3592.85	1.56e-03		327.5	108.90	5097.39	17.87	1.700e+04	2258.05	1.766e+05
62	42	1.867e+05	2360.92	3.16e-03	-0.46	0.0	111.88	-4262.99	18.63	1.997e+04	-3740.72	3.231e+04
		-2.816e+05	-3740.72	1.60e-03		327.5	111.88	5218.54	18.63	1.748e+04	2360.92	1.867e+05
62	43	1.374e+05	1975.58	2.51e-03	-0.42	0.0	21.56	-3975.34	15.61	1.734e+04	-3137.38	4.539e+04
		-2.568e+05	-3137.38	1.38e-03		327.5	21.56	4533.47	15.61	1.490e+04	1975.58	1.374e+05
62	44	1.766e+05	2258.05	2.90e-03	-0.45	0.0	108.90	-4208.12	17.87	1.949e+04	-3592.85	3.240e+04
		-2.789e+05	-3592.85	1.56e-03		327.5	108.90	5097.39	17.87	1.700e+04	2258.05	1.766e+05
62	45	1.374e+05	1975.58	2.51e-03	-0.42	0.0	21.56	-3975.34	15.61	1.734e+04	-3137.38	4.539e+04
		-2.568e+05	-3137.38	1.38e-03		327.5	21.56	4533.47	15.61	1.490e+04	1975.58	1.374e+05
62	46	1.766e+05	2258.05	2.90e-03	-0.45	0.0	108.90	-4208.12	17.87	1.949e+04	-3592.85	3.240e+04
		-2.789e+05	-3592.85	1.56e-03		327.5	108.90	5097.39	17.87	1.700e+04	2258.05	1.766e+05
63	1	1.181e+06	4233.34	0.04	-0.57	0.0	-47.22	-8813.52	-13.92	-1.833e+04	4233.34	7.283e+04
		-1.102e+06	-4752.75	-1.90e-03		645.8	-47.22	1.249e+04	-13.92	-1.810e+04	-4752.75	1.181e+06
63	2	1.272e+06	4796.55	0.04	-0.59	0.0	-41.98	-9298.09	-15.73	-2.079e+04	4796.55	7.497e+04
		-1.162e+06	-5363.56	-2.20e-03		645.8	-41.98	1.331e+04	-15.73	-2.103e+04	-5363.56	1.272e+06
63	3	1.461e+06	5403.88	0.05	-0.65	0.0	-33.45	-1.031e+04	-17.71	-2.428e+04	5403.88	7.900e+04
		-1.287e+06	-6031.33	-2.65e-03		645.8	-33.45	1.500e+04	-17.71	-2.490e+04	-6031.33	1.461e+06
63	4	1.552e+06	5967.09	0.06	-0.67	0.0	-28.21	-1.079e+04	-19.53	-2.674e+04	5967.09	8.114e+04
		-1.347e+06	-6642.14	-2.95e-03		645.8	-28.21	1.581e+04	-19.53	-2.782e+04	-6642.14	1.552e+06
63	5	8.365e+05	2956.28	0.03	-0.41	0.0	-39.86	-6396.93	-9.73	-1.258e+04	2956.28	5.444e+04
		-8.001e+05	-3328.12	-1.27e-03		645.8	-39.86	8969.07	-9.73	-1.218e+04	-3328.12	8.365e+05
63	6	9.271e+05	3519.48	0.03	-0.44	0.0	-34.62	-6881.50	-11.55	-1.504e+04	3519.48	5.658e+04
		-8.601e+05	-3938.93	-1.57e-03		645.8	-34.62	9780.53	-11.55	-1.511e+04	-3938.93	9.271e+05

63	7	1.117e+06	4126.82	0.04	-0.50	0.0	-26.08	-7889.46	-13.52	-1.852e+04	4126.82	6.061e+04
		-9.850e+05	-4606.70	-2.02e-03		645.8	-26.08	1.147e+04	-13.52	-1.898e+04	-4606.70	1.117e+06
63	8	1.208e+06	4690.02	0.04	-0.52	0.0	-20.84	-8374.03	-15.34	-2.099e+04	4690.02	6.275e+04
		-1.045e+06	-5217.51	-2.32e-03		645.8	-20.84	1.229e+04	-15.34	-2.190e+04	-5217.51	1.208e+06
63	9	1.362e+06	5359.75	0.05	-0.62	0.0	-36.74	-9782.67	-17.55	-2.326e+04	5359.75	7.711e+04
		-1.222e+06	-5974.37	-2.51e-03		645.8	-36.74	1.412e+04	-17.55	-2.395e+04	-5974.37	1.362e+06
63	10	1.377e+06	5052.72	0.05	-0.62	0.0	-37.58	-9858.29	-16.57	-2.249e+04	5052.72	7.715e+04
		-1.231e+06	-5647.76	-2.42e-03		645.8	-37.58	1.425e+04	-16.57	-2.286e+04	-5647.76	1.377e+06
63	11	1.558e+06	6179.13	0.06	-0.68	0.0	-27.10	-1.083e+04	-20.21	-2.742e+04	6179.13	8.143e+04
		-1.351e+06	-6869.38	-3.03e-03		645.8	-27.10	1.587e+04	-20.21	-2.871e+04	-6869.38	1.558e+06
63	12	1.018e+06	4082.69	0.04	-0.47	0.0	-29.38	-7366.08	-13.37	-1.750e+04	4082.69	5.872e+04
		-9.201e+05	-4549.74	-1.88e-03		645.8	-29.38	1.059e+04	-13.37	-1.803e+04	-4549.74	1.018e+06
63	13	1.033e+06	3775.66	0.04	-0.47	0.0	-30.22	-7441.70	-12.39	-1.674e+04	3775.66	5.876e+04
		-9.296e+05	-4223.13	-1.79e-03		645.8	-30.22	1.072e+04	-12.39	-1.694e+04	-4223.13	1.033e+06
63	14	1.214e+06	4902.06	0.04	-0.53	0.0	-19.74	-8410.85	-16.02	-2.166e+04	4902.06	6.304e+04
		-1.050e+06	-5444.75	-2.40e-03		645.8	-19.74	1.235e+04	-16.02	-2.279e+04	-5444.75	1.214e+06
63	15	8.988e+05	3216.40	0.03	-0.43	0.0	-36.80	-6728.60	-10.57	-1.390e+04	3216.40	5.581e+04
		-8.412e+05	-3612.25	-1.44e-03		645.8	-36.80	9525.83	-10.57	-1.369e+04	-3612.25	8.988e+05
63	16	9.592e+05	3591.87	0.03	-0.45	0.0	-33.30	-7051.65	-11.79	-1.554e+04	3591.87	5.724e+04
		-8.812e+05	-4019.46	-1.64e-03		645.8	-33.30	1.007e+04	-11.79	-1.564e+04	-4019.46	9.592e+05
63	17	1.086e+06	3996.76	0.04	-0.49	0.0	-27.61	-7723.62	-13.10	-1.786e+04	3996.76	5.992e+04
		-9.645e+05	-4464.64	-1.94e-03		645.8	-27.61	1.120e+04	-13.10	-1.822e+04	-4464.64	1.086e+06
63	18	1.146e+06	4372.23	0.04	-0.51	0.0	-24.12	-8046.67	-14.32	-1.950e+04	4372.23	6.135e+04
		-1.004e+06	-4871.84	-2.14e-03		645.8	-24.12	1.174e+04	-14.32	-2.017e+04	-4871.84	1.146e+06
63	19	1.020e+06	3967.34	0.04	-0.47	0.0	-29.81	-7374.70	-13.00	-1.718e+04	3967.34	5.867e+04
		-9.212e+05	-4426.66	-1.84e-03		645.8	-29.81	1.061e+04	-13.00	-1.759e+04	-4426.66	1.020e+06
63	20	1.030e+06	3762.65	0.04	-0.47	0.0	-30.37	-7425.11	-12.34	-1.667e+04	3762.65	5.869e+04
		-9.275e+05	-4208.92	-1.79e-03		645.8	-30.37	1.070e+04	-12.34	-1.687e+04	-4208.92	1.030e+06
63	21	1.151e+06	4513.59	0.04	-0.51	0.0	-23.38	-8071.21	-14.77	-1.996e+04	4513.59	6.155e+04
		-1.007e+06	-5023.33	-2.19e-03		645.8	-23.38	1.178e+04	-14.77	-2.076e+04	-5023.33	1.151e+06
63	22	2.103e+06	9.069e+04	0.18	-0.70	0.0	452.73	-7632.76	310.07	-7.492e+04	-1.095e+05	-1.455e+06
		-2.079e+06	-1.095e+05	-0.01		645.8	452.73	1.714e+04	310.07	-6.962e+04	9.069e+04	2.103e+06
63	23	1.497e+06	1.183e+05	-0.22	-0.43	0.0	-469.78	-6953.03	-338.27	4.206e+04	1.183e+05	1.497e+06
		-4.285e+05	-1.001e+05	9.85e-03		645.8	-469.78	3948.82	-338.27	3.652e+04	-1.001e+05	-1.143e+05
63	24	1.541e+06	1.025e+05	0.12	-1.05	0.0	-1439.21	-2.041e+04	305.22	-1.388e+05	-9.462e+04	5.261e+05
		-2.378e+06	-9.462e+04	-0.04		645.8	-1439.21	2.248e+04	305.22	-8.425e+04	1.025e+05	1.541e+06
63	25	6.076e+05	9.517e+04	-0.14	0.15	0.0	1281.59	5499.55	-307.21	7.352e+04	9.517e+04	-3.696e+05
		-3.696e+05	-1.032e+05	0.03		645.8	1281.59	-1737.64	-307.21	1.822e+04	-1.032e+05	3.878e+05
63	26	2.168e+06	9.550e+04	0.17	-0.69	0.0	362.68	-7411.81	326.30	-7.056e+04	-1.152e+05	-1.451e+06
		-2.048e+06	-1.152e+05	-0.01		645.8	362.68	1.721e+04	326.30	-6.544e+04	9.550e+04	2.168e+06
63	27	1.494e+06	1.240e+05	-0.21	-0.43	0.0	-397.32	-7183.04	-354.32	3.749e+04	1.240e+05	1.494e+06
		-4.857e+05	-1.048e+05	9.00e-03		645.8	-397.32	3877.77	-354.32	3.212e+04	-1.048e+05	-1.821e+05
63	28	1.437e+06	6.321e+04	0.08	-0.87	0.0	-966.97	-1.646e+04	188.26	-8.420e+04	-5.836e+04	3.692e+05
		-1.945e+06	-5.836e+04	-0.02		645.8	-966.97	1.918e+04	188.26	-4.854e+04	6.321e+04	1.437e+06
63	29	5.576e+05	6.507e+04	0.11	-0.21	0.0	900.41	1937.42	-210.28	4.548e+04	6.507e+04	-2.519e+05
		-2.519e+05	-7.072e+04	0.02		645.8	900.41	1650.62	-210.28	7453.60	-7.072e+04	5.576e+05
63	30	2.095e+06	9.750e+04	-0.18	-0.69	0.0	40.85	-7714.57	333.43	-7.493e+04	-1.178e+05	-1.413e+06
		-2.050e+06	-1.178e+05	-0.01		645.8	40.85	1.708e+04	333.43	-6.959e+04	9.750e+04	2.095e+06
63	31	1.451e+06	1.265e+05	0.22	-0.43	0.0	-17.66	-6829.25	-361.23	4.318e+04	1.265e+05	1.451e+06
		-4.226e+05	-1.068e+05	9.46e-03		645.8	-17.66	4049.34	-361.23	3.759e+04	-1.068e+05	-9.259e+04
63	32	1.542e+06	8.911e+04	0.11	-1.04	0.0	-1361.87	-2.017e+04	265.18	-1.341e+05	-8.213e+04	5.163e+05
		-2.351e+06	-8.213e+04	-0.04		645.8	-1361.87	2.232e+04	265.18	-8.055e+04	8.911e+04	1.542e+06
63	33	5.807e+05	8.172e+04	0.14	0.14	0.0	1204.12	5232.47	-264.11	7.036e+04	8.172e+04	-3.611e+05
		-3.611e+05	-8.883e+04	0.03		645.8	1204.12	-1480.42	-264.11	1.654e+04	-8.883e+04	4.011e+05
63	34	2.095e+06	9.750e+04	-0.18	-0.69	0.0	40.85	-7714.57	333.43	-7.493e+04	-1.178e+05	-1.413e+06
		-2.050e+06	-1.178e+05	-0.01		645.8	40.85	1.708e+04	333.43	-6.959e+04	9.750e+04	2.095e+06
63	35	1.451e+06	1.265e+05	0.22	-0.43	0.0	-17.66	-6829.25	-361.23	4.318e+04	1.265e+05	1.451e+06
		-4.226e+05	-1.068e+05	9.46e-03		645.8	-17.66	4049.34	-361.23	3.759e+04	-1.068e+05	-9.259e+04
63	36	1.476e+06	6.164e+04	0.09	-0.90	0.0	-1022.64	-1.732e+04	183.39	-9.011e+04	-5.679e+04	3.990e+05
		-2.041e+06	-5.679e+04	-0.02		645.8	-1022.64	1.998e+04	183.39	-5.167e+04	6.164e+04	1.476e+06
63	37	5.109e+05	6.059e+04	0.11	-0.19	0.0	922.08	2617.63	-196.06	4.681e+04	6.059e+04	-2.717e+05
		-2.717e+05	-6.601e+04	0.02		645.8	922.08	929.33	-196.06	6430.88	-6.601e+04	5.109e+05
63	38	8.988e+05	3216.40	0.03	-0.43	0.0	-36.80	-6728.60	-10.57	-1.390e+04	3216.40	5.581e+04
		-8.412e+05	-3612.25	-1.44e-03		645.8	-36.80	9525.83	-10.57	-1.369e+04	-3612.25	8.988e+05
63	39	1.030e+06	3762.65	0.04	-0.47	0.0	-30.37	-7425.11	-12.34	-1.667e+04	3762.65	5.869e+04
		-9.275e+05	-4208.92	-1.79e-03		645.8	-30.37	1.070e+04	-12.34	-1.687e+04	-4208.92	1.030e+06
63	40	9.230e+05	3366.59	0.03	-0.44	0.0	-35.40	-6857.82	-11.06	-1.455e+04	3366.59	5.638e+04
		-8.572e+05	-3775.13	-1.52e-03		645.8	-35.40	9742.22	-11.06	-1.447e+04	-3775.13	9.230e+05
63	41	1.011e+06	3684.62	0.04	-0.47	0.0	-31.29	-7325.61	-12.09	-1.628e+04	3684.62	5.828e+04
		-9.152e+05	-4123.68	-1.74e-03		645.8	-31.29	1.053e+04	-12.09	-1.641e+04	-4123.68	1.011e+06
63	42	1.035e+06	3834.80	0.04	-0.47	0.0	-29.89	-7454.83	-12.58	-1.693e+04	3834.80	5.885e+04
		-9.312e+05	-4286.56	-1.82e-03		645.8	-29.89	1.074e+04	-12.58	-1.719e+04	-4286.56	1.035e+06
63	43	8.988e+05	3216.40	0.03	-0.43	0.0	-36.80	-6728.60	-10.57	-1.390e+04	3216.40	5.581e+04
		-8.412e+05	-3612.25	-1.44e-03		645.8	-36.80	9525.83	-10.57	-1.369e+04	-3612.25	8.988e+05
63	44	1.011e+06	3684.62	0.04	-0.47	0.0	-31.29	-7325.61	-12.09	-1.628e+04	3684.62	5.828e+04
		-9.152e+05	-4123.68	-1.74e-03		645.8	-31.29	1.053e+04	-12.09	-1.641e+04	-4123.68	1.011e+06
63	45	8.988e+05	3216.40	0.03	-0.43	0.0	-36.80	-6728.60	-10.57	-1.390e+04	3216.40	5.581e+04

		-8.412e+05	-3612.25	-1.44e-03			645.8	-36.80	9525.83	-10.57	-1.369e+04	-3612.25	8.988e+05
63	46	1.011e+06	3684.62	0.04	-0.47	0.0	-31.29	-7325.61	-12.09	-1.628e+04	3684.62	5.828e+04
		-9.152e+05	-4123.68	-1.74e-03		645.8	-31.29	1.053e+04	-12.09	-1.641e+04	-4123.68	1.011e+06
64	1	4.218e+05	2647.97	-0.02	-0.59	0.0	543.43	-4325.16	18.44	9242.53	-3392.20	-1.124e+05
		-3.716e+05	-3392.20	8.81e-04		327.5	543.43	7691.34	18.44	1.190e+04	2647.97	4.218e+05
64	2	4.986e+05	2997.50	-0.03	-0.62	0.0	585.36	-4446.34	20.84	1.117e+04	-3828.22	-1.301e+05
		-3.862e+05	-3828.22	1.05e-03		327.5	585.36	8418.67	20.84	1.406e+04	2997.50	4.986e+05
64	3	6.288e+05	3310.98	-0.03	-0.69	0.0	1024.75	-4610.28	23.22	1.419e+04	-4294.83	-2.188e+05
		-4.636e+05	-4294.83	1.32e-03		327.5	1024.75	9960.99	23.22	1.755e+04	3310.98	6.288e+05
64	4	7.056e+05	3660.51	-0.04	-0.72	0.0	1066.68	-4731.46	25.62	1.612e+04	-4730.85	-2.365e+05
		-4.812e+05	-4730.85	1.49e-03		327.5	1066.68	1.069e+04	25.62	1.970e+04	3660.51	7.056e+05
64	5	2.714e+05	1866.90	-0.01	-0.43	0.0	294.61	-3253.94	12.96	5840.82	-2377.94	-5.917e+04
		-2.638e+05	-2377.94	5.64e-04		327.5	294.61	5334.45	12.96	7703.91	1866.90	2.714e+05
64	6	3.482e+05	2216.42	-0.02	-0.46	0.0	336.53	-3375.12	15.36	7766.41	-2813.96	-7.688e+04
		-2.783e+05	-2813.96	7.34e-04		327.5	336.53	6061.78	15.36	9861.74	2216.42	3.482e+05
64	7	4.784e+05	2529.91	-0.03	-0.53	0.0	775.93	-3539.06	17.74	1.079e+04	-3280.57	-1.656e+05
		-3.541e+05	-3280.57	1.01e-03		327.5	775.93	7604.10	17.74	1.335e+04	2529.91	4.784e+05
64	8	5.552e+05	2879.44	-0.03	-0.56	0.0	817.85	-3660.24	20.14	1.271e+04	-3716.59	-1.833e+05
		-3.718e+05	-3716.59	1.18e-03		327.5	817.85	8331.43	20.14	1.551e+04	2879.44	5.552e+05
64	9	5.755e+05	3347.02	-0.03	-0.66	0.0	627.28	-4567.52	23.24	1.309e+04	-4264.24	-1.478e+05
		-4.016e+05	-4264.24	1.22e-03		327.5	627.28	9146.00	23.24	1.621e+04	3347.02	5.755e+05
64	10	5.667e+05	3112.08	-0.03	-0.66	0.0	880.36	-4524.74	21.79	1.271e+04	-4024.04	-1.869e+05
		-4.344e+05	-4024.04	1.19e-03		327.5	880.36	9280.10	21.79	1.585e+04	3112.08	5.667e+05
64	11	7.204e+05	3811.13	-0.04	-0.72	0.0	964.20	-4767.10	26.59	1.656e+04	-4896.08	-2.223e+05
		-4.697e+05	-4896.08	1.53e-03		327.5	964.20	1.073e+04	26.59	2.017e+04	3811.13	7.204e+05
64	12	4.251e+05	2565.95	-0.02	-0.50	0.0	378.46	-3496.30	17.76	9692.01	-3249.98	-9.459e+04
		-2.928e+05	-3249.98	9.04e-04		327.5	378.46	6789.11	17.76	1.202e+04	2565.95	4.251e+05
64	13	4.163e+05	2331.01	-0.02	-0.50	0.0	631.53	-3453.52	16.31	9304.69	-3009.78	-1.336e+05
		-3.249e+05	-3009.78	8.73e-04		327.5	631.53	6923.21	16.31	1.166e+04	2331.01	4.163e+05
64	14	5.700e+05	3030.06	-0.03	-0.56	0.0	715.38	-3695.88	21.10	1.316e+04	-3881.82	-1.691e+05
		-3.602e+05	-3881.82	1.21e-03		327.5	715.38	8377.86	21.10	1.597e+04	3030.06	5.700e+05
64	15	3.174e+05	2014.23	-0.02	-0.45	0.0	401.57	-3317.30	14.02	6940.46	-2578.53	-8.282e+04
		-2.829e+05	-2578.53	6.62e-04		327.5	401.57	5838.82	14.02	8959.25	2014.23	3.174e+05
64	16	3.686e+05	2247.25	-0.02	-0.47	0.0	429.52	-3398.09	15.62	8224.19	-2869.21	-9.462e+04
		-2.926e+05	-2869.21	7.76e-04		327.5	429.52	6323.71	15.62	1.040e+04	2247.25	3.686e+05
64	17	4.554e+05	2456.24	-0.02	-0.52	0.0	722.45	-3507.38	17.21	1.024e+04	-3180.28	-1.537e+05
		-3.433e+05	-3180.28	9.56e-04		327.5	722.45	7351.92	17.21	1.273e+04	2456.24	4.554e+05
64	18	5.066e+05	2689.26	-0.03	-0.54	0.0	750.40	-3588.16	18.81	1.152e+04	-3470.96	-1.655e+05
		-3.551e+05	-3470.96	1.07e-03		327.5	750.40	7836.81	18.81	1.416e+04	2689.26	5.066e+05
64	19	4.198e+05	2480.27	-0.02	-0.50	0.0	457.47	-3478.87	17.22	9507.92	-3159.89	-1.064e+05
		-3.023e+05	-3159.89	8.89e-04		327.5	457.47	6808.59	17.22	1.184e+04	2480.27	4.198e+05
64	20	4.140e+05	2323.64	-0.02	-0.50	0.0	626.19	-3450.35	16.25	9249.71	-2999.75	-1.325e+05
		-3.239e+05	-2999.75	8.68e-04		327.5	626.19	6897.99	16.25	1.160e+04	2323.64	4.140e+05
64	21	5.164e+05	2789.67	-0.03	-0.54	0.0	682.08	-3611.93	19.45	1.182e+04	-3581.11	-1.561e+05
		-3.474e+05	-3581.11	1.09e-03		327.5	682.08	7867.76	19.45	1.447e+04	2789.67	5.164e+05
64	22	2.204e+05	2.084e+05	5.08e-03	-0.51	0.0	1.37	-4722.47	-1266.09	6.657e+04	2.084e+05	-4.652e+04
		-3.762e+05	-2.063e+05	0.02		327.5	1.37	6377.09	-1266.09	6.430e+04	-2.063e+05	2.204e+05
64	23	5.756e+05	2.116e+05	-0.04	-0.48	0.0	1178.12	-2145.74	1302.62	-4.747e+04	-2.151e+05	-2.045e+05
		-2.902e+05	-2.151e+05	-0.02		327.5	1178.12	7096.80	1302.62	-4.041e+04	2.116e+05	5.756e+05
64	24	2.787e+05	7.273e+04	0.29	-0.87	0.0	371.68	451.13	-404.16	-7179.61	7.273e+04	-2.866e+06
		-2.866e+06	-5.963e+04	-5.50e-04		327.5	371.68	1.735e+04	-404.16	-4591.71	-5.963e+04	2.787e+05
64	25	2.803e+06	6.021e+04	-0.34	-0.41	0.0	-433.40	-7514.76	408.00	3.560e+04	-7.341e+04	2.803e+06
		6.325e+05	-7.341e+04	3.07e-03		327.5	-433.40	-4069.39	408.00	3.757e+04	6.021e+04	6.325e+05
64	26	2.043e+05	2.193e+05	4.68e-03	-0.51	0.0	-36.55	-4812.12	-1334.34	6.856e+04	2.193e+05	-3.459e+04
		-3.767e+05	-2.177e+05	0.02		327.5	-36.55	6292.14	-1334.34	6.630e+04	-2.177e+05	2.043e+05
64	27	5.932e+05	2.229e+05	-0.04	-0.48	0.0	1218.36	-2045.84	1370.44	-4.930e+04	-2.259e+05	-2.172e+05
		-2.949e+05	-2.259e+05	-0.02		327.5	1218.36	7186.41	1370.44	-4.226e+04	2.229e+05	5.932e+05
64	28	6.904e+05	4.503e+04	-0.20	-0.76	0.0	-550.93	-359.41	-250.34	-7214.70	4.503e+04	-1.835e+06
		-1.835e+06	-3.695e+04	-5.94e-04		327.5	-550.93	1.484e+04	-250.34	-4646.85	-3.695e+04	6.904e+05
64	29	1.750e+06	4.133e+04	-0.25	-0.43	0.0	581.26	-6495.33	280.27	2.836e+04	-5.046e+04	1.750e+06
		2.714e+05	-5.046e+04	2.54e-03		327.5	581.26	-1311.67	280.27	3.039e+04	4.133e+04	2.714e+05
64	30	2.132e+05	2.274e+05	4.85e-03	-0.51	0.0	-60.97	-4765.63	-1387.06	6.805e+04	2.274e+05	-4.177e+04
		-3.771e+05	-2.269e+05	0.02		327.5	-60.97	6345.41	-1387.06	6.580e+04	-2.269e+05	2.132e+05
64	31	5.759e+05	2.320e+05	-0.04	-0.48	0.0	1231.03	-2149.31	1422.84	-4.944e+04	-2.340e+05	-2.056e+05
		-2.913e+05	-2.340e+05	-0.02		327.5	1231.03	7107.73	1422.84	-4.238e+04	2.320e+05	5.759e+05
64	32	2.681e+05	6.326e+04	-0.29	-0.86	0.0	176.65	259.50	-351.44	-7998.38	6.326e+04	-2.794e+06
		-2.794e+06	-5.184e+04	-6.10e-04		327.5	176.65	1.706e+04	-351.44	-5404.67	-5.184e+04	2.681e+05
64	33	2.739e+06	5.182e+04	-0.34	-0.41	0.0	-319.19	-7553.37	351.23	3.520e+04	-6.321e+04	2.739e+06
		5.809e+05	-6.321e+04	3.03e-03		327.5	-319.19	-3994.15	351.23	3.718e+04	5.182e+04	5.809e+05
64	34	2.132e+05	2.274e+05	4.85e-03	-0.51	0.0	-60.97	-4765.63	-1387.06	6.805e+04	2.274e+05	-4.177e+04
		-3.771e+05	-2.269e+05	0.02		327.5	-60.97	6345.41	-1387.06	6.580e+04	-2.269e+05	2.132e+05
64	35	5.759e+05	2.320e+05	-0.04	-0.48	0.0	1231.03	-2149.31	1422.84	-4.944e+04	-2.340e+05	-2.056e+05
		-2.913e+05	-2.340e+05	-0.02		327.5	1231.03	7107.73	1422.84	-4.238e+04	2.320e+05	5.759e+05
64	36	6.154e+05	4.389e+04	-0.22	-0.78	0.0	-903.87	-939.93	-243.94	-8712.85	4.389e+04	-1.816e+06
		-1.823e+06	-3.600e+04	-7.15e-04		327.5	-903.87	1.474e+04	-243.94	-6120.04	-3.600e+04	6.154e+05
64	37	1.751e+06	3.857e+04	-0.27	-0.42	0.0	616.63	-6033.63	261.53	3.088e+04	-4.708e+04	1.751e+06
		3.403e+05	-4.708e+04	2.74e-03		327.5	616.63	-1267.75	261.53	3.288e+04	3.857e+04	3.403e+05

64	38	3.174e+05	2014.23	-0.02	-0.45	0.0	401.57	-3317.30	14.02	6940.46	-2578.53	-8.282e+04
		-2.829e+05	-2578.53	6.62e-04		327.5	401.57	5838.82	14.02	8959.25	2014.23	3.174e+05
64	39	4.140e+05	2323.64	-0.02	-0.50	0.0	626.19	-3450.35	16.25	9249.71	-2999.75	-1.325e+05
		-3.239e+05	-2999.75	8.68e-04		327.5	626.19	6897.99	16.25	1.160e+04	2323.64	4.140e+05
64	40	3.379e+05	2107.44	-0.02	-0.46	0.0	412.75	-3349.62	14.66	7453.95	-2694.80	-8.754e+04
		-2.868e+05	-2694.80	7.08e-04		327.5	412.75	6032.78	14.66	9534.67	2107.44	3.379e+05
64	41	4.002e+05	2279.44	-0.02	-0.49	0.0	594.10	-3431.35	15.94	8919.82	-2939.58	-1.254e+05
		-3.174e+05	-2939.58	8.39e-04		327.5	594.10	6746.68	15.94	1.122e+04	2279.44	4.002e+05
64	42	4.207e+05	2372.65	-0.02	-0.50	0.0	605.28	-3463.66	16.58	9433.31	-3055.85	-1.301e+05
		-3.221e+05	-3055.85	8.84e-04		327.5	605.28	6940.64	16.58	1.179e+04	2372.65	4.207e+05
64	43	3.174e+05	2014.23	-0.02	-0.45	0.0	401.57	-3317.30	14.02	6940.46	-2578.53	-8.282e+04
		-2.829e+05	-2578.53	6.62e-04		327.5	401.57	5838.82	14.02	8959.25	2014.23	3.174e+05
64	44	4.002e+05	2279.44	-0.02	-0.49	0.0	594.10	-3431.35	15.94	8919.82	-2939.58	-1.254e+05
		-3.174e+05	-2939.58	8.39e-04		327.5	594.10	6746.68	15.94	1.122e+04	2279.44	4.002e+05
64	45	3.174e+05	2014.23	-0.02	-0.45	0.0	401.57	-3317.30	14.02	6940.46	-2578.53	-8.282e+04
		-2.829e+05	-2578.53	6.62e-04		327.5	401.57	5838.82	14.02	8959.25	2014.23	3.174e+05
64	46	4.002e+05	2279.44	-0.02	-0.49	0.0	594.10	-3431.35	15.94	8919.82	-2939.58	-1.254e+05
		-3.174e+05	-2939.58	8.39e-04		327.5	594.10	6746.68	15.94	1.122e+04	2279.44	4.002e+05
65	1	8.245e+05	2194.41	-0.02	-0.61	0.0	616.19	-4816.29	13.60	4551.51	-2231.28	3.590e+05
		5.445e+04	-2231.28	4.88e-04		325.5	616.19	7756.94	13.60	7446.77	2194.41	8.245e+05
65	2	9.299e+05	2491.88	-0.02	-0.64	0.0	726.45	-5145.05	15.45	5161.53	-2535.50	4.152e+05
		9.203e+04	-2535.50	5.49e-04		325.5	726.45	8400.02	15.45	8330.69	2491.88	9.299e+05
65	3	1.136e+06	2663.73	-0.02	-0.71	0.0	1178.66	-5792.87	16.61	5980.49	-2744.13	5.262e+05
		1.663e+05	-2744.13	6.37e-04		325.5	1178.66	9646.51	16.61	9682.32	2663.73	1.136e+06
65	4	1.241e+06	2961.20	-0.02	-0.74	0.0	1288.92	-6121.63	18.46	6590.51	-3048.35	5.824e+05
		2.039e+05	-3048.35	6.98e-04		325.5	1288.92	1.029e+04	18.46	1.057e+04	2961.20	1.241e+06
65	5	5.544e+05	1567.67	-0.01	-0.44	0.0	329.77	-3454.43	9.69	3134.76	-1584.86	2.333e+05
		1.321e+04	-1584.86	3.37e-04		325.5	329.77	5482.37	9.69	5155.07	1567.67	5.544e+05
65	6	6.598e+05	1865.13	-0.01	-0.48	0.0	440.03	-3783.19	11.53	3744.77	-1889.08	2.895e+05
		5.079e+04	-1889.08	3.98e-04		325.5	440.03	6125.45	11.53	6038.99	1865.13	6.598e+05
65	7	8.657e+05	2036.99	-0.02	-0.54	0.0	892.24	-4431.01	12.70	4563.74	-2097.72	4.005e+05
		1.251e+05	-2097.72	4.86e-04		325.5	892.24	7371.94	12.70	7390.61	2036.99	8.657e+05
65	8	9.711e+05	2334.46	-0.02	-0.58	0.0	1002.50	-4759.78	14.55	5173.75	-2401.94	4.567e+05
		1.626e+05	-2401.94	5.47e-04		325.5	1002.50	8015.02	14.55	8274.54	2334.46	9.711e+05
65	9	1.035e+06	2789.34	-0.02	-0.68	0.0	836.71	-5473.81	17.29	5771.54	-2839.72	4.714e+05
		1.296e+05	-2839.72	6.10e-04		325.5	836.71	9043.09	17.29	9214.61	2789.34	1.035e+06
65	10	1.042e+06	2522.94	-0.02	-0.68	0.0	1009.92	-5499.90	15.71	5551.80	-2590.28	4.761e+05
		1.328e+05	-2590.28	5.92e-04		325.5	1009.92	9079.64	15.71	9011.65	2522.94	1.042e+06
65	11	1.253e+06	3117.87	-0.02	-0.75	0.0	1230.44	-6157.42	19.41	6771.83	-3198.72	5.884e+05
		2.079e+05	-3198.72	7.14e-04		325.5	1230.44	1.037e+04	19.41	1.078e+04	3117.87	1.253e+06
65	12	7.653e+05	2162.60	-0.01	-0.51	0.0	550.29	-4111.96	13.38	4354.79	-2193.31	3.456e+05
		8.837e+04	-2193.31	4.59e-04		325.5	550.29	6768.53	13.38	6922.91	2162.60	7.653e+05
65	13	7.723e+05	1896.19	-0.01	-0.51	0.0	723.50	-4138.04	11.80	4135.04	-1943.86	3.503e+05
		9.151e+04	-1943.86	4.42e-04		325.5	723.50	6805.07	11.80	6719.95	1896.19	7.723e+05
65	14	9.831e+05	2491.13	-0.02	-0.58	0.0	944.02	-4795.56	15.49	5355.07	-2552.31	4.627e+05
		1.667e+05	-2552.31	5.63e-04		325.5	944.02	8091.23	15.49	8487.79	2491.13	9.831e+05
65	15	6.236e+05	1671.96	-0.01	-0.46	0.0	454.76	-3671.45	10.36	3452.31	-1698.83	2.705e+05
		3.806e+04	-1698.83	3.70e-04		325.5	454.76	5902.28	10.36	5651.86	1671.96	6.236e+05
65	16	6.939e+05	1870.27	-0.01	-0.49	0.0	528.27	-3890.63	11.59	3858.99	-1901.65	3.079e+05
		6.312e+04	-1901.65	4.11e-04		325.5	528.27	6330.99	11.59	6241.14	1870.27	6.939e+05
65	17	8.311e+05	1984.84	-0.02	-0.53	0.0	829.74	-4322.51	12.37	4404.96	-2040.74	3.819e+05
		1.126e+05	-2040.74	4.70e-04		325.5	829.74	7161.99	12.37	7142.22	1984.84	8.311e+05
65	18	9.014e+05	2183.16	-0.02	-0.56	0.0	903.25	-4541.68	13.60	4811.64	-2243.55	4.194e+05
		1.377e+05	-2243.55	5.10e-04		325.5	903.25	7590.71	13.60	7731.50	2183.16	9.014e+05
65	19	7.641e+05	2068.59	-0.02	-0.51	0.0	601.78	-4109.80	12.82	4265.66	-2104.46	3.454e+05
		8.817e+04	-2104.46	4.51e-04		325.5	601.78	6759.71	12.82	6830.42	2068.59	7.641e+05
65	20	7.688e+05	1890.98	-0.01	-0.51	0.0	717.25	-4127.19	11.76	4119.17	-1938.17	3.485e+05
		9.026e+04	-1938.17	4.40e-04		325.5	717.25	6784.08	11.76	6695.11	1890.98	7.688e+05
65	21	9.094e+05	2287.60	-0.02	-0.56	0.0	864.26	-4565.54	14.23	4932.52	-2343.79	4.234e+05
		1.404e+05	-2343.79	5.21e-04		325.5	864.26	7641.51	14.23	7873.67	2287.60	9.094e+05
65	22	6.247e+05	1.590e+04	-0.01	-0.52	0.0	-527.23	-4327.76	-307.54	1.569e+04	1.590e+04	1.967e+05
		-7.498e+04	-8.420e+04	3.96e-03		325.5	-527.23	7017.30	-307.54	1.467e+04	-8.420e+04	6.247e+05
65	23	8.674e+05	8.830e+04	-0.02	-0.49	0.0	1871.91	-3784.39	332.87	-7006.67	-2.004e+04	4.719e+05
		2.357e+05	-2.004e+04	-3.15e-03		325.5	1871.91	6301.07	332.87	-727.65	8.830e+04	8.674e+05
65	24	2.389e+06	5.403e+04	0.16	-0.58	0.0	577.38	1.033e+04	-338.12	-1999.77	5.403e+04	-2.804e+06
		-2.804e+06	-5.603e+04	2.48e-04		325.5	577.38	2.084e+04	-338.12	469.56	-5.603e+04	2.389e+06
65	25	3.668e+06	5.658e+04	-0.19	-0.60	0.0	-638.12	-1.925e+04	341.25	1.091e+04	-5.450e+04	3.668e+06
		-9.381e+05	-5.450e+04	8.78e-04		325.5	-638.12	-8162.05	341.25	1.362e+04	5.658e+04	-9.381e+05
65	26	6.149e+05	1.320e+04	-0.01	-0.52	0.0	-599.75	-4331.46	-304.22	1.563e+04	1.320e+04	1.894e+05
		-8.292e+04	-8.582e+04	4.02e-03		325.5	-599.75	7005.15	-304.22	1.466e+04	-8.582e+04	6.149e+05
65	27	8.787e+05	8.990e+04	-0.02	-0.49	0.0	1948.56	-3778.05	329.47	-6950.92	-1.734e+04	4.805e+05
		2.451e+05	-1.734e+04	-3.22e-03		325.5	1948.56	6311.89	329.47	-720.30	8.990e+04	8.787e+05
65	28	1.953e+06	3.340e+04	-0.12	-0.56	0.0	327.50	6182.56	-209.59	-3227.28	3.340e+04	-1.875e+06
		-1.875e+06	-3.482e+04	-1.66e-04		325.5	327.50	1.676e+04	-209.59	-797.75	-3.482e+04	1.953e+06
65	29	2.762e+06	3.878e+04	-0.15	-0.58	0.0	-427.17	-1.509e+04	233.78	1.086e+04	-3.731e+04	2.762e+06
		-4.703e+05	-3.731e+04	9.94e-04		325.5	-427.17	-4057.66	233.78	1.352e+04	3.878e+04	-4.703e+05
65	30	6.187e+05	7046.45	-0.01	-0.52	0.0	-636.55	-4337.67	-277.82	1.583e+04	7046.45	1.932e+05

-7.953e+04	-8.338e+04	3.92e-03		325.5	-636.55	7011.08	-277.82	1.486e+04	-8.338e+04	6.187e+05
65 31 8.675e+05	8.743e+04	-0.02	-0.49	0.0	1964.79	-3787.22	302.88	-7136.96	-1.116e+04	4.708e+05
2.345e+05	-1.116e+04	-3.13e-03		325.5	1964.79	6311.96	302.88	-887.39	8.743e+04	8.675e+05
65 32 2.308e+06	4.700e+04	-0.16	-0.58	0.0	436.43	9912.54	-294.13	-1986.36	4.700e+04	-2.744e+06
-2.744e+06	-4.873e+04	2.11e-04		325.5	436.43	2.039e+04	-294.13	476.29	-4.873e+04	2.308e+06
65 33 3.547e+06	4.873e+04	-0.19	-0.60	0.0	-568.78	-1.872e+04	293.98	1.097e+04	-4.696e+04	3.547e+06
-8.878e+05	-4.696e+04	8.95e-04		325.5	-568.78	-7654.25	293.98	1.368e+04	4.873e+04	-8.878e+05
65 34 6.187e+05	7046.45	-0.01	-0.52	0.0	-636.55	-4337.67	-277.82	1.583e+04	7046.45	1.932e+05
-7.953e+04	-8.338e+04	3.92e-03		325.5	-636.55	7011.08	-277.82	1.486e+04	-8.338e+04	6.187e+05
65 35 8.675e+05	8.743e+04	-0.02	-0.49	0.0	1964.79	-3787.22	302.88	-7136.96	-1.116e+04	4.708e+05
2.345e+05	-1.116e+04	-3.13e-03		325.5	1964.79	6311.96	302.88	-887.39	8.743e+04	8.675e+05
65 36 2.003e+06	3.258e+04	-0.14	-0.57	0.0	120.51	6756.34	-204.46	-3774.07	3.258e+04	-2.022e+06
-2.022e+06	-3.397e+04	-2.10e-04		325.5	120.51	1.734e+04	-204.46	-1351.19	-3.397e+04	2.003e+06
65 37 2.866e+06	3.630e+04	-0.16	-0.59	0.0	-530.99	-1.542e+04	218.78	1.169e+04	-3.492e+04	2.866e+06
-4.806e+05	-3.492e+04	1.06e-03		325.5	-530.99	-4367.48	218.78	1.437e+04	3.630e+04	-4.806e+05
65 38 6.236e+05	1671.96	-0.01	-0.46	0.0	454.76	-3671.45	10.36	3452.31	-1698.83	2.705e+05
3.806e+04	-1698.83	3.70e-04		325.5	454.76	5902.28	10.36	5651.86	1671.96	6.236e+05
65 39 7.688e+05	1890.98	-0.01	-0.51	0.0	717.25	-4127.19	11.76	4119.17	-1938.17	3.485e+05
9.026e+04	-1938.17	4.40e-04		325.5	717.25	6784.08	11.76	6695.11	1890.98	7.688e+05
65 40 6.517e+05	1751.29	-0.01	-0.47	0.0	484.17	-3759.12	10.85	3614.98	-1779.96	2.854e+05
4.808e+04	-1779.96	3.86e-04		325.5	484.17	6073.76	10.85	5887.57	1751.29	6.517e+05
65 41 7.481e+05	1859.69	-0.01	-0.51	0.0	679.75	-4062.08	11.56	4023.90	-1903.97	3.373e+05
8.281e+04	-1903.97	4.30e-04		325.5	679.75	6658.11	11.56	6546.07	1859.69	7.481e+05
65 42 7.762e+05	1939.02	-0.01	-0.51	0.0	709.15	-4149.75	12.06	4186.57	-1985.10	3.523e+05
9.283e+04	-1985.10	4.46e-04		325.5	709.15	6829.59	12.06	6781.79	1939.02	7.762e+05
65 43 6.236e+05	1671.96	-0.01	-0.46	0.0	454.76	-3671.45	10.36	3452.31	-1698.83	2.705e+05
3.806e+04	-1698.83	3.70e-04		325.5	454.76	5902.28	10.36	5651.86	1671.96	6.236e+05
65 44 7.481e+05	1859.69	-0.01	-0.51	0.0	679.75	-4062.08	11.56	4023.90	-1903.97	3.373e+05
8.281e+04	-1903.97	4.30e-04		325.5	679.75	6658.11	11.56	6546.07	1859.69	7.481e+05
65 45 6.236e+05	1671.96	-0.01	-0.46	0.0	454.76	-3671.45	10.36	3452.31	-1698.83	2.705e+05
3.806e+04	-1698.83	3.70e-04		325.5	454.76	5902.28	10.36	5651.86	1671.96	6.236e+05
65 46 7.481e+05	1859.69	-0.01	-0.51	0.0	679.75	-4062.08	11.56	4023.90	-1903.97	3.373e+05
8.281e+04	-1903.97	4.30e-04		325.5	679.75	6658.11	11.56	6546.07	1859.69	7.481e+05
66 1 7.911e+05	1755.88	-0.01	-0.62	0.0	918.34	-1.064e+04	7.85	-5178.74	-1693.28	7.911e+05
-6.599e+05	-1693.28	-3.63e-04		439.5	918.34	6578.54	7.85	-1243.05	1755.88	-1.157e+05
66 2 9.148e+05	2053.15	0.01	-0.65	0.0	949.95	-1.160e+04	9.11	-6710.30	-1948.54	9.148e+05
-6.871e+05	-1948.54	-5.13e-04		439.5	949.95	6883.58	9.11	-2427.99	2053.15	-1.298e+05
66 3 1.087e+06	1902.24	0.01	-0.71	0.0	1655.93	-1.352e+04	8.75	-8678.74	-1942.02	1.087e+06
-8.235e+05	-1942.02	-6.96e-04		439.5	1655.93	7458.99	8.75	-3701.50	1902.24	-2.475e+05
66 4 1.210e+06	2199.51	0.01	-0.75	0.0	1687.55	-1.448e+04	10.00	-1.021e+04	-2197.28	1.210e+06
-8.506e+05	-2197.28	-8.46e-04		439.5	1687.55	7764.03	10.00	-4886.45	2199.51	-2.616e+05
66 5 5.327e+05	1313.15	-0.01	-0.45	0.0	517.29	-7450.00	5.81	-3086.21	-1238.75	5.327e+05
-4.657e+05	-1238.75	-1.94e-04		439.5	517.29	4834.66	5.81	-325.82	1313.15	-5.523e+04
66 6 6.564e+05	1610.42	7.79e-03	-0.48	0.0	548.90	-8410.01	7.06	-4617.77	-1494.01	6.564e+05
-4.928e+05	-1494.01	-3.44e-04		439.5	548.90	5139.70	7.06	-1510.76	1610.42	-6.931e+04
66 7 8.284e+05	1459.51	9.22e-03	-0.55	0.0	1254.88	-1.033e+04	6.71	-6586.21	-1487.48	8.284e+05
-6.292e+05	-1487.48	-5.27e-04		439.5	1254.88	5715.11	6.71	-2784.27	1459.51	-1.870e+05
66 8 9.521e+05	1756.78	9.53e-03	-0.58	0.0	1286.50	-1.129e+04	7.96	-8117.77	-1742.74	9.521e+05
-6.564e+05	-1742.74	-6.77e-04		439.5	1286.50	6020.15	7.96	-3969.22	1756.78	-2.011e+05
66 9 1.038e+06	2350.42	0.01	-0.68	0.0	981.57	-1.256e+04	10.36	-8241.86	-2203.80	1.038e+06
-7.142e+05	-2203.80	-6.64e-04		439.5	981.57	7188.62	10.36	-3612.94	2350.42	-1.439e+05
66 10 9.981e+05	1858.33	0.01	-0.69	0.0	1434.65	-1.266e+04	8.48	-7628.74	-1867.40	9.981e+05
-7.744e+05	-1867.40	-5.96e-04		439.5	1434.65	7194.86	8.48	-2963.96	1858.33	-2.080e+05
66 11 1.245e+06	2452.87	0.01	-0.75	0.0	1497.89	-1.458e+04	10.99	-1.069e+04	-2377.91	1.245e+06
-8.287e+05	-2377.91	-8.97e-04		439.5	1497.89	7804.94	10.99	-5333.86	2452.87	-2.362e+05
66 12 7.801e+05	1907.69	7.36e-03	-0.51	0.0	580.52	-9370.01	8.32	-6149.33	-1749.26	7.801e+05
-5.200e+05	-1749.26	-4.95e-04		439.5	580.52	5444.74	8.32	-2695.71	1907.69	-8.340e+04
66 13 7.397e+05	1415.60	8.84e-03	-0.52	0.0	1033.60	-9463.23	6.44	-5536.21	-1412.86	7.397e+05
-5.802e+05	-1412.86	-4.27e-04		439.5	1033.60	5450.98	6.44	-2046.73	1415.60	-1.475e+05
66 14 9.871e+05	2010.14	9.33e-03	-0.58	0.0	1096.84	-1.138e+04	8.95	-8599.33	-1923.38	9.871e+05
-6.345e+05	-1923.38	-7.28e-04		439.5	1096.84	6061.06	8.95	-4416.63	2010.14	-1.757e+05
66 15 5.984e+05	1345.67	-9.50e-03	-0.47	0.0	681.20	-8089.12	6.01	-3863.98	-1294.02	5.984e+05
-5.020e+05	-1294.02	-2.68e-04		439.5	681.20	5030.32	6.01	-872.14	1345.67	-8.452e+04
66 16 6.809e+05	1543.85	8.11e-03	-0.49	0.0	702.27	-8729.12	6.84	-4885.03	-1464.19	6.809e+05
-5.201e+05	-1464.19	-3.68e-04		439.5	702.27	5233.68	6.84	-1662.01	1543.85	-9.391e+04
66 17 7.956e+05	1443.25	9.02e-03	-0.54	0.0	1172.92	-1.001e+04	6.61	-6197.32	-1459.84	7.956e+05
-6.111e+05	-1459.84	-4.90e-04		439.5	1172.92	5617.28	6.61	-2511.11	1443.25	-1.724e+05
66 18 8.780e+05	1641.43	9.05e-03	-0.56	0.0	1194.00	-1.065e+04	7.44	-7218.36	-1630.02	8.780e+05
-6.292e+05	-1630.02	-5.90e-04		439.5	1194.00	5820.64	7.44	-3301.07	1641.43	-1.818e+05
66 19 7.633e+05	1742.03	7.76e-03	-0.51	0.0	723.35	-9369.13	7.68	-5906.07	-1634.37	7.633e+05
-5.382e+05	-1634.37	-4.68e-04		439.5	723.35	5437.04	7.68	-2452.07	1742.03	-1.033e+05
66 20 7.364e+05	1413.97	8.83e-03	-0.52	0.0	1025.41	-9431.27	6.43	-5497.32	-1410.10	7.364e+05
-5.784e+05	-1410.10	-4.23e-04		439.5	1025.41	5441.19	6.43	-2019.42	1413.97	-1.460e+05
66 21 9.013e+05	1810.33	8.82e-03	-0.56	0.0	1067.56	-1.071e+04	8.10	-7539.40	-1750.44	9.013e+05
-6.146e+05	-1750.44	-6.24e-04		439.5	1067.56	5847.92	8.10	-3599.35	1810.33	-1.648e+05
66 22 5.254e+05	1.635e+05	-0.02	-0.55	0.0	277.24	-9056.54	770.50	-4.560e+04	-1.751e+05	5.254e+05
-6.335e+05	-1.751e+05	-0.02		439.5	277.24	6706.17	770.50	-4.796e+04	1.635e+05	-2.458e+04

66	23	8.987e+05	1.721e+05	0.01	-0.49	0.0	1666.19	-9391.50	-756.33	3.537e+04	1.721e+05	8.987e+05
		-5.203e+05	-1.603e+05	0.02		439.5	1666.19	4107.25	-756.33	4.487e+04	-1.603e+05	-2.436e+05
66	24	2.879e+06	5.285e+04	-0.26	-0.42	0.0	173.61	4169.49	-264.64	-1.486e+04	5.285e+04	-7.427e+05
		-7.427e+05	-6.346e+04	-1.36e-03		439.5	173.61	1.066e+04	-264.64	-1.193e+04	-6.346e+04	2.879e+06
66	25	2.207e+06	6.395e+04	-0.27	-0.86	0.0	-253.85	-2.225e+04	266.64	-1521.07	-5.323e+04	2.207e+06
		-2.912e+06	-5.323e+04	-5.97e-04		439.5	-253.85	600.97	266.64	2392.72	6.395e+04	-2.912e+06
66	26	5.117e+05	1.763e+05	-0.03	-0.55	0.0	240.87	-9005.67	829.19	-4.794e+04	-1.881e+05	5.117e+05
		-6.348e+05	-1.881e+05	-0.02		439.5	240.87	6768.05	829.19	-5.031e+04	1.763e+05	-1.517e+04
66	27	9.147e+05	1.851e+05	0.01	-0.49	0.0	1705.31	-9446.65	-815.35	3.748e+04	1.851e+05	9.147e+05
		-5.216e+05	-1.732e+05	0.02		439.5	1705.31	4030.73	-815.35	4.697e+04	-1.732e+05	-2.544e+05
66	28	1.964e+06	3.288e+04	-0.18	-0.43	0.0	1143.11	1316.78	-165.28	-9811.51	3.288e+04	-7.328e+05
		-7.328e+05	-3.976e+04	-9.74e-04		439.5	1143.11	9820.80	-165.28	-6811.77	-3.976e+04	1.964e+06
66	29	2.159e+06	4.353e+04	-0.18	-0.76	0.0	-606.80	-1.935e+04	181.53	-2931.32	-3.625e+04	2.159e+06
		-2.051e+06	-3.625e+04	-4.24e-04		439.5	-606.80	1392.96	181.53	876.76	4.353e+04	-2.033e+06
66	30	5.196e+05	1.884e+05	-0.03	-0.55	0.0	227.66	-9045.51	883.64	-4.663e+04	-1.999e+05	5.196e+05
		-6.359e+05	-1.999e+05	-0.02		439.5	227.66	6733.98	883.64	-4.895e+04	1.884e+05	-2.279e+04
66	31	8.963e+05	1.968e+05	0.01	-0.49	0.0	1705.04	-9389.48	-869.00	3.700e+04	1.968e+05	8.963e+05
		-5.200e+05	-1.852e+05	0.02		439.5	1705.04	4131.89	-869.00	4.650e+04	-1.852e+05	-2.404e+05
66	32	2.814e+06	4.593e+04	0.25	-0.42	0.0	179.73	4011.00	-230.02	-1.469e+04	4.593e+04	-7.545e+05
		-7.545e+05	-5.516e+04	-1.36e-03		439.5	179.73	1.063e+04	-230.02	-1.176e+04	-5.516e+04	2.814e+06
66	33	2.191e+06	5.506e+04	-0.26	-0.86	0.0	-370.83	-2.201e+04	229.52	-2140.01	-4.581e+04	2.191e+06
		-2.845e+06	-4.581e+04	-5.65e-04		439.5	-370.83	713.03	229.52	1761.51	5.506e+04	-2.845e+06
66	34	5.196e+05	1.884e+05	-0.03	-0.55	0.0	227.66	-9045.51	883.64	-4.663e+04	-1.999e+05	5.196e+05
		-6.359e+05	-1.999e+05	-0.02		439.5	227.66	6733.98	883.64	-4.895e+04	1.884e+05	-2.279e+04
66	35	8.963e+05	1.968e+05	0.01	-0.49	0.0	1705.04	-9389.48	-869.00	3.700e+04	1.968e+05	8.963e+05
		-5.200e+05	-1.852e+05	0.02		439.5	1705.04	4131.89	-869.00	4.650e+04	-1.852e+05	-2.404e+05
66	36	2.030e+06	3.207e+04	-0.20	-0.43	0.0	1031.57	1751.44	-161.23	-1.043e+04	3.207e+04	-7.546e+05
		-7.546e+05	-3.879e+04	-1.04e-03		439.5	1031.57	9665.15	-161.23	-7473.23	-3.879e+04	2.030e+06
66	37	2.189e+06	4.077e+04	-0.20	-0.78	0.0	-839.47	-1.960e+04	169.96	-2774.31	-3.393e+04	2.189e+06
		-2.042e+06	-3.393e+04	-3.87e-04		439.5	-839.47	1668.37	169.96	1080.82	4.077e+04	-2.018e+06
66	38	5.984e+05	1345.67	-9.50e-03	-0.47	0.0	681.20	-8089.12	6.01	-3863.98	-1294.02	5.984e+05
		-5.020e+05	-1294.02	-2.68e-04		439.5	681.20	5030.32	6.01	-872.14	1345.67	-8.452e+04
66	39	7.364e+05	1413.97	8.83e-03	-0.52	0.0	1025.41	-9431.27	6.43	-5497.32	-1410.10	7.364e+05
		-5.784e+05	-1410.10	-4.23e-04		439.5	1025.41	5441.19	6.43	-2019.42	1413.97	-1.460e+05
66	40	6.314e+05	1424.94	8.58e-03	-0.48	0.0	689.63	-8345.12	6.34	-4272.40	-1362.09	6.314e+05
		-5.093e+05	-1362.09	-3.08e-04		439.5	689.63	5111.66	6.34	-1188.13	1424.94	-8.828e+04
66	41	7.167e+05	1404.22	8.76e-03	-0.51	0.0	976.23	-9239.53	6.37	-5263.98	-1393.51	7.167e+05
		-5.675e+05	-1393.51	-4.01e-04		439.5	976.23	5382.50	6.37	-1855.52	1404.22	-1.372e+05
66	42	7.497e+05	1483.49	8.64e-03	-0.52	0.0	984.66	-9495.54	6.70	-5672.40	-1461.58	7.497e+05
		-5.747e+05	-1461.58	-4.41e-04		439.5	984.66	5463.84	6.70	-2171.51	1483.49	-1.410e+05
66	43	5.984e+05	1345.67	-9.50e-03	-0.47	0.0	681.20	-8089.12	6.01	-3863.98	-1294.02	5.984e+05
		-5.020e+05	-1294.02	-2.68e-04		439.5	681.20	5030.32	6.01	-872.14	1345.67	-8.452e+04
66	44	7.167e+05	1404.22	8.76e-03	-0.51	0.0	976.23	-9239.53	6.37	-5263.98	-1393.51	7.167e+05
		-5.675e+05	-1393.51	-4.01e-04		439.5	976.23	5382.50	6.37	-1855.52	1404.22	-1.372e+05
66	45	5.984e+05	1345.67	-9.50e-03	-0.47	0.0	681.20	-8089.12	6.01	-3863.98	-1294.02	5.984e+05
		-5.020e+05	-1294.02	-2.68e-04		439.5	681.20	5030.32	6.01	-872.14	1345.67	-8.452e+04
66	46	7.167e+05	1404.22	8.76e-03	-0.51	0.0	976.23	-9239.53	6.37	-5263.98	-1393.51	7.167e+05
		-5.675e+05	-1393.51	-4.01e-04		439.5	976.23	5382.50	6.37	-1855.52	1404.22	-1.372e+05
67	1	1.335e+06	-728.62	-0.01	-0.63	0.0	102.47	-6484.20	0.32	1489.73	-831.20	1.304e+06
		7.882e+05	-831.20	3.48e-05		321.5	102.47	6682.14	0.32	-800.79	-728.62	1.335e+06
67	2	1.437e+06	-880.27	-0.01	-0.66	0.0	127.70	-6920.22	0.29	1515.29	-974.43	1.403e+06
		8.533e+05	-974.43	4.30e-05		321.5	127.70	7133.63	0.29	-659.88	-880.27	1.437e+06
67	3	1.652e+06	-693.25	-0.01	-0.73	0.0	189.58	-7832.36	0.59	1678.15	-882.79	1.612e+06
		9.902e+05	-882.79	3.72e-05		321.5	189.58	8080.53	0.59	-831.94	-693.25	1.652e+06
67	4	1.754e+06	-844.90	-0.01	-0.76	0.0	214.80	-8268.38	0.56	1703.71	-1026.03	1.712e+06
		1.055e+06	-1026.03	4.55e-05		321.5	214.80	8532.02	0.56	-691.03	-844.90	1.754e+06
67	5	9.458e+05	-569.55	-7.42e-03	-0.46	0.0	56.49	-4642.16	0.18	1097.64	-626.15	9.236e+05
		5.545e+05	-626.15	2.62e-05		321.5	56.49	4781.54	0.18	-608.00	-569.55	9.458e+05
67	6	1.048e+06	-721.20	-8.27e-03	-0.49	0.0	81.71	-5078.18	0.15	1123.20	-769.39	1.023e+06
		6.196e+05	-769.39	3.44e-05		321.5	81.71	5233.03	0.15	-467.10	-721.20	1.048e+06
67	7	1.263e+06	-534.18	-0.01	-0.56	0.0	143.60	-5990.33	0.45	1286.05	-677.75	1.232e+06
		7.565e+05	-677.75	2.85e-05		321.5	143.60	6179.93	0.45	-639.15	-534.18	1.263e+06
67	8	1.365e+06	-685.83	-0.01	-0.59	0.0	168.82	-6426.35	0.42	1311.61	-820.98	1.332e+06
		8.215e+05	-820.98	3.68e-05		321.5	168.82	6631.42	0.42	-498.25	-685.83	1.365e+06
67	9	1.539e+06	-1031.92	-0.01	-0.69	0.0	152.92	-7356.24	0.27	1540.85	-1117.67	1.503e+06
		9.183e+05	-1117.67	5.14e-05		321.5	152.92	7585.11	0.27	-518.98	-1031.92	1.539e+06
67	10	1.557e+06	-703.86	-0.01	-0.70	0.0	163.45	-7427.91	0.51	1621.63	-867.32	1.520e+06
		9.296e+05	-867.32	3.64e-05		321.5	163.45	7661.01	0.51	-822.59	-703.86	1.557e+06
67	11	1.761e+06	-1007.17	-0.01	-0.76	0.0	213.89	-8299.95	0.46	1672.74	-1153.79	1.719e+06
		1.060e+06	-1153.79	5.31e-05		321.5	213.89	8563.99	0.46	-540.78	-1007.17	1.761e+06
67	12	1.150e+06	-872.85	-9.13e-03	-0.52	0.0	106.94	-5514.20	0.12	1148.76	-912.62	1.123e+06
		6.846e+05	-912.62	4.27e-05		321.5	106.94	5684.52	0.12	-326.20	-872.85	1.150e+06
67	13	1.168e+06	-544.79	-9.27e-03	-0.53	0.0	117.46	-5585.88	0.37	1229.53	-662.27	1.140e+06
		6.959e+05	-662.27	2.78e-05		321.5	117.46	5760.42	0.37	-629.81	-544.79	1.168e+06
67	14	1.372e+06	-848.09	-0.01	-0.59	0.0	167.91	-6457.92	0.31	1280.65	-948.74	1.339e+06
		8.260e+05	-948.74	4.44e-05		321.5	167.91	6663.40	0.31	-348.00	-848.09	1.372e+06
67	15	1.016e+06	-561.69	-8.01e-03	-0.48	0.0	75.85	-4941.76	0.24	1139.51	-637.62	9.922e+05

		5.994e+05	-637.62	2.67e-05		321.5	75.85	5092.30	0.24	-614.93	-561.69	1.016e+06
67	16	1.084e+06	-662.79	-8.58e-03	-0.50	0.0	92.66	-5232.44	0.22	1156.55	-733.11	1.059e+06
		6.428e+05	-733.11	3.22e-05		321.5	92.66	5393.29	0.22	-520.99	-662.79	1.084e+06
67	17	1.227e+06	-538.11	-9.77e-03	-0.55	0.0	133.92	-5840.53	0.42	1265.12	-672.02	1.198e+06
		7.341e+05	-672.02	2.83e-05		321.5	133.92	6024.56	0.42	-635.69	-538.11	1.227e+06
67	18	1.295e+06	-639.21	-0.01	-0.57	0.0	150.73	-6131.21	0.40	1282.16	-767.51	1.265e+06
		7.774e+05	-767.51	3.38e-05		321.5	150.73	6325.55	0.40	-541.76	-639.21	1.295e+06
67	19	1.152e+06	-763.89	-9.15e-03	-0.52	0.0	109.48	-5523.11	0.20	1173.59	-828.60	1.125e+06
		6.862e+05	-828.60	3.77e-05		321.5	109.48	5694.28	0.20	-427.05	-763.89	1.152e+06
67	20	1.164e+06	-545.18	-9.24e-03	-0.53	0.0	116.50	-5570.90	0.36	1227.44	-661.70	1.136e+06
		6.937e+05	-661.70	2.78e-05		321.5	116.50	5744.88	0.36	-629.46	-545.18	1.164e+06
67	21	1.300e+06	-747.38	-0.01	-0.57	0.0	150.13	-6152.26	0.33	1261.51	-852.68	1.269e+06
		7.804e+05	-852.68	3.89e-05		321.5	150.13	6346.86	0.33	-441.59	-747.38	1.300e+06
67	22	1.679e+06	9.924e+04	-0.08	-0.55	0.0	-27.21	-2540.47	-622.51	6.090e+04	9.924e+04	6.455e+05
		5.601e+05	-1.009e+05	3.87e-03		321.5	-27.21	8604.83	-622.51	5.904e+04	-1.009e+05	1.679e+06
67	23	1.671e+06	9.945e+04	-0.08	-0.55	0.0	-57.83	-8441.60	622.94	-5.850e+04	-1.008e+05	1.671e+06
		5.944e+05	-1.008e+05	-3.83e-03		321.5	-57.83	2729.20	622.94	-6.037e+04	9.945e+04	6.933e+05
67	24	6.463e+05	3.535e+04	-7.41e-03	-0.20	0.0	1568.88	-339.32	15.02	-9384.24	3.052e+04	6.279e+05
		6.029e+05	3.052e+04	-9.23e-04		321.5	1568.88	461.61	15.02	7915.92	3.535e+04	6.463e+05
67	25	1.604e+06	-3.085e+04	-0.01	-0.91	0.0	-1363.76	-1.056e+04	-14.66	1.188e+04	-3.085e+04	1.569e+06
		7.273e+05	-3.556e+04	9.84e-04		321.5	-1363.76	1.077e+04	-14.66	-7998.72	-3.556e+04	1.604e+06
67	26	1.599e+06	1.062e+05	-0.08	-0.55	0.0	-43.50	-3032.27	-666.00	6.413e+04	1.062e+05	7.226e+05
		5.993e+05	-1.079e+05	4.19e-03		321.5	-43.50	8108.29	-666.00	6.227e+04	-1.079e+05	1.599e+06
67	27	1.589e+06	1.065e+05	-0.08	-0.55	0.0	-72.54	-7942.48	666.45	-6.173e+04	-1.078e+05	1.589e+06
		6.305e+05	-1.078e+05	-4.15e-03		321.5	-72.54	3220.54	666.45	-6.359e+04	1.065e+05	7.686e+05
67	28	7.924e+05	2.299e+04	-7.88e-03	-0.28	0.0	1132.24	-1756.65	10.68	-5766.97	1.956e+04	7.669e+05
		6.304e+05	1.956e+04	-6.10e-04		321.5	1132.24	1920.15	10.68	5244.74	2.299e+04	7.924e+05
67	29	1.470e+06	-2.136e+04	-0.01	-0.80	0.0	-925.74	-9101.44	-10.62	7862.25	-2.136e+04	1.441e+06
		7.152e+05	-2.478e+04	6.93e-04		321.5	-925.74	9277.19	-10.62	-5786.83	-2.478e+04	1.470e+06
67	30	1.696e+06	1.126e+05	-0.08	-0.55	0.0	-11.72	-2503.37	-705.72	6.178e+04	1.126e+05	6.464e+05
		5.634e+05	-1.143e+05	4.08e-03		321.5	-11.72	8665.53	-705.72	5.990e+04	-1.143e+05	1.696e+06
67	31	1.687e+06	1.128e+05	-0.08	-0.55	0.0	-37.91	-8502.26	706.16	-5.937e+04	-1.142e+05	1.687e+06
		5.982e+05	-1.142e+05	-4.05e-03		321.5	-37.91	2691.10	706.16	-6.127e+04	1.128e+05	6.937e+05
67	32	6.540e+05	3.076e+04	-7.40e-03	-0.20	0.0	1476.90	-449.29	13.03	-9063.54	2.657e+04	6.351e+05
		6.015e+05	2.657e+04	-8.04e-04		321.5	1476.90	574.77	13.03	7684.21	3.076e+04	6.540e+05
67	33	1.592e+06	-2.656e+04	-0.01	-0.91	0.0	-1285.28	-1.048e+04	-12.74	1.175e+04	-2.656e+04	1.557e+06
		7.218e+05	-3.066e+04	8.59e-04		321.5	-1285.28	1.069e+04	-12.74	-7783.92	-3.066e+04	1.592e+06
67	34	1.696e+06	1.126e+05	-0.08	-0.55	0.0	-11.72	-2503.37	-705.72	6.178e+04	1.126e+05	6.464e+05
		5.634e+05	-1.143e+05	4.08e-03		321.5	-11.72	8665.53	-705.72	5.990e+04	-1.143e+05	1.696e+06
67	35	1.687e+06	1.128e+05	-0.08	-0.55	0.0	-37.91	-8502.26	706.16	-5.937e+04	-1.142e+05	1.687e+06
		5.982e+05	-1.142e+05	-4.05e-03		321.5	-37.91	2691.10	706.16	-6.127e+04	1.128e+05	6.937e+05
67	36	7.568e+05	2.242e+04	-7.76e-03	-0.26	0.0	1189.83	-1393.54	10.14	-6388.28	1.917e+04	7.320e+05
		6.245e+05	1.917e+04	-5.97e-04		321.5	1189.83	1553.39	10.14	5702.69	2.242e+04	7.568e+05
67	37	1.500e+06	-2.004e+04	-0.01	-0.82	0.0	-951.85	-9393.50	-9.97	8216.54	-2.004e+04	1.471e+06
		7.214e+05	-2.325e+04	6.54e-04		321.5	-951.85	9570.18	-9.97	-6041.66	-2.325e+04	1.500e+06
67	38	1.016e+06	-561.69	-8.01e-03	-0.48	0.0	75.85	-4941.76	0.24	1139.51	-637.62	9.922e+05
		5.994e+05	-637.62	2.67e-05		321.5	75.85	5092.30	0.24	-614.93	-561.69	1.016e+06
67	39	1.164e+06	-545.18	-9.24e-03	-0.53	0.0	116.50	-5570.90	0.36	1227.44	-661.70	1.136e+06
		6.937e+05	-661.70	2.78e-05		321.5	116.50	5744.88	0.36	-629.46	-545.18	1.164e+06
67	40	1.043e+06	-602.13	-8.24e-03	-0.49	0.0	82.57	-5058.03	0.23	1146.32	-675.82	1.019e+06
		6.168e+05	-675.82	2.89e-05		321.5	82.57	5212.69	0.23	-577.35	-602.13	1.043e+06
67	41	1.143e+06	-547.54	-9.07e-03	-0.52	0.0	110.69	-5481.02	0.34	1214.87	-658.26	1.116e+06
		6.802e+05	-658.26	2.76e-05		321.5	110.69	5651.65	0.34	-627.38	-547.54	1.143e+06
67	42	1.170e+06	-587.98	-9.29e-03	-0.53	0.0	117.42	-5597.29	0.34	1221.69	-696.45	1.142e+06
		6.975e+05	-696.45	2.98e-05		321.5	117.42	5772.05	0.34	-589.81	-587.98	1.170e+06
67	43	1.016e+06	-561.69	-8.01e-03	-0.48	0.0	75.85	-4941.76	0.24	1139.51	-637.62	9.922e+05
		5.994e+05	-637.62	2.67e-05		321.5	75.85	5092.30	0.24	-614.93	-561.69	1.016e+06
67	44	1.143e+06	-547.54	-9.07e-03	-0.52	0.0	110.69	-5481.02	0.34	1214.87	-658.26	1.116e+06
		6.802e+05	-658.26	2.76e-05		321.5	110.69	5651.65	0.34	-627.38	-547.54	1.143e+06
67	45	1.016e+06	-561.69	-8.01e-03	-0.48	0.0	75.85	-4941.76	0.24	1139.51	-637.62	9.922e+05
		5.994e+05	-637.62	2.67e-05		321.5	75.85	5092.30	0.24	-614.93	-561.69	1.016e+06
67	46	1.143e+06	-547.54	-9.07e-03	-0.52	0.0	110.69	-5481.02	0.34	1214.87	-658.26	1.116e+06
		6.802e+05	-658.26	2.76e-05		321.5	110.69	5651.65	0.34	-627.38	-547.54	1.143e+06
68	1	7.984e+05	1678.67	-0.01	-0.62	0.0	937.01	-1.068e+04	-7.85	4365.65	1678.67	7.984e+05
		-6.612e+05	-1770.29	2.77e-04		439.5	937.01	6562.00	-7.85	478.30	-1770.29	-1.203e+05
68	2	9.231e+05	1929.62	0.01	-0.65	0.0	968.96	-1.165e+04	-9.08	5778.12	1929.62	9.231e+05
		-6.884e+05	-2061.28	4.15e-04		439.5	968.96	6865.55	-9.08	1553.30	-2061.28	-1.347e+05
68	3	1.097e+06	1944.47	0.01	-0.72	0.0	1685.12	-1.358e+04	-8.88	7561.58	1944.47	1.097e+06
		-8.257e+05	-1957.25	5.78e-04		439.5	1685.12	7435.77	-8.88	2660.21	-1957.25	-2.543e+05
68	4	1.221e+06	2195.43	0.01	-0.75	0.0	1717.07	-1.454e+04	-10.11	8974.05	2195.43	1.221e+06
		-8.528e+05	-2248.24	7.16e-04		439.5	1717.07	7739.32	-10.11	3735.21	-2248.24	-2.687e+05
68	5	5.377e+05	1223.13	-0.01	-0.45	0.0	528.95	-7476.68	-5.77	2538.72	1223.13	5.377e+05
		-4.665e+05	-1313.82	1.36e-04		439.5	528.95	4823.65	-5.77	-191.54	-1313.82	-5.818e+04
68	6	6.624e+05	1474.08	7.70e-03	-0.48	0.0	560.90	-8441.59	-7.01	3951.19	1474.08	6.624e+05
		-4.936e+05	-1604.82	2.74e-04		439.5	560.90	5127.20	-7.01	883.46	-1604.82	-7.257e+04
68	7	8.360e+05	1488.93	9.22e-03	-0.55	0.0	1277.06	-1.037e+04	-6.80	5734.65	1488.93	8.360e+05
		-6.309e+05	-1500.78	4.37e-04		439.5	1277.06	5697.42	-6.80	1990.37	-1500.78	-1.922e+05

68	8	9.607e+05	1739.89	9.59e-03	-0.58	0.0	1309.02	-1.133e+04	-8.04	7147.12	1739.89	9.607e+05
		-6.580e+05	-1791.78	5.75e-04		439.5	1309.02	6000.97	-8.04	3065.37	-1791.78	-2.066e+05
68	9	1.048e+06	2180.58	0.01	-0.68	0.0	1000.91	-1.261e+04	-10.31	7190.59	2180.58	1.048e+06
		-7.155e+05	-2352.28	5.54e-04		439.5	1000.91	7169.10	-10.31	2628.31	-2352.28	-1.491e+05
68	10	1.007e+06	1864.73	0.01	-0.69	0.0	1460.68	-1.271e+04	-8.57	6602.80	1864.73	1.007e+06
		-7.763e+05	-1901.16	4.87e-04		439.5	1460.68	7173.64	-8.57	2005.64	-1901.16	-2.141e+05
68	11	1.257e+06	2366.64	0.01	-0.75	0.0	1524.59	-1.464e+04	-11.03	9427.74	2366.64	1.257e+06
		-8.306e+05	-2483.15	7.64e-04		439.5	1524.59	7780.74	-11.03	4155.65	-2483.15	-2.429e+05
68	12	7.870e+05	1725.04	7.34e-03	-0.51	0.0	592.86	-9406.49	-8.24	5363.66	1725.04	7.870e+05
		-5.207e+05	-1895.82	4.13e-04		439.5	592.86	5430.75	-8.24	1958.47	-1895.82	-8.696e+04
68	13	7.465e+05	1409.19	8.79e-03	-0.52	0.0	1052.63	-9501.42	-6.49	4775.87	1409.19	7.465e+05
		-5.816e+05	-1444.69	3.46e-04		439.5	1052.63	5435.29	-6.49	1335.79	-1444.69	-1.520e+05
68	14	9.959e+05	1911.10	9.44e-03	-0.58	0.0	1116.54	-1.143e+04	-8.96	7600.81	1911.10	9.959e+05
		-6.359e+05	-2026.69	6.23e-04		439.5	1116.54	6042.39	-8.96	3485.81	-2026.69	-1.808e+05
68	15	6.040e+05	1282.19	-9.23e-03	-0.47	0.0	695.20	-8119.46	-6.00	3248.93	1282.19	6.040e+05
		-5.030e+05	-1355.37	2.02e-04		439.5	695.20	5017.82	-6.00	293.33	-1355.37	-8.796e+04
68	16	6.871e+05	1449.50	8.02e-03	-0.49	0.0	716.50	-8762.73	-6.82	4190.58	1449.50	6.871e+05
		-5.211e+05	-1549.37	2.95e-04		439.5	716.50	5220.19	-6.82	1010.00	-1549.37	-9.755e+04
68	17	8.029e+05	1459.40	9.00e-03	-0.54	0.0	1193.94	-1.005e+04	-6.69	5379.55	1459.40	8.029e+05
		-6.126e+05	-1480.01	4.03e-04		439.5	1193.94	5600.33	-6.69	1747.93	-1480.01	-1.773e+05
68	18	8.860e+05	1626.70	9.05e-03	-0.56	0.0	1215.24	-1.069e+04	-7.51	6321.19	1626.70	8.860e+05
		-6.307e+05	-1674.00	4.95e-04		439.5	1215.24	5802.70	-7.51	2464.60	-1674.00	-1.869e+05
68	19	7.702e+05	1616.80	7.74e-03	-0.52	0.0	737.80	-9406.00	-7.65	5132.22	1616.80	7.702e+05
		-5.392e+05	-1743.36	3.87e-04		439.5	737.80	5422.55	-7.65	1726.67	-1743.36	-1.071e+05
68	20	7.432e+05	1406.24	8.78e-03	-0.52	0.0	1044.32	-9469.28	-6.48	4740.36	1406.24	7.432e+05
		-5.797e+05	-1442.61	3.43e-04		439.5	1044.32	5425.58	-6.48	1311.55	-1442.61	-1.505e+05
68	21	9.094e+05	1740.85	8.87e-03	-0.56	0.0	1086.92	-1.076e+04	-8.13	6623.66	1740.85	9.094e+05
		-6.159e+05	-1830.61	5.28e-04		439.5	1086.92	5830.31	-8.13	2744.89	-1830.61	-1.697e+05
68	22	9.080e+05	1.601e+05	0.01	-0.49	0.0	1692.60	-9429.61	755.52	-3.557e+04	-1.719e+05	9.080e+05
		-5.217e+05	-1.719e+05	-0.02		439.5	1692.60	4069.52	755.52	-4.496e+04	1.601e+05	-2.499e+05
68	23	5.290e+05	1.749e+05	-0.02	-0.55	0.0	287.49	-9091.40	-769.34	4.439e+04	1.749e+05	5.290e+05
		-6.354e+05	-1.632e+05	0.02		439.5	287.49	6714.71	-769.34	4.674e+04	-1.632e+05	-2.673e+04
68	24	2.882e+06	5.633e+04	0.26	-0.42	0.0	181.63	4147.46	234.02	1.701e+04	-4.652e+04	-7.401e+05
		-7.401e+05	-4.652e+04	2.12e-03		439.5	181.63	1.069e+04	234.02	1.426e+04	5.633e+04	2.882e+06
68	25	2.215e+06	4.713e+04	-0.26	-0.86	0.0	-262.49	-2.228e+04	-237.03	-2397.42	4.713e+04	2.215e+06
		-2.918e+06	-5.704e+04	-8.64e-04		439.5	-262.49	559.85	-237.03	-6398.94	-5.704e+04	-2.918e+06
68	26	9.235e+05	1.729e+05	0.01	-0.49	0.0	1731.40	-9483.71	814.33	-3.774e+04	-1.850e+05	9.235e+05
		-5.230e+05	-1.850e+05	-0.02		439.5	1731.40	3996.35	814.33	-4.713e+04	1.729e+05	-2.604e+05
68	27	5.158e+05	1.879e+05	-0.03	-0.55	0.0	251.42	-9041.24	-827.94	4.680e+04	1.879e+05	5.158e+05
		-6.366e+05	-1.760e+05	0.02		439.5	251.42	6773.48	-827.94	4.916e+04	-1.760e+05	-1.764e+04
68	28	1.964e+06	3.701e+04	-0.18	-0.44	0.0	1158.84	1287.19	153.57	1.058e+04	-3.049e+04	-7.279e+05
		-7.279e+05	-3.049e+04	1.16e-03		439.5	1158.84	9828.00	153.57	7687.69	3.701e+04	1.964e+06
68	29	2.166e+06	3.379e+04	-0.18	-0.76	0.0	-601.12	-1.939e+04	-169.53	666.50	3.379e+04	2.166e+06
		-2.056e+06	-4.072e+04	-2.73e-04		439.5	-601.12	1363.75	-169.53	-3158.93	-4.072e+04	-2.039e+06
68	30	9.055e+05	1.849e+05	0.01	-0.49	0.0	1731.75	-9427.82	867.93	-3.719e+04	-1.966e+05	9.055e+05
		-5.214e+05	-1.966e+05	-0.02		439.5	1731.75	4095.10	867.93	-4.658e+04	1.849e+05	-2.467e+05
68	31	5.233e+05	1.996e+05	-0.03	-0.55	0.0	237.71	-9080.42	-882.33	4.545e+04	1.996e+05	5.233e+05
		-6.378e+05	-1.881e+05	0.02		439.5	237.71	6741.70	-882.33	4.776e+04	-1.881e+05	-2.504e+04
68	32	2.817e+06	4.882e+04	-0.25	-0.42	0.0	186.73	3989.74	202.77	1.674e+04	-4.030e+04	-7.519e+05
		-7.519e+05	-4.030e+04	2.06e-03		439.5	186.73	1.066e+04	202.77	1.398e+04	4.882e+04	2.817e+06
68	33	2.200e+06	4.033e+04	-0.26	-0.86	0.0	-379.51	-2.204e+04	-202.92	-1797.51	4.033e+04	2.200e+06
		-2.851e+06	-4.885e+04	-7.72e-04		439.5	-379.51	670.88	-202.92	-5784.20	-4.885e+04	-2.851e+06
68	34	9.055e+05	1.849e+05	0.01	-0.49	0.0	1731.75	-9427.82	867.93	-3.719e+04	-1.966e+05	9.055e+05
		-5.214e+05	-1.966e+05	-0.02		439.5	1731.75	4095.10	867.93	-4.658e+04	1.849e+05	-2.467e+05
68	35	5.233e+05	1.996e+05	-0.03	-0.55	0.0	237.71	-9080.42	-882.33	4.545e+04	1.996e+05	5.233e+05
		-6.378e+05	-1.881e+05	0.02		439.5	237.71	6741.70	-882.33	4.776e+04	-1.881e+05	-2.504e+04
68	36	2.031e+06	3.602e+04	-0.20	-0.43	0.0	1048.39	1724.19	149.45	1.137e+04	-2.966e+04	-7.505e+05
		-7.505e+05	-2.966e+04	1.26e-03		439.5	1048.39	9676.06	149.45	8528.11	3.602e+04	2.031e+06
68	37	2.196e+06	3.154e+04	-0.20	-0.78	0.0	-835.71	-1.964e+04	-158.28	394.21	3.154e+04	2.196e+06
		-2.047e+06	-3.803e+04	-3.14e-04		439.5	-835.71	1638.66	-158.28	-3482.92	-3.803e+04	-2.024e+06
68	38	6.040e+05	1282.19	-9.23e-03	-0.47	0.0	695.20	-8119.46	-6.00	3248.93	1282.19	6.040e+05
		-5.030e+05	-1355.37	2.02e-04		439.5	695.20	5017.82	-6.00	293.33	-1355.37	-8.796e+04
68	39	7.432e+05	1406.24	8.78e-03	-0.52	0.0	1044.32	-9469.28	-6.48	4740.36	1406.24	7.432e+05
		-5.797e+05	-1442.61	3.43e-04		439.5	1044.32	5425.58	-6.48	1311.55	-1442.61	-1.505e+05
68	40	6.372e+05	1349.12	8.45e-03	-0.48	0.0	703.72	-8376.76	-6.33	3625.59	1349.12	6.372e+05
		-5.102e+05	-1432.97	2.39e-04		439.5	703.72	5098.77	-6.33	579.99	-1432.97	-9.180e+04
68	41	7.233e+05	1388.52	8.72e-03	-0.51	0.0	994.44	-9276.45	-6.41	4527.30	1388.52	7.233e+05
		-5.688e+05	-1430.15	3.23e-04		439.5	994.44	5367.33	-6.41	1166.09	-1430.15	-1.416e+05
68	42	7.566e+05	1455.44	8.58e-03	-0.52	0.0	1002.96	-9533.76	-6.74	4903.96	1455.44	7.566e+05
		-5.760e+05	-1507.75	3.60e-04		439.5	1002.96	5448.28	-6.74	1452.76	-1507.75	-1.454e+05
68	43	6.040e+05	1282.19	-9.23e-03	-0.47	0.0	695.20	-8119.46	-6.00	3248.93	1282.19	6.040e+05
		-5.030e+05	-1355.37	2.02e-04		439.5	695.20	5017.82	-6.00	293.33	-1355.37	-8.796e+04
68	44	7.233e+05	1388.52	8.72e-03	-0.51	0.0	994.44	-9276.45	-6.41	4527.30	1388.52	7.233e+05
		-5.688e+05	-1430.15	3.23e-04		439.5	994.44	5367.33	-6.41	1166.09	-1430.15	-1.416e+05
68	45	6.040e+05	1282.19	-9.23e-03	-0.47	0.0	695.20	-8119.46	-6.00	3248.93	1282.19	6.040e+05
		-5.030e+05	-1355.37	2.02e-04		439.5	695.20	5017.82	-6.00	293.33	-1355.37	-8.796e+04
68	46	7.233e+05	1388.52	8.72e-03	-0.51	0.0	994.44	-9276.45	-6.41	4527.30	1388.52	7.233e+05

		-5.688e+05	-1430.15	3.23e-04		439.5	994.44	5367.33	-6.41	1166.09	-1430.15	-1.416e+05
69	1	8.320e+05	2071.23	-0.02	-0.61	0.0	630.40	-4808.87	-12.60	-4192.31	2071.23	3.607e+05
		5.750e+04	-2030.37	-4.60e-04		325.5	630.40	7785.95	-12.60	-7041.23	-2030.37	8.320e+05
69	2	9.383e+05	2354.85	-0.02	-0.64	0.0	741.76	-5137.39	-14.32	-4761.54	2354.85	4.172e+05
		9.545e+04	-2305.56	-5.17e-04		325.5	741.76	8432.38	-14.32	-7875.89	-2305.56	9.383e+05
69	3	1.146e+06	2544.89	-0.02	-0.71	0.0	1199.69	-5784.15	-15.38	-5525.07	2544.89	5.289e+05
		1.707e+05	-2461.73	-6.01e-04		325.5	1199.69	9685.99	-15.38	-9155.77	-2461.73	1.146e+06
69	4	1.252e+06	2828.50	-0.02	-0.75	0.0	1311.05	-6112.67	-17.10	-6094.30	2828.50	5.854e+05
		2.087e+05	-2736.92	-6.58e-04		325.5	1311.05	1.033e+04	-17.10	-9990.44	-2736.92	1.252e+06
69	5	5.594e+05	1471.81	-0.01	-0.44	0.0	338.95	-3449.06	-8.98	-2883.12	1471.81	2.344e+05
		1.520e+04	-1451.22	-3.17e-04		325.5	338.95	5502.00	-8.98	-4874.13	-1451.22	5.594e+05
69	6	6.657e+05	1755.42	-0.01	-0.48	0.0	450.31	-3777.58	-10.70	-3452.35	1755.42	2.908e+05
		5.314e+04	-1726.41	-3.75e-04		325.5	450.31	6148.43	-10.70	-5708.80	-1726.41	6.657e+05
69	7	8.736e+05	1945.46	-0.02	-0.54	0.0	908.24	-4424.34	-11.76	-4215.88	1945.46	4.026e+05
		1.284e+05	-1882.58	-4.59e-04		325.5	908.24	7402.05	-11.76	-6988.68	-1882.58	8.736e+05
69	8	9.799e+05	2229.08	-0.02	-0.58	0.0	1019.60	-4752.86	-13.48	-4785.11	2229.08	4.590e+05
		1.664e+05	-2157.76	-5.16e-04		325.5	1019.60	8048.47	-13.48	-7823.35	-2157.76	9.799e+05
69	9	1.045e+06	2638.47	-0.02	-0.68	0.0	853.12	-5465.91	-16.03	-5330.77	2638.47	4.736e+05
		1.334e+05	-2580.75	-5.75e-04		325.5	853.12	9078.80	-16.03	-8710.56	-2580.75	1.045e+06
69	10	1.052e+06	2402.79	-0.02	-0.68	0.0	1028.90	-5491.57	-14.55	-5125.24	2402.79	4.785e+05
		1.368e+05	-2332.32	-5.58e-04		325.5	1028.90	9115.98	-14.55	-8521.41	-2332.32	1.052e+06
69	11	1.264e+06	2970.02	-0.02	-0.75	0.0	1251.62	-6148.60	-17.98	-6263.70	2970.02	5.913e+05
		2.127e+05	-2882.70	-6.73e-04		325.5	1251.62	1.041e+04	-17.98	-1.019e+04	-2882.70	1.264e+06
69	12	7.720e+05	2039.04	-0.02	-0.51	0.0	561.67	-4106.09	-12.41	-4021.58	2039.04	3.472e+05
		9.109e+04	-2001.59	-4.32e-04		325.5	561.67	6794.86	-12.41	-6543.47	-2001.59	7.720e+05
69	13	7.793e+05	1803.36	-0.01	-0.51	0.0	737.45	-4131.76	-10.93	-3816.01	1803.36	3.521e+05
		9.446e+04	-1753.17	-4.16e-04		325.5	737.45	6832.03	-10.93	-6354.32	-1753.17	7.793e+05
69	14	9.919e+05	2370.60	-0.02	-0.58	0.0	960.17	-4788.79	-14.36	-4954.51	2370.60	4.650e+05
		1.704e+05	-2303.54	-5.31e-04		325.5	960.17	8124.89	-14.36	-8023.65	-2303.54	9.919e+05
69	15	6.292e+05	1577.06	-0.01	-0.47	0.0	465.46	-3665.79	-9.60	-3179.29	1577.06	2.717e+05
		4.036e+04	-1547.08	-3.49e-04		325.5	465.46	5924.23	-9.60	-5344.04	-1547.08	6.292e+05
69	16	7.001e+05	1766.14	-0.01	-0.49	0.0	539.70	-3884.80	-10.74	-3558.78	1766.14	3.094e+05
		6.566e+04	-1730.54	-3.87e-04		325.5	539.70	6355.18	-10.74	-5900.44	-1730.54	7.001e+05
69	17	8.387e+05	1892.83	-0.02	-0.53	0.0	844.99	-4315.98	-11.45	-4067.79	1892.83	3.839e+05
		1.158e+05	-1834.65	-4.43e-04		325.5	844.99	7190.93	-11.45	-6753.73	-1834.65	8.387e+05
69	18	9.095e+05	2081.91	-0.02	-0.56	0.0	919.23	-4534.99	-12.60	-4447.28	2081.91	4.215e+05
		1.411e+05	-2018.11	-4.81e-04		325.5	919.23	7621.88	-12.60	-7310.18	-2018.11	9.095e+05
69	19	7.709e+05	1955.22	-0.02	-0.51	0.0	613.94	-4103.81	-11.89	-3938.26	1955.22	3.470e+05
		9.095e+04	-1913.99	-4.25e-04		325.5	613.94	6786.14	-11.89	-6456.92	-1913.99	7.709e+05
69	20	7.758e+05	1798.10	-0.01	-0.51	0.0	731.13	-4120.92	-10.90	-3801.24	1798.10	3.502e+05
		9.320e+04	-1748.38	-4.15e-04		325.5	731.13	6810.92	-10.90	-6330.82	-1748.38	7.758e+05
69	21	9.175e+05	2176.26	-0.02	-0.56	0.0	879.61	-4558.94	-13.18	-4560.22	2176.26	4.255e+05
		1.438e+05	-2115.29	-4.91e-04		325.5	879.61	7672.82	-13.18	-7443.71	-2115.29	9.175e+05
69	22	8.764e+05	1.985e+04	-0.02	-0.49	0.0	1898.39	-3769.62	-332.19	7184.40	1.985e+04	4.749e+05
		2.406e+05	-8.828e+04	3.16e-03		325.5	1898.39	6324.46	-332.19	985.14	-8.828e+04	8.764e+05
69	23	6.292e+05	8.431e+04	-0.01	-0.52	0.0	-526.54	-4330.03	307.81	-1.518e+04	-1.588e+04	1.970e+05
		-7.428e+04	-1.588e+04	-3.92e-03		325.5	-526.54	7045.77	307.81	-1.415e+04	8.431e+04	6.292e+05
69	24	2.399e+06	5.037e+04	-0.16	-0.58	0.0	575.25	1.034e+04	302.98	5359.99	-4.825e+04	-2.802e+06
		-2.802e+06	-4.825e+04	5.30e-04		325.5	575.25	2.088e+04	302.98	2927.48	5.037e+04	2.399e+06
69	25	3.675e+06	4.866e+04	-0.19	-0.60	0.0	-636.54	-1.928e+04	-305.49	-1.373e+04	4.866e+04	3.675e+06
		-9.371e+05	-5.077e+04	-1.42e-03		325.5	-636.54	-8168.95	-305.49	-1.638e+04	-5.077e+04	-9.371e+05
69	26	8.875e+05	1.711e+04	-0.02	-0.49	0.0	1974.67	-3763.80	-328.61	7114.00	1.711e+04	4.832e+05
		2.497e+05	-8.985e+04	3.23e-03		325.5	1974.67	6335.52	-328.61	960.79	-8.985e+04	8.875e+05
69	27	6.196e+05	8.598e+04	-0.01	-0.52	0.0	-598.58	-4333.24	304.81	-1.512e+04	-1.323e+04	1.899e+05
		-8.193e+04	-1.323e+04	-3.98e-03		325.5	-598.58	7033.35	304.81	-1.414e+04	8.598e+04	6.196e+05
69	28	1.961e+06	3.266e+04	-0.12	-0.56	0.0	339.63	6197.09	196.25	5042.87	-3.122e+04	-1.875e+06
		-1.875e+06	-3.122e+04	3.66e-04		325.5	339.63	1.680e+04	196.25	2650.51	3.266e+04	1.961e+06
69	29	2.766e+06	3.484e+04	-0.15	-0.58	0.0	-427.13	-1.510e+04	-218.48	-1.211e+04	3.484e+04	2.766e+06
		-4.649e+05	-3.628e+04	-1.15e-03		325.5	-427.13	-4041.85	-218.48	-1.471e+04	-3.628e+04	-4.649e+05
69	30	8.765e+05	1.102e+04	-0.02	-0.49	0.0	1991.82	-3772.81	-302.62	7314.42	1.102e+04	4.737e+05
		2.393e+05	-8.748e+04	3.15e-03		325.5	1991.82	6335.50	-302.62	1144.37	-8.748e+04	8.765e+05
69	31	6.232e+05	8.346e+04	-0.01	-0.52	0.0	-636.35	-4339.80	277.88	-1.530e+04	-6991.28	1.936e+05
		-7.880e+04	-6991.28	-3.88e-03		325.5	-636.35	7039.32	277.88	-1.433e+04	8.346e+04	6.232e+05
69	32	2.317e+06	4.368e+04	-0.16	-0.58	0.0	434.06	9929.19	262.74	5181.35	-4.184e+04	-2.743e+06
		-2.743e+06	-4.184e+04	5.03e-04		325.5	434.06	2.043e+04	262.74	2754.53	4.368e+04	2.317e+06
69	33	3.554e+06	4.174e+04	-0.19	-0.60	0.0	-565.77	-1.875e+04	-262.00	-1.371e+04	4.174e+04	3.554e+06
		-8.864e+05	-4.354e+04	-1.41e-03		325.5	-565.77	-7659.94	-262.00	-1.636e+04	-4.354e+04	-8.864e+05
69	34	8.765e+05	1.102e+04	-0.02	-0.49	0.0	1991.82	-3772.81	-302.62	7314.42	1.102e+04	4.737e+05
		2.393e+05	-8.748e+04	3.15e-03		325.5	1991.82	6335.50	-302.62	1144.37	-8.748e+04	8.765e+05
69	35	6.232e+05	8.346e+04	-0.01	-0.52	0.0	-636.35	-4339.80	277.88	-1.530e+04	-6991.28	1.936e+05
		-7.880e+04	-6991.28	-3.88e-03		325.5	-636.35	7039.32	277.88	-1.433e+04	8.346e+04	6.232e+05
69	36	2.011e+06	3.182e+04	-0.14	-0.57	0.0	129.83	6772.10	191.23	5752.11	-3.042e+04	-2.022e+06
		-2.022e+06	-3.042e+04	4.32e-04		325.5	129.83	1.737e+04	191.23	3365.50	3.182e+04	2.011e+06
69	37	2.870e+06	3.255e+04	-0.16	-0.59	0.0	-534.80	-1.543e+04	-204.15	-1.310e+04	3.255e+04	2.870e+06
		-4.758e+05	-3.390e+04	-1.24e-03		325.5	-534.80	-4355.40	-204.15	-1.572e+04	-3.390e+04	-4.758e+05
69	38	6.292e+05	1577.06	-0.01	-0.47	0.0	465.46	-3665.79	-9.60	-3179.29	1577.06	2.717e+05
		4.036e+04	-1547.08	-3.49e-04		325.5	465.46	5924.23	-9.60	-5344.04	-1547.08	6.292e+05

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69  39  7.758e+05  1798.10    -0.01  -0.51   0.0    731.13  -4120.92    -10.90   -3801.24    1798.10  3.502e+05
        9.320e+04 -1748.38  -4.15e-04        325.5    731.13   6810.92    -10.90   -6330.82   -1748.38  7.758e+05
69  40  6.576e+05  1652.70    -0.01  -0.47   0.0    495.15  -3753.40    -10.06   -3331.09    1652.70  2.868e+05
        5.048e+04 -1620.46  -3.64e-04        325.5    495.15   6096.61    -10.06   -5566.61   -1620.46  6.576e+05
69  41  7.549e+05  1766.53    -0.01  -0.51   0.0    693.17  -4055.90    -10.71   -3712.39    1766.53  3.390e+05
        8.565e+04 -1719.62  -4.05e-04        325.5    693.17   6684.25    -10.71   -6189.85   -1719.62  7.549e+05
69  42  7.832e+05  1842.16    -0.01  -0.51   0.0    722.87  -4143.51    -11.17   -3864.19    1842.16  3.541e+05
        9.577e+04 -1793.00  -4.21e-04        325.5    722.87   6856.63    -11.17   -6412.43   -1793.00  7.832e+05
69  43  6.292e+05  1577.06    -0.01  -0.47   0.0    465.46  -3665.79     -9.60   -3179.29    1577.06  2.717e+05
        4.036e+04 -1547.08  -3.49e-04        325.5    465.46   5924.23     -9.60   -5344.04   -1547.08  6.292e+05
69  44  7.549e+05  1766.53    -0.01  -0.51   0.0    693.17  -4055.90    -10.71   -3712.39    1766.53  3.390e+05
        8.565e+04 -1719.62  -4.05e-04        325.5    693.17   6684.25    -10.71   -6189.85   -1719.62  7.549e+05
69  45  6.292e+05  1577.06    -0.01  -0.47   0.0    465.46  -3665.79     -9.60   -3179.29    1577.06  2.717e+05
        4.036e+04 -1547.08  -3.49e-04        325.5    465.46   5924.23     -9.60   -5344.04   -1547.08  6.292e+05
69  46  7.549e+05  1766.53    -0.01  -0.51   0.0    693.17  -4055.90    -10.71   -3712.39    1766.53  3.390e+05
        8.565e+04 -1719.62  -4.05e-04        325.5    693.17   6684.25    -10.71   -6189.85   -1719.62  7.549e+05
70   1  4.261e+05  3100.48    -0.02  -0.59   0.0    554.79  -4305.85    -16.84   -8272.40    3100.48 -1.164e+05
       -3.730e+05 -2414.21  -8.03e-04        327.5    554.79   7724.20    -16.84 -1.090e+04   -2414.21  4.261e+05
70   2  5.036e+05  3501.65    -0.03  -0.63   0.0    597.09  -4424.83    -19.04 -1.007e+04    3501.65 -1.344e+05
       -3.876e+05 -2733.69  -9.63e-04        327.5    597.09   8455.80    -19.04 -1.293e+04   -2733.69  5.036e+05
70   3  6.349e+05  3910.87    -0.03  -0.69   0.0   1042.45  -4582.55    -21.13 -1.287e+04    3910.87 -2.246e+05
       -4.663e+05 -3008.38  -1.22e-03        327.5   1042.45  1.001e+04    -21.13 -1.618e+04   -3008.38  6.349e+05
70   4  7.124e+05  4312.05    -0.04  -0.72   0.0   1084.75  -4701.53    -23.33 -1.466e+04    4312.05 -2.426e+05
       -4.841e+05 -3327.85  -1.37e-03        327.5   1084.75  1.074e+04    -23.33 -1.820e+04   -3327.85  7.124e+05
70   5  2.742e+05  2177.19    -0.01  -0.43   0.0    301.72  -3241.25    -11.85   -5185.34    2177.19 -6.176e+04
       -2.647e+05 -1704.74  -5.12e-04        327.5    301.72   5355.97    -11.85   -7033.40   -1704.74  2.742e+05
70   6  3.517e+05  2578.36    -0.02  -0.46   0.0    344.02  -3360.23    -14.05   -6982.22    2578.36 -7.984e+04
       -2.793e+05 -2024.21  -6.72e-04        327.5    344.02   6087.57    -14.05   -9056.74   -2024.21  3.517e+05
70   7  4.830e+05  2987.59    -0.03  -0.53   0.0    789.38  -3517.94    -16.14   -9779.72    2987.59 -1.700e+05
       -3.562e+05 -2298.90  -9.24e-04        327.5    789.38   7640.28    -16.14 -1.231e+04   -2298.90  4.830e+05
70   8  5.605e+05  3388.76    -0.03  -0.56   0.0    831.68  -3636.92    -18.34 -1.158e+04    3388.76 -1.880e+05
       -3.739e+05 -2618.38  -1.08e-03        327.5    831.68   8371.88    -18.34 -1.433e+04   -2618.38  5.605e+05
70   9  5.811e+05  3902.82    -0.03  -0.66   0.0    639.39  -4543.81    -21.24 -1.187e+04    3902.82 -1.525e+05
       -4.036e+05 -3053.17  -1.12e-03        327.5    639.39   9187.41    -21.24 -1.495e+04   -3053.17  5.811e+05
70  10  5.723e+05  3667.76    -0.03  -0.66   0.0    896.16  -4499.54    -19.84 -1.149e+04    3667.76 -1.921e+05
       -4.369e+05 -2830.13  -1.09e-03        327.5    896.16   9323.21    -19.84 -1.460e+04   -2830.13  5.723e+05
70  11  7.273e+05  4470.10    -0.04  -0.72   0.0    980.76  -4737.50    -24.24 -1.508e+04    4470.10 -2.282e+05
       -4.724e+05 -3469.08  -1.41e-03        327.5    980.76  1.079e+04    -24.24 -1.864e+04   -3469.08  7.273e+05
70  12  4.292e+05  2979.53    -0.02  -0.50   0.0    386.32  -3479.21    -16.25   -8779.10    2979.53 -9.791e+04
       -2.939e+05 -2343.69  -8.31e-04        327.5    386.32   6819.18    -16.25 -1.108e+04   -2343.69  4.292e+05
70  13  4.204e+05  2744.47    -0.02  -0.50   0.0    643.09  -3434.93    -14.86   -8401.41    2744.47 -1.375e+05
       -3.267e+05 -2120.65  -8.01e-04        327.5    643.09   6954.99    -14.86 -1.073e+04   -2120.65  4.204e+05
70  14  5.754e+05  3546.81    -0.03  -0.56   0.0    727.68  -3672.89    -19.26 -1.200e+04    3546.81 -1.736e+05
       -3.622e+05 -2759.60  -1.12e-03        327.5    727.68   8418.20    -19.26 -1.477e+04   -2759.60  5.754e+05
70  15  3.206e+05  2357.28    -0.02  -0.45   0.0    410.09  -3302.74    -12.81   -6206.32    2357.28 -8.581e+04
       -2.840e+05 -1836.77  -6.04e-04        327.5    410.09   5863.59    -12.81   -8206.16   -1836.77  3.206e+05
70  16  3.723e+05  2624.73    -0.02  -0.47   0.0    438.29  -3382.06    -14.27   -7404.24    2624.73 -9.786e+04
       -2.937e+05 -2049.76  -7.10e-04        327.5    438.29   6351.33    -14.27   -9555.05   -2049.76  3.723e+05
70  17  4.598e+05  2897.54    -0.02  -0.52   0.0    735.20  -3487.20    -15.67   -9269.23    2897.54 -1.579e+05
       -3.453e+05 -2232.88  -8.79e-04        327.5    735.20   7386.47    -15.67 -1.172e+04   -2232.88  4.598e+05
70  18  5.115e+05  3164.99    -0.03  -0.54   0.0    763.40  -3566.52    -17.13 -1.047e+04    3164.99 -1.700e+05
       -3.571e+05 -2445.87  -9.85e-04        327.5    763.40   7874.20    -17.13 -1.307e+04   -2445.87  5.115e+05
70  19  4.239e+05  2892.17    -0.02  -0.50   0.0    466.49  -3461.37    -15.74   -8602.15    2892.17 -1.099e+05
       -3.035e+05 -2262.74  -8.16e-04        327.5    466.49   6839.07    -15.74 -1.090e+04   -2262.74  4.239e+05
70  20  4.181e+05  2735.46    -0.02  -0.50   0.0    637.67  -3431.86    -14.81   -8350.36    2735.46 -1.363e+05
       -3.257e+05 -2114.05  -7.96e-04        327.5    637.67   6929.61    -14.81 -1.067e+04   -2114.05  4.181e+05
70  21  5.214e+05  3270.36    -0.03  -0.54   0.0    694.07  -3590.50    -17.74 -1.075e+04    3270.36 -1.604e+05
       -3.493e+05 -2540.02  -1.01e-03        327.5    694.07   7905.08    -17.74 -1.337e+04   -2540.02  5.214e+05
70  22  5.826e+05 2.147e+05   -0.04  -0.48   0.0   1196.04  -2103.82  -1300.37  4.777e+04  2.147e+05 -2.106e+05
       -2.929e+05 -2.112e+05   0.02        327.5   1196.04   7137.03  -1300.37  4.078e+04 -2.112e+05  5.826e+05
70  23  2.213e+05 2.062e+05  5.19e-03 -0.51   0.0      5.60  -4728.42   1265.46 -6.507e+04 -2.083e+05 -4.784e+04
       -3.776e+05 -2.083e+05  -0.02        327.5      5.60   6397.32   1265.46 -6.281e+04  2.062e+05  2.213e+05
70  24  2.880e+05 5.410e+04   -0.29  -0.87   0.0    363.31    510.16    367.28  1.205e+04 -6.618e+04 -2.873e+06
       -2.873e+06 -6.618e+04  1.21e-03        327.5    363.31  1.740e+04    367.28   9375.53  5.410e+04  2.880e+05
70  25  2.807e+06 6.652e+04    0.34  -0.41   0.0   -424.67  -7542.13   -369.12 -3.794e+04  6.652e+04  2.807e+06
        6.339e+05 -5.436e+04  -3.54e-04        327.5   -424.67  -4058.04   -369.12 -3.977e+04 -5.436e+04  6.339e+05
70  26  5.999e+05 2.255e+05   -0.04  -0.48   0.0   1236.09  -2005.83  -1368.36  4.963e+04  2.255e+05 -2.232e+05
       -2.976e+05 -2.226e+05   0.02        327.5   1236.09   7225.66  -1368.36  4.266e+04 -2.226e+05  5.999e+05
70  27  2.056e+05 2.175e+05  4.77e-03 -0.51   0.0    -32.01  -4815.96   1333.44 -6.710e+04 -2.192e+05 -3.610e+04
       -3.780e+05 -2.192e+05  -0.02        327.5    -32.01   6313.63   1333.44 -6.486e+04  2.175e+05  2.056e+05
70  28  6.963e+05 3.483e+04   -0.20  -0.76   0.0   -546.22   -319.67    236.18   9689.23 -4.252e+04 -1.842e+06
       -1.842e+06 -4.252e+04  8.32e-04        327.5   -546.22  1.487e+04    236.18   7092.11  3.483e+04  6.963e+05
70  29  1.751e+06 4.742e+04    0.25  -0.43   0.0    585.01  -6504.84   -263.12 -2.901e+04  4.742e+04  1.751e+06
        2.737e+05 -3.875e+04  -2.64e-03        327.5    585.01  -1295.22   -263.12 -3.096e+04 -3.875e+04  2.737e+05
70  30  5.827e+05 2.336e+05   -0.04  -0.48   0.0   1249.19  -2108.01  -1420.77  4.973e+04  2.336e+05 -2.116e+05
       -2.940e+05 -2.317e+05   0.02        327.5   1249.19   7147.75  -1420.77  4.274e+04 -2.317e+05  5.827e+05
70  31  2.141e+05 2.267e+05  4.94e-03 -0.51   0.0    -57.06  -4771.60   1386.02 -6.653e+04 -2.272e+05 -4.306e+04
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		-3.785e+05	-2.272e+05	-0.02		327.5	-57.06	6365.32	1386.02	-6.431e+04	2.267e+05	2.141e+05
70	32	2.767e+05	4.686e+04	-0.29	-0.86	0.0	168.48	316.14	318.23	1.247e+04	-5.736e+04	-2.801e+06
		-2.801e+06	-5.736e+04	1.22e-03		327.5	168.48	1.710e+04	318.23	9794.97	4.686e+04	2.767e+05
70	33	2.743e+06	5.696e+04	-0.34	-0.41	0.0	-310.46	-7579.50	-315.92	-3.741e+04	5.696e+04	2.743e+06
		5.825e+05	-4.651e+04	-3.47e-03		327.5	-310.46	-3981.97	-315.92	-3.924e+04	-4.651e+04	5.825e+05
70	34	5.827e+05	2.336e+05	-0.04	-0.48	0.0	1249.19	-2108.01	-1420.77	4.973e+04	2.336e+05	-2.116e+05
		-2.940e+05	-2.317e+05	0.02		327.5	1249.19	7147.75	-1420.77	4.274e+04	-2.317e+05	5.827e+05
70	35	2.141e+05	2.267e+05	4.94e-03	-0.51	0.0	-57.06	-4771.60	1386.02	-6.653e+04	-2.272e+05	-4.306e+04
		-3.785e+05	-2.272e+05	-0.02		327.5	-57.06	6365.32	1386.02	-6.431e+04	2.267e+05	2.141e+05
70	36	6.217e+05	3.385e+04	-0.22	-0.78	0.0	-900.83	-897.32	229.60	1.136e+04	-4.135e+04	-1.822e+06
		-1.829e+06	-4.135e+04	9.77e-04		327.5	-900.83	1.478e+04	229.60	8727.17	3.385e+04	6.217e+05
70	37	1.753e+06	4.417e+04	-0.27	-0.42	0.0	614.32	-6044.73	-245.12	-3.162e+04	4.417e+04	1.753e+06
		3.432e+05	-3.610e+04	-2.85e-03		327.5	614.32	-1251.51	-245.12	-3.353e+04	-3.610e+04	3.432e+05
70	38	3.206e+05	2357.28	-0.02	-0.45	0.0	410.09	-3302.74	-12.81	-6206.32	2357.28	-8.581e+04
		-2.840e+05	-1836.77	-6.04e-04		327.5	410.09	5863.59	-12.81	-8206.16	-1836.77	3.206e+05
70	39	4.181e+05	2735.46	-0.02	-0.50	0.0	637.67	-3431.86	-14.81	-8350.36	2735.46	-1.363e+05
		-3.257e+05	-2114.05	-7.96e-04		327.5	637.67	6929.61	-14.81	-1.067e+04	-2114.05	4.181e+05
70	40	3.413e+05	2464.26	-0.02	-0.46	0.0	421.37	-3334.46	-13.39	-6685.48	2464.26	-9.063e+04
		-2.879e+05	-1921.97	-6.46e-04		327.5	421.37	6058.69	-13.39	-8745.72	-1921.97	3.413e+05
70	41	4.042e+05	2681.44	-0.02	-0.49	0.0	605.16	-3413.41	-14.52	-8044.07	2681.44	-1.291e+05
		-3.191e+05	-2074.44	-7.69e-04		327.5	605.16	6777.32	-14.52	-1.032e+04	-2074.44	4.042e+05
70	42	4.248e+05	2788.42	-0.02	-0.50	0.0	616.44	-3445.14	-15.11	-8523.23	2788.42	-1.339e+05
		-3.238e+05	-2159.63	-8.11e-04		327.5	616.44	6972.41	-15.11	-1.086e+04	-2159.63	4.248e+05
70	43	3.206e+05	2357.28	-0.02	-0.45	0.0	410.09	-3302.74	-12.81	-6206.32	2357.28	-8.581e+04
		-2.840e+05	-1836.77	-6.04e-04		327.5	410.09	5863.59	-12.81	-8206.16	-1836.77	3.206e+05
70	44	4.042e+05	2681.44	-0.02	-0.49	0.0	605.16	-3413.41	-14.52	-8044.07	2681.44	-1.291e+05
		-3.191e+05	-2074.44	-7.69e-04		327.5	605.16	6777.32	-14.52	-1.032e+04	-2074.44	4.042e+05
70	45	3.206e+05	2357.28	-0.02	-0.45	0.0	410.09	-3302.74	-12.81	-6206.32	2357.28	-8.581e+04
		-2.840e+05	-1836.77	-6.04e-04		327.5	410.09	5863.59	-12.81	-8206.16	-1836.77	3.206e+05
70	46	4.042e+05	2681.44	-0.02	-0.49	0.0	605.16	-3413.41	-14.52	-8044.07	2681.44	-1.291e+05
		-3.191e+05	-2074.44	-7.69e-04		327.5	605.16	6777.32	-14.52	-1.032e+04	-2074.44	4.042e+05
71	1	1.209e+06	4165.10	0.04	-0.57	0.0	-47.53	-1.261e+04	13.66	1.818e+04	-4733.41	1.209e+06
		-1.116e+06	-4733.41	1.93e-03		651.3	-47.53	8878.22	13.66	1.839e+04	4165.10	7.391e+04
71	2	1.301e+06	4719.92	0.05	-0.59	0.0	-42.33	-1.343e+04	15.45	2.111e+04	-5340.79	1.301e+06
		-1.177e+06	-5340.79	2.24e-03		651.3	-42.33	9367.49	15.45	2.085e+04	4719.92	7.610e+04
71	3	1.496e+06	5323.62	0.05	-0.65	0.0	-33.81	-1.514e+04	17.41	2.499e+04	-6017.13	1.496e+06
		-1.304e+06	-6017.13	2.69e-03		651.3	-33.81	1.039e+04	17.41	2.434e+04	5323.62	8.022e+04
71	4	1.589e+06	5878.44	0.06	-0.68	0.0	-28.61	-1.596e+04	19.20	2.792e+04	-6624.51	1.589e+06
		-1.365e+06	-6624.51	3.00e-03		651.3	-28.61	1.087e+04	19.20	2.680e+04	5878.44	8.241e+04
71	5	8.560e+05	2906.87	0.03	-0.42	0.0	-40.08	-9050.61	9.55	1.224e+04	-3311.92	8.560e+05
		-8.107e+05	-3311.92	1.29e-03		651.3	-40.08	6443.03	9.55	1.262e+04	2906.87	5.742e+04
71	6	9.488e+05	3461.69	0.03	-0.44	0.0	-34.88	-9870.96	11.33	1.517e+04	-3919.31	9.488e+05
		-8.716e+05	-3919.31	1.60e-03		651.3	-34.88	6932.30	11.33	1.509e+04	3461.69	5.742e+04
71	7	1.143e+06	4065.39	0.04	-0.50	0.0	-26.36	-1.158e+04	13.30	1.905e+04	-4595.65	1.143e+06
		-9.984e+05	-4595.65	2.05e-03		651.3	-26.36	7949.87	13.30	1.857e+04	4065.39	6.155e+04
71	8	1.236e+06	4620.21	0.04	-0.52	0.0	-21.16	-1.240e+04	15.08	2.198e+04	-5203.03	1.236e+06
		-1.059e+06	-5203.03	2.36e-03		651.3	-21.16	8439.14	15.08	2.103e+04	4620.21	6.373e+04
71	9	1.394e+06	5274.74	0.05	-0.62	0.0	-37.13	-1.425e+04	17.23	2.404e+04	-5948.18	1.394e+06
		-1.238e+06	-5948.18	2.55e-03		651.3	-37.13	9856.76	17.23	2.332e+04	5274.74	7.828e+04
71	10	1.410e+06	4976.07	0.05	-0.62	0.0	-37.93	-1.438e+04	16.29	2.295e+04	-5632.01	1.410e+06
		-1.248e+06	-5632.01	2.46e-03		651.3	-37.93	9933.01	16.29	2.255e+04	4976.07	7.833e+04
71	11	1.595e+06	6085.71	0.06	-0.68	0.0	-27.52	-1.602e+04	19.86	2.881e+04	-6846.78	1.595e+06
		-1.370e+06	-6846.78	3.08e-03		651.3	-27.52	1.091e+04	19.86	2.748e+04	6085.71	8.270e+04
71	12	1.042e+06	4016.51	0.04	-0.47	0.0	-29.68	-1.069e+04	13.12	1.810e+04	-4526.69	1.042e+06
		-9.325e+05	-4526.69	1.91e-03		651.3	-29.68	7421.57	13.12	1.755e+04	4016.51	5.960e+04
71	13	1.057e+06	3717.83	0.04	-0.47	0.0	-30.48	-1.082e+04	12.17	1.701e+04	-4210.53	1.057e+06
		-9.421e+05	-4210.53	1.82e-03		651.3	-30.48	7497.82	12.17	1.679e+04	3717.83	5.966e+04
71	14	1.243e+06	4827.47	0.04	-0.53	0.0	-20.07	-1.246e+04	15.74	2.287e+04	-5425.30	1.243e+06
		-1.064e+06	-5425.30	2.44e-03		651.3	-20.07	8476.36	15.74	2.171e+04	4827.47	6.402e+04
71	15	9.198e+05	3164.32	0.03	-0.43	0.0	-37.03	-9613.55	10.38	1.375e+04	-3597.19	9.198e+05
		-8.524e+05	-3597.19	1.46e-03		651.3	-37.03	6777.88	10.38	1.395e+04	3164.32	5.664e+04
71	16	9.817e+05	3534.20	0.03	-0.45	0.0	-33.56	-1.016e+04	11.57	1.571e+04	-4002.12	9.817e+05
		-8.930e+05	-4002.12	1.67e-03		651.3	-33.56	7104.06	11.57	1.559e+04	3534.20	5.810e+04
71	17	1.111e+06	3936.67	0.04	-0.49	0.0	-27.88	-1.130e+04	12.88	1.829e+04	-4453.01	1.111e+06
		-9.775e+05	-4453.01	1.97e-03		651.3	-27.88	7782.45	12.88	1.791e+04	3936.67	6.085e+04
71	18	1.173e+06	4306.55	0.04	-0.51	0.0	-24.42	-1.185e+04	14.07	2.025e+04	-4857.93	1.173e+06
		-1.018e+06	-4857.93	2.17e-03		651.3	-24.42	8108.63	14.07	1.955e+04	4306.55	6.230e+04
71	19	1.044e+06	3904.08	0.04	-0.47	0.0	-30.10	-1.071e+04	12.76	1.766e+04	-4407.04	1.044e+06
		-9.336e+05	-4407.04	1.87e-03		651.3	-30.10	7430.24	12.76	1.723e+04	3904.08	5.955e+04
71	20	1.054e+06	3704.96	0.04	-0.47	0.0	-30.63	-1.080e+04	12.13	1.693e+04	-4196.27	1.054e+06
		-9.400e+05	-4196.27	1.82e-03		651.3	-30.63	7481.08	12.13	1.672e+04	3704.96	5.959e+04
71	21	1.178e+06	4444.72	0.04	-0.51	0.0	-23.69	-1.189e+04	14.51	2.084e+04	-5006.11	1.178e+06
		-1.021e+06	-5006.11	2.23e-03		651.3	-23.69	8133.44	14.51	2.000e+04	4444.72	6.250e+04
71	22	1.499e+06	1.179e+05	-0.21	-0.43	0.0	-449.46	-4026.55	334.29	-3.541e+04	-9.979e+04	-1.142e+06
		-4.413e+05	-9.979e+04	-0.01		651.3	-449.46	7007.64	334.29	-4.100e+04	1.179e+05	1.499e+06
71	23	2.150e+06	9.031e+04	-0.18	-0.69	0.0	432.28	-1.726e+04	-306.19	6.859e+04	9.031e+04	2.150e+06
		-2.090e+06	-1.091e+05	0.01		651.3	432.28	7685.57	-306.19	7.390e+04	-1.091e+05	-1.457e+06

71	24	1.566e+06	9.850e+04	0.12	-1.05	0.0	-1456.55	-2.258e+04	-289.41	8.200e+04	9.850e+04	1.566e+06
		-2.399e+06	-8.998e+04	0.04		651.3	-1456.55	2.049e+04	-289.41	1.368e+05	-8.998e+04	5.407e+05
71	25	6.118e+05	9.038e+04	0.14	0.15	0.0	1297.92	1642.27	290.99	-1.646e+04	-9.913e+04	4.097e+05
		-3.831e+05	-9.913e+04	-0.03		651.3	1297.92	-5485.54	290.99	-7.211e+04	9.038e+04	-3.831e+05
71	26	1.496e+06	1.235e+05	-0.20	-0.43	0.0	-377.35	-3958.81	350.24	-3.106e+04	-1.045e+05	-1.808e+05
		-4.977e+05	-1.045e+05	-9.55e-03		651.3	-377.35	7235.36	350.24	-3.647e+04	1.235e+05	1.496e+06
71	27	2.213e+06	9.509e+04	-0.17	-0.69	0.0	343.18	-1.732e+04	-322.18	6.450e+04	9.509e+04	2.213e+06
		-2.060e+06	-1.147e+05	0.01		651.3	343.18	7468.35	-322.18	6.962e+04	-1.147e+05	-1.452e+06
71	28	1.464e+06	6.339e+04	0.08	-0.87	0.0	-981.59	-1.931e+04	-186.44	4.860e+04	6.339e+04	1.464e+06
		-1.969e+06	-5.803e+04	0.02		651.3	-981.59	1.658e+04	-186.44	8.454e+04	-5.803e+04	3.767e+05
71	29	5.779e+05	6.461e+04	-0.11	-0.21	0.0	914.72	-1717.15	208.03	-7529.16	-7.086e+04	5.779e+05
		-2.579e+05	-7.086e+04	-0.02		651.3	914.72	-1941.33	208.03	-4.590e+04	6.461e+04	-2.579e+05
71	30	1.453e+06	1.260e+05	-0.21	-0.43	0.0	0.71	-4126.48	357.03	-3.648e+04	-1.065e+05	-9.229e+04
		-4.352e+05	-1.065e+05	-9.99e-03		651.3	0.71	6883.53	357.03	-4.213e+04	1.260e+05	1.453e+06
71	31	2.142e+06	9.707e+04	-0.18	-0.69	0.0	23.06	-1.720e+04	-329.17	6.853e+04	9.707e+04	2.142e+06
		-2.062e+06	-1.173e+05	0.01		651.3	23.06	7766.43	-329.17	7.388e+04	-1.173e+05	-1.414e+06
71	32	1.567e+06	8.540e+04	0.11	-1.04	0.0	-1378.44	-2.242e+04	-250.67	7.891e+04	8.540e+04	1.567e+06
		-2.374e+06	-7.785e+04	0.04		651.3	-1378.44	2.026e+04	-250.67	1.328e+05	-7.785e+04	5.306e+05
71	33	5.851e+05	7.720e+04	0.14	0.13	0.0	1218.95	1386.74	248.94	-1.485e+04	-8.492e+04	4.227e+05
		-3.737e+05	-8.492e+04	-0.03		651.3	1218.95	-5216.72	248.94	-6.902e+04	7.720e+04	-3.737e+05
71	34	1.453e+06	1.260e+05	-0.21	-0.43	0.0	0.71	-4126.48	357.03	-3.648e+04	-1.065e+05	-9.229e+04
		-4.352e+05	-1.065e+05	-9.99e-03		651.3	0.71	6883.53	357.03	-4.213e+04	1.260e+05	1.453e+06
71	35	2.142e+06	9.707e+04	-0.18	-0.69	0.0	23.06	-1.720e+04	-329.17	6.853e+04	9.707e+04	2.142e+06
		-2.062e+06	-1.173e+05	0.01		651.3	23.06	7766.43	-329.17	7.388e+04	-1.173e+05	-1.414e+06
71	36	1.504e+06	6.159e+04	0.09	-0.90	0.0	-1037.36	-2.012e+04	-180.93	5.178e+04	6.159e+04	1.504e+06
		-2.066e+06	-5.625e+04	0.02		651.3	-1037.36	1.744e+04	-180.93	9.053e+04	-5.625e+04	4.071e+05
71	37	5.296e+05	5.999e+04	0.11	-0.19	0.0	935.74	-991.74	193.37	-6150.29	-6.595e+04	5.296e+05
		-2.776e+05	-6.595e+04	-0.02		651.3	935.74	-2620.09	193.37	-4.688e+04	5.999e+04	-2.776e+05
71	38	9.198e+05	3164.32	0.03	-0.43	0.0	-37.03	-9613.55	10.38	1.375e+04	-3597.19	9.198e+05
		-8.524e+05	-3597.19	1.46e-03		651.3	-37.03	6777.88	10.38	1.395e+04	3164.32	5.664e+04
71	39	1.054e+06	3704.96	0.04	-0.47	0.0	-30.63	-1.080e+04	12.13	1.693e+04	-4196.27	1.054e+06
		-9.400e+05	-4196.27	1.82e-03		651.3	-30.63	7481.08	12.13	1.672e+04	3704.96	5.959e+04
71	40	9.446e+05	3312.27	0.03	-0.44	0.0	-35.65	-9832.31	10.86	1.454e+04	-3759.16	9.446e+05
		-8.687e+05	-3759.16	1.54e-03		651.3	-35.65	6908.35	10.86	1.460e+04	3312.27	5.722e+04
71	41	1.035e+06	3627.73	0.04	-0.47	0.0	-31.54	-1.063e+04	11.88	1.648e+04	-4110.68	1.035e+06
		-9.275e+05	-4110.68	1.76e-03		651.3	-31.54	7380.62	11.88	1.632e+04	3627.73	5.917e+04
71	42	1.059e+06	3775.68	0.04	-0.47	0.0	-30.16	-1.085e+04	12.36	1.726e+04	-4272.65	1.059e+06
		-9.437e+05	-4272.65	1.85e-03		651.3	-30.16	7511.09	12.36	1.698e+04	3775.68	5.975e+04
71	43	9.198e+05	3164.32	0.03	-0.43	0.0	-37.03	-9613.55	10.38	1.375e+04	-3597.19	9.198e+05
		-8.524e+05	-3597.19	1.46e-03		651.3	-37.03	6777.88	10.38	1.395e+04	3164.32	5.664e+04
71	44	1.035e+06	3627.73	0.04	-0.47	0.0	-31.54	-1.063e+04	11.88	1.648e+04	-4110.68	1.035e+06
		-9.275e+05	-4110.68	1.76e-03		651.3	-31.54	7380.62	11.88	1.632e+04	3627.73	5.917e+04
71	45	9.198e+05	3164.32	0.03	-0.43	0.0	-37.03	-9613.55	10.38	1.375e+04	-3597.19	9.198e+05
		-8.524e+05	-3597.19	1.46e-03		651.3	-37.03	6777.88	10.38	1.395e+04	3164.32	5.664e+04
71	46	1.035e+06	3627.73	0.04	-0.47	0.0	-31.54	-1.063e+04	11.88	1.648e+04	-4110.68	1.035e+06
		-9.275e+05	-4110.68	1.76e-03		651.3	-31.54	7380.62	11.88	1.632e+04	3627.73	5.917e+04
72	1	1.841e+05	4060.86	3.24e-03	-0.56	0.0	40.01	-5203.80	-20.12	-2.323e+04	4060.86	5.709e+04
		-3.372e+05	-2528.85	-1.85e-03		327.5	40.01	5976.56	-20.12	-1.995e+04	-2528.85	1.841e+05
72	2	2.225e+05	4607.39	3.61e-03	-0.58	0.0	51.32	-5410.15	-22.94	-2.508e+04	4607.39	5.667e+04
		-3.473e+05	-2906.84	-2.01e-03		327.5	51.32	6433.88	-22.94	-2.176e+04	-2906.84	2.225e+05
72	3	2.829e+05	5187.27	5.54e-03	-0.63	0.0	260.28	-5787.15	-25.67	-2.870e+04	5187.27	2.421e+04
		-3.929e+05	-3220.45	-2.31e-03		327.5	260.28	7395.68	-25.67	-2.527e+04	-3220.45	2.829e+05
72	4	3.213e+05	5733.80	-8.19e-03	-0.65	0.0	271.60	-5993.50	-28.50	-3.055e+04	5733.80	2.379e+04
		-4.030e+05	-3598.45	-2.46e-03		327.5	271.60	7853.00	-28.50	-2.708e+04	-3598.45	3.213e+05
72	5	1.163e+05	2834.91	2.74e-03	-0.41	0.0	-25.71	-3853.34	-14.05	-1.647e+04	2834.91	5.235e+04
		-2.462e+05	-1767.93	-1.31e-03		327.5	-25.71	4233.48	-14.05	-1.398e+04	-1767.93	1.163e+05
72	6	1.546e+05	3381.44	2.48e-03	-0.43	0.0	-14.39	-4059.70	-16.88	-1.832e+04	3381.44	5.193e+04
		-2.552e+05	-2145.93	-1.46e-03		327.5	-14.39	4690.80	-16.88	-1.579e+04	-2145.93	1.546e+05
72	7	2.151e+05	3961.33	4.15e-03	-0.48	0.0	194.57	-4436.69	-19.61	-2.193e+04	3961.33	1.947e+04
		-3.008e+05	-2459.53	-1.76e-03		327.5	194.57	5652.60	-19.61	-1.930e+04	-2459.53	2.151e+05
72	8	2.535e+05	4507.85	-6.80e-03	-0.50	0.0	205.89	-4643.05	-22.43	-2.379e+04	4507.85	1.905e+04
		-3.109e+05	-2837.53	-1.92e-03		327.5	205.89	6109.92	-22.43	-2.111e+04	-2837.53	2.535e+05
72	9	2.608e+05	5153.91	4.98e-03	-0.60	0.0	62.64	-5616.50	-25.77	-2.694e+04	5153.91	5.625e+04
		-3.575e+05	-3284.84	-2.16e-03		327.5	62.64	6891.20	-25.77	-2.356e+04	-3284.84	2.608e+05
72	10	2.533e+05	4849.35	4.39e-03	-0.60	0.0	194.20	-5612.14	-24.01	-2.706e+04	4849.35	3.407e+04
		-3.762e+05	-3012.97	-2.17e-03		327.5	194.20	6969.94	-24.01	-2.367e+04	-3012.97	2.533e+05
72	11	3.300e+05	5942.40	-9.17e-03	-0.65	0.0	216.83	-6024.85	-29.65	-3.076e+04	5942.40	3.324e+04
		-3.964e+05	-3768.96	-2.48e-03		327.5	216.83	7884.58	-29.65	-2.729e+04	-3768.96	3.300e+05
72	12	1.930e+05	3927.97	3.59e-03	-0.46	0.0	-3.07	-4266.05	-19.70	-2.017e+04	3927.97	5.151e+04
		-2.654e+05	-2523.92	-1.62e-03		327.5	-3.07	5148.12	-19.70	-1.760e+04	-2523.92	1.930e+05
72	13	1.855e+05	3623.40	3.11e-03	-0.46	0.0	128.49	-4261.69	-17.94	-2.029e+04	3623.40	2.933e+04
		-2.841e+05	-2252.05	-1.63e-03		327.5	128.49	5226.86	-17.94	-1.771e+04	-2252.05	1.855e+05
72	14	2.622e+05	4716.46	-7.78e-03	-0.51	0.0	151.12	-4674.40	-23.59	-2.400e+04	4716.46	2.849e+04
		-3.043e+05	-3008.05	-1.94e-03		327.5	151.12	6141.50	-23.59	-2.132e+04	-3008.05	2.622e+05
72	15	1.382e+05	3085.23	2.51e-03	-0.43	0.0	23.24	-3982.98	-15.29	-1.768e+04	3085.23	4.504e+04
		-2.575e+05	-1921.62	-1.41e-03		327.5	23.24	4548.84	-15.29	-1.516e+04	-1921.62	1.382e+05
72	16	1.638e+05	3449.58	2.63e-03	-0.44	0.0	30.79	-4120.55	-17.17	-1.892e+04	3449.58	4.476e+04

		-2.642e+05	-2173.62	-1.51e-03		327.5	30.79	4853.72	-17.17	-1.637e+04	-2173.62	1.638e+05
72	17	2.041e+05	3836.17	3.71e-03	-0.47	0.0	170.10	-4371.88	-18.99	-2.133e+04	3836.17	2.312e+04
		-2.946e+05	-2382.69	-1.71e-03		327.5	170.10	5494.92	-18.99	-1.871e+04	-2382.69	2.041e+05
72	18	2.297e+05	4200.52	-5.17e-03	-0.49	0.0	177.64	-4509.45	-20.87	-2.256e+04	4200.52	2.284e+04
		-3.014e+05	-2634.69	-1.82e-03		327.5	177.64	5799.80	-20.87	-1.992e+04	-2634.69	2.297e+05
72	19	1.894e+05	3813.93	3.34e-03	-0.46	0.0	38.33	-4258.12	-19.05	-2.015e+04	3813.93	4.448e+04
		-2.710e+05	-2425.62	-1.62e-03		327.5	38.33	5158.60	-19.05	-1.757e+04	-2425.62	1.894e+05
72	20	1.844e+05	3610.89	3.08e-03	-0.46	0.0	126.04	-4255.21	-17.88	-2.023e+04	3610.89	2.970e+04
		-2.835e+05	-2244.37	-1.62e-03		327.5	126.04	5211.09	-17.88	-1.765e+04	-2244.37	1.844e+05
72	21	2.355e+05	4339.59	-5.82e-03	-0.49	0.0	141.13	-4530.34	-21.64	-2.270e+04	4339.59	2.914e+04
		-2.970e+05	-2748.36	-1.83e-03		327.5	141.13	5820.85	-21.64	-2.006e+04	-2748.36	2.355e+05
72	22	7.452e+05	1.234e+05	-0.07	-0.29	0.0	1393.29	1527.30	-778.75	3.683e+04	1.234e+05	-2.636e+05
		-2.636e+05	-1.317e+05	0.01		327.5	1393.29	4971.42	-778.75	2.852e+04	-1.317e+05	7.452e+05
72	23	3.280e+05	1.256e+05	-0.06	-0.72	0.0	-1162.49	-9982.99	733.84	-7.545e+04	-1.147e+05	3.280e+05
		-6.998e+05	-1.147e+05	-0.02		327.5	-1162.49	5313.34	733.84	-6.151e+04	1.256e+05	-3.841e+05
72	24	-2.666e+05	6.394e+04	-0.40	-1.00	0.0	649.43	-3445.88	466.32	-2.269e+05	-8.877e+04	-2.507e+06
		-2.586e+06	-8.877e+04	-0.02		327.5	649.43	1.518e+04	466.32	-2.182e+05	6.394e+04	-2.666e+05
72	25	2.576e+06	8.914e+04	-0.39	-0.32	0.0	-713.75	-5311.09	-467.41	1.643e+05	8.914e+04	2.576e+06
		5.357e+05	-6.394e+04	0.01		327.5	-713.75	-5232.45	-467.41	1.609e+05	-6.394e+04	5.357e+05
72	26	7.105e+05	1.290e+05	-0.06	-0.30	0.0	1355.47	1254.53	-817.47	3.054e+04	1.290e+05	-2.469e+05
		-2.469e+05	-1.387e+05	0.01		327.5	1355.47	4912.62	-817.47	2.264e+04	-1.387e+05	7.105e+05
72	27	3.122e+05	1.326e+05	-0.06	-0.71	0.0	-1127.65	-9723.64	772.33	-6.933e+04	-1.204e+05	3.122e+05
		-6.775e+05	-1.204e+05	-0.02		327.5	-1127.65	5367.62	772.33	-5.578e+04	1.326e+05	-3.513e+05
72	28	3.012e+05	4.117e+04	-0.27	-0.84	0.0	-586.22	-3440.32	299.39	-1.533e+05	-5.688e+04	-1.433e+06
		-1.531e+06	-5.688e+04	-0.01		327.5	-586.22	1.272e+04	299.39	-1.464e+05	4.117e+04	3.012e+05
72	29	1.576e+06	6.333e+04	-0.28	-0.35	0.0	297.93	-4832.65	-331.78	1.132e+05	6.333e+04	1.576e+06
		1.775e+05	-4.533e+04	8.68e-03		327.5	297.93	-2332.71	-331.78	1.115e+05	-4.533e+04	1.775e+05
72	30	7.658e+05	1.315e+05	-0.07	-0.30	0.0	1447.86	1644.62	-839.31	3.765e+04	1.315e+05	-2.800e+05
		-2.800e+05	-1.434e+05	0.02		327.5	1447.86	5085.99	-839.31	2.945e+04	-1.434e+05	7.658e+05
72	31	3.400e+05	1.375e+05	-0.06	-0.72	0.0	-1205.19	-1.004e+04	795.42	-7.523e+04	-1.230e+05	3.400e+05
		-7.018e+05	-1.230e+05	-0.02		327.5	-1205.19	5218.04	795.42	-6.148e+04	1.375e+05	-3.968e+05
72	32	-2.342e+05	5.532e+04	-0.39	-0.99	0.0	447.68	-3438.91	404.01	-2.220e+05	-7.699e+04	-2.446e+06
		-2.525e+06	-7.699e+04	-0.02		327.5	447.68	1.503e+04	404.01	-2.135e+05	5.532e+04	-2.342e+05
72	33	2.517e+06	7.638e+04	0.38	-0.32	0.0	-576.25	-5429.35	-399.96	1.590e+05	7.638e+04	2.517e+06
		4.720e+05	-5.460e+04	0.01		327.5	-576.25	-5198.29	-399.96	1.557e+05	-5.460e+04	4.720e+05
72	34	7.658e+05	1.315e+05	-0.07	-0.30	0.0	1447.86	1644.62	-839.31	3.765e+04	1.315e+05	-2.800e+05
		-2.800e+05	-1.434e+05	0.02		327.5	1447.86	5085.99	-839.31	2.945e+04	-1.434e+05	7.658e+05
72	35	3.400e+05	1.375e+05	-0.06	-0.72	0.0	-1205.19	-1.004e+04	795.42	-7.523e+04	-1.230e+05	3.400e+05
		-7.018e+05	-1.230e+05	-0.02		327.5	-1205.19	5218.04	795.42	-6.148e+04	1.375e+05	-3.968e+05
72	36	2.250e+05	3.991e+04	-0.29	-0.88	0.0	-941.35	-4163.59	290.74	-1.654e+05	-5.530e+04	-1.400e+06
		-1.536e+06	-5.530e+04	-0.01		327.5	-941.35	1.266e+04	290.74	-1.581e+05	3.991e+04	2.250e+05
72	37	1.554e+06	5.894e+04	-0.30	-0.34	0.0	463.38	-4353.51	-308.62	1.203e+05	5.894e+04	1.554e+06
		2.093e+05	-4.213e+04	9.25e-03		327.5	463.38	-2392.07	-308.62	1.182e+05	-4.213e+04	2.093e+05
72	38	1.382e+05	3085.23	2.51e-03	-0.43	0.0	23.24	-3982.98	-15.29	-1.768e+04	3085.23	4.504e+04
		-2.575e+05	-1921.62	-1.41e-03		327.5	23.24	4548.84	-15.29	-1.516e+04	-1921.62	1.382e+05
72	39	1.844e+05	3610.89	3.08e-03	-0.46	0.0	126.04	-4255.21	-17.88	-2.023e+04	3610.89	2.970e+04
		-2.835e+05	-2244.37	-1.62e-03		327.5	126.04	5211.09	-17.88	-1.765e+04	-2244.37	1.844e+05
72	40	1.485e+05	3230.97	2.49e-03	-0.43	0.0	26.26	-4038.00	-16.04	-1.818e+04	3230.97	4.493e+04
		-2.602e+05	-2022.42	-1.45e-03		327.5	26.26	4670.79	-16.04	-1.565e+04	-2022.42	1.485e+05
72	41	1.778e+05	3535.79	2.92e-03	-0.45	0.0	111.35	-4216.32	-17.51	-1.987e+04	3535.79	3.189e+04
		-2.798e+05	-2198.26	-1.59e-03		327.5	111.35	5116.49	-17.51	-1.729e+04	-2198.26	1.778e+05
72	42	1.880e+05	3681.53	3.20e-03	-0.46	0.0	114.37	-4271.34	-18.26	-2.036e+04	3681.53	3.178e+04
		-2.825e+05	-2299.06	-1.63e-03		327.5	114.37	5238.44	-18.26	-1.777e+04	-2299.06	1.880e+05
72	43	1.382e+05	3085.23	2.51e-03	-0.43	0.0	23.24	-3982.98	-15.29	-1.768e+04	3085.23	4.504e+04
		-2.575e+05	-1921.62	-1.41e-03		327.5	23.24	4548.84	-15.29	-1.516e+04	-1921.62	1.382e+05
72	44	1.778e+05	3535.79	2.92e-03	-0.45	0.0	111.35	-4216.32	-17.51	-1.987e+04	3535.79	3.189e+04
		-2.798e+05	-2198.26	-1.59e-03		327.5	111.35	5116.49	-17.51	-1.729e+04	-2198.26	1.778e+05
72	45	1.382e+05	3085.23	2.51e-03	-0.43	0.0	23.24	-3982.98	-15.29	-1.768e+04	3085.23	4.504e+04
		-2.575e+05	-1921.62	-1.41e-03		327.5	23.24	4548.84	-15.29	-1.516e+04	-1921.62	1.382e+05
72	46	1.778e+05	3535.79	2.92e-03	-0.45	0.0	111.35	-4216.32	-17.51	-1.987e+04	3535.79	3.189e+04
		-2.798e+05	-2198.26	-1.59e-03		327.5	111.35	5116.49	-17.51	-1.729e+04	-2198.26	1.778e+05
73	1	4.384e+05	2674.31	-7.24e-03	-0.56	0.0	-105.39	-5000.89	-15.09	-6908.88	2674.31	2.397e+05
		-1.240e+05	-2238.00	-4.44e-04		325.5	-105.39	6258.71	-15.09	-4068.77	-2238.00	4.384e+05
73	2	4.940e+05	3011.34	-8.61e-03	-0.59	0.0	-65.40	-5297.19	-17.09	-7329.10	3011.34	2.745e+05
		-1.092e+05	-2551.42	-4.77e-04		325.5	-65.40	6689.31	-17.09	-4476.68	-2551.42	4.940e+05
73	3	5.975e+05	3248.13	-0.01	-0.64	0.0	130.23	-5879.29	-18.43	-8013.27	3248.13	3.376e+05
		-8.549e+04	-2749.71	-5.32e-04		325.5	130.23	7529.12	-18.43	-5126.80	-2749.71	5.975e+05
73	4	6.530e+05	3585.16	-0.01	-0.66	0.0	170.22	-6175.59	-20.42	-8433.49	3585.16	3.724e+05
		-7.073e+04	-3062.79	-5.65e-04		325.5	170.22	7959.72	-20.42	-5534.71	-3062.79	6.530e+05
73	5	2.965e+05	1910.03	-4.76e-03	-0.41	0.0	-141.48	-3621.61	-10.75	-5031.34	1910.03	1.593e+05
		-1.052e+05	-1590.33	-3.19e-04		325.5	-141.48	4488.64	-10.75	-2858.53	-1590.33	2.965e+05
73	6	3.520e+05	2247.05	-6.13e-03	-0.44	0.0	-101.50	-3917.91	-12.75	-5451.56	2247.05	1.941e+05
		-9.049e+04	-1903.41	-3.53e-04		325.5	-101.50	4919.24	-12.75	-3266.44	-1903.41	3.520e+05
73	7	4.555e+05	2483.85	-7.93e-03	-0.49	0.0	94.14	-4500.01	-14.09	-6135.74	2483.85	2.571e+05
		-6.674e+04	-2102.04	-4.07e-04		325.5	94.14	5759.06	-14.09	-3916.56	-2102.04	4.555e+05
73	8	5.111e+05	2820.87	-9.29e-03	-0.51	0.0	134.12	-4796.31	-16.09	-6555.96	2820.87	2.920e+05
		-5.199e+04	-2415.12	-4.40e-04		325.5	134.12	6189.65	-16.09	-4324.47	-2415.12	5.111e+05

73	9	5.495e+05	3348.36	-9.98e-03	-0.61	0.0	-25.42	-5593.49	-19.09	-7749.32	3348.36	3.093e+05
		-9.447e+04	-2864.16	-5.11e-04		325.5	-25.42	7119.90	-19.09	-4884.59	-2864.16	5.495e+05
73	10	5.497e+05	3075.98	-9.46e-03	-0.61	0.0	59.55	-5615.77	-17.43	-7681.95	3075.98	3.082e+05
		-9.703e+04	-2596.20	-5.05e-04		325.5	59.55	7148.00	-17.43	-4809.39	-2596.20	5.497e+05
73	11	6.608e+05	3750.04	-0.01	-0.66	0.0	139.52	-6208.37	-21.42	-8522.40	3750.04	3.778e+05
		-6.752e+04	-3222.35	-5.72e-04		325.5	139.52	8009.19	-21.42	-5625.21	-3222.35	6.608e+05
73	12	4.076e+05	2584.08	-7.49e-03	-0.46	0.0	-61.51	-4214.21	-14.75	-5871.79	2584.08	2.289e+05
		-7.573e+04	-2216.49	-3.86e-04		325.5	-61.51	5349.84	-14.75	-3674.35	-2216.49	4.076e+05
73	13	4.078e+05	2311.70	-6.98e-03	-0.46	0.0	23.45	-4236.49	-13.09	-5804.42	2311.70	2.278e+05
		-7.829e+04	-1948.53	-3.80e-04		325.5	23.45	5377.93	-13.09	-3599.15	-1948.53	4.078e+05
73	14	5.189e+05	2985.75	-9.71e-03	-0.51	0.0	103.42	-4829.09	-17.08	-6644.86	2985.75	2.974e+05
		-4.878e+04	-2574.68	-4.47e-04		325.5	103.42	6239.13	-17.08	-4414.97	-2574.68	5.189e+05
73	15	3.318e+05	2037.54	-5.46e-03	-0.43	0.0	-89.12	-3816.81	-11.49	-5276.76	2037.54	1.811e+05
		-9.669e+04	-1704.05	-3.39e-04		325.5	-89.12	4770.96	-11.49	-3093.65	-1704.05	3.318e+05
73	16	3.688e+05	2262.23	-6.37e-03	-0.45	0.0	-62.47	-4014.34	-12.83	-5556.91	2262.23	2.043e+05
		-8.685e+04	-1912.76	-3.61e-04		325.5	-62.47	5058.02	-12.83	-3365.59	-1912.76	3.688e+05
73	17	4.378e+05	2420.09	-7.57e-03	-0.48	0.0	67.96	-4402.41	-13.72	-6013.03	2420.09	2.463e+05
		-7.102e+04	-2045.18	-3.97e-04		325.5	67.96	5617.90	-13.72	-3799.00	-2045.18	4.378e+05
73	18	4.749e+05	2644.77	-8.48e-03	-0.50	0.0	94.61	-4599.94	-15.05	-6293.17	2644.77	2.695e+05
		-6.118e+04	-2253.90	-4.19e-04		325.5	94.61	5904.97	-15.05	-4070.94	-2253.90	4.749e+05
73	19	4.059e+05	2486.91	-7.29e-03	-0.46	0.0	-35.81	-4211.87	-14.16	-5837.06	2486.91	2.275e+05
		-7.701e+04	-2121.48	-3.83e-04		325.5	-35.81	5345.09	-14.16	-3637.53	-2121.48	4.059e+05
73	20	4.060e+05	2305.33	-6.94e-03	-0.46	0.0	20.83	-4226.73	-13.05	-5792.15	2305.33	2.267e+05
		-7.872e+04	-1942.84	-3.80e-04		325.5	20.83	5363.82	-13.05	-3587.40	-1942.84	4.060e+05
73	21	4.801e+05	2754.69	-8.76e-03	-0.50	0.0	74.15	-4621.79	-15.71	-6352.44	2754.69	2.731e+05
		-5.905e+04	-2360.28	-4.24e-04		325.5	74.15	5937.95	-15.71	-4131.28	-2360.28	4.801e+05
73	22	8.572e+05	-1.453e+04	-0.02	-0.32	0.0	2222.04	-1689.00	-240.20	1.176e+04	-1.453e+04	6.361e+05
		5.339e+05	-9.271e+04	3.69e-03		325.5	2222.04	3160.30	-240.20	4126.72	-9.271e+04	8.572e+05
73	23	-6.082e+04	8.810e+04	0.01	-0.65	0.0	-2197.60	-6684.73	212.33	-2.514e+04	1.899e+04	-1.884e+05
		-6.970e+05	1.899e+04	-4.40e-03		325.5	-2197.60	7420.98	212.33	-1.264e+04	8.810e+04	-6.082e+04
73	24	1.796e+06	5.827e+04	0.24	-0.59	0.0	696.25	9474.89	352.86	-1.691e+05	-5.659e+04	-3.002e+06
		-3.002e+06	-5.659e+04	-0.01		325.5	696.25	1.887e+04	352.86	-1.666e+05	5.827e+04	1.796e+06
73	25	3.314e+06	5.739e+04	-0.25	-0.58	0.0	-757.25	-1.764e+04	-356.40	1.547e+05	5.739e+04	3.314e+06
		-1.100e+06	-5.862e+04	0.01		325.5	-757.25	-8283.15	-356.40	1.562e+05	-5.862e+04	-1.100e+06
73	26	8.289e+05	-1.775e+04	-0.02	-0.32	0.0	2158.17	-1771.67	-240.15	1.054e+04	-1.775e+04	6.102e+05
		5.015e+05	-9.592e+04	3.71e-03		325.5	2158.17	3224.83	-240.15	3196.26	-9.592e+04	8.289e+05
73	27	-3.423e+04	9.135e+04	9.65e-03	-0.64	0.0	-2138.89	-6606.33	212.74	-2.389e+04	2.210e+04	-1.639e+05
		-6.658e+05	2.210e+04	-4.41e-03		325.5	-2138.89	7359.02	212.74	-1.166e+04	9.135e+04	-3.423e+04
73	28	1.461e+06	3.754e+04	-0.18	-0.56	0.0	-133.03	4950.83	226.51	-1.246e+05	-3.619e+04	-1.852e+06
		-1.852e+06	-3.619e+04	-9.96e-03		325.5	-133.03	1.454e+04	226.51	-1.220e+05	3.754e+04	1.461e+06
73	29	2.456e+06	4.084e+04	-0.20	-0.55	0.0	-592.36	-1.387e+04	-253.07	1.133e+05	4.084e+04	2.456e+06
		-6.740e+05	-4.154e+04	9.22e-03		325.5	-592.36	-4440.75	-253.07	1.151e+05	-4.154e+04	-6.740e+05
73	30	8.750e+05	-2.263e+04	0.02	-0.32	0.0	2306.26	-1660.87	-224.76	1.212e+04	-2.263e+04	6.415e+05
		5.431e+05	-9.579e+04	3.74e-03		325.5	2306.26	3210.32	-224.76	4606.50	-9.579e+04	8.750e+05
73	31	-7.180e+04	9.119e+04	0.01	-0.65	0.0	-2261.39	-6692.98	196.52	-2.545e+04	2.722e+04	-1.886e+05
		-7.005e+05	2.722e+04	-4.43e-03		325.5	-2261.39	7361.51	196.52	-1.314e+04	9.119e+04	-7.180e+04
73	32	1.692e+06	5.060e+04	0.24	-0.59	0.0	561.22	8874.90	306.52	-1.668e+05	-4.918e+04	-2.904e+06
		-2.904e+06	-4.918e+04	-0.01		325.5	561.22	1.824e+04	306.52	-1.642e+05	5.060e+04	1.692e+06
73	33	3.185e+06	4.942e+04	-0.25	-0.57	0.0	-702.76	-1.714e+04	-306.62	1.520e+05	4.942e+04	3.185e+06
		-1.072e+06	-5.039e+04	0.01		325.5	-702.76	-7832.77	-306.62	1.535e+05	-5.039e+04	-1.072e+06
73	34	8.750e+05	-2.263e+04	0.02	-0.32	0.0	2306.26	-1660.87	-224.76	1.212e+04	-2.263e+04	6.415e+05
		5.431e+05	-9.579e+04	3.74e-03		325.5	2306.26	3210.32	-224.76	4606.50	-9.579e+04	8.750e+05
73	35	-7.180e+04	9.119e+04	0.01	-0.65	0.0	-2261.39	-6692.98	196.52	-2.545e+04	2.722e+04	-1.886e+05
		-7.005e+05	2.722e+04	-4.43e-03		325.5	-2261.39	7361.51	196.52	-1.314e+04	9.119e+04	-7.180e+04
73	36	1.497e+06	3.660e+04	0.20	-0.57	0.0	-362.66	5401.41	220.94	-1.360e+05	-3.531e+04	-1.981e+06
		-1.981e+06	-3.531e+04	-0.01		325.5	-362.66	1.501e+04	220.94	-1.333e+05	3.660e+04	1.497e+06
73	37	2.520e+06	3.824e+04	-0.21	-0.56	0.0	-622.74	-1.403e+04	-236.85	1.222e+05	3.824e+04	2.520e+06
		-6.790e+05	-3.886e+04	9.94e-03		325.5	-622.74	-4626.78	-236.85	1.239e+05	-3.886e+04	-6.790e+05
73	38	3.318e+05	2037.54	-5.46e-03	-0.43	0.0	-89.12	-3816.81	-11.49	-5276.76	2037.54	1.811e+05
		-9.669e+04	-1704.05	-3.39e-04		325.5	-89.12	4770.96	-11.49	-3093.65	-1704.05	3.318e+05
73	39	4.060e+05	2305.33	-6.94e-03	-0.46	0.0	20.83	-4226.73	-13.05	-5792.15	2305.33	2.267e+05
		-7.872e+04	-1942.84	-3.80e-04		325.5	20.83	5363.82	-13.05	-3587.40	-1942.84	4.060e+05
73	40	3.466e+05	2127.42	-5.83e-03	-0.44	0.0	-78.46	-3895.82	-12.03	-5388.82	2127.42	1.903e+05
		-9.275e+04	-1787.53	-3.48e-04		325.5	-78.46	4885.78	-12.03	-3202.43	-1787.53	3.466e+05
73	41	3.954e+05	2267.07	-6.73e-03	-0.46	0.0	5.13	-4168.17	-12.83	-5718.52	2267.07	2.202e+05
		-8.129e+04	-1908.73	-3.74e-04		325.5	5.13	5279.12	-12.83	-3516.86	-1908.73	3.954e+05
73	42	4.102e+05	2356.95	-7.09e-03	-0.47	0.0	15.79	-4247.18	-13.36	-5830.58	2356.95	2.295e+05
		-7.735e+04	-1992.22	-3.83e-04		325.5	15.79	5393.95	-13.36	-3625.64	-1992.22	4.102e+05
73	43	3.318e+05	2037.54	-5.46e-03	-0.43	0.0	-89.12	-3816.81	-11.49	-5276.76	2037.54	1.811e+05
		-9.669e+04	-1704.05	-3.39e-04		325.5	-89.12	4770.96	-11.49	-3093.65	-1704.05	3.318e+05
73	44	3.954e+05	2267.07	-6.73e-03	-0.46	0.0	5.13	-4168.17	-12.83	-5718.52	2267.07	2.202e+05
		-8.129e+04	-1908.73	-3.74e-04		325.5	5.13	5279.12	-12.83	-3516.86	-1908.73	3.954e+05
73	45	3.318e+05	2037.54	-5.46e-03	-0.43	0.0	-89.12	-3816.81	-11.49	-5276.76	2037.54	1.811e+05
		-9.669e+04	-1704.05	-3.39e-04		325.5	-89.12	4770.96	-11.49	-3093.65	-1704.05	3.318e+05
73	46	3.954e+05	2267.07	-6.73e-03	-0.46	0.0	5.13	-4168.17	-12.83	-5718.52	2267.07	2.202e+05
		-8.129e+04	-1908.73	-3.74e-04		325.5	5.13	5279.12	-12.83	-3516.86	-1908.73	3.954e+05
74	1	4.085e+05	2266.25	0.03	-0.59	0.0	156.35	-8560.24	-10.78	1.930e+04	2266.25	4.085e+05

		-6.381e+05	-2472.01	2.43e-03		439.5	156.35	7130.31	-10.78	2.362e+04	-2472.01	5.149e+04
74	2	4.745e+05	2580.19	-0.03	-0.62	0.0	156.55	-9205.88	-12.41	2.127e+04	2580.19	4.745e+05
		-6.626e+05	-2875.16	2.65e-03		439.5	156.55	7464.76	-12.41	2.565e+04	-2875.16	5.052e+04
74	3	5.559e+05	2580.47	0.03	-0.67	0.0	494.77	-1.047e+04	-11.92	2.483e+04	2580.47	5.559e+05
		-7.591e+05	-2658.64	3.06e-03		439.5	494.77	8143.70	-11.92	2.934e+04	-2658.64	1340.70
74	4	6.219e+05	2894.40	-0.03	-0.69	0.0	494.97	-1.111e+04	-13.55	2.680e+04	2894.40	6.219e+05
		-7.836e+05	-3061.79	3.28e-03		439.5	494.97	8478.15	-13.55	3.137e+04	-3061.79	366.74
74	5	2.764e+05	1662.70	0.02	-0.44	0.0	33.49	-6095.49	-8.00	1.343e+04	1662.70	2.764e+05
		-4.598e+05	-1853.69	1.71e-03		439.5	33.49	5225.01	-8.00	1.670e+04	-1853.69	5.247e+04
74	6	3.424e+05	1976.64	-0.02	-0.46	0.0	33.69	-6741.13	-9.63	1.540e+04	1976.64	3.424e+05
		-4.843e+05	-2256.84	1.93e-03		439.5	33.69	5559.46	-9.63	1.873e+04	-2256.84	5.150e+04
74	7	4.238e+05	1976.92	0.02	-0.51	0.0	371.91	-8003.81	-9.14	1.896e+04	1976.92	4.238e+05
		-5.808e+05	-2040.32	2.34e-03		439.5	371.91	6238.40	-9.14	2.242e+04	-2040.32	2317.32
74	8	4.898e+05	2290.85	-0.02	-0.54	0.0	372.11	-8649.45	-10.77	2.093e+04	2290.85	4.898e+05
		-6.054e+05	-2443.47	2.56e-03		439.5	372.11	6572.85	-10.77	2.445e+04	-2443.47	1343.36
74	9	5.405e+05	2894.13	-0.03	-0.64	0.0	156.75	-9851.52	-14.04	2.324e+04	2894.13	5.405e+05
		-6.871e+05	-3278.31	2.87e-03		439.5	156.75	7799.21	-14.04	2.768e+04	-3278.31	4.955e+04
74	10	5.117e+05	2486.20	0.03	-0.65	0.0	393.24	-9896.07	-11.58	2.317e+04	2486.20	5.117e+05
		-7.228e+05	-2602.65	2.87e-03		439.5	393.24	7839.69	-11.58	2.762e+04	-2602.65	1.639e+04
74	11	6.437e+05	3114.08	-0.03	-0.70	0.0	393.64	-1.119e+04	-14.84	2.711e+04	3114.08	6.437e+05
		-7.718e+05	-3408.95	3.31e-03		439.5	393.64	8508.58	-14.84	3.169e+04	-3408.95	1.444e+04
74	12	4.084e+05	2290.58	-0.02	-0.49	0.0	33.89	-7386.77	-11.26	1.737e+04	2290.58	4.084e+05
		-5.088e+05	-2659.99	2.15e-03		439.5	33.89	5893.91	-11.26	2.076e+04	-2659.99	5.052e+04
74	13	3.796e+05	1882.65	0.02	-0.49	0.0	270.39	-7431.31	-8.80	1.730e+04	1882.65	3.796e+05
		-5.445e+05	-1984.33	2.15e-03		439.5	270.39	5934.39	-8.80	2.070e+04	-1984.33	1.736e+04
74	14	5.116e+05	2510.53	-0.02	-0.54	0.0	270.79	-8722.60	-12.06	2.124e+04	2510.53	5.116e+05
		-5.936e+05	-2790.63	2.59e-03		439.5	270.79	6603.28	-12.06	2.477e+04	-2790.63	1.542e+04
74	15	3.092e+05	1732.53	0.02	-0.45	0.0	108.70	-6519.56	-8.25	1.466e+04	1732.53	3.092e+05
		-4.867e+05	-1895.17	1.85e-03		439.5	108.70	5450.21	-8.25	1.797e+04	-1895.17	4.133e+04
74	16	3.532e+05	1941.82	-0.02	-0.47	0.0	108.83	-6949.99	-9.34	1.597e+04	1941.82	3.532e+05
		-5.030e+05	-2163.93	1.99e-03		439.5	108.83	5673.18	-9.34	1.933e+04	-2163.93	4.068e+04
74	17	4.074e+05	1942.00	0.02	-0.50	0.0	334.31	-7791.77	-9.01	1.834e+04	1942.00	4.074e+05
		-5.674e+05	-2019.59	2.27e-03		439.5	334.31	6125.80	-9.01	2.179e+04	-2019.59	7889.91
74	18	4.514e+05	2151.30	-0.02	-0.52	0.0	334.45	-8222.20	-10.10	1.966e+04	2151.30	4.514e+05
		-5.837e+05	-2288.35	2.41e-03		439.5	334.45	6348.77	-10.10	2.314e+04	-2288.35	7240.60
74	19	3.972e+05	2151.11	-0.02	-0.49	0.0	108.97	-7380.41	-10.43	1.729e+04	2151.11	3.972e+05
		-5.194e+05	-2432.70	2.14e-03		439.5	108.97	5896.14	-10.43	2.068e+04	-2432.70	4.003e+04
74	20	3.780e+05	1879.16	0.02	-0.49	0.0	266.63	-7410.11	-8.79	1.724e+04	1879.16	3.780e+05
		-5.432e+05	-1982.26	2.14e-03		439.5	266.63	5923.13	-8.79	2.064e+04	-1982.26	1.792e+04
74	21	4.660e+05	2297.74	-0.02	-0.52	0.0	266.90	-8270.97	-10.96	1.986e+04	2297.74	4.660e+05
		-5.759e+05	-2519.79	2.44e-03		439.5	266.90	6369.06	-10.96	2.335e+04	-2519.79	1.662e+04
74	22	1.051e+06	8.330e+04	-0.04	-0.32	0.0	1730.94	-6526.48	459.67	-1.309e+04	-1.187e+05	1.051e+06
		-4.329e+05	-1.187e+05	-0.02		439.5	1730.94	-534.29	459.67	-2.372e+04	8.330e+04	-4.329e+05
74	23	4.693e+05	1.224e+05	0.09	-0.73	0.0	-1234.33	-8101.73	-477.45	4.297e+04	1.224e+05	-3.035e+05
		-1.053e+06	-8.748e+04	0.02		439.5	-1234.33	1.222e+04	-477.45	6.087e+04	-8.748e+04	4.693e+05
74	24	2.635e+06	8.091e+04	0.33	-0.34	0.0	16.51	6272.77	319.09	-1.248e+05	-5.933e+04	-1.043e+06
		-1.043e+06	-5.933e+04	-0.01		439.5	16.51	8366.46	319.09	-1.284e+05	8.091e+04	2.635e+06
74	25	1.726e+06	6.023e+04	-0.39	-0.98	0.0	-73.29	-2.064e+04	-323.45	1.713e+05	6.023e+04	1.726e+06
		-2.667e+06	-8.193e+04	0.02		439.5	-73.29	3474.32	-323.45	1.815e+05	-8.193e+04	-2.585e+06
74	26	1.009e+06	9.061e+04	-0.04	-0.32	0.0	1686.21	-6487.90	495.72	-7921.85	-1.273e+05	1.009e+06
		-4.075e+05	-1.273e+05	-0.02		439.5	1686.21	-241.85	495.72	-1.803e+04	9.061e+04	-4.075e+05
74	27	4.455e+05	1.308e+05	0.09	-0.72	0.0	-1193.12	-8137.34	-512.87	3.810e+04	1.308e+05	-2.642e+05
		-1.029e+06	-9.465e+04	0.02		439.5	-1193.12	1.194e+04	-512.87	5.552e+04	-9.465e+04	4.455e+05
74	28	1.803e+06	5.283e+04	0.23	-0.37	0.0	501.48	3012.02	207.82	-9.153e+04	-3.850e+04	-9.442e+05
		-9.442e+05	-3.850e+04	-9.70e-03		439.5	501.48	8004.19	207.82	-9.312e+04	5.283e+04	1.803e+06
74	29	1.690e+06	4.294e+04	-0.27	-0.84	0.0	-747.84	-1.737e+04	-229.89	1.255e+05	4.294e+04	1.690e+06
		-1.777e+06	-5.809e+04	0.01		439.5	-747.84	3887.00	-229.89	1.338e+05	-5.809e+04	-1.655e+06
74	30	1.061e+06	9.696e+04	0.04	-0.32	0.0	1774.65	-6551.70	524.95	-1.370e+04	-1.338e+05	1.061e+06
		-4.292e+05	-1.338e+05	-0.02		439.5	1774.65	-544.11	524.95	-2.417e+04	9.696e+04	-4.292e+05
74	31	4.598e+05	1.376e+05	-0.09	-0.73	0.0	-1264.41	-8085.16	-543.71	4.221e+04	1.376e+05	-3.039e+05
		-1.054e+06	-1.014e+05	0.02		439.5	-1264.41	1.216e+04	-543.71	5.982e+04	-1.014e+05	4.598e+05
74	32	2.577e+06	7.015e+04	-0.32	-0.34	0.0	52.98	6163.11	276.50	-1.205e+05	-5.137e+04	-1.080e+06
		-1.080e+06	-5.137e+04	-0.01		439.5	52.98	8448.19	276.50	-1.239e+05	7.015e+04	2.577e+06
74	33	1.688e+06	5.152e+04	0.38	-0.97	0.0	-206.80	-2.032e+04	-277.07	1.707e+05	5.152e+04	1.688e+06
		-2.608e+06	-7.025e+04	0.02		439.5	-206.80	3618.44	-277.07	1.808e+05	-7.025e+04	-2.517e+06
74	34	1.061e+06	9.696e+04	0.04	-0.32	0.0	1774.65	-6551.70	524.95	-1.370e+04	-1.338e+05	1.061e+06
		-4.292e+05	-1.338e+05	-0.02		439.5	1774.65	-544.11	524.95	-2.417e+04	9.696e+04	-4.292e+05
74	35	4.598e+05	1.376e+05	-0.09	-0.73	0.0	-1264.41	-8085.16	-543.71	4.221e+04	1.376e+05	-3.039e+05
		-1.054e+06	-1.014e+05	0.02		439.5	-1264.41	1.216e+04	-543.71	5.982e+04	-1.014e+05	4.598e+05
74	36	1.853e+06	5.141e+04	-0.26	-0.36	0.0	410.21	3494.38	202.07	-1.018e+05	-3.740e+04	-9.705e+05
		-9.705e+05	-3.740e+04	-0.01		439.5	410.21	7702.08	202.07	-1.039e+05	5.141e+04	1.853e+06
74	37	1.712e+06	4.005e+04	0.29	-0.86	0.0	-949.48	-1.763e+04	-214.63	1.340e+05	4.005e+04	1.712e+06
		-1.771e+06	-5.428e+04	0.01		439.5	-949.48	4284.25	-214.63	1.427e+05	-5.428e+04	-1.629e+06
74	38	3.092e+05	1732.53	0.02	-0.45	0.0	108.70	-6519.56	-8.25	1.466e+04	1732.53	3.092e+05
		-4.867e+05	-1895.17	1.85e-03		439.5	108.70	5450.21	-8.25	1.797e+04	-1895.17	4.133e+04
74	39	3.780e+05	1879.16	0.02	-0.49	0.0	266.63	-7410.11	-8.79	1.724e+04	1879.16	3.780e+05
		-5.432e+05	-1982.26	2.14e-03		439.5	266.63	5923.13	-8.79	2.064e+04	-1982.26	1.792e+04

		M3	M2	D2/D3	Pt		N	V2	V3	T		
74	40	3.268e+05	1816.24	0.02	-0.46	0.0	108.75	-6691.73	-8.69	1.519e+04	1816.24	3.268e+05
		-4.932e+05	-2002.67	1.90e-03		439.5	108.75	5539.40	-8.69	1.851e+04	-2002.67	4.107e+04
74	41	3.681e+05	1858.21	0.02	-0.48	0.0	244.07	-7282.89	-8.71	1.687e+04	1858.21	3.681e+05
		-5.351e+05	-1969.82	2.10e-03		439.5	244.07	5855.57	-8.71	2.026e+04	-1969.82	2.126e+04
74	42	3.857e+05	1941.93	0.02	-0.49	0.0	244.12	-7455.06	-9.15	1.740e+04	1941.93	3.857e+05
		-5.417e+05	-2077.32	2.16e-03		439.5	244.12	5944.75	-9.15	2.080e+04	-2077.32	2.100e+04
74	43	3.092e+05	1732.53	0.02	-0.45	0.0	108.70	-6519.56	-8.25	1.466e+04	1732.53	3.092e+05
		-4.867e+05	-1895.17	1.85e-03		439.5	108.70	5450.21	-8.25	1.797e+04	-1895.17	4.133e+04
74	44	3.681e+05	1858.21	0.02	-0.48	0.0	244.07	-7282.89	-8.71	1.687e+04	1858.21	3.681e+05
		-5.351e+05	-1969.82	2.10e-03		439.5	244.07	5855.57	-8.71	2.026e+04	-1969.82	2.126e+04
74	45	3.092e+05	1732.53	0.02	-0.45	0.0	108.70	-6519.56	-8.25	1.466e+04	1732.53	3.092e+05
		-4.867e+05	-1895.17	1.85e-03		439.5	108.70	5450.21	-8.25	1.797e+04	-1895.17	4.133e+04
74	46	3.681e+05	1858.21	0.02	-0.48	0.0	244.07	-7282.89	-8.71	1.687e+04	1858.21	3.681e+05
		-5.351e+05	-1969.82	2.10e-03		439.5	244.07	5855.57	-8.71	2.026e+04	-1969.82	2.126e+04

Trave f.	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	N	V 2	V 3	T
	-3.005e+06	-2.340e+05	-0.40	-1.05	-2285.13	-2.258e+04	-1420.77	-2.269e+05
	3.675e+06	2.336e+05	0.39	0.15	2323.33	2.248e+04	1422.84	2.272e+05

VERIFICHE ELEMENTI ESISTENTI
LEGENDA TABELLA VERIFICHE ELEMENTI ESISTENTI

Le verifiche degli elementi esistenti sono state condotte con riferimento al Capitolo 8 del D.M. 14 gennaio 2008. Il metodo adottato è quello previsto nella circolare 617 del 2 febbraio 2009 al punto C8.7.2.4 analisi lineare con spettro elastico.

Le modalità di analisi e le verifiche, che consistono nel confronto tra domanda e capacità, sono riassunte nella tabella C8.4 del succitato documento. Il programma consente di effettuare analisi lineare statica e dinamica e analisi non lineare statica. Qualora l'analisi effettuata sia lineare le verifiche sono precedute da un controllo di accettazione del modello lineare, atto a valutare la dispersione dei rapporti domanda/capacità.

Per gli elementi in c.a. sono previste le seguenti verifiche:

- flessione con e senza sforzo normale
- taglio
- nodi trave-pilastro

Con riferimento ai punti succitati le verifiche vengono così tabellate:

Tabella relativa alle verifiche di accettazione del modello lineare

Pilas. / Trave	numero dell'elemento considerato
ro I (J) acc.	massimo rapporto domanda/capacità in termini di momento flettente di cui al p.to C8.7.2.4 per la verifica di accettazione
ver. f. acc.	massimo rapporto domanda/capacità in termini di taglio di cui al p.to C8.7.2.4per la verifica di accettazione
Rif. cmb	combinazioni per le quali si sono attinti i valori riportati

Tabella relativa alle verifiche degli elementi duttili e fragili

Pilas. / Trave	numero dell'elemento considerato
SL cod	Stato limite considerato e relativo esito delle verifica (**NV** non verifica, **ok** verifica)
ver. (d)	massimo rapporto domanda capacità in termini di deformazione per gli elementi duttili; nello specifico: **rot. c / ThetaU** per SLC **rot. c / 0.75 ThetaU** per SLV **rot. c / ThetaY** per SLD
ver. (f)	massimo rapporto domanda capacità in termini di verifica a taglio
rot. c	valore di rotazione rispetto alla corda (rappresenta la domanda in termini di deformazione) per cui si attinge il massimo valore della verifica **ver. (d)**
Theta Y	capacità di rotazione rispetto alla corda allo snervamento, calcolata con la formula [8.7.2.1°]
Theta U	capacità di rotazione rispetto alla corda in condizioni di collasso
curv. Y	curvatura della sezione allo snervamento dell'acciaio
curv. U	curvatura ultima della sezione valutata considerando le deformazioni ultime di conglomerato (tenuto conto del confinamento) e acciaio
Lv	luce di taglio; rapporto momento/taglio utilizzato nelle succitate formule per il calcolo di **Theta Y (U)**
V2(V3)	valore del taglio 2 (3) per cui si attinge il massimo valore della verifica **ver. (f)**
ro V I (V J)	indicatori del rapporto domanda/capacità per gli elementi duttili; se inferiori a 1 le sollecitazioni degli elementi fragili sono assunte dall'analisi, in caso contrario sono assunte per equilibrio considerando le capacità degli elementi duttili
Rif. cmb	Combinazioni in cui si attingono i massimi valori dei rapporti domanda/capacità; per i pilastri, il numero tra parentesi indica l'asse(locale) di riferimento per le rotazioni riportate

Tabella relativa alle verifiche dei nodi trave pilastro

Pilas. S	numero del pilastro considerato (superiore al nodo)
Pilas. I	numero del relativo pilastro inferiore
Nodo	numero del nodo tra i pilastri
SL cod	Stato limite considerato e relativo esito delle verifica (**NV** non verifica, **ok** verifica, **nrC** non richiesta in quanto confinato)
ver. (+)	massimo rapporto domanda capacità con riferimento alla formula 8.7.2.2 (resistenza per trazione)
ver. (-)	massimo rapporto domanda capacità con riferimento alla formula 8.7.2.3 (resistenza per compressione)
V +	valore del taglio, nel pilastro superiore, in direzione 2 o 3 per cui si attinge il massimo valore della verifica **ver. (+)**
V + af s	sollecitazione di trazione presente nell'armatura longitudinale superiore della trave da sommare (con segno) a **V +**
N +	azione assiale presente nel pilastro superiore contemporanea a **V +**
V -	valore del taglio, nel pilastro superiore, in direzione 2 o 3 per cui si attinge il massimo valore della verifica **ver. (-)**
V - af s	sollecitazione di trazione presente nell'armatura longitudinale superiore della trave da sommare (con segno) a **V -**
N -	azione assiale presente nel pilastro superiore contemporanea a **V -**
Area g	area del nodo (**da Pilas. I**)
Rif. cmb	combinazioni in cui si attingono i massimi valori dei rapporti domanda/capacità; per i nodi, il numero tra parentesi indica l'asse(locale) di riferimento per le sollecitazioni di taglio

Pilas.	SL cod	ver. (d)	ver. (f)	rot. c	Theta Y	Theta U	curv. Y	curv. U	Lv	V2	V3	ro V I	ro V J	Rif. cmb
							/cm	/cm	cm	daN	daN			

```
28 SLV:NV 0.49  0.60  5.284e-03 9.065e-03 1.070e-02 7.547e-05 2.972e-04  241.2  -939.5 -5827.0  0.0   0.0 24(3),23
          0.07        6.010e-04 6.668e-03 8.329e-03 7.517e-05 3.086e-04  133.8                            24(3)
   SLD:ok 0.39       -4.787e-03 1.224e-02           1.197e-04            216.0                            27(2)
          0.14       -1.388e-03 1.000e-02           1.188e-04            159.0                            27(2)
29 SLV:NV 0.06  0.49 -1.097e-03 9.393e-03 1.690e-02 1.213e-04 7.122e-04  138.3   -69.2  4724.0  0.0   0.0 31(2),30
          0.14       -2.903e-03 1.496e-02 2.005e-02 9.424e-05 4.615e-04  377.0                            25(3)
   SLD:ok 0.12       -1.097e-03 9.393e-03           1.213e-04            138.3                            35(2)
          0.28        3.789e-03 1.367e-02           1.256e-04            238.2                            34(2)
30 SLV:NV 0.51  0.65  6.065e-03 8.101e-03 1.187e-02 7.466e-05 3.790e-04  202.61.116e+04    91.4  0.0   0.0 24(3),25
          0.10        1.193e-03 7.464e-03 1.213e-02 7.504e-05 4.262e-04  172.4                            24(3)
   SLD:ok 0.32       -4.755e-03 1.490e-02           1.241e-04            272.2                            27(2)
          0.12       -9.059e-04 7.392e-03           7.543e-05            167.8                            29(3)
31 SLV:NV 0.08  0.50 -2.308e-03 1.908e-02 2.724e-02 1.234e-04 6.513e-04  377.0 -6707.5    81.2  0.0   0.0 22(2),32
          0.19       -3.622e-03 1.259e-02 1.945e-02 9.730e-05 5.400e-04  288.5                            25(3)
   SLD:ok 0.12       -1.104e-03 9.029e-03           9.742e-05            172.7                            37(3)
          0.15       -1.527e-03 9.959e-03           9.714e-05            204.3                            37(3)
32 SLV:NV 0.55  0.66 -6.230e-03 8.224e-03 1.128e-02 7.570e-05 3.538e-04  204.11.133e+04  -259.0  0.0   0.0 25(3),25
          0.10       -1.192e-03 7.511e-03 1.166e-02 7.613e-05 4.080e-04  170.9                            25(3)
   SLD:ok 0.32       -4.801e-03 1.502e-02           1.248e-04            273.4                            27(2)
          0.12        8.926e-04 7.305e-03           7.561e-05            163.2                            28(3)
33 SLV:NV 0.10  0.50 -2.374e-03 1.896e-02 2.340e-02 1.226e-04 5.378e-04  377.0 -6730.3    81.3  0.0   0.0 22(2),32
          0.21        4.077e-03 1.270e-02 1.933e-02 9.758e-05 5.329e-04  290.7                            24(3)
   SLD:ok 0.12        1.102e-03 8.879e-03           9.758e-05            167.3                            36(3)
          0.17        1.707e-03 1.015e-02           9.742e-05            209.7                            36(3)
34 SLV:NV 0.50  0.61 -5.505e-03 9.052e-03 1.092e-02 7.529e-05 3.049e-04  241.4  1710.2 -5985.7  0.0   0.0 25(3),23
          0.09       -1.582e-03 1.018e-02 1.773e-02 1.179e-04 6.837e-04  165.5                            23(2)
   SLD:ok 0.41       -4.935e-03 1.217e-02           1.196e-04            214.4                            27(2)
          0.15       -1.454e-03 9.998e-03           1.180e-04            160.6                            27(2)
35 SLV:NV 0.08  0.49 -1.119e-03 9.369e-03 1.466e-02 1.206e-04 6.028e-04  138.9   380.0  4778.2  0.0   0.0 31(2),30
          0.16       -3.419e-03 1.324e-02 2.196e-02 1.211e-04 7.020e-04  238.1                            31(2)
   SLD:ok 0.12       -1.119e-03 9.369e-03           1.206e-04            138.9                            35(2)
          0.29        3.960e-03 1.364e-02           1.255e-04            237.6                            34(2)
36 SLV:NV 0.49  0.71  5.757e-03 9.277e-03 1.181e-02 7.765e-05 3.353e-04  241.2  -411.3  6921.4  0.0   0.0 24(3),22
          0.26        5.058e-03 1.164e-02 1.977e-02 1.266e-04 7.189e-04  186.1                            22(2)
   SLD:ok 0.45        5.319e-03 1.193e-02           1.289e-04            188.6                            26(2)
          0.38       -4.287e-03 1.125e-02           1.217e-04            186.3                            27(2)
37 SLV:NV 0.20  0.63 -3.909e-03 1.151e-02 1.956e-02 1.242e-04 7.078e-04  187.9  -681.7  6157.0  0.0   0.0 31(2),30
          0.26       -5.144e-03 1.165e-02 1.982e-02 1.234e-04 7.086e-04  192.7                            23(2)
   SLD:ok 0.34       -3.909e-03 1.151e-02           1.242e-04            187.9                            35(2)
          0.44       -5.056e-03 1.151e-02           1.235e-04            189.1                            35(2)
38 SLV:NV 0.57  0.68  6.474e-03 8.364e-03 1.130e-02 7.677e-05 3.517e-04  206.2-1.164e+04  156.1  0.0   0.0 24(3),24
          0.11       -1.193e-03 7.528e-03 1.109e-02 7.703e-05 3.864e-04  168.7                            25(3)
   SLD:ok 0.34        5.100e-03 1.490e-02           1.306e-04            255.7                            26(2)
          0.12       -8.875e-04 7.370e-03           7.688e-05            162.0                            29(3)
39 SLV:NV 0.07  0.50  8.775e-04 8.007e-03 1.221e-02 9.823e-05 4.887e-04  136.0 -6745.7   -78.2  0.0   0.0 32(3),32
          0.20        3.866e-03 1.296e-02 1.943e-02 9.843e-05 5.288e-04  295.9                            24(3)
   SLD:ok 0.12       -1.031e-03 8.919e-03           9.851e-05            166.4                            37(3)
          0.16        1.647e-03 1.037e-02           9.838e-05            214.0                            36(3)
40 SLV:NV 0.62  0.69 -6.555e-03 8.513e-03 1.065e-02 7.795e-05 3.237e-04  208.21.185e+04   187.2  0.0   0.0 25(3),25
          0.12       -1.191e-03 7.569e-03 1.002e-02 7.817e-05 3.426e-04  166.8                            25(3)
   SLD:ok 0.34        5.149e-03 1.526e-02           1.325e-04            259.8                            26(2)
          0.12        8.862e-04 7.291e-03           7.720e-05            157.4                            28(3)
41 SLV:NV 0.10  0.51 -1.954e-03 1.865e-02 1.871e-02 1.204e-04 4.003e-04  377.0 -6789.5   -33.1  0.0   0.0 22(2),32
          0.22        4.271e-03 1.309e-02 1.947e-02 9.898e-05 5.270e-04  298.1                            24(3)
   SLD:ok 0.12        1.035e-03 8.739e-03           9.894e-05            159.4                            36(3)
          0.18        1.892e-03 1.053e-02           9.898e-05            217.6                            36(3)
42 SLV:NV 0.51  0.73 -5.904e-03 9.297e-03 1.166e-02 7.772e-05 3.295e-04  241.8   623.5  7143.7  0.0   0.0 25(3),22
          0.33        5.670e-03 1.166e-02 1.737e-02 1.269e-04 6.166e-04  186.3                            22(2)
   SLD:ok 0.45        5.465e-03 1.209e-02           1.311e-04            188.6                            26(2)
          0.41       -4.637e-03 1.127e-02           1.218e-04            186.4                            27(2)
43 SLV:NV 0.26  0.64 -4.445e-03 1.152e-02 1.687e-02 1.236e-04 5.915e-04  189.3  1258.3  6263.4  0.0   0.0 31(2),30
          0.31       -5.237e-03 1.150e-02 1.670e-02 1.228e-04 5.831e-04  190.3                            23(2)
   SLD:ok 0.39       -4.445e-03 1.152e-02           1.236e-04            189.3                            35(2)
          0.45       -5.166e-03 1.140e-02           1.228e-04            187.7                            35(2)
44 SLV:NV 0.48  0.71  5.770e-03 9.293e-03 1.191e-02 7.781e-05 3.388e-04  241.2  -419.4 -6935.0  0.0   0.0 24(3),23
          0.26       -5.025e-03 1.165e-02 1.969e-02 1.267e-04 7.153e-04  186.2                            23(2)
   SLD:ok 0.45       -5.320e-03 1.193e-02           1.290e-04            188.6                            27(2)
          0.38        4.264e-03 1.126e-02           1.217e-04            186.3                            26(2)
45 SLV:NV 0.20  0.63  3.891e-03 1.151e-02 1.949e-02 1.242e-04 7.051e-04  187.8  -690.5 -6160.7  0.0   0.0 30(2),31
          0.26        5.150e-03 1.165e-02 1.977e-02 1.234e-04 7.060e-04  192.8                            22(2)
   SLD:ok 0.34        3.891e-03 1.151e-02           1.242e-04            187.8                            34(2)
          0.44        5.064e-03 1.152e-02           1.235e-04            189.2                            34(2)
46 SLV:NV 0.57  0.68  6.486e-03 8.374e-03 1.130e-02 7.686e-05 3.515e-04  206.3-1.165e+04 -145.5  0.0   0.0 24(3),24
          0.11       -1.193e-03 7.528e-03 1.098e-02 7.706e-05 3.819e-04  168.6                            25(3)
   SLD:ok 0.34       -5.097e-03 1.493e-02           1.308e-04            255.9                            27(2)
          0.12       -8.856e-04 7.369e-03           7.693e-05            161.8                            29(3)
47 SLV:NV 0.07  0.50  8.756e-04 8.003e-03 1.216e-02 9.824e-05 4.864e-04  135.8 -6747.0    81.7  0.0   0.0 32(3),32
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		ver. (d)	ver. (f)							V	V	N		Rif. cmb
		0.20		3.868e-03	1.296e-02	1.937e-02	9.844e-05	5.267e-04	296.1					24(3)
	SLD:ok	0.12		-1.029e-03	8.916e-03		9.853e-05		166.2					37(3)
		0.16		1.649e-03	1.037e-02		9.840e-05		214.2					36(3)
48	SLV:NV	0.62	0.69	-6.566e-03	8.524e-03	1.065e-02	7.804e-05	3.234e-04	208.3	1.187e+04	-179.5	0.0	0.0	25(3),25
		0.12		-1.190e-03	7.572e-03	9.995e-03	7.825e-05	3.419e-04	166.7					25(3)
	SLD:ok	0.34		-5.145e-03	1.529e-02		1.327e-04		259.9					27(2)
		0.12		8.845e-04	7.292e-03		7.725e-05		157.2					28(3)
49	SLV:NV	0.11	0.51	1.964e-03	1.865e-02	1.868e-02	1.204e-04	3.993e-04	377.0	-6791.7	33.1	0.0	0.0	23(2),32
		0.22		4.272e-03	1.310e-02	1.946e-02	9.902e-05	5.262e-04	298.3					24(3)
	SLD:ok	0.12		1.034e-03	8.737e-03		9.897e-05		159.2					36(3)
		0.18		1.896e-03	1.054e-02		9.902e-05		217.8					36(3)
50	SLV:NV	0.50	0.74	-5.916e-03	9.313e-03	1.175e-02	7.788e-05	3.325e-04	241.8	639.4	-7158.5	0.0	0.0	25(3),23
		0.33		-5.631e-03	1.167e-02	1.723e-02	1.269e-04	6.107e-04	186.3					23(2)
	SLD:ok	0.45		-5.465e-03	1.211e-02		1.312e-04		188.6					27(2)
		0.41		4.640e-03	1.127e-02		1.218e-04		186.4					26(2)
51	SLV:NV	0.26	0.64	4.407e-03	1.152e-02	1.674e-02	1.236e-04	5.863e-04	189.2	1276.0	-6269.4	0.0	0.0	30(2),31
		0.32		5.177e-03	1.140e-02	1.637e-02	1.228e-04	5.739e-04	187.8					30(2)
	SLD:ok	0.38		4.407e-03	1.152e-02		1.236e-04		189.2					34(2)
		0.45		5.177e-03	1.140e-02		1.228e-04		187.8					34(2)
52	SLV:NV	0.50	0.60	5.337e-03	9.064e-03	1.062e-02	7.554e-05	2.945e-04	240.9	-933.5	5829.8	0.0	0.0	24(3),22
		0.07		6.044e-04	6.677e-03	8.267e-03	7.521e-05	3.053e-04	134.1					24(3)
	SLD:ok	0.39		4.799e-03	1.225e-02		1.198e-04		216.0					26(2)
		0.14		1.389e-03	1.001e-02		1.189e-04		159.0					26(2)
53	SLV:NV	0.06	0.49	1.097e-03	9.392e-03	1.688e-02	1.213e-04	7.115e-04	138.2	-74.8	-4724.7	0.0	0.0	30(2),31
		0.15		-2.927e-03	1.495e-02	1.980e-02	9.416e-05	4.545e-04	377.0					25(3)
	SLD:ok	0.12		1.097e-03	9.392e-03		1.213e-04		138.2					34(2)
		0.28		-3.786e-03	1.367e-02		1.256e-04		238.2					35(2)
54	SLV:NV	0.52	0.65	6.118e-03	8.096e-03	1.179e-02	7.464e-05	3.760e-04	202.4	1.117e+04	-102.3	0.0	0.0	24(3),25
		0.10		1.196e-03	7.466e-03	1.209e-02	7.503e-05	4.246e-04	172.6					24(3)
	SLD:ok	0.32		4.765e-03	1.490e-02		1.241e-04		272.2					26(2)
		0.12		-9.080e-04	7.388e-03		7.542e-05		167.7					29(3)
55	SLV:NV	0.08	0.50	2.310e-03	1.908e-02	2.729e-02	1.234e-04	6.527e-04	377.0	-6700.4	-81.1	0.0	0.0	23(2),32
		0.19		-3.662e-03	1.261e-02	1.942e-02	9.730e-05	5.383e-04	289.0					25(3)
	SLD:ok	0.12		-1.106e-03	9.024e-03		9.742e-05		172.6					37(3)
		0.15		-1.536e-03	9.964e-03		9.713e-05		204.4					37(3)
56	SLV:NV	0.56	0.66	-6.281e-03	8.219e-03	1.121e-02	7.567e-05	3.511e-04	204.0	1.134e+04	270.5	0.0	0.0	25(3),25
		0.10		-1.195e-03	7.514e-03	1.162e-02	7.613e-05	4.063e-04	171.0					25(3)
	SLD:ok	0.32		4.810e-03	1.503e-02		1.248e-04		273.4					26(2)
		0.12		8.948e-04	7.197e-03		7.414e-05		163.0					28(3)
57	SLV:NV	0.10	0.50	2.375e-03	1.896e-02	2.339e-02	1.226e-04	5.375e-04	377.0	-6723.2	-83.0	0.0	0.0	23(2),32
		0.21		4.119e-03	1.271e-02	1.931e-02	9.758e-05	5.315e-04	291.2					24(3)
	SLD:ok	0.12		1.100e-03	8.868e-03		9.758e-05		166.9					36(3)
		0.17		1.717e-03	1.016e-02		9.742e-05		210.1					36(3)
58	SLV:NV	0.51	0.62	-5.557e-03	9.050e-03	1.083e-02	7.533e-05	3.020e-04	241.1	1706.1	5989.0	0.0	0.0	25(3),22
		0.09		1.582e-03	1.018e-02	1.771e-02	1.180e-04	6.828e-04	165.5					22(2)
	SLD:ok	0.41		4.948e-03	1.217e-02		1.196e-04		214.5					26(2)
		0.15		1.455e-03	1.000e-02		1.180e-04		160.5					26(2)
59	SLV:NV	0.08	0.49	1.118e-03	9.367e-03	1.462e-02	1.206e-04	6.008e-04	138.8	387.0	-4779.0	0.0	0.0	30(2),31
		0.16		3.018e-03	1.495e-02	1.898e-02	9.418e-05	4.303e-04	377.0					24(3)
	SLD:ok	0.12		1.118e-03	9.367e-03		1.206e-04		138.8					34(2)
		0.29		-3.957e-03	1.364e-02		1.255e-04		237.6					35(2)

Pilas. ver. (d) ver. (f)
0.62 0.74

Pilas.I	Pilas.S	NodoSL	codver.	(+)	V + daN	V + af s daN	N + daN	ver. (-)	V - daN	V - af s daN	N - daN	Area G cm2	Rif. cmb
28	29	45	SLV:NV	1.56	2915.72	-2.882e+04	-306.12	0.30	-3177.79	2.883e+04	1.022e+04	1500.0	25(2),24(2)
29		46	SLV:NV	2.15	0.0	2.878e+04	0.0	0.35	0.0	2.878e+04	0.0	1200.0	24(2),24(2)
30	31	48	SLV:NV	2.93	-5478.02	5.764e+04	6426.21	0.54	5472.55	-5.764e+04	7025.91	1500.0	24(2),25(2)
31		1	SLV:NV	2.82	0.0	-3.776e+04	0.0	0.45	0.0	-3.776e+04	0.0	1200.0	25(2),25(2)
32	33	3	SLV:NV	2.88	-5499.63	5.764e+04	8096.75	0.55	5493.06	-5.763e+04	9591.41	1500.0	24(2),25(2)
33		4	SLV:NV	2.86	0.0	3.825e+04	0.0	0.46	0.0	3.825e+04	0.0	1200.0	24(2),24(2)
34	35	6	SLV:NV	1.50	-2968.82	2.881e+04	1452.13	0.30	3123.39	-2.882e+04	9931.00	1500.0	24(2),25(2)
35		7	SLV:NV	2.15	0.0	-2.878e+04	0.0	0.35	0.0	-2.878e+04	0.0	1200.0	25(2),25(2)
36	37	9	SLV:NV	2.90	-6011.40	5.806e+04	7354.62	0.55	6046.29	-5.806e+04	8797.74	1500.0	23(3),22(3)
37		10	SLV:NV	2.28	0.0	3.056e+04	0.0	0.37	0.0	3.056e+04	0.0	1200.0	31(3),31(3)
38	39	12	SLV:NV	2.80	-5496.60	5.765e+04	1.113e+04	0.56	5503.12	-5.765e+04	1.168e+04	1500.0	24(2),25(2)
39		13	SLV:NV	2.91	0.0	3.890e+04	0.0	0.47	0.0	3.890e+04	0.0	1200.0	24(2),24(2)
40	41	15	SLV:NV	2.75	-5539.51	5.765e+04	1.290e+04	0.58	5526.77	-5.763e+04	1.473e+04	1500.0	24(2),25(2)
41		16	SLV:NV	2.95	0.0	3.950e+04	0.0	0.48	0.0	3.950e+04	0.0	1200.0	24(2),24(2)
42	43	18	SLV:NV	2.84	-6173.19	5.805e+04	9002.56	0.55	6201.87	-5.805e+04	1.025e+04	1500.0	23(3),22(3)
43		19	SLV:NV	2.18	0.0	2.918e+04	0.0	0.35	0.0	2.918e+04	0.0	1200.0	31(3),31(3)
44	45	21	SLV:NV	2.90	6012.26	-5.806e+04	7427.92	0.55	-6048.91	5.806e+04	8915.15	1500.0	22(3),23(3)
45		22	SLV:NV	2.28	0.0	-3.059e+04	0.0	0.37	0.0	-3.059e+04	0.0	1200.0	30(3),30(3)
46	47	24	SLV:NV	2.80	-5497.56	5.765e+04	1.127e+04	0.56	5504.21	-5.765e+04	1.186e+04	1500.0	24(2),25(2)

			ver										
47		25 SLV:NV	2.91	0.0	3.894e+04	0.0	0.47	0.0	3.894e+04	0.0	1200.0	24(2),24(2)
48	49	27 SLV:NV	2.75	-5541.39	5.765e+04	1.306e+04	0.58	5528.49	-5.763e+04	1.488e+04	1500.0	24(2),25(2)
49		28 SLV:NV	2.95	0.0	3.954e+04	0.0	0.48	0.0	3.954e+04	0.0	1200.0	24(2),24(2)
50	51	30 SLV:NV	2.84	6174.78	-5.805e+04	9095.67	0.55	-6204.54	5.805e+04	1.039e+04	1500.0	22(3),23(3)
51		31 SLV:NV	2.18	0.0	-2.922e+04	0.0	0.35	0.0	-2.922e+04	0.0	1200.0	30(3),30(3)
52	53	33 SLV:NV	1.56	2943.74	-2.882e+04	-306.52	0.30	-3175.89	2.883e+04	1.024e+04	1500.0	25(2),24(2)
53		34 SLV:NV	2.15	0.0	2.878e+04	0.0	0.35	0.0	2.878e+04	0.0	1200.0	24(2),24(2)
54	55	36 SLV:NV	2.93	-5470.08	5.764e+04	6445.64	0.54	5464.46	-5.764e+04	7100.86	1500.0	24(2),25(2)
55		37 SLV:NV	2.82	0.0	-3.777e+04	0.0	0.46	0.0	-3.777e+04	0.0	1200.0	25(2),25(2)
56	57	39 SLV:NV	2.88	-5491.73	5.764e+04	8173.65	0.55	5484.85	-5.763e+04	9624.56	1500.0	24(2),25(2)
57		40 SLV:NV	2.86	0.0	3.826e+04	0.0	0.46	0.0	3.826e+04	0.0	1200.0	24(2),24(2)
58	59	42 SLV:NV	1.50	-2994.58	2.881e+04	1467.52	0.30	3120.86	-2.882e+04	9952.07	1500.0	24(2),25(2)
59		43 SLV:NV	2.15	0.0	-2.878e+04	0.0	0.35	0.0	-2.878e+04	0.0	1200.0	25(2),25(2)

Pilas.I

	ver. (+)	ver. (-)
	1.50	0.30
	2.95	0.58

Trave	SL cod	ver. (d)	ver. (f)	rot. c	Theta Y	Theta U	curv. Y /cm	curv. U /cm	Lv cm	V2 daN	ro V I	ro V J	Rif. cmb
1	SLV:NV	7.38e-03	1.08	1.045e-04	4.742e-03	1.417e-02	3.376e-05	5.116e-04	151.6	-2.257e+04	0.0	0.0	31,25
		0.02		4.346e-04	7.136e-03	2.399e-02	2.984e-05	4.964e-04	500.1				23
	SLD:ok	0.02		1.106e-04	4.755e-03		3.374e-05		155.6				27
		0.06		4.251e-04	7.095e-03		2.984e-05		495.6				27
2	SLV:NV	0.02	1.07	-4.299e-04	7.108e-03	2.390e-02	2.984e-05	4.964e-04	497.2	2.247e+04	0.0	0.0	22,25
		7.14e-03		-1.006e-04	4.733e-03	1.408e-02	3.376e-05	5.116e-04	149.1				30
	SLD:ok	0.06		-4.203e-04	7.066e-03		2.984e-05		492.6				26
		0.02		-1.066e-04	4.746e-03		3.374e-05		153.2				26
3	SLV:ok	6.86e-03	0.82	9.712e-05	4.741e-03	1.416e-02	3.375e-05	5.116e-04	151.5	-1.726e+04	0.0	0.0	23,23
		0.02		4.268e-04	7.134e-03	2.398e-02	2.984e-05	4.965e-04	499.8				23
	SLD:ok	0.02		9.802e-05	4.744e-03		3.375e-05		152.6				27
		0.06		4.211e-04	7.123e-03		2.984e-05		498.7				27
4	SLV:ok	7.11e-03	0.51	1.392e-04	6.040e-03	1.959e-02	3.375e-05	5.115e-04	321.5	1.080e+04	0.0	0.0	31,24
		7.17e-03		-1.406e-04	6.053e-03	1.961e-02	3.385e-05	5.120e-04	321.5				32
	SLD:ok	0.02		1.392e-04	6.040e-03		3.375e-05		321.5				35
		0.02		-1.390e-04	6.050e-03		3.382e-05		321.5				36
5	SLV:ok	6.48e-03	0.80	9.086e-05	4.728e-03	1.403e-02	3.375e-05	5.116e-04	147.8	-1.688e+04	0.0	0.0	23,23
		0.02		4.238e-04	7.168e-03	2.408e-02	2.984e-05	4.965e-04	503.5				23
	SLD:ok	0.02		9.223e-05	4.733e-03		3.375e-05		149.2				27
		0.06		4.176e-04	7.154e-03		2.984e-05		502.0				27
6	SLV:ok	8.59e-03	0.49	1.682e-04	6.041e-03	1.959e-02	3.375e-05	5.116e-04	321.5	1.023e+04	0.0	0.0	23,22
		8.57e-03		-1.679e-04	6.040e-03	1.959e-02	3.375e-05	5.116e-04	321.5				22
	SLD:ok	0.03		1.677e-04	6.041e-03		3.375e-05		321.5				35
		0.03		-1.675e-04	6.040e-03		3.375e-05		321.5				34
7	SLV:ok	9.15e-03	0.52	1.793e-04	6.041e-03	1.959e-02	3.375e-05	5.116e-04	321.5	1.083e+04	0.0	0.0	23,22
		9.16e-03		-1.795e-04	6.040e-03	1.959e-02	3.375e-05	5.115e-04	321.5				22
	SLD:ok	0.03		1.788e-04	6.041e-03		3.375e-05		321.5				35
		0.03		-1.790e-04	6.040e-03		3.375e-05		321.5				34
8	SLV:ok	0.02	0.80	-4.198e-04	7.143e-03	2.401e-02	2.984e-05	4.965e-04	500.7	1.676e+04	0.0	0.0	22,22
		6.25e-03		-8.707e-05	4.719e-03	1.392e-02	3.375e-05	5.115e-04	145.0				22
	SLD:ok	0.06		-4.135e-04	7.129e-03		2.984e-05		499.2				26
		0.02		-8.846e-05	4.724e-03		3.375e-05		146.5				26
9	SLV:ok	0.02	0.82	-4.229e-04	7.109e-03	2.391e-02	2.984e-05	4.965e-04	497.1	1.713e+04	0.0	0.0	22,22
		6.62e-03		-9.302e-05	4.731e-03	1.406e-02	3.375e-05	5.115e-04	148.7				22
	SLD:ok	0.06		-4.171e-04	7.099e-03		2.984e-05		496.0				26
		0.02		-9.395e-05	4.734e-03		3.375e-05		149.8				26
10	SLV:ok	0.29	0.67	-5.802e-03	5.300e-03	2.033e-02	5.655e-05	9.433e-04	121.5	1.144e+04	0.0	0.0	24,24
		0.24		4.920e-03	5.265e-03	2.029e-02	5.594e-05	9.416e-04	121.5				25
	SLD:ok	0.26		-1.414e-03	5.406e-03		5.615e-05		131.6				36
		0.17		9.096e-04	5.281e-03		5.622e-05		121.4				37
11	SLV:ok	0.27	0.67	-5.514e-03	5.288e-03	2.030e-02	5.639e-05	9.429e-04	121.2	1.146e+04	0.0	0.0	24,24
		0.27		5.421e-03	5.271e-03	2.028e-02	5.610e-05	9.420e-04	121.2				25
	SLD:ok	0.25		-1.313e-03	5.274e-03		5.616e-05		121.1				36
		0.28		1.470e-03	5.299e-03		5.618e-05		123.1				37
12	SLV:ok	0.28	0.64	-5.861e-03	5.370e-03	2.083e-02	5.609e-05	9.420e-04	129.1	1.095e+04	0.0	0.0	24,24
		0.31		6.439e-03	5.389e-03	2.085e-02	5.641e-05	9.429e-04	129.1				25
	SLD:ok	0.30		-1.600e-03	5.391e-03		5.615e-05		130.5				36
		0.36		2.025e-03	5.571e-03		5.614e-05		143.8				37
13	SLV:ok	0.29	0.67	-5.851e-03	5.298e-03	2.032e-02	5.655e-05	9.433e-04	121.3	1.146e+04	0.0	0.0	24,24
		0.24		4.966e-03	5.263e-03	2.027e-02	5.594e-05	9.416e-04	121.2				25
	SLD:ok	0.27		-1.433e-03	5.397e-03		5.615e-05		130.9				36
		0.17		9.216e-04	5.278e-03		5.622e-05		121.2				37
14	SLV:ok	0.27	0.67	-5.564e-03	5.285e-03	2.028e-02	5.640e-05	9.429e-04	121.0	1.148e+04	0.0	0.0	24,24
		0.27		5.468e-03	5.269e-03	2.027e-02	5.610e-05	9.420e-04	121.0				25
	SLD:ok	0.25		-1.327e-03	5.272e-03		5.616e-05		120.9				36
		0.28		1.487e-03	5.292e-03		5.618e-05		122.5				37

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15  SLV:ok    0.28    0.64 -5.912e-03  5.365e-03  2.080e-02  5.610e-05  9.420e-04  128.71.099e+04   0.0   0.0   24,24
             0.31          6.488e-03  5.384e-03  2.082e-02  5.641e-05  9.429e-04  128.8                            25
    SLD:ok    0.30         -1.625e-03  5.383e-03             5.615e-05             129.9                            36
             0.37          2.047e-03  5.560e-03             5.614e-05             143.1                            37
16  SLV:ok    0.26    0.29 -6.331e-03  6.596e-03  2.452e-02  4.547e-05  7.662e-04  273.0   6021.6    0.0   0.0   22,22
             0.09          2.309e-03  6.561e-03  2.447e-02  4.517e-05  7.652e-04  272.8                            23
    SLD:ok    0.75         -4.922e-03  6.581e-03             4.532e-05             273.0                            34
             0.21          1.388e-03  6.581e-03             4.535e-05             272.8                            35
17  SLV:ok    0.13    0.48 -2.423e-03  5.119e-03  1.891e-02  4.532e-05  7.658e-04  154.5  -9900.4    0.0   0.0   22,23
             0.13          2.451e-03  5.118e-03  1.891e-02  4.532e-05  7.657e-04  154.5                            23
    SLD:ok    0.29         -1.506e-03  5.120e-03             4.534e-05             154.4                            34
             0.30          1.529e-03  5.119e-03             4.534e-05             154.5                            35
18  SLV:ok    0.10    0.29 -2.345e-03  6.582e-03  2.454e-02  4.517e-05  7.653e-04  274.3  -5995.4    0.0   0.0   22,23
             0.26          6.339e-03  6.617e-03  2.459e-02  4.546e-05  7.662e-04  274.5                            23
    SLD:ok    0.22         -1.423e-03  6.601e-03             4.535e-05             274.3                            34
             0.75          4.927e-03  6.601e-03             4.532e-05             274.5                            35
19  SLV:ok    0.26    0.29 -6.420e-03  6.595e-03  2.452e-02  4.545e-05  7.662e-04  273.0   6021.5    0.0   0.0   22,22
             0.07          1.812e-03  6.562e-03  2.447e-02  4.518e-05  7.653e-04  272.8                            23
    SLD:ok    0.76         -5.007e-03  6.606e-03             4.531e-05             274.9                            34
             0.14         -1.137e-03  7.944e-03             4.531e-05             370.8                            34
20  SLV:ok    0.10    0.48 -1.947e-03  5.118e-03  1.891e-02  4.531e-05  7.657e-04  154.5   9898.8    0.0   0.0   22,22
             0.10          1.980e-03  5.117e-03  1.891e-02  4.531e-05  7.657e-04  154.5                            23
    SLD:ok    0.23         -1.200e-03  5.119e-03             4.533e-05             154.5                            34
             0.24          1.210e-03  5.119e-03             4.532e-05             154.5                            35
21  SLV:ok    0.08    0.29 -1.862e-03  6.583e-03  2.454e-02  4.518e-05  7.653e-04  274.3  -5995.3    0.0   0.0   22,23
             0.26          6.427e-03  6.615e-03  2.459e-02  4.545e-05  7.662e-04  274.6                            23
    SLD:ok    0.15         -9.637e-04  6.601e-03             4.535e-05             274.3                            34
             0.76          5.012e-03  6.623e-03             4.531e-05             276.2                            35
22  SLV:ok    0.35    0.86 -6.483e-03  5.028e-03  1.840e-02  5.649e-05  9.431e-04   95.81.478e+04    0.0   0.0   24,24
             0.29          5.417e-03  5.004e-03  1.837e-02  5.599e-05  9.417e-04   95.7                            25
    SLD:ok    0.41         -2.045e-03  5.048e-03             5.620e-05              99.8                            36
             0.27          1.330e-03  5.013e-03             5.618e-05              95.7                            37
23  SLV:ok    0.33    0.86 -6.136e-03  5.021e-03  1.839e-02  5.635e-05  9.427e-04   95.81.478e+04    0.0   0.0   24,24
             0.33          5.983e-03  5.011e-03  1.838e-02  5.612e-05  9.421e-04   95.8                            25
    SLD:ok    0.37         -1.847e-03  5.015e-03             5.622e-05              95.7                            36
             0.41          2.058e-03  5.026e-03             5.616e-05              97.4                            37
24  SLV:ok    0.38    0.90 -6.763e-03  4.968e-03  1.791e-02  5.609e-05  9.420e-04   90.21.544e+04    0.0   0.0   24,24
             0.41          7.432e-03  4.981e-03  1.793e-02  5.638e-05  9.428e-04   90.3                            25
    SLD:ok    0.46         -2.301e-03  5.012e-03             5.615e-05              95.7                            36
             0.57          2.880e-03  5.053e-03             5.615e-05             100.6                            37
25  SLV:ok    0.38    0.91 -6.796e-03  4.961e-03  1.783e-02  5.608e-05  9.420e-04   89.31.559e+04    0.0   0.0   24,24
             0.42          7.466e-03  4.975e-03  1.785e-02  5.638e-05  9.428e-04   89.3                            25
    SLD:ok    0.46         -2.320e-03  5.005e-03             5.615e-05              94.8                            36
             0.58          2.902e-03  5.045e-03             5.615e-05              99.6                            37
26  SLV:ok    0.34    0.87 -6.157e-03  5.016e-03  1.833e-02  5.635e-05  9.427e-04   95.01.489e+04    0.0   0.0   24,24
             0.33          6.003e-03  5.005e-03  1.832e-02  5.612e-05  9.421e-04   95.0                            25
    SLD:ok    0.37         -1.861e-03  5.009e-03             5.622e-05              95.0                            36
             0.41          2.074e-03  5.021e-03             5.616e-05              96.8                            37
27  SLV:ok    0.35    0.87 -6.504e-03  5.023e-03  1.834e-02  5.649e-05  9.431e-04   95.11.489e+04    0.0   0.0   24,24
             0.30          5.436e-03  4.999e-03  1.831e-02  5.599e-05  9.417e-04   95.0                            25
    SLD:ok    0.41         -2.059e-03  5.042e-03             5.620e-05              99.1                            36
             0.27          1.343e-03  5.007e-03             5.618e-05              95.0                            37
60  SLV:ok 7.03e-03  0.98 -1.485e-04  6.210e-03  2.113e-02  2.987e-05  4.967e-04  397.4-2.062e+04    0.0   0.0   30,25
             0.02          3.736e-04  5.772e-03  1.970e-02  2.984e-05  4.965e-04  347.4                            25
    SLD:ok    0.02         -1.485e-04  6.210e-03             2.987e-05             397.4                            34
             0.04          2.385e-04  5.615e-03             2.986e-05             328.5                            29
61  SLV:ok    0.01    0.90 -2.239e-04  4.828e-03  1.611e-02  2.983e-05  4.963e-04  225.01.883e+04    0.0   0.0   24,24
          5.12e-03         -1.008e-04  6.060e-03  1.968e-02  3.360e-05  5.109e-04  325.5                            31
    SLD:ok    0.03          1.614e-04  5.164e-03             3.379e-05             221.3                            37
             0.02         -1.008e-04  6.060e-03             3.360e-05             325.5                            35
62  SLV:ok    0.02    0.72 -3.465e-04  5.603e-03  1.912e-02  2.983e-05  4.963e-04  327.51.516e+04    0.0   0.0   24,24
          4.41e-03          7.962e-05  5.302e-03  1.805e-02  2.987e-05  4.967e-04  289.8                            30
    SLD:ok    0.04         -1.937e-04  5.457e-03             2.986e-05             309.3                            36
             0.02          7.962e-05  5.302e-03             2.987e-05             289.8                            34
63  SLV:NV    0.02    1.07 -4.197e-04  7.152e-03  2.404e-02  2.983e-05  4.964e-04  501.92.248e+04    0.0   0.0   22,24
          6.35e-03         -8.814e-05  4.714e-03  1.388e-02  3.372e-05  5.114e-04  143.8                            22
    SLD:ok    0.06         -4.131e-04  7.152e-03             2.984e-05             501.8                            34
             0.02         -9.370e-05  4.728e-03             3.372e-05             148.4                            26
64  SLV:ok    0.02    0.83 -3.377e-04  5.468e-03  1.865e-02  2.983e-05  4.964e-04  311.01.735e+04    0.0   0.0   24,24
          1.39e-03         -1.700e-05  4.734e-03  1.226e-02  3.367e-05  5.112e-04  103.5                            23
    SLD:ok    0.04         -2.027e-04  5.248e-03             2.986e-05             283.0                            36
          3.78e-03         -1.787e-05  4.723e-03             3.367e-05             105.7                            27
65  SLV:ok    0.01    0.99  2.486e-04  5.250e-03  1.686e-02  3.379e-05  5.117e-04  232.32.084e+04    0.0   0.0   25,24
          6.85e-03         -9.018e-05  4.686e-03  1.316e-02  3.371e-05  5.114e-04  124.9                            24
    SLD:ok    0.04          1.992e-04  5.353e-03             3.378e-05             245.0                            37
             0.02         -7.758e-05  4.689e-03             3.374e-05             129.2                            36
66  SLV:NV 5.79e-03  1.06  7.298e-05  4.707e-03  1.261e-02  3.376e-05  5.116e-04  111.4-2.225e+04    0.0   0.0   25,25
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              0.02         3.714e-04 5.611e-03 1.915e-02 2.985e-05 4.965e-04  328.1                      25
    SLD:ok    0.02         8.398e-05 4.694e-03           3.380e-05            130.1                      37
              0.05         2.523e-04 5.460e-03           2.986e-05            309.6                      29
67  SLV:ok 8.06e-03  0.51  1.579e-04 6.041e-03 1.959e-02 3.375e-05 5.116e-04  321.51.077e+04  0.0  0.0  31,25
           7.99e-03       -1.565e-04 6.040e-03 1.959e-02 3.375e-05 5.116e-04  321.5                      30
    SLD:ok    0.03         1.579e-04 6.041e-03           3.375e-05            321.5                      35
              0.03        -1.565e-04 6.040e-03           3.375e-05            321.5                      34
68  SLV:NV 5.82e-03  1.06  7.345e-05 4.707e-03 1.262e-02 3.376e-05 5.116e-04  111.7-2.228e+04  0.0  0.0  25,25
              0.02         3.715e-04 5.608e-03 1.914e-02 2.985e-05 4.965e-04  327.8                      25
    SLD:ok    0.02         8.437e-05 4.694e-03           3.380e-05            130.3                      37
              0.05         2.526e-04 5.458e-03           2.986e-05            309.4                      29
69  SLV:ok    0.01   0.99  2.492e-04 5.252e-03 1.686e-02 3.379e-05 5.117e-04  232.52.088e+04  0.0  0.0  25,24
           6.89e-03       -9.076e-05 4.686e-03 1.317e-02 3.371e-05 5.114e-04  125.2                      24
    SLD:ok    0.04         1.998e-04 5.358e-03           3.378e-05            245.5                      37
              0.02        -7.806e-05 4.689e-03           3.374e-05            129.5                      36
70  SLV:ok    0.02   0.83 -3.375e-04 5.464e-03 1.864e-02 2.983e-05 4.964e-04  310.51.740e+04  0.0  0.0  24,24
           1.41e-03       -1.732e-05 4.730e-03 1.229e-02 3.367e-05 5.112e-04  104.3                      22
    SLD:ok    0.04        -2.030e-04 5.246e-03           2.986e-05            282.6                      36
           3.85e-03       -1.818e-05 4.720e-03           3.367e-05            106.3                      26
71  SLV:NV 6.56e-03  1.08  9.163e-05 4.721e-03 1.397e-02 3.372e-05 5.114e-04  146.3-2.258e+04  0.0  0.0  23,24
              0.02         4.243e-04 7.180e-03 2.412e-02 2.983e-05 4.964e-04  504.9                      23
    SLD:ok    0.02         9.717e-05 4.736e-03           3.373e-05            150.8                      27
              0.06         4.176e-04 7.180e-03           2.984e-05            504.8                      35
72  SLV:ok    0.02   0.72 -3.464e-04 5.603e-03 1.912e-02 2.983e-05 4.963e-04  327.51.518e+04  0.0  0.0  24,24
           4.39e-03        7.920e-05 5.305e-03 1.805e-02 2.987e-05 4.967e-04  290.1                      31
    SLD:ok    0.04        -1.944e-04 5.456e-03           2.986e-05            309.1                      36
              0.01         7.920e-05 5.305e-03           2.987e-05            290.1                      35
73  SLV:ok    0.01   0.90 -2.233e-04 4.826e-03 1.610e-02 2.983e-05 4.963e-04  224.71.887e+04  0.0  0.0  24,24
           5.10e-03       -1.004e-04 6.060e-03 1.968e-02 3.360e-05 5.109e-04  325.5                      30
    SLD:ok    0.03         1.619e-04 5.163e-03           3.379e-05            221.2                      37
              0.02        -1.004e-04 6.060e-03           3.360e-05            325.5                      34
74  SLV:ok 6.99e-03  0.98 -1.478e-04 6.212e-03 2.113e-02 2.987e-05 4.967e-04  397.7-2.064e+04  0.0  0.0  31,25
              0.02         3.734e-04 5.770e-03 1.969e-02 2.984e-05 4.965e-04  347.1                      25
    SLD:ok    0.02        -1.478e-04 6.212e-03           2.987e-05            397.7                      35
              0.04         2.393e-04 5.613e-03           2.986e-05            328.3                      29
75  SLV:ok    0.04   0.51 -9.820e-04 6.248e-03 2.453e-02 5.628e-05 9.425e-04  188.0  -8792.4  0.0  0.0  24,25
              0.02         3.148e-04 5.087e-03 1.900e-02 5.627e-05 9.425e-04  103.6                      25
    SLD:ok    0.09         5.961e-04 6.800e-03           5.625e-05            221.7                      37
              0.05         2.335e-04 5.108e-03           5.625e-05            105.8                      37
76  SLV:ok    0.03   0.50 -6.395e-04 6.046e-03 2.373e-02 5.644e-05 9.430e-04  174.4  -8587.9  0.0  0.0  32,33
              0.03         5.756e-04 5.681e-03 2.230e-02 5.614e-05 9.421e-04  151.6                      33
    SLD:ok    0.07        -4.216e-04 5.853e-03           5.638e-05            162.1                      36
              0.07         3.821e-04 5.558e-03           5.613e-05            143.0                      37
77  SLV:ok    0.02   0.52 -5.419e-04 5.567e-03 2.173e-02 5.638e-05 9.428e-04  142.5   8988.5  0.0  0.0  24,24
              0.05         1.283e-03 6.491e-03 2.544e-02 5.614e-05 9.421e-04  203.7                      25
    SLD:ok    0.08        -4.210e-04 5.599e-03           5.641e-05            144.6                      36
              0.11        -8.562e-04 8.081e-03           5.641e-05            294.9                      36
78  SLV:ok    0.04   0.52 -1.016e-03 6.244e-03 2.451e-02 5.628e-05 9.425e-04  187.7  -8847.3  0.0  0.0  24,25
              0.02         3.153e-04 5.084e-03 1.898e-02 5.626e-05 9.425e-04  103.3                      25
    SLD:ok    0.09         5.989e-04 6.798e-03           5.625e-05            221.6                      37
              0.05         2.351e-04 5.109e-03           5.625e-05            105.9                      37
79  SLV:ok    0.03   0.50 -6.383e-04 6.046e-03 2.373e-02 5.644e-05 9.430e-04  174.4  -8598.1  0.0  0.0  32,33
              0.03         5.763e-04 5.683e-03 2.231e-02 5.614e-05 9.421e-04  151.7                      33
    SLD:ok    0.07        -4.238e-04 5.854e-03           5.638e-05            162.1                      36
              0.07         3.838e-04 5.558e-03           5.613e-05            143.0                      37
80  SLV:ok    0.03   0.53 -5.428e-04 5.562e-03 2.171e-02 5.638e-05 9.428e-04  142.1   9039.4  0.0  0.0  24,24
              0.05         1.315e-03 6.484e-03 2.541e-02 5.614e-05 9.421e-04  203.2                      25
    SLD:ok    0.08        -4.226e-04 5.597e-03           5.641e-05            144.5                      36
              0.11        -8.612e-04 8.083e-03           5.641e-05            295.0                      36
81  SLV:ok    0.04   0.25  1.295e-03 8.845e-03 3.153e-02 4.524e-05 7.655e-04  434.3  -5128.5  0.0  0.0  31,31
              0.02         4.156e-04 5.769e-03 2.168e-02 4.524e-05 7.655e-04  211.5                      31
    SLD:ok    0.15         1.295e-03 8.845e-03           4.524e-05            434.3                      35
              0.07         4.156e-04 5.769e-03           4.524e-05            211.5                      35
82  SLV:ok    0.01   0.24 -2.962e-04 5.354e-03 1.999e-02 4.535e-05 7.658e-04  176.0  -5020.4  0.0  0.0  30,31
              0.01         2.956e-04 5.348e-03 1.997e-02 4.534e-05 7.658e-04  175.6                      31
    SLD:ok    0.06        -2.962e-04 5.354e-03           4.535e-05            176.0                      34
              0.06         2.956e-04 5.348e-03           4.534e-05            175.6                      35
83  SLV:ok    0.02   0.25 -4.207e-04 5.791e-03 2.176e-02 4.525e-05 7.655e-04  213.2   5117.5  0.0  0.0  30,30
              0.04        -1.307e-03 8.900e-03 3.169e-02 4.525e-05 7.655e-04  438.0                      30
    SLD:ok    0.07        -4.207e-04 5.791e-03           4.525e-05            213.2                      34
              0.15        -1.307e-03 8.900e-03           4.525e-05            438.0                      34
84  SLV:ok    0.04   0.24  1.262e-03 8.874e-03 3.162e-02 4.523e-05 7.655e-04  436.4  -5004.0  0.0  0.0  31,31
              0.02         3.970e-04 5.742e-03 2.158e-02 4.523e-05 7.655e-04  209.4                      31
    SLD:ok    0.14         1.262e-03 8.874e-03           4.523e-05            436.4                      35
              0.07         3.970e-04 5.742e-03           4.523e-05            209.4                      35
85  SLV:ok    0.01   0.23 -2.759e-04 5.341e-03 1.994e-02 4.533e-05 7.658e-04  175.0  -4751.3  0.0  0.0  30,31
              0.01         2.753e-04 5.335e-03 1.992e-02 4.532e-05 7.657e-04  174.6                      31
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	SLD:ok	0.05		-2.759e-04	5.341e-03		4.533e-05		175.0				34
		0.05		2.753e-04	5.335e-03		4.532e-05		174.6				35
86	SLV:ok	0.02	0.24	-4.016e-04	5.763e-03	2.166e-02	4.524e-05	7.655e-04	211.1	4993.7	0.0	0.0	30,30
		0.04		-1.275e-03	8.930e-03	3.179e-02	4.524e-05	7.655e-04	440.2				30
	SLD:ok	0.07		-4.016e-04	5.763e-03		4.524e-05		211.1				34
		0.14		-1.275e-03	8.930e-03		4.524e-05		440.2				34
87	SLV:ok	0.06	0.66	-1.335e-03	5.810e-03	2.283e-02	5.622e-05	9.424e-04	159.9	-1.134e+04	0.0	0.0	24,25
		0.02		3.423e-04	5.034e-03	1.852e-02	5.633e-05	9.427e-04	97.4				25
	SLD:ok	0.10		6.817e-04	6.980e-03		5.632e-05		232.0				37
		0.05		2.496e-04	5.018e-03		5.632e-05		95.5				37
88	SLV:ok	0.03	0.63	-6.723e-04	5.785e-03	2.269e-02	5.638e-05	9.428e-04	157.6	-1.074e+04	0.0	0.0	24,33
		0.04		9.016e-04	5.528e-03	2.159e-02	5.619e-05	9.423e-04	140.5				25
	SLD:ok	0.08		-4.417e-04	5.670e-03		5.642e-05		149.6				36
		0.08		4.169e-04	5.430e-03		5.620e-05		133.3				37
89	SLV:ok	0.04	0.69	-7.185e-04	5.274e-03	2.021e-02	5.644e-05	9.430e-04	119.8	1.188e+04	0.0	0.0	24,24
		0.08		1.752e-03	5.613e-03	2.200e-02	5.612e-05	9.421e-04	146.9				25
	SLD:ok	0.08		-4.533e-04	5.367e-03		5.651e-05		127.0				36
		0.12		-1.006e-03	8.406e-03		5.651e-05		312.5				36
90	SLV:ok	0.04	0.70	-7.346e-04	5.264e-03	2.014e-02	5.645e-05	9.430e-04	118.9	1.197e+04	0.0	0.0	24,24
		0.08		1.772e-03	5.589e-03	2.189e-02	5.612e-05	9.421e-04	145.2				25
	SLD:ok	0.08		-4.546e-04	5.362e-03		5.651e-05		126.6				36
		0.12		-1.010e-03	8.413e-03		5.651e-05		312.9				36
91	SLV:ok	0.03	0.63	-6.818e-04	5.766e-03	2.262e-02	5.638e-05	9.428e-04	156.3	-1.080e+04	0.0	0.0	24,33
		0.04		9.199e-04	5.520e-03	2.156e-02	5.619e-05	9.423e-04	140.0				25
	SLD:ok	0.08		-4.422e-04	5.665e-03		5.642e-05		149.2				36
		0.08		4.181e-04	5.427e-03		5.620e-05		133.0				37
92	SLV:ok	0.06	0.67	-1.347e-03	5.791e-03	2.275e-02	5.622e-05	9.424e-04	158.7	-1.143e+04	0.0	0.0	24,25
		0.02		3.438e-04	5.033e-03	1.851e-02	5.633e-05	9.427e-04	97.3				25
	SLD:ok	0.10		6.839e-04	6.984e-03		5.632e-05		232.2				37
		0.05		2.502e-04	5.016e-03		5.632e-05		95.3				37

Trave

	ver. (d)	ver. (f)
	0.76	1.08

<====== ELABORAZIONE CURVA DI CAPACITA' ======>

Rapporto "Fb max/Fb 1":   1.41623e+00

Area sottesa dal diagramma E* :   1.80305e+05

Spostamento d* allo 0,7 di Fbu: 1.29709e+00

Rigidezza K* :   3.10970e+04

Spostamento dy* :   2.03732e+00

Taglio Fy*:   6.33545e+04

Massa m* :   2.21765e+05

Periodo T*:   5.35713e-01

<====== CALCOLO DOMANDA DI SPOSTAMENTO ======>

Accelerazione Se(T*) :   5.35363e-01

Spostamento d* e,max (da Sd(T*)) :   3.81788e+00

Fattore q*:   1.87398e+00

Spostamento d* max: 4.31407e+00

Taglio F*:   6.33545e+04

Spostamento Domanda SL: 5.51288e+00

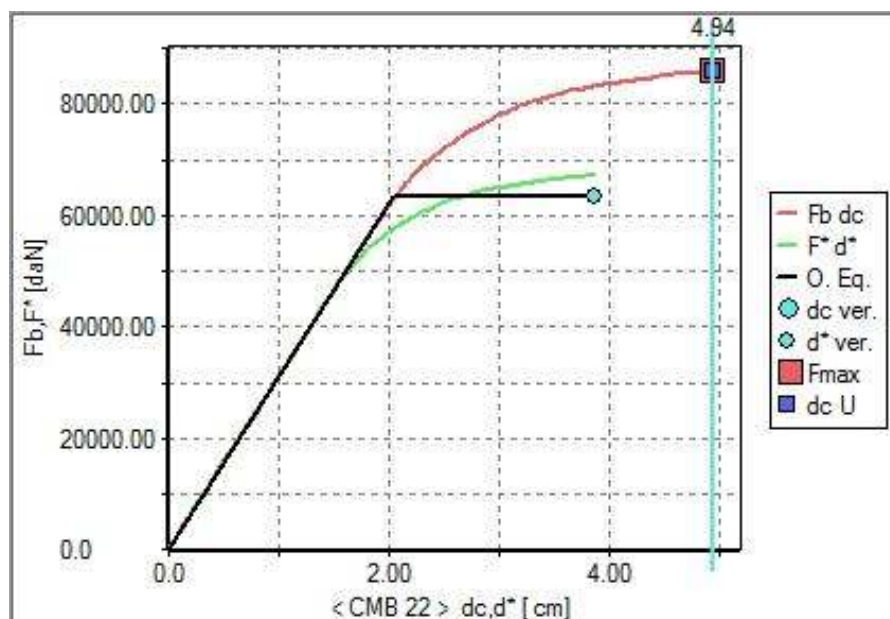<====== INFORMAZIONI AGGIUNTIVE ======>

PGA dc Ultimo: 1.16397e-01

Indicatore di rischio alfau: 9.07935e-01

Figura 1 CURVA DI CAPACITA'