

PROJECT REPORT - MACHINE LEARNING

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1. PROJECT OBJECTIVE

The main objective of this business report is to explore the datasets,

- Bank Marketing
- Insurance

Bank Marketing – Customer segmentation is done using Hierarchical clustering, K-means clustering techniques and customers are grouped upon their bank activities related to credit card usage.

Insurance – Building an optimum model to predict the Claim status (Target) and thereby providing recommendations to the management. Techniques such as CART, Random Forest and Artificial Neural Networks are used for the prediction.

The Business report comprises the following:

BANK MARKETING

- Importing the dataset
- Exploratory data analysis
- Scaling the data
- Performing Hierarchical clustering and K-means clustering
- Cluster profiling and Promotional strategies

INSURANCE

- Importing the dataset
- Descriptive Statistics and Null value check

- Data split into train and test
- Building Classification models – CART, Random Forest, ANN
- Evaluating the Performance metrics
- Inference

2. BANK MARKETING DATASET

2.1 ENVIRONMENTAL SETUP

SET UP THE WORKING DIRECTORY

Setting up the working directory in R helps to import and export data files and code files easy and effective.

Basically, working directory is the location where the data and the codes to be worked on is stored.

IMPORT AND READ THE DATASET

The dataset to be worked on is in .csv format. Hence “read.csv” command is used to import the required dataset. Please refer Appendix A for the source code.

INVOKING NECESSARY LIBRARIES

All the required libraries are called to work on the given dataset. Refer Appendix A (source code).

2.2 EXPLORATORY DATA ANALYSIS

VARIABLE IDENTIFICATION

The following functions are used to learn the details about the Variables of the given dataset.

`names()` – displays all the variable names

`dim()` - provides the dimension of the dataset (rows and columns)

`head()` – returns the first n rows of the dataset (default: 6 rows)

`tail()` – returns the last n rows of the dataset (default: 6 rows)

`str()` – displays the internal structure of the dataset

`summary()` – produces statistical summaries of the data

`anyNA()` – tests for any missing values

`hist()` – displays a histogram for any given numerical variable

`boxplot()` – visualizes the correlation between any numerical and categorical variable. It provides the five point summary of the distribution. It shows the presence of outliers.

`dummy.data.frame()` – to create dummy data columns for categorical variables.

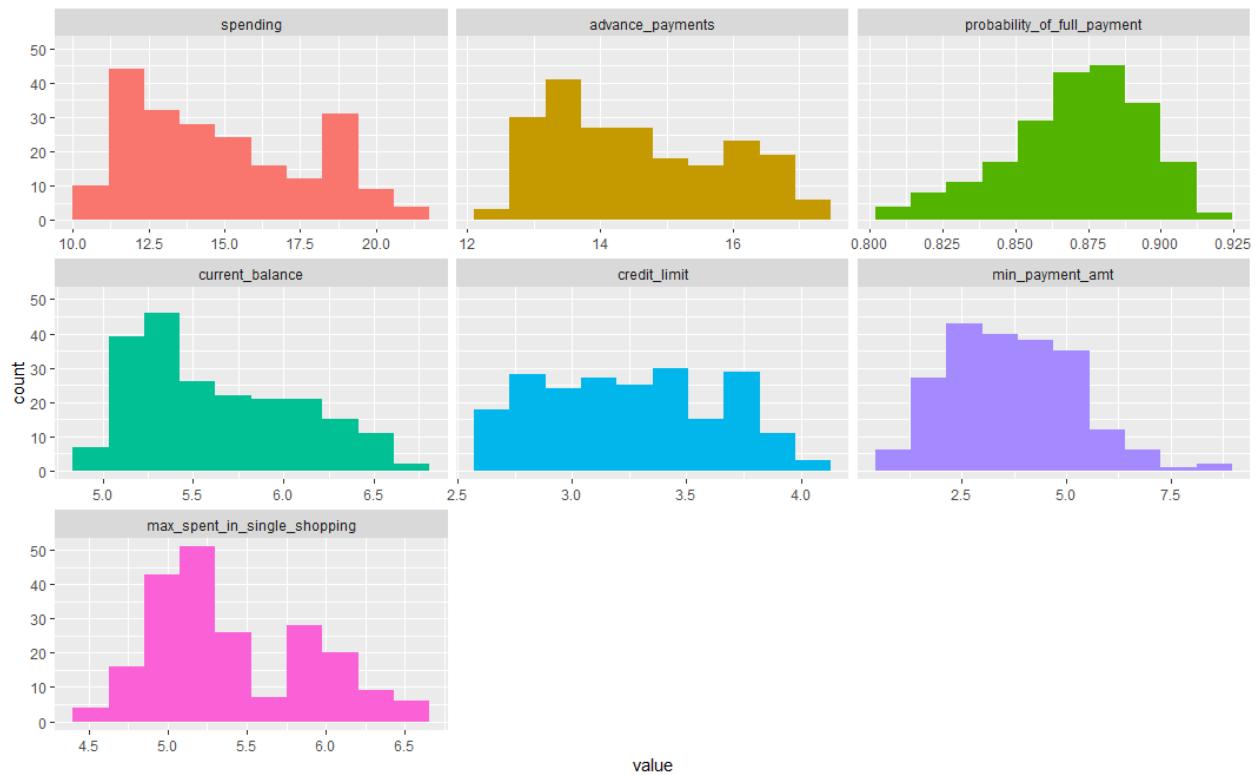
VARIABLE IDENTIFICATION INFERENCE

With employing the above functions in R we can simply derive the skeleton and characteristics of the given dataset. **BANK MARKETING** dataset is a data frame with 210 rows and 7 columns. The variables are of appropriate datatypes. The 5 point summary is calculated for all the variables (Refer source code).It gives the central value (mean) and dispersed value (standard deviation) for each of the variables.

Histograms shows the frequency distribution of the data whereas boxplot shows the center, shape and spread of the data. The dataset is comprised of only numeric datatypes. No categorical variables are available in the given dataset. But the variables are of different magnitudes, hence variables should be normalized. There are no NA values in the dataset. Outliers are present in couple of variables. Clustering is done with all the provided variables taken into account, none of the features are dropped for the analysis. Since the dataset doesn't have any deformities we can directly call the functions to get the desired results. Refer source code for further details.

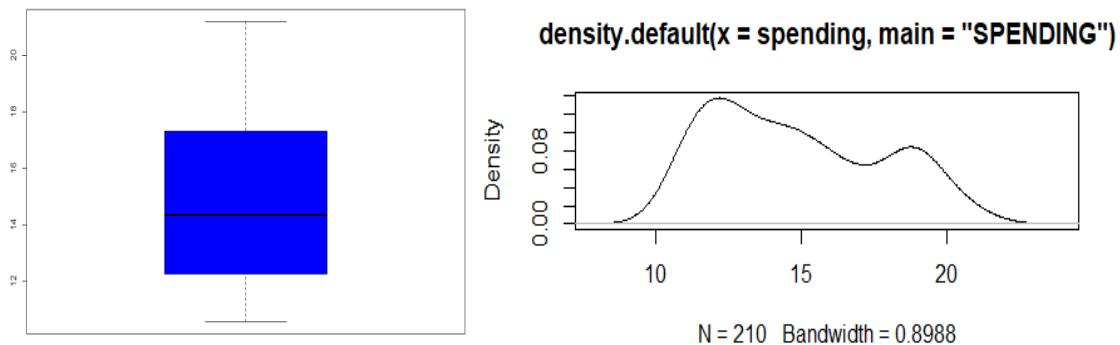
UNIVARIATE ANALYSIS

The following shows the Univariate analysis of each variable in the dataset to know more about its nature.



SPENDING

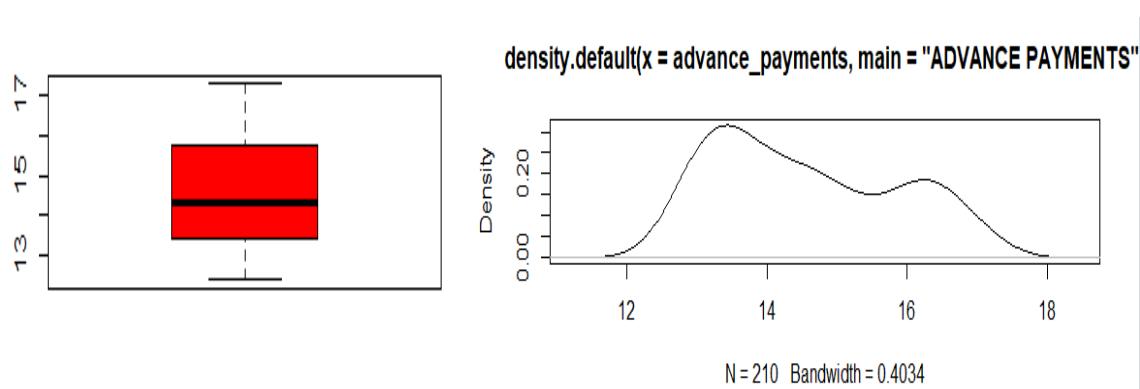
It is the amount spent by the customers in 1000's.



The distribution of Spending is right skewed with no outbound values.

ADVANCE PAYMENTS

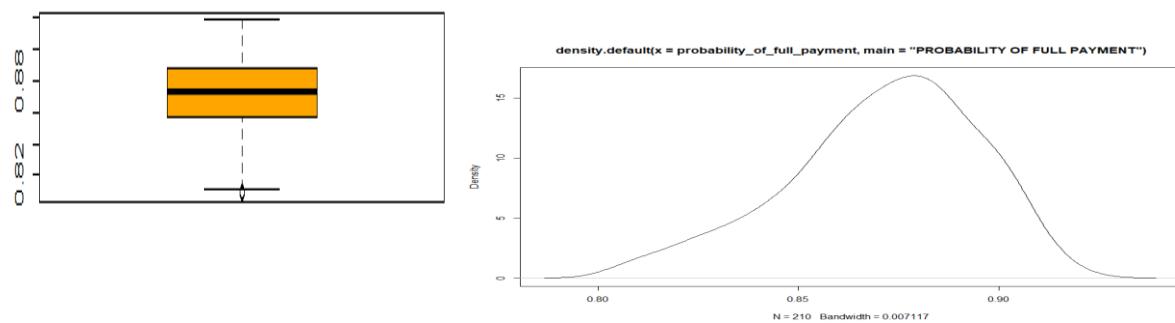
It is the amount paid by the customer in advance by cash in 100's.



The distribution of Advance payments is right skewed with no presence of outliers.

PROBABILITY OF FULL PAYMENT

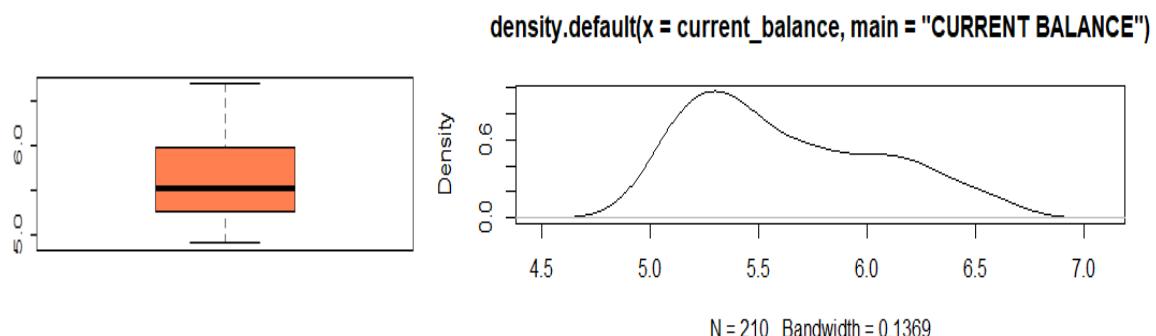
It is the probability of the payment done in full by the customer to the bank.



The probability distribution is slightly left skewed with presence of outliers on the left side.

CURRENT BALANCE

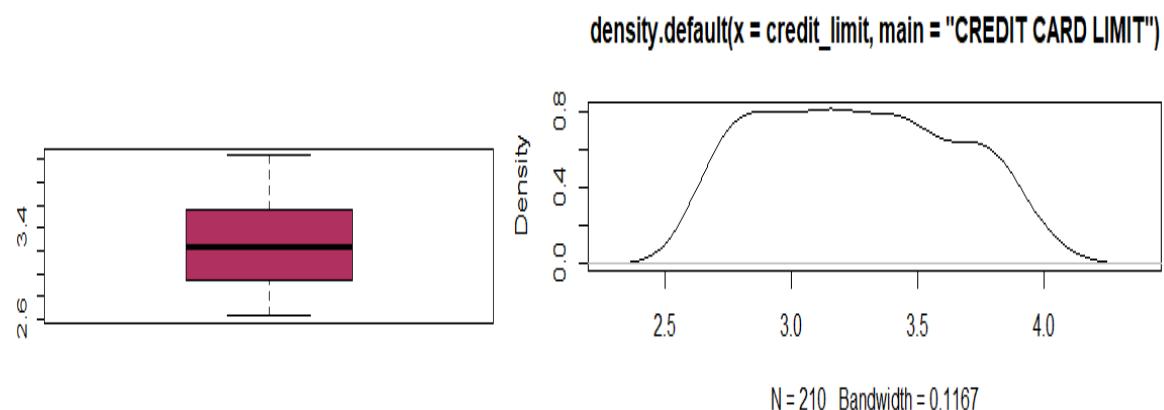
It is the balance amount left in the account to make purchases in 1000's.



The distribution is right skewed with no outbound values.

CREDIT LIMIT

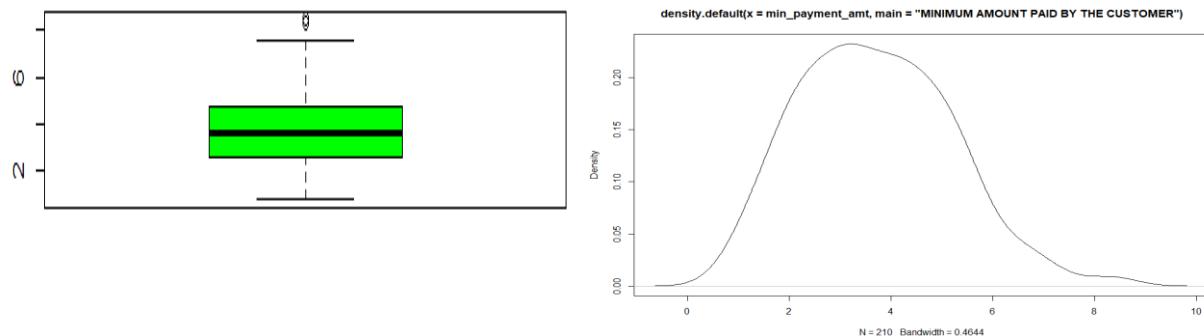
It is the limit of the amount in credit card for each customer in 10,000's.



The above figure shows the distribution of credit limit of customers .There is no outbound values.

MINIMUM PAYMENT

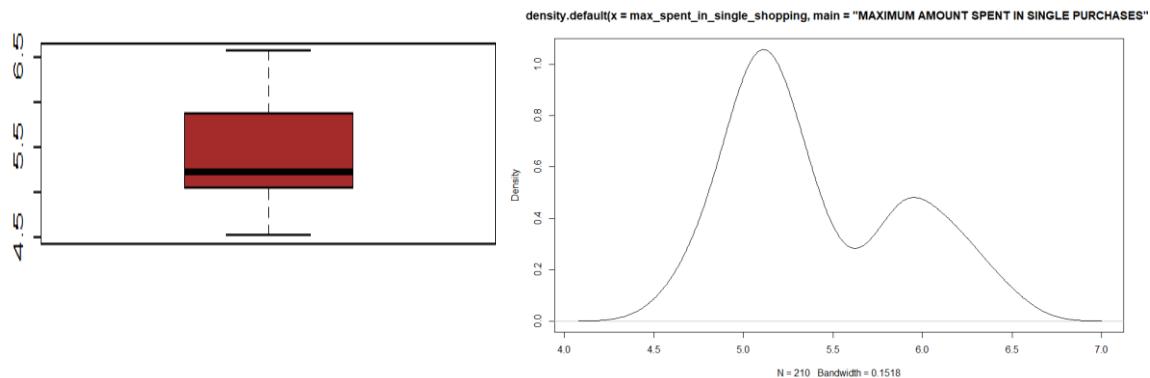
It is the minimum monthly payment made by the customer for his purchases in 100's.



The distribution is more or less normal with the presence of outliers.

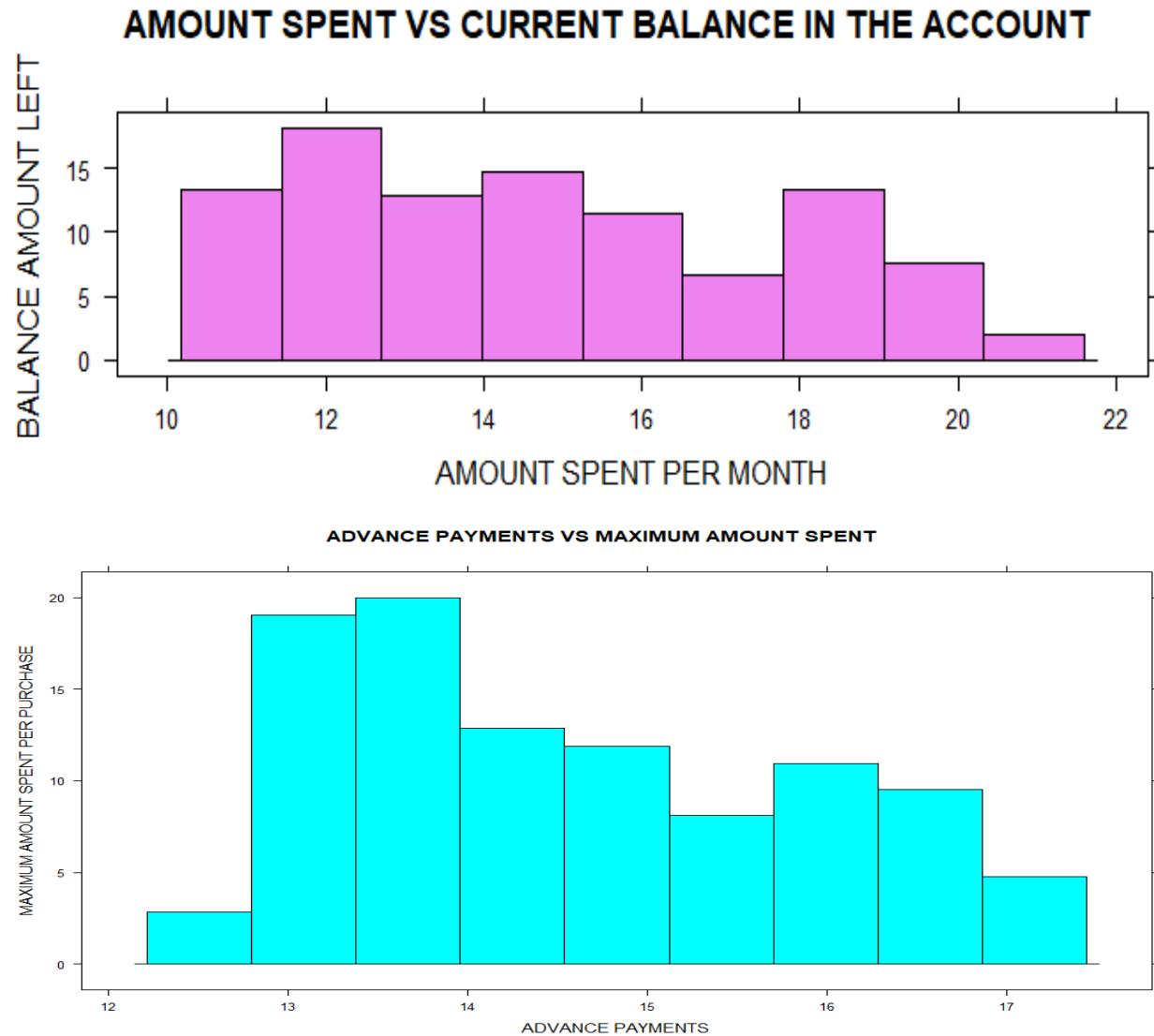
MAXIMUM SPENT

It is the maximum amount spent by the customer for single purchase in 1000's.



It is a slightly right skewed distribution with no presence of outbound values.

BI-VARIATE ANALYSIS



From the above graphs we can infer that there is no stabilized way of spending .Customers who paid more advance spend less for purchases and vice versa. It solely depends upon the customer needs.

MISSING VALUE IDENTIFICATION

The presence of missing values (NA) can be ascertained. There are no missing values in the given dataset. Hence it doesn't require any of the missing value treatments. If in case of any NA values present in the data, then we can either ignore them or impute them.

OUTLIER IDENTIFICATION

Outliers are the values which bounds out extremely from the overall pattern of the distribution.

Here outliers are present in the columns Probability of full payment and Minimum payment amount. Not all outliers are extreme values, so we move ahead with our analysis further without ignoring it.

2.3 SCALING OF THE DATA

Feature normalizing or scaling is a very important step in Clustering algorithms. Since Clustering techniques uses Distance calculation to form the cohorts, it will be wise to scale the variables which can be of different magnitudes. Normalizing the data is important to ensure that the distance measure accords equal weight to each variable. Without normalization the variable with the largest scale will dominate the measure. Scaling is used to eliminate redundant data and ensures that good quality clusters are generated which can improve the efficiency of the Clustering algorithms.

For the provided Bank Marketing dataset, the variables (amount) are of different magnitudes of 100's, 1000's, 10000's. Hence we normalize the variables using Z-score scaling. Now the variables will have a standard normal distribution with mean = 0 and standard deviation = 1. Standard scores of the samples are calculated as follows:

$$Z = \frac{X - \mu}{\sigma}$$

SIGMA

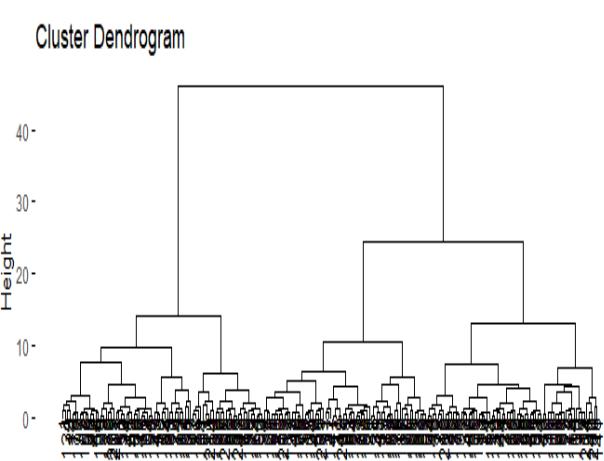
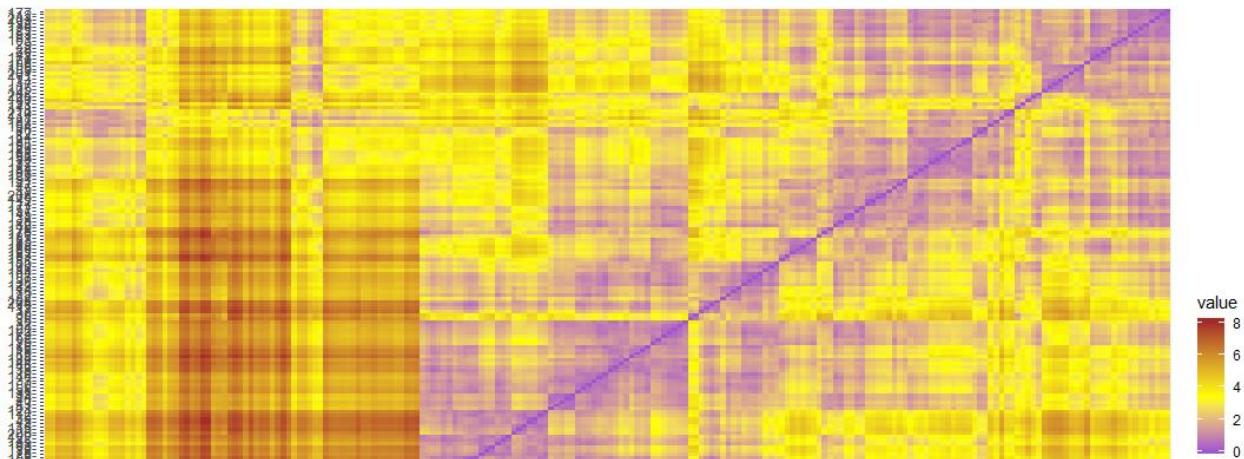
MU – mean; SIGMA – standard deviation

2.4 HIERARCHICAL CLUSTERING

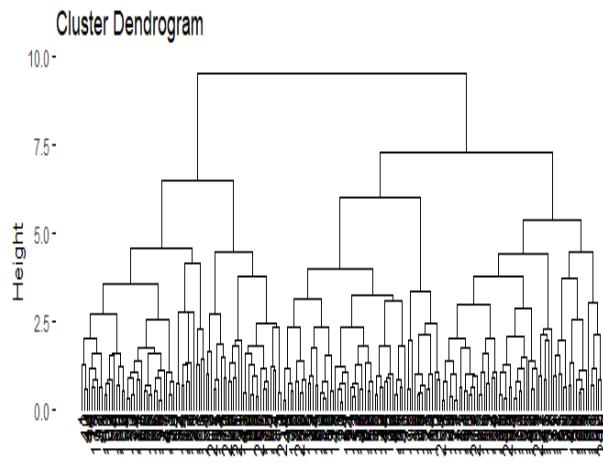
Hierarchical Cluster Analysis (HCA) is an unsupervised clustering algorithm which involves creating clusters that have predominant ordering. The algorithm segregates similar objects into groups called clusters. The cluster is distinct from each other cluster, and the objects within each cluster are broadly similar to each other. It basically uses distance measures to calculate the similarities and dissimilarities between the objects. It is of two types,

- Agglomerative Clustering
- Divisive Clustering

FACTOR VISUALISATION OF DISTANCES

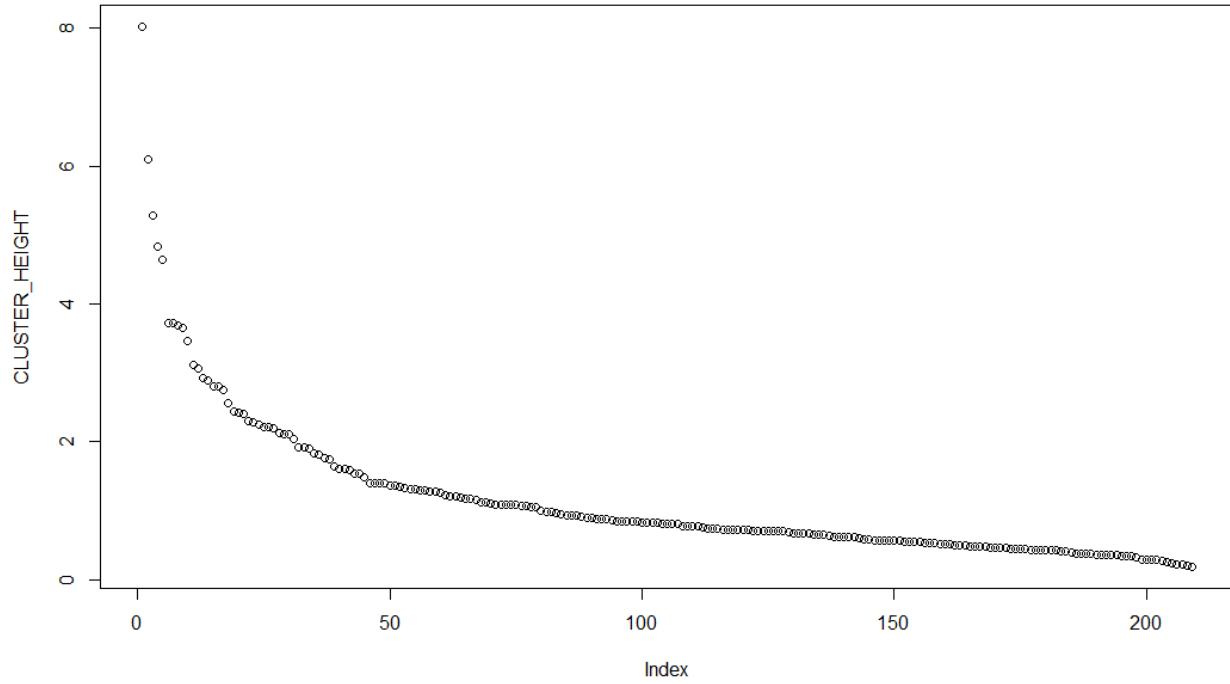


AGGLOMERATIVE CLUSTERING
(BOTTOM-UP APPROACH)

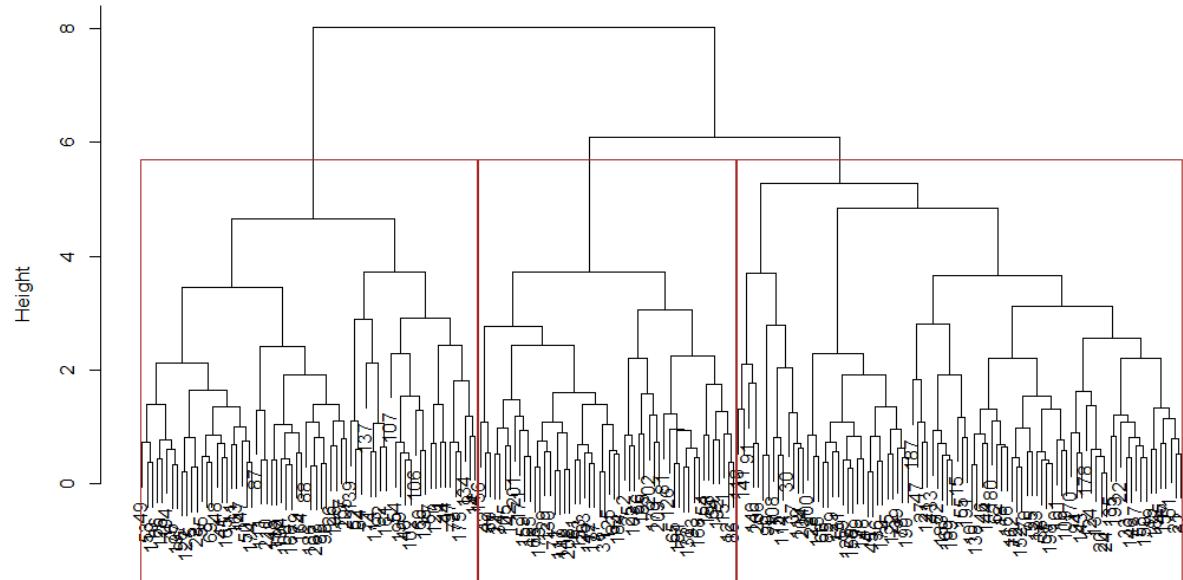


DIVISIVE CLUSTERING
(TOP-DOWN APPROACH)

CLUSTER HEIGHTS



Cluster Dendrogram

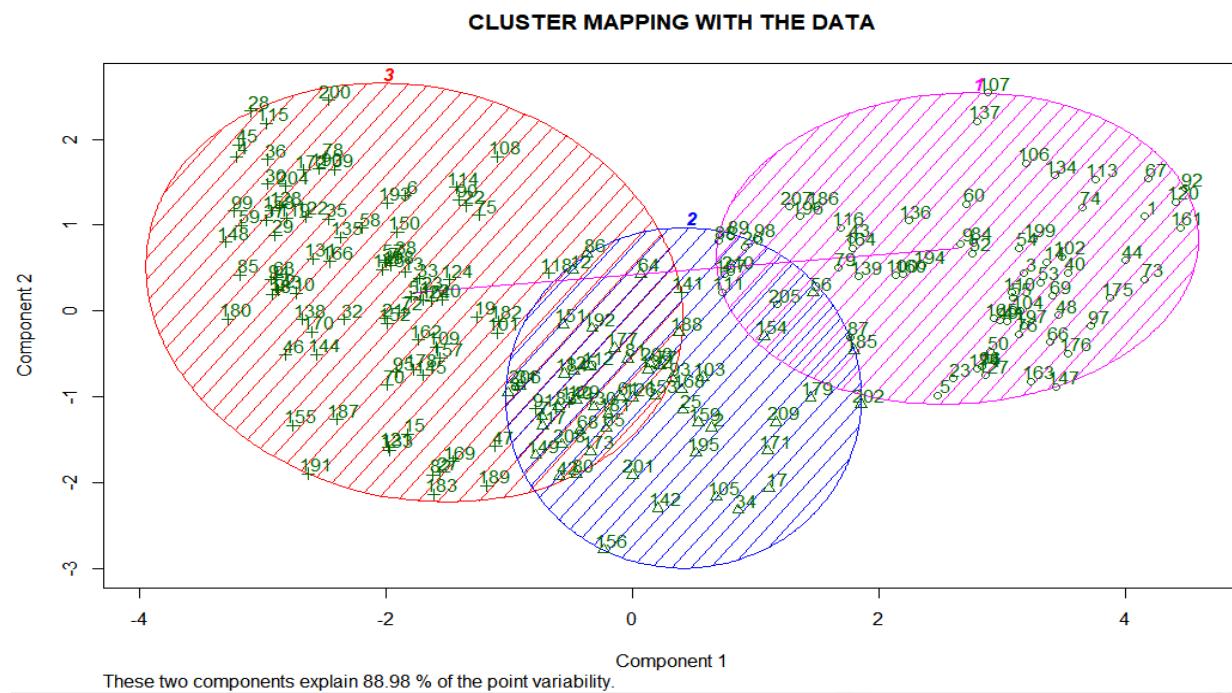


DISTANCEMATRIX
hclust (*, "complete")

HIERARCHICAL CLUSTERING WITH DEFINED CLUSTERS

The given dataset is subjected to both the type of Hierarchical clustering such as Agglomerative and Divisive approach. As we can refer to the dendograms displayed above, it clearly shows that the records can be grouped into 3 different clusters. The cluster heights from the Hierarchical model is sorted and plotted. There is a significant decrease in the height for the first 3 clusters, so we can cut the dendrogram at 3 cluster heights. Hence we can infer that the optimal number of clusters for this dataset is 3.

BRIEF DESCRIPTION OF CLUSTERS



The 7 dimensions of the data is reduced into 2 dimensions which explains 88.98% variance of the original data and the rest 11.02% variance is lost in dimensionality reduction. The corresponding clusters are mapped to its components.

CUSTOMER SEGMENTATION

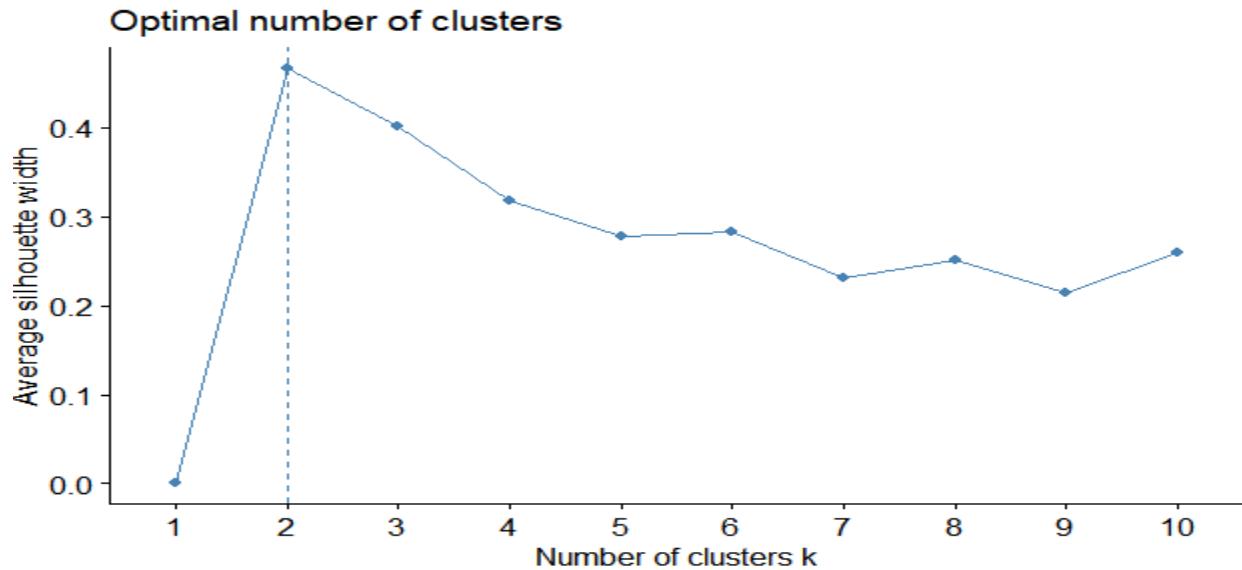
CLUSTER	CLUSTER SIZES	AVERAGE SILHOUETTE WIDTHS	DESCRIPTION
1	68	0.4161420	They are the premium category customers who spend more on purchases made. Their advance payments are also more.
2	52	0.5168482	They belong to the medium category who spend neither high nor low for the purchases made by them. Advance payments made by them is less when compared to the cluster 1.

3	90	0.4157438	These customers are categorized as least spenders when compared to the other two categories. But the monthly minimum payment made by them is more than the rest of the clusters. On the other hand, their advance payments by cash is less.
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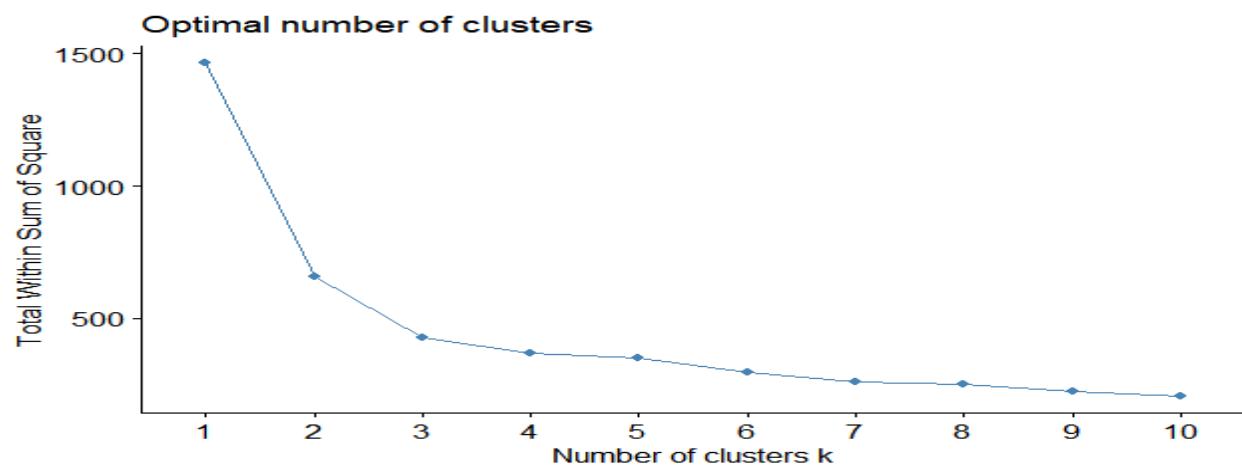
2.5 K-MEANS CLUSTERING

K-means algorithm is also an unsupervised learning method which tries to partition the dataset into k pre-defined, distinct, non-overlapping clusters. Here each data point belongs to any one of the clusters.

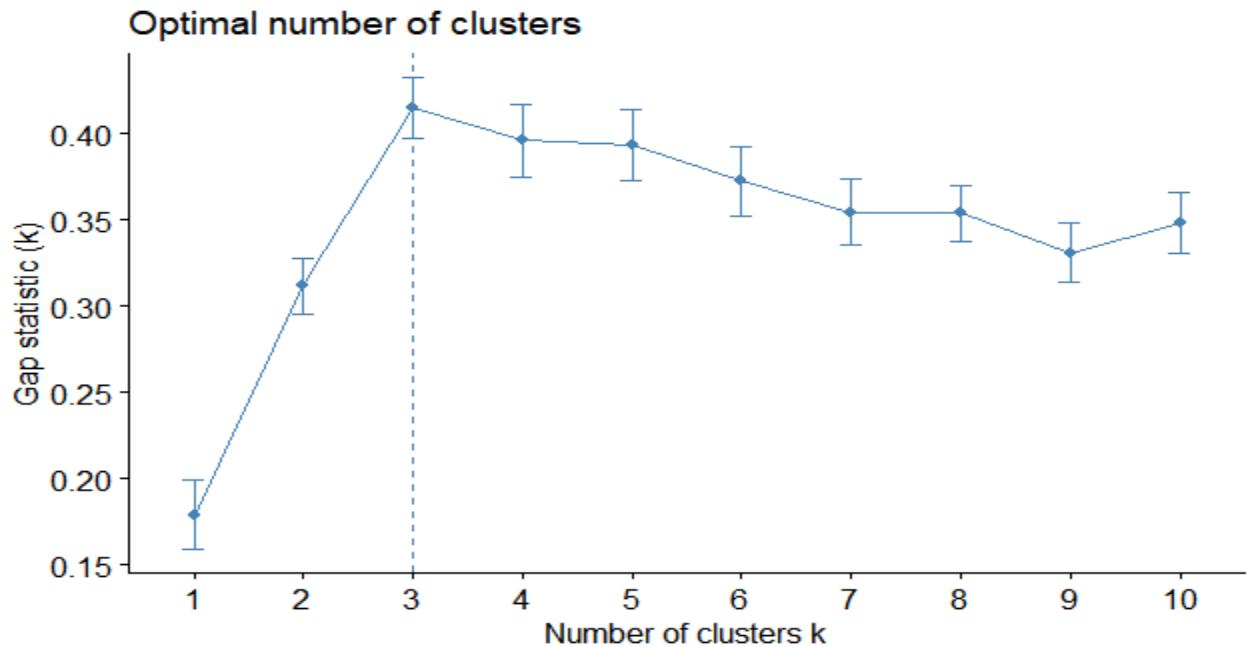
For the given Bank Marketing dataset, as an initial step we need to find the approximate number of clusters.



The average silhouette method shows the optimal number of clusters to be chosen as 2.



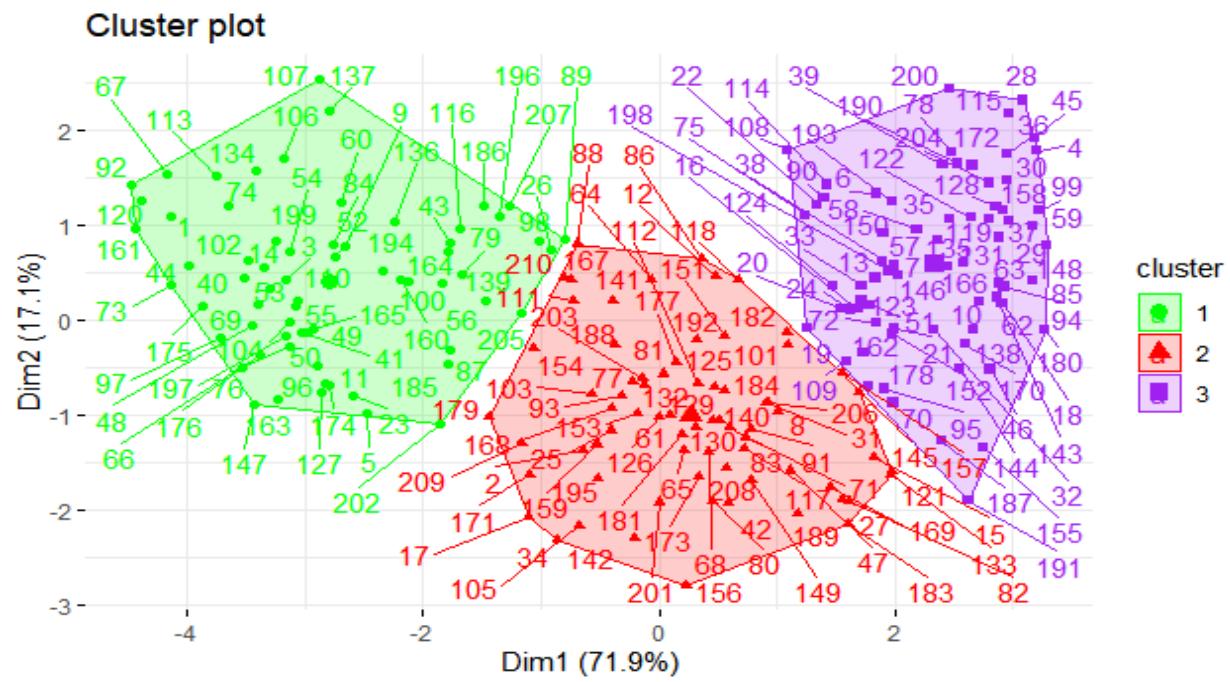
The total within sum of squares calculation depicts the cluster sizes of 3 – 4 can be a prominent decision, as the decrease in height is maximum for these clusters.



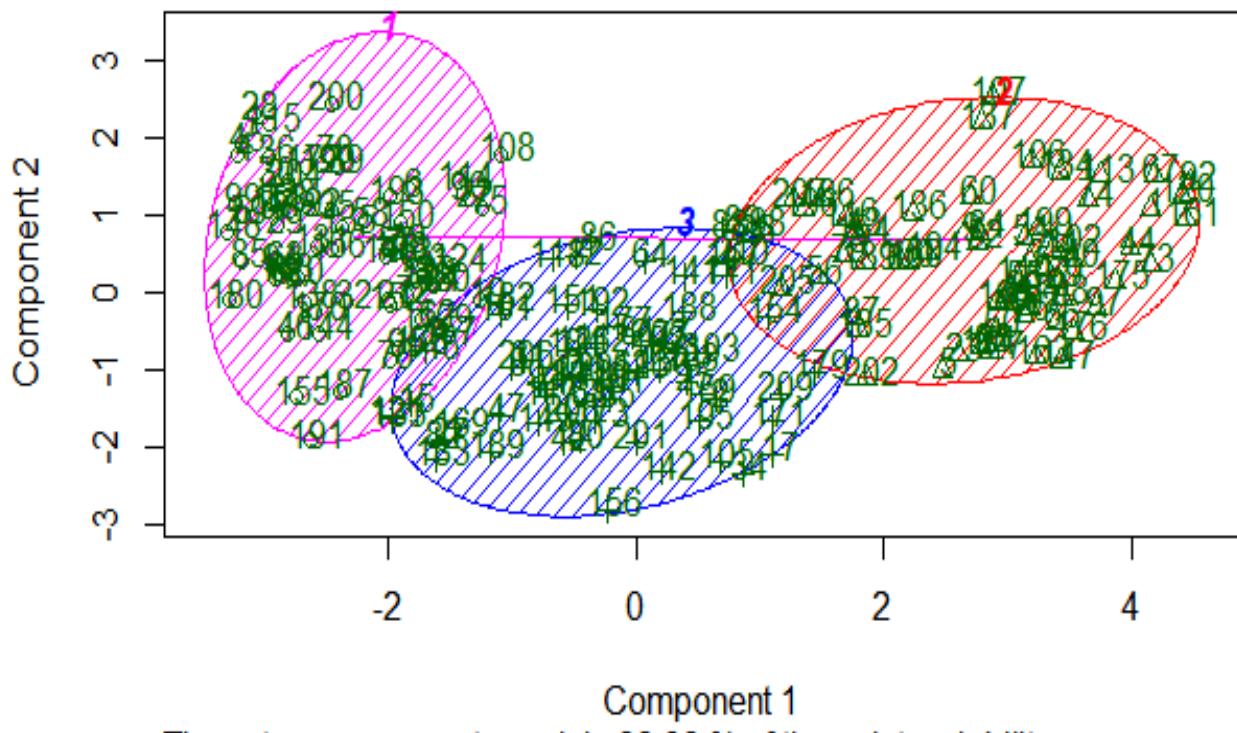
The above graph shows the gap statistic method to calculate the appropriate number of clusters. Even the gap stat method recommends the number of clusters to be 3.

Hence with reference to the above graphs, we tend to decide on 3 clusters for K-means algorithm for further analysis.

Now the algorithm, segments all the observations into 3 different clusters, where the inter-cluster objects are highly different and intra-cluster objects are highly similar. Here dimensionality reduction is done from 7 components to 2 uncorrelated components which capture 89% variance of the original data, rest 11% of the variance of the original data is lost.



CLUSTER PLOT USING K-MEANS



CUSTOMER SEGMENTATION USING K-MEANS APPROACH

CLUSTER	CLUSTER SIZES	AVERAGE SILHOUETTE WIDTHS	DESCRIPTION
1	72	0.3974727	These customers are categorized as least spenders when compared to the other two categories
2	67	0.4687721	They are the premium category customers who spend more on purchases made.
3	71	0.3398158	They belong to the medium category who spend neither high nor low for the purchases made by them.

2.6 CLUSTER PROFILING

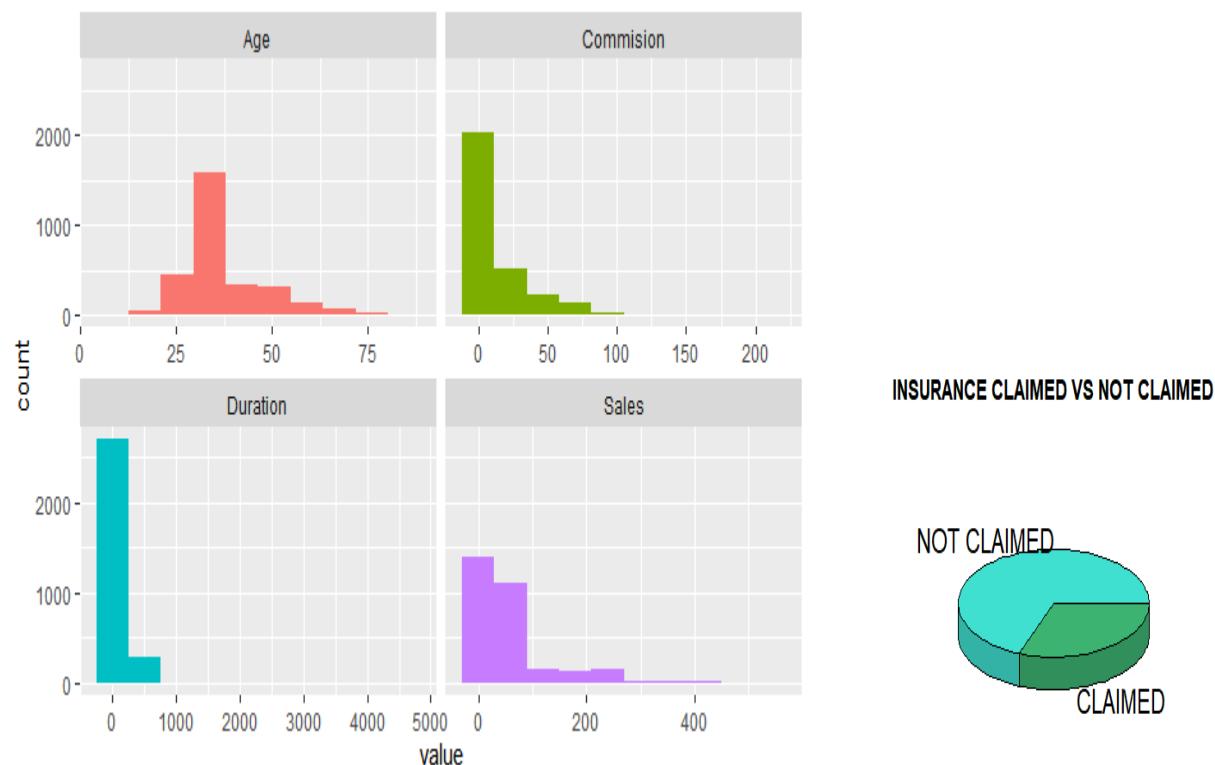
Upon building the Hierarchical clustering and K-means approach for the given Bank Marketing dataset we strongly infer that the customers are grouped into 3 different clusters (categories). With respect to the analysis made with the dataset, all the customers show fluctuating similarities and dissimilarities with each other. The feature, Amount spent by the customer seems to prove crucial in clustering the customer records.

CATEGORIES(clusters)	PROMOTIONAL STRATEGIES
Premium	<ul style="list-style-type: none">• Credit limit can be increased from the current range as they are good spenders• Gift cards and reward points• Cashback offers
Mediocre	<ul style="list-style-type: none">• Increase credit limit• All type of promotional offers
Least spender	<ul style="list-style-type: none">• Analyzing customer insights better• Gift cards, cash back offers, rewards• Excellent customer service ,as they need to be pleased more

3. INSURANCE DATASET

3.1. DATA INGESTION

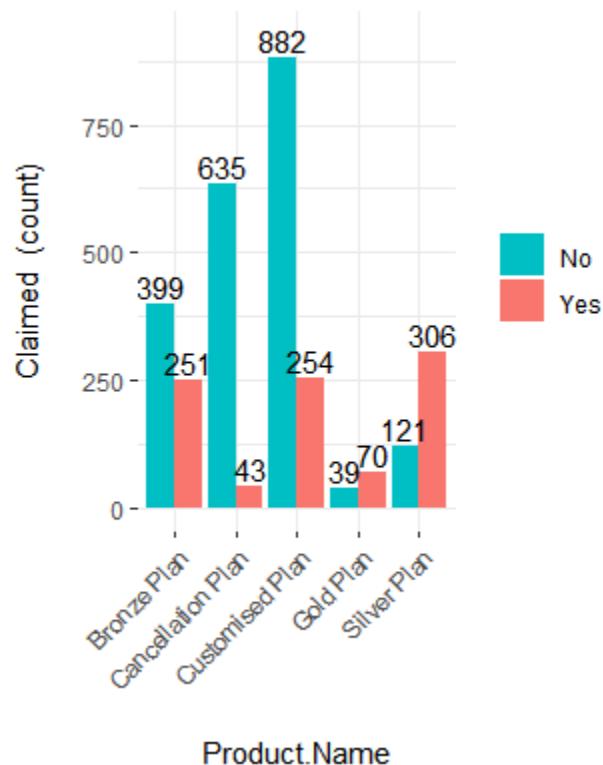
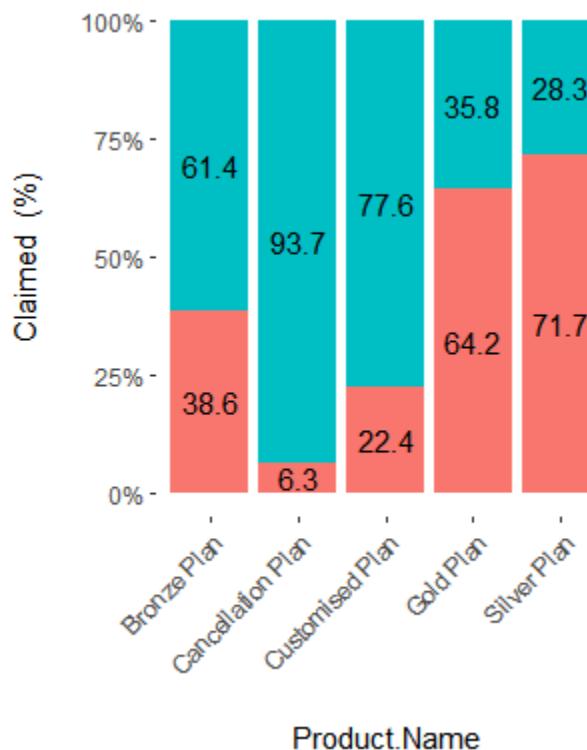
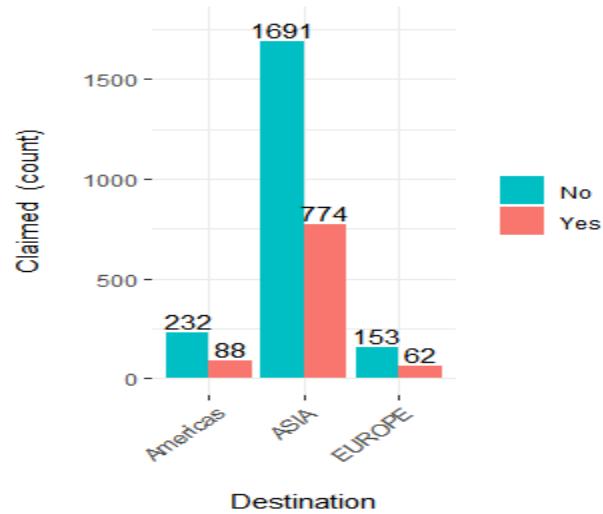
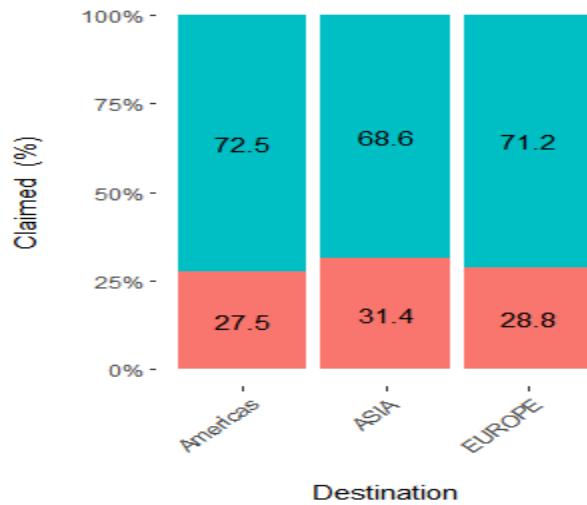
Insurance dataset contains 3000 observations with 9 predictors and 1 predictand. Claim status is the target variable which is to be predicted. The dataset contains factor, numeric and integer datatypes. No null values are present within the dataset.

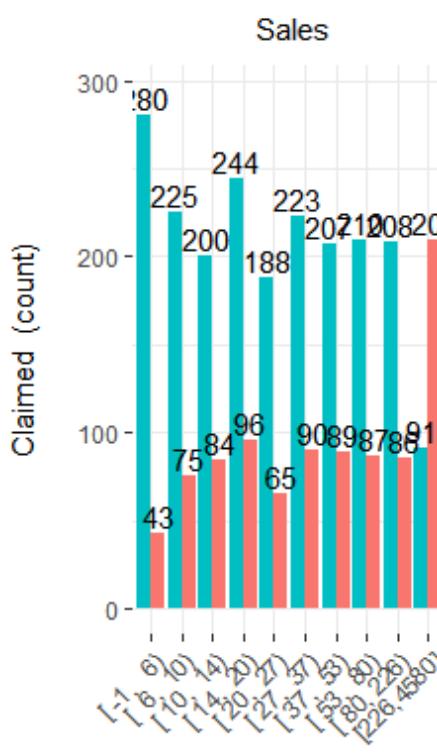
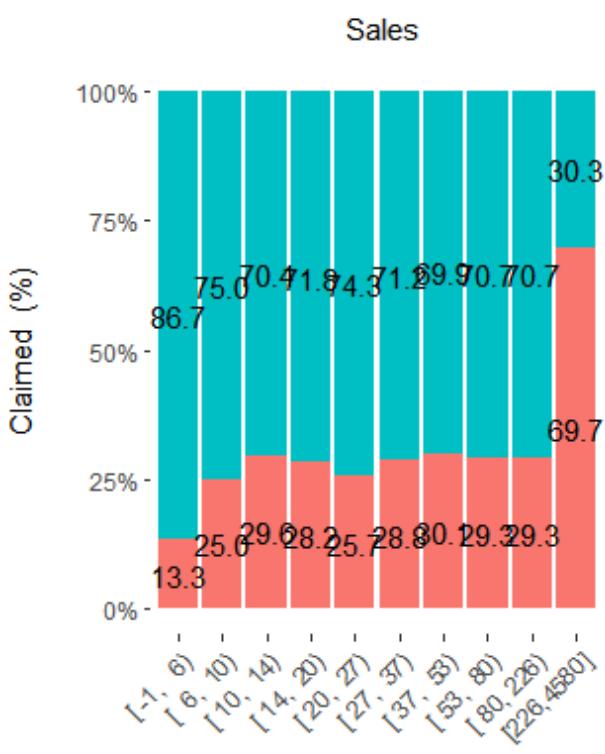
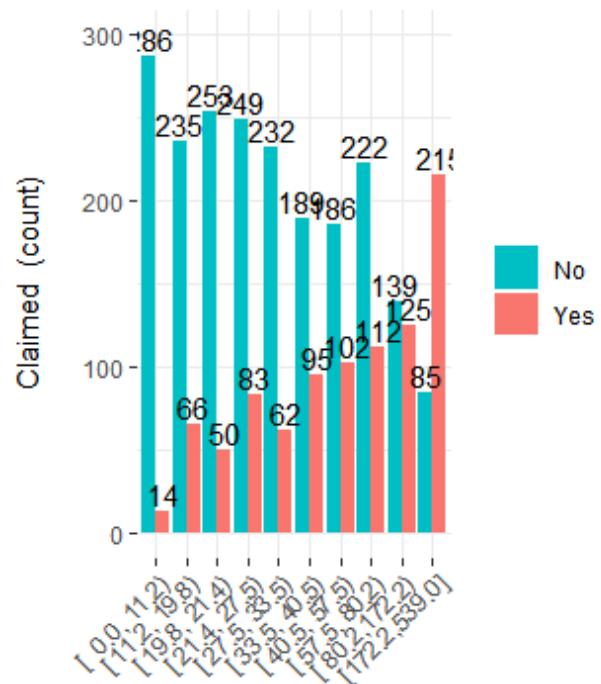
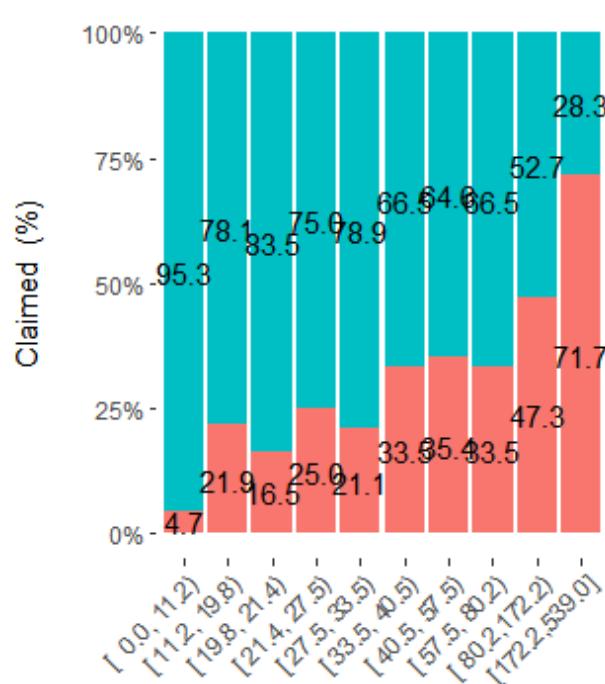


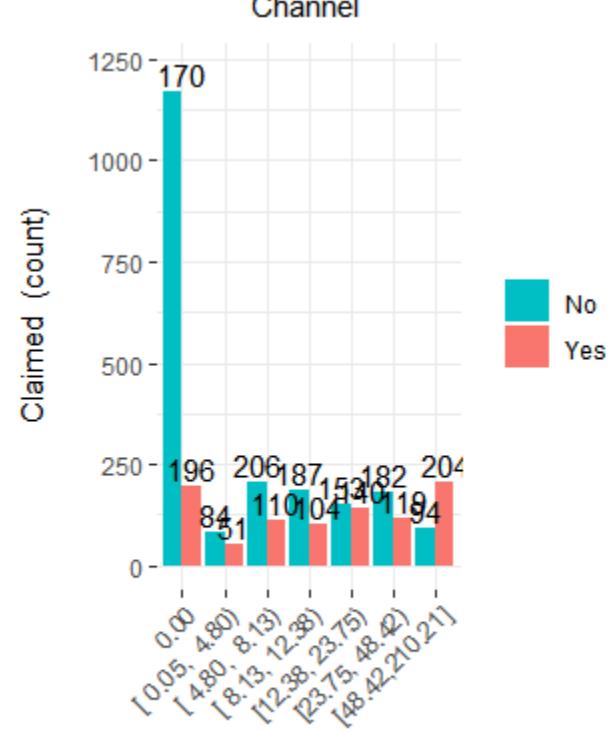
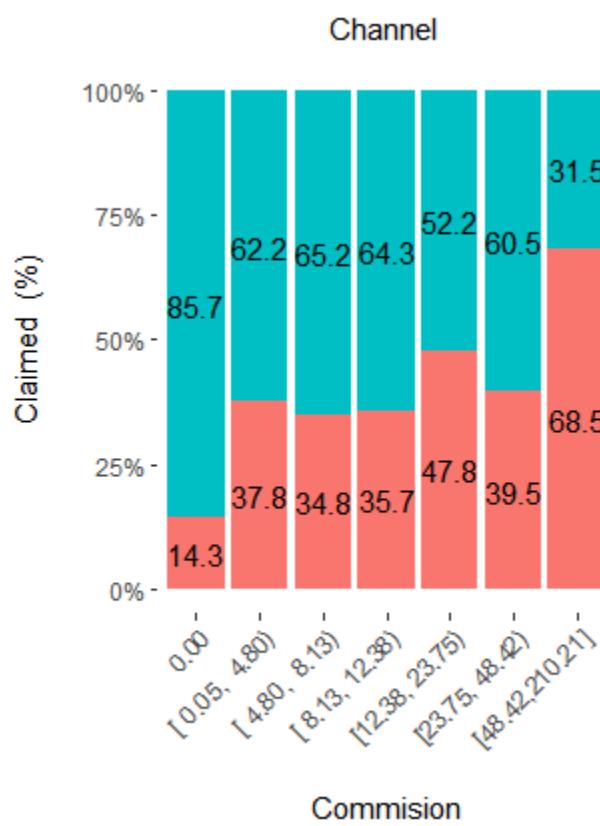
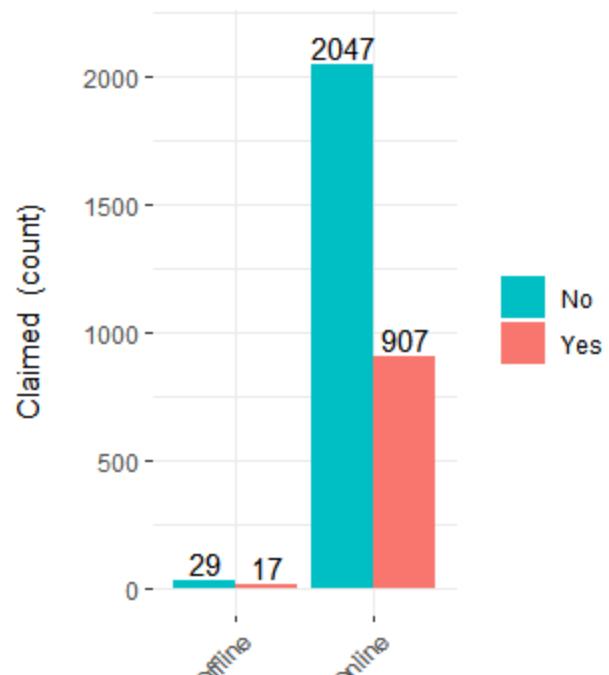
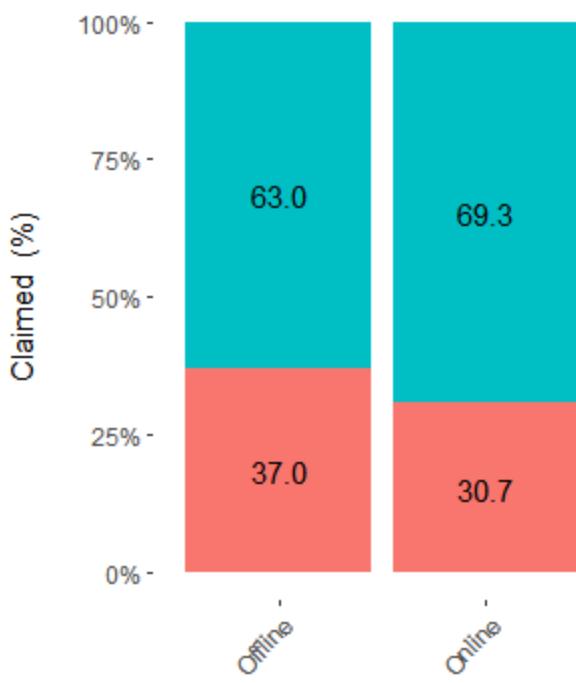
The above graphs shows the distribution of all the variables which are of numerical datatype. The proportion of claimed and not claimed in the target column (Claim Status) is shown using the pie chart. There are no missing values in the dataset.

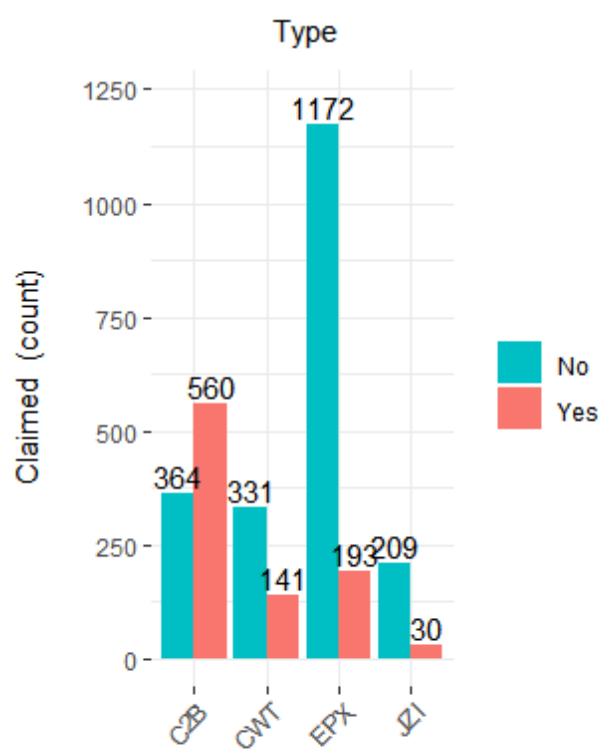
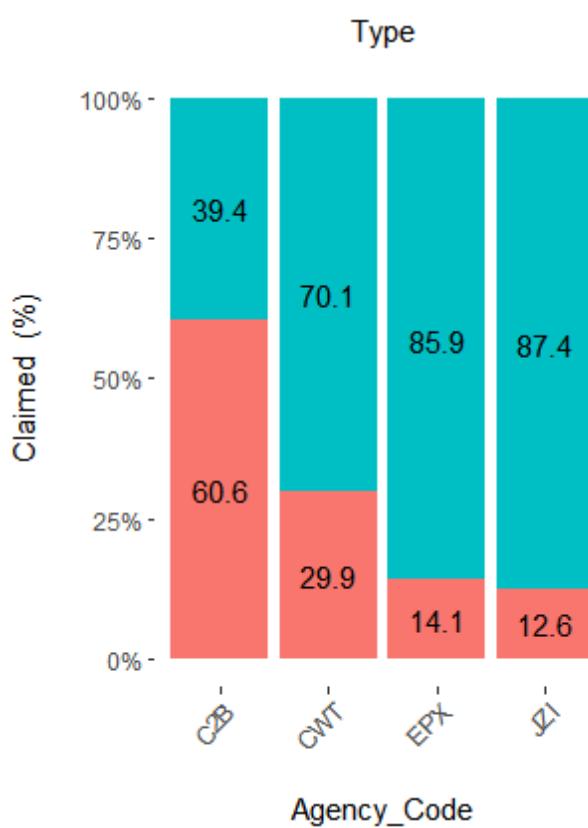
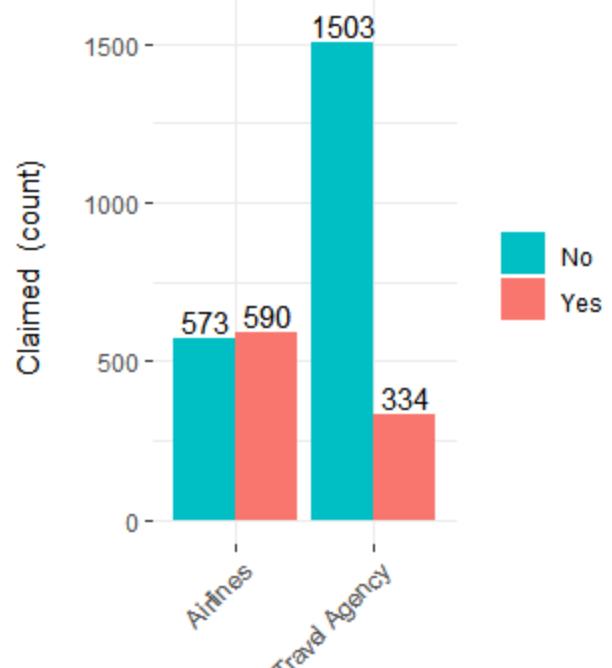
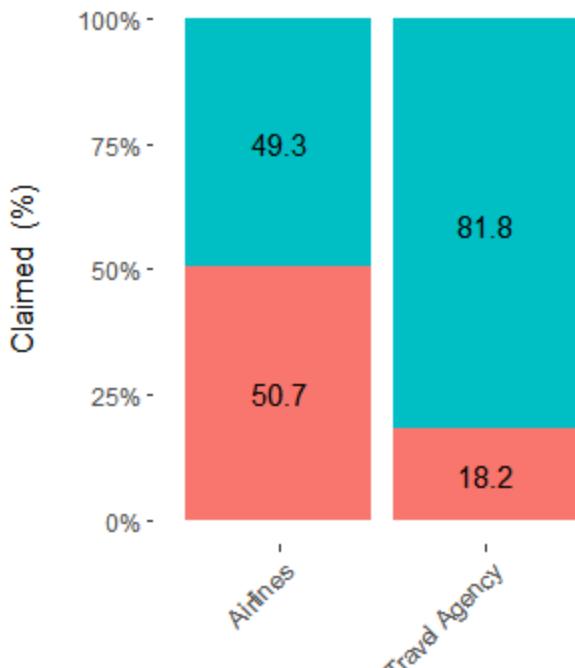
Refer source code in Appendix A for descriptive statistics and null value check.

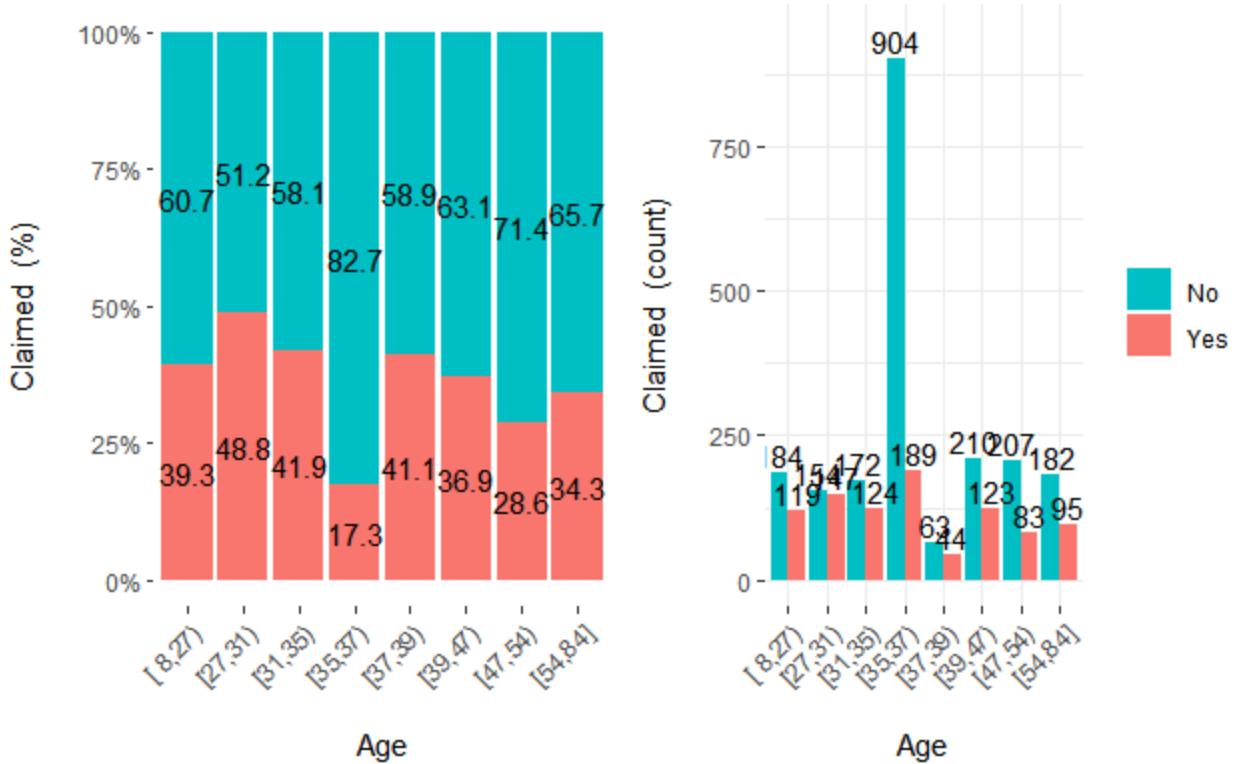
PREDICTAND IN RELATION TO EACH PREDICTORS











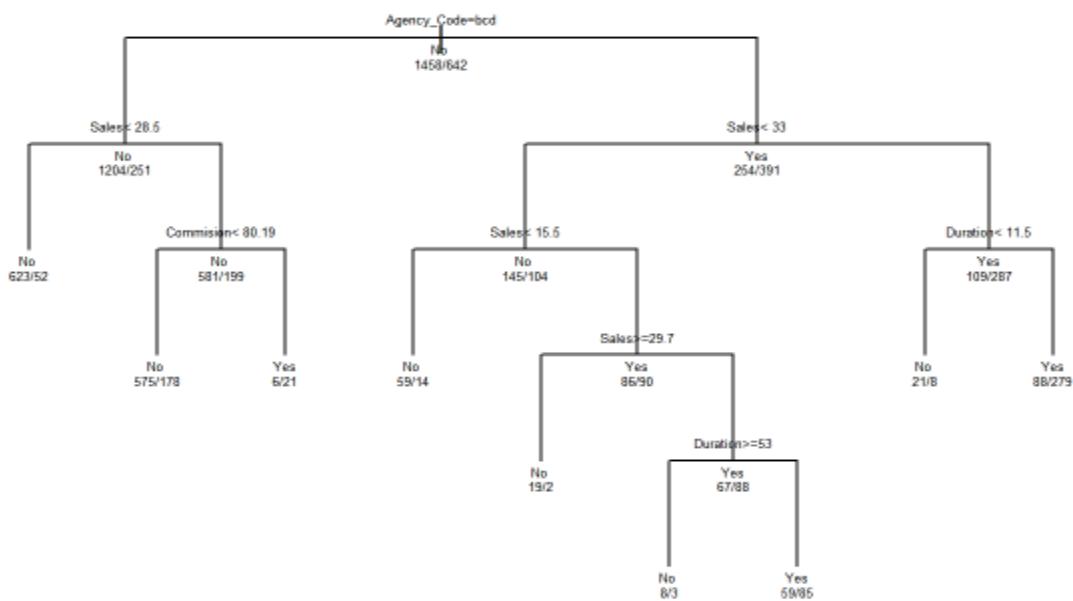
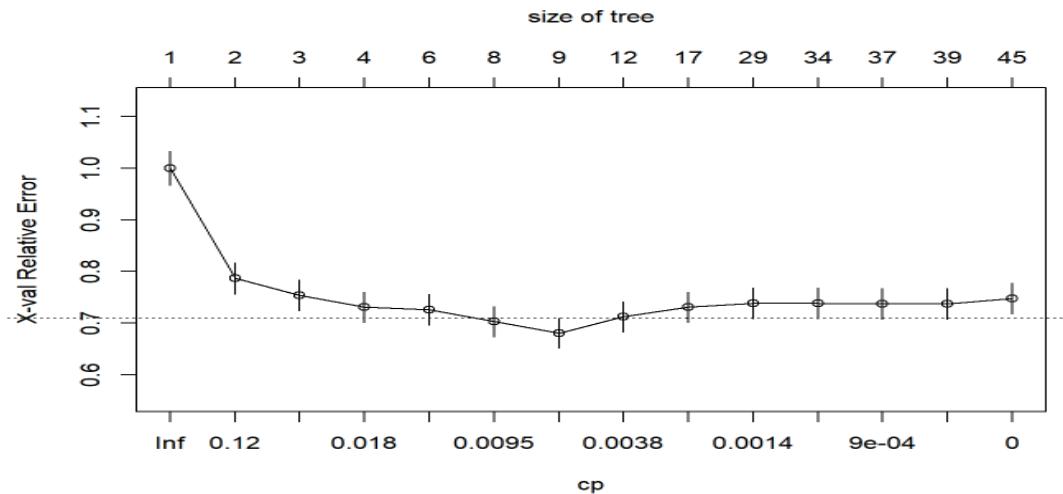
3.2 SPLITTING THE DATASET

The Insurance dataset is split into Test data and Train data. The original dataset has 3000 rows and 10 columns. After splitting the dataset, the Train data has 2100 observations with 10 variables and the Test data has 900 observations with 10 variables. The data split is made in the ratio 70:30 for Train data and Test data. Refer source code.

3.3 CART MODEL (CLASSIFICATION & REGRESSION TREES)

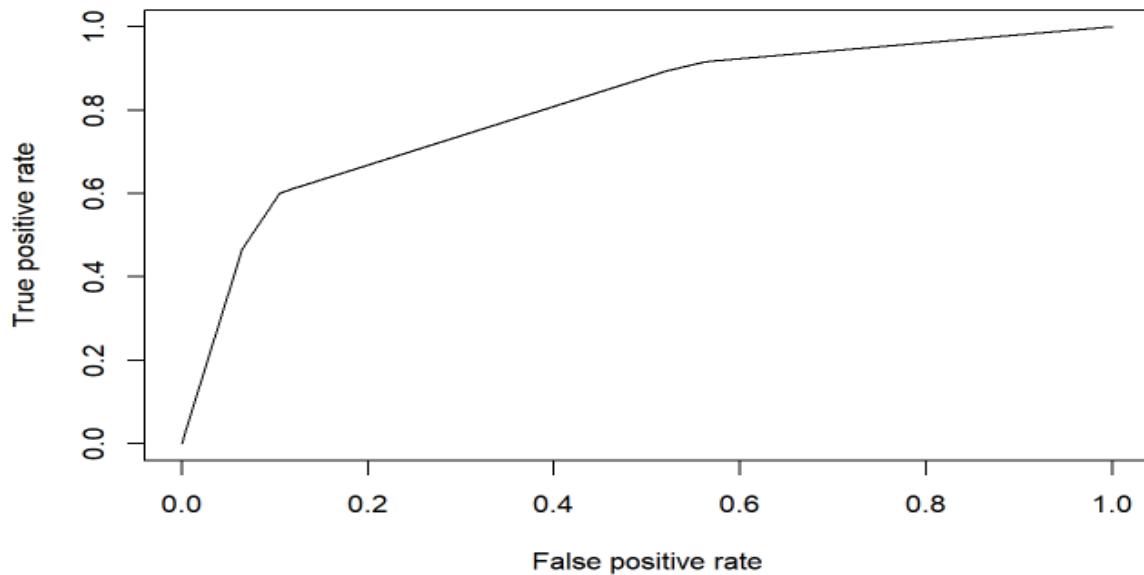
A decision tree is a supervised learning predictive model that uses a set of binary rules to calculate a target value. It is used for either classification (categorical target variable) or regression (continuous target variable).

The proportion of “no” and “yes” in the original dataset is 69.2% and 30.8%. For Train data it is 69% and 31%. Likewise for Test data it is 69.7% and 30.3%. The decision tree is generated for the dataset by specifying all the control parameters and at exact cost complexity parameter value, the tree is pruned.

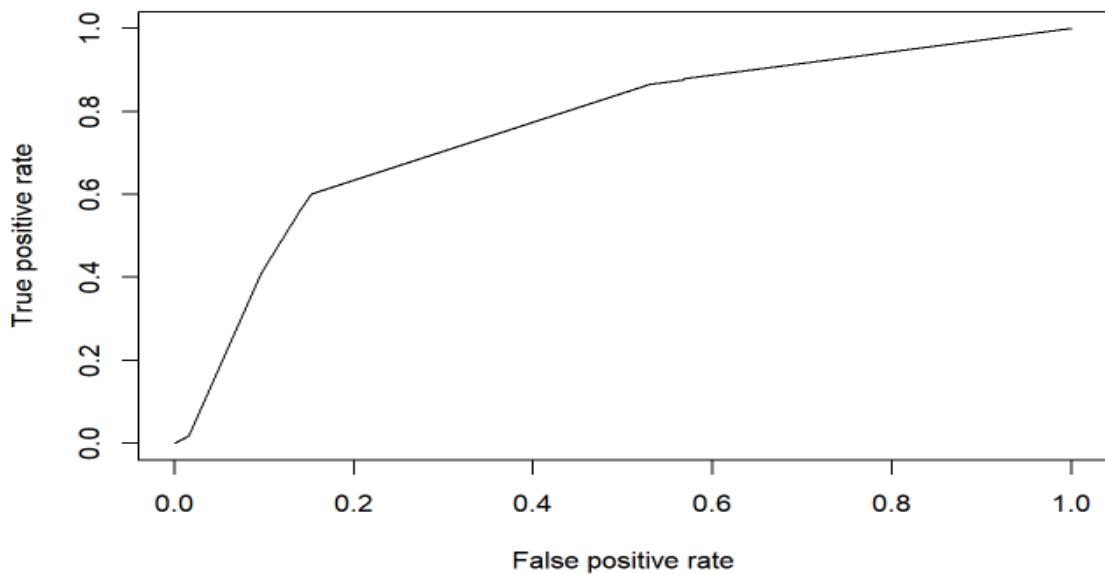


PRUNED TREE (cp value=0.05)

3.3.1 PERFORMANCE METRICS IN CART MODEL



RECEIVER OPERATING CHARACTERISTIC CURVE OF TRAIN DATA



RECEIVER OPERATING CHARACTERISTIC CURVE OF TEST DATA

CART MODEL

CONFUSION MATRIX

TRAIN DATA

```
##      y_pred
## y_true  No Yes
##   No 1305 153
##   Yes 257 385
```

TEST DATA

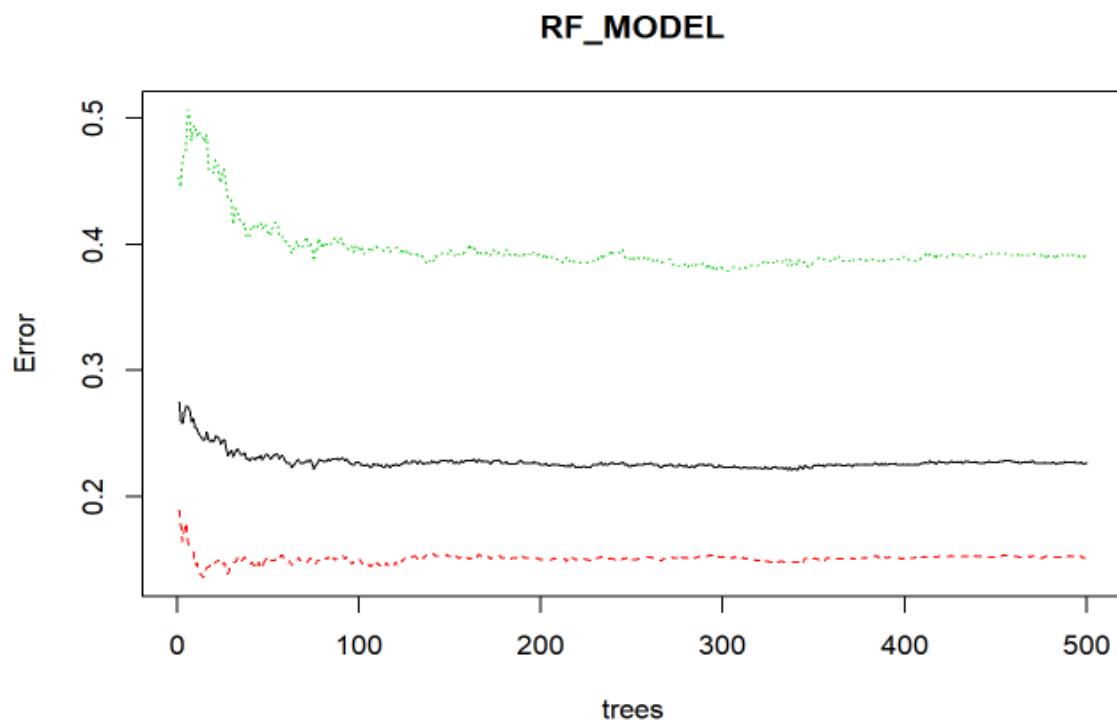
```
##      y_pred
## y_true  No Yes
##   No 531 87
##   Yes 123 159
```

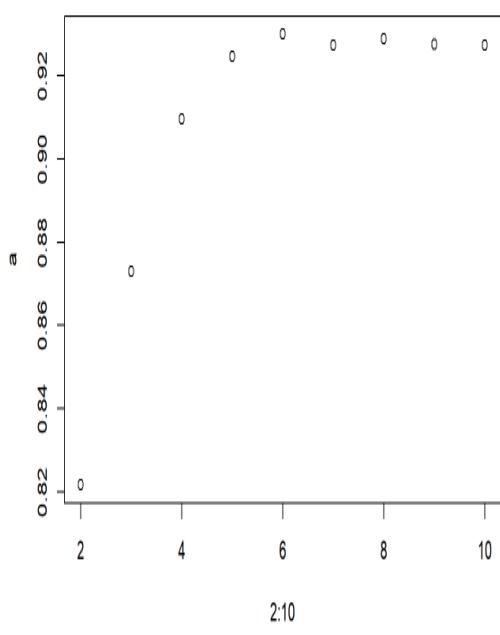
PERFORMANCE METRICS	TRAIN DATA	TEST DATA
ACCURACY	80.47 %	76.66 %
SENSITIVITY	83.54 %	81.19%
SPECIFICITY	71.56 %	64.63%
PRECISION	89.50 %	85.92 %

3.4 RANDOM FOREST

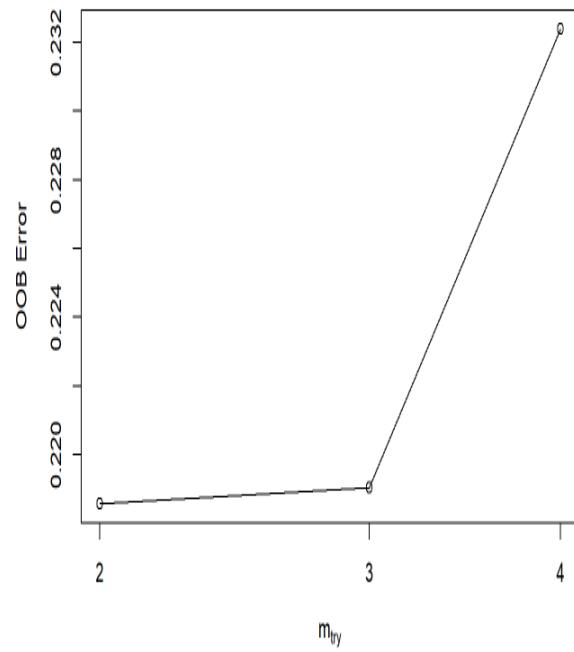
The random forest algorithm works by aggregating the predictions made by multiple decision trees of varying depth. Every decision tree in the forest is trained on a subset of the dataset called the bootstrapped dataset. The portion of samples that were left out during the construction of each decision tree in the forest are referred as Out-Of-Bag (OOB) dataset.

The proportion of “no” and “yes” in the original dataset is 69.2% and 30.8%. For Train data it is 68.7% and 31.3%. Likewise for Test data it is 70.3% and 29.7%. Random forest model is built on the given Insurance dataset and confusion matrix for Train Test data is generated. The model is fine-tuned by pre-specifying the hyper-parameters. Refer source code.





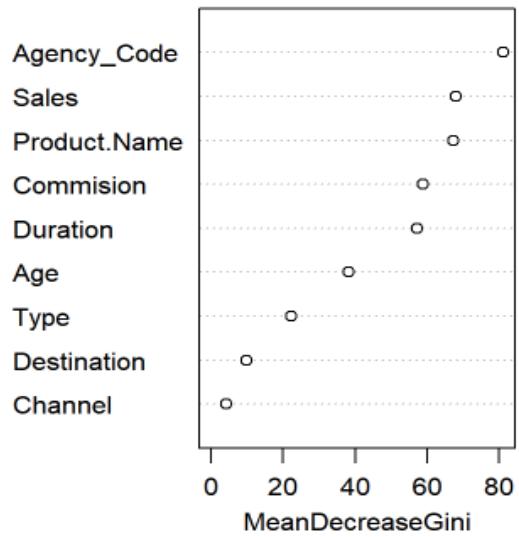
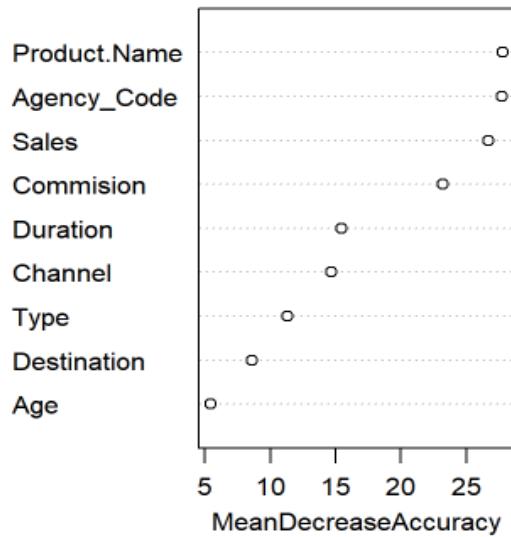
DIFFERENT MTRY VALUES AND ITS ACCURACY



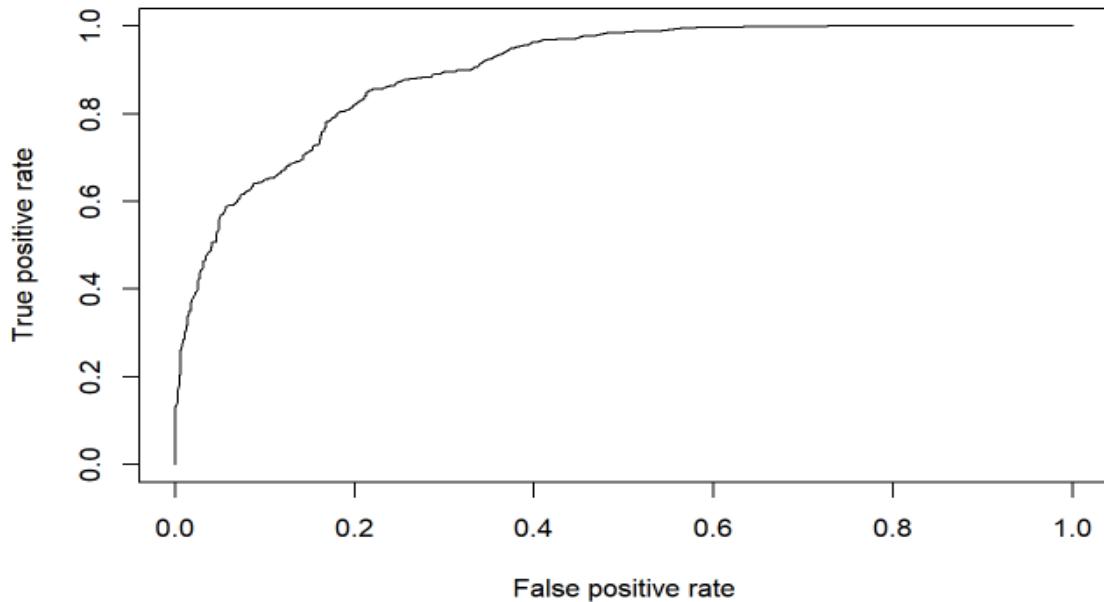
DIFFERENT MTRY VALUES AND ITS ERROR RATE

When the “mtry” value is set between 2-3, the OOB error rate reduces from 22.62% to 21.8%.

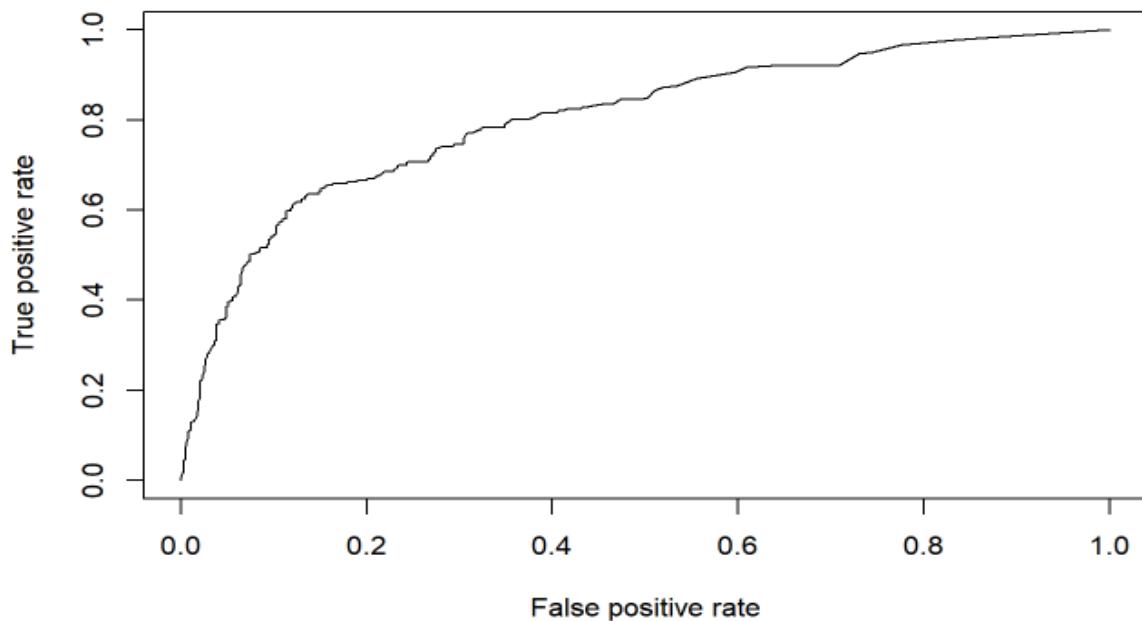
TUNED_MODEL



3.4.1 PERFORMANCE METRICS IN RANDOM FOREST MODEL



RECEIVER OPERATING CHARACTERISTIC CURVE OF TRAIN DATA



RECEIVER OPERATING CHARACTERISTIC CURVE OF TEST DATA

RANDOM FOREST MODEL

CONFUSION MATRIX

TRAIN DATA

```
##      y_pred
## y_true  No Yes
##   No 1261 182
##   Yes 210 447
```

TEST DATA

```
##      y_pred
## y_true  No Yes
##   No 554 79
##   Yes 102 165
```

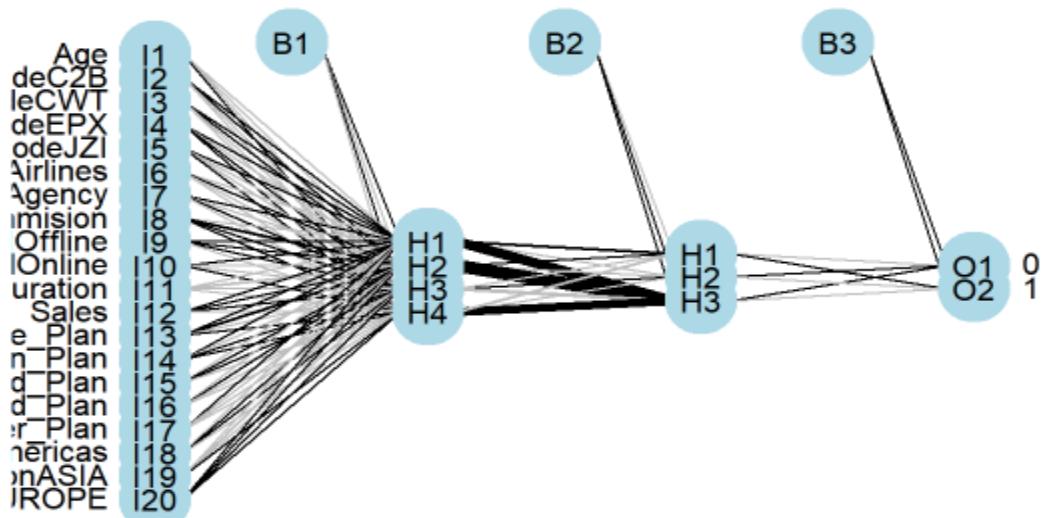
PERFORMANCE METRICS	TRAIN DATA	TEST DATA
ACCURACY	81.33 %	79.88%
SENSITIVITY	85.72%	84.45%
SPECIFICITY	71.06 %	67.62%
PRECISION	87.38 %	87.51%

3.5 ARTIFICIAL NEURAL NETWORKS

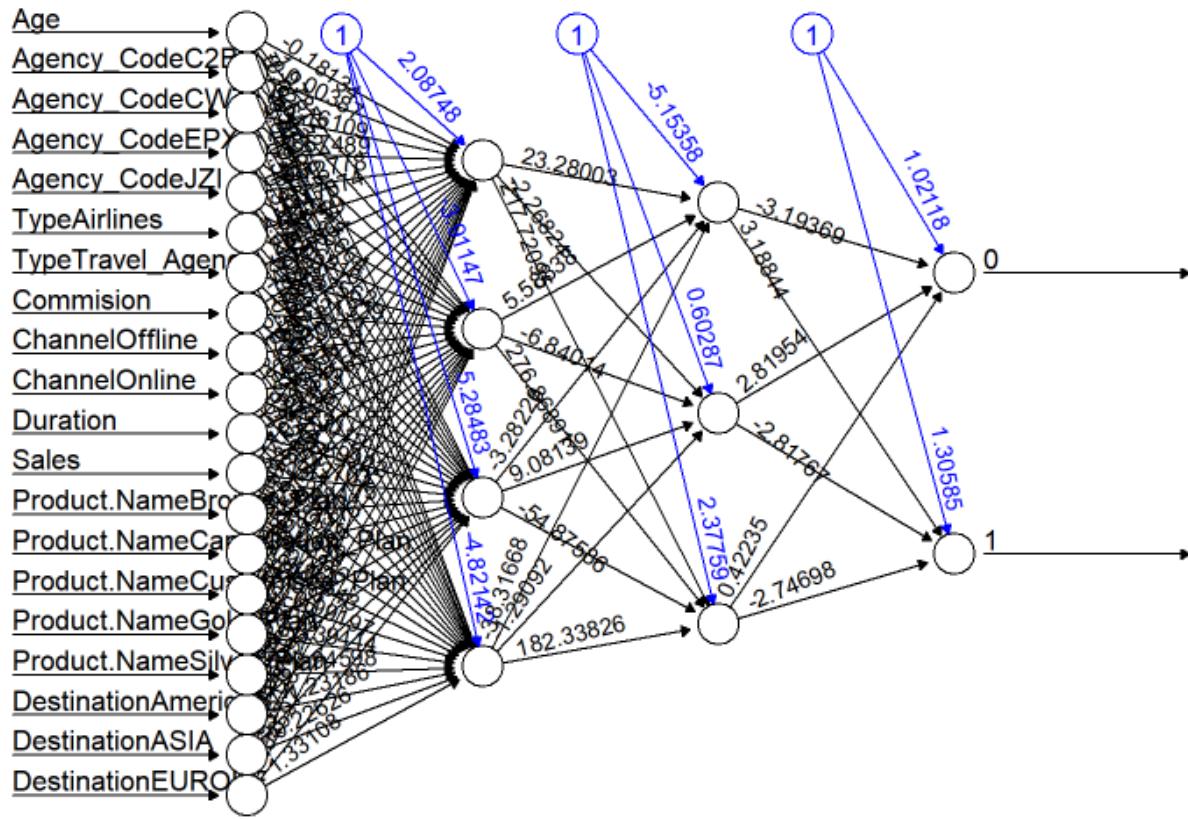
Artificial neural networks (ANN) is an information passing paradigm that is inspired by the way the biological nervous system such as brain process information. It is composed of large number of highly interconnected processing elements (neurons) working in unison to solve a specific problem.

For the given Insurance dataset, Artificial neural network model is built to predict the target variable “Claimed”.

The proportion of “no” and “yes” in the original dataset is 69.2% and 30.8%. For Train data it is 69.4% and 30.6%. Likewise for Test data it is 68.8% and 31.2%. The built ANN model’s hyper-parameters such as learning rate, error function, activation function and number of hidden layers are pre-specified. Refer source code.

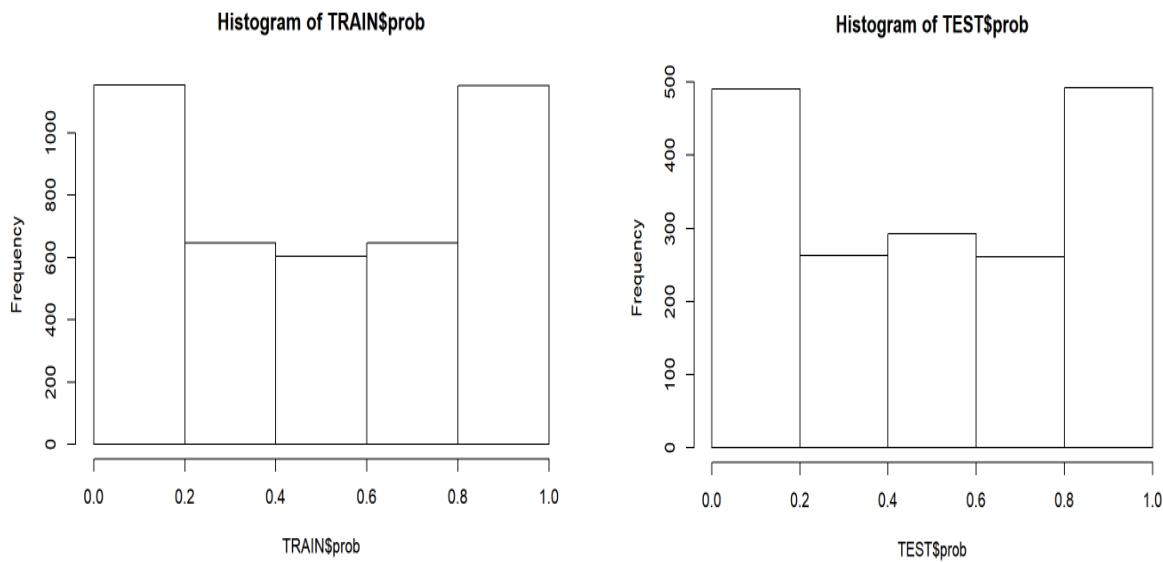


ANN MODEL FOR THE INSURANCE DATSET



DETAILED VIEW OF THE BUILT ANN MODEL

The calculated probability scores for the Train data and Test data are assigned appropriately to the binary class “0” and “1”.



3.5.1 PERFORMANCE METRICS IN ANN MODEL

ARTIFICIAL NEURAL NETWORK MODEL

CONFUSION MATRIX

TRAIN DATA

```
##      y_pred
## y_true  0   1
##      0 1286 171
##      1  249 394
```

TEST DATA

```
##      y_pred
## y_true  0   1
##      0 526  93
##      1 122 159
```

PERFORMANCE METRICS	TRAIN DATA	TEST DATA
ACCURACY	80%	76.11%
SENSITIVITY	83.77%	81.17%
SPECIFICITY	69.73 %	63.09%
PRECISION	88.26%	84.97%

3.6 COMPARISION OF THE BUILT MODELS

- The key parameter for the model evaluation is Accuracy. The Accuracy seems to be more or less the same for all the three models. The models have done a decent job of segregating the data points. Lesser the false predictions, more the accuracy.
- The Sensitivity is slightly high for a Random Forest model when compared to the CART and ANN models. It is the actual true data points identified by the model as true.
- The Specificity for CART and Random Forest is more than the Specificity value of ANN. It is the actual negative data points identified by the model as negative.
- The Precision of the CART model is slightly higher, followed by ANN. Random Forest has less Precision value when compared to the other two models. It is the positive data points identified by the model which are really positive.
- Now, in comparison to the Confusion Matrix for the three models, the TYPE-1 error for CART model is less when compared to the other models. The TYPE -2 error for the Random Forest model is less than the other two models.
- For all the built models the deviations between the Train and Test data is less than 10%. Hence the models are not over-fitted.
- The Random Forest has the best performance (best accuracy) among the three models. The percentage

deviation between Train and Test data is reasonably under control, suggesting a robust model.

- Both CART and ANN has given relatively secondary performance compared to Random Forest.
- Overall, Random Forest is the best optimized model because of its best Accuracy percentage and reasonable deviations.

3.7 INFERENCE

BUSINESS INSIGHTS AND RECOMMENDATIONS

- The Insurance industry is regarded as one of the most competitive and less predictable business spheres. It is instantly related to risk. Its dependency over statistics is predominantly met by the machine learning models.
- Though the Insurance company faces higher claims, the provided sample dataset shows the proportion of unclaimed to be more than the proportion of the claimed frequencies. Hence building models on the same makes no difference. Inorder to make better predictions some more observations are need to be analysed before making any conclusion.
- **FRAUD DETECTION** –The built models for predicting ‘Claim Status’ can be detected for any fraudulent activity, suspicious links, and subtle behavior patterns using sampling method and analyzing them.

- **PRICE OPTIMIZATION** - The algorithms give the insurers the opportunity to adjust the quoted premium dynamically. It helps to increase the customer's loyalty in long perspective.
- **RECOMMENDATION ENGINES** – The models can be built in such a way that it provides suitable travel offers, choices and preferences to its valuable customers.
- Accurate Claim Predictions done by the Machine learning models gives a chance to reduce financial loss for the Insurance Company.
- It also contributes to the improvement of the pricing models. This helps the Insurance Company to be one step ahead of its competitors.
- Insurance companies need to use comprehensive marketing strategies to attract customers. The automated marketing reaches its peak in this regard.

4. CONCLUSION

Thus two datasets are worked upon and the desired outputs are generated.

- Bank dataset – Hierarchical and k-means clustering is done for the given dataset and customers are segmented based on their similar and dissimilar behavioral patterns.
- Insurance dataset – CART, Random Forest and ANN models are built for the provided dataset and the target variable (Claim Status) is predicted using the models and their respective performance measures are recorded.

5. APPENDIX A

SOURCE CODE

5.1 HIERARCHICAL CLUSTERING

```
##### SET UP THE WORKING DIRECTORY #####
setwd("C:/Training")
pacman::p_load(stats,lattice,Hmisc,ggplot2,factoextra,cluster,summarystats,es
quisse,tidyverse,dummies,funModeling,scales,rsample,neuralnet,MLmetrics,Infor
mationValue,NeuralNetTools)
read.csv("bank_marketing_part1_Data (2) (1).csv",header = TRUE)->DATA
##### EXPLORATORY DATA ANALYSIS #####
names(DATA)

## [1] "spending"           "advance_payments"
## [3] "probability_of_full_payment" "current_balance"
## [5] "credit_limit"        "min_payment_amt"
## [7] "max_spent_in_single_shopping"

head(DATA)

##   spending advance_payments probability_of_full_payment current_balance
## 1    19.94          16.92            0.8752             6.675
## 2    15.99          14.89            0.9064             5.363
## 3    18.95          16.42            0.8829             6.248
## 4    10.83          12.96            0.8099             5.278
## 5    17.99          15.86            0.8992             5.890
## 6    12.70          13.41            0.8874             5.183
##   credit_limit min_payment_amt max_spent_in_single_shopping
## 1      3.763       3.252            6.550
## 2      3.582       3.336            5.144
## 3      3.755       3.368            6.148
## 4      2.641       5.182            5.185
## 5      3.694       2.068            5.837
## 6      3.091       8.456            5.000

tail(DATA)

##   spending advance_payments probability_of_full_payment current_balance
## 205     16.41          15.25            0.8866             5.718
## 206     13.89          14.02            0.8880             5.439
## 207     16.77          15.62            0.8638             5.927
## 208     14.03          14.16            0.8796             5.438
## 209     16.12          15.00            0.9000             5.709
## 210     15.57          15.15            0.8527             5.920
##   credit_limit min_payment_amt max_spent_in_single_shopping
## 205         3.525          4.217            5.618
## 206         3.199          3.986            4.738
```

```

## 207      3.438      4.920      5.795
## 208      3.201      1.717      5.001
## 209      3.485      2.270      5.443
## 210      3.231      2.640      5.879

describe(DATA)

## DATA
##
## 7 Variables     210 Observations
## -----
## -----
## spending
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    210      0      193        1     14.85     3.324    11.18    11.33
##    .25      .50      .75        .90      .95
##   12.27    14.36    17.30      18.99    19.54
##
## lowest : 10.59 10.74 10.79 10.80 10.82, highest: 20.24 20.71 20.88 20.97 2
1.18
## -----
## -----
## advance_payments
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    210      0      170        1     14.56     1.493    12.86    13.02
##    .25      .50      .75        .90      .95
##   13.45    14.32    15.71      16.45    16.73
##
## lowest : 12.41 12.57 12.63 12.72 12.73, highest: 17.03 17.05 17.21 17.23 1
7.25
## -----
## -----
## probability_of_full_payment
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    210      0      186        1     0.871    0.02664    0.8259    0.8375
##    .25      .50      .75        .90      .95
##   0.8569   0.8735   0.8878      0.8993   0.9053
##
## lowest : 0.8081 0.8082 0.8099 0.8107 0.8167, highest: 0.9079 0.9081 0.9108
0.9153 0.9183
## -----
## -----
## current_balance
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    210      0      188        1     5.629    0.5029    5.081    5.131
##    .25      .50      .75        .90      .95
##   5.262    5.524    5.980      6.273    6.447
##
## lowest : 4.899 4.902 4.981 4.984 5.008, highest: 6.573 6.579 6.581 6.666 6
.675

```

```

## -----
## credit_limit
##      n    missing   distinct      Info      Mean      Gmd      .05      .10
##    210        0       184        1    3.259    0.4362    2.694    2.762
##    .25        .50       .75        .90       .95
##    2.944     3.237     3.562      3.787     3.859
## 
## lowest : 2.630 2.641 2.642 2.648 2.668, highest: 3.930 3.962 3.991 4.032 4
## .033
## -----
## min_payment_amt
##      n    missing   distinct      Info      Mean      Gmd      .05      .10
##    210        0       207        1      3.7     1.704    1.468    1.789
##    .25        .50       .75        .90       .95
##    2.562     3.599     4.769      5.538     6.178
## 
## lowest : 0.7651 0.8551 0.9030 1.0180 1.1420, highest: 6.9920 7.0350 7.5240
## 8.3150 8.4560
## -----
## max_spent_in_single_shopping
##      n    missing   distinct      Info      Mean      Gmd      .05      .10
##    210        0       148        1    5.408    0.5504    4.782    4.870
##    .25        .50       .75        .90       .95
##    5.045     5.223     5.877      6.185     6.273
## 
## lowest : 4.519 4.605 4.607 4.649 4.703, highest: 6.449 6.451 6.453 6.498 6
## .550
## -----
## 

attach(DATA)
min(DATA)

## [1] 0.7651

max(DATA)

## [1] 21.18

summary(DATA)

##      spending      advance_payments probability_of_full_payment current_balance
## Min.   :10.59      Min.   :12.41      Min.   :0.8081          Min.   :4.89
## 1st Qu.:12.27      1st Qu.:13.45      1st Qu.:0.8569          1st Qu.:5.26
## Median :14.36      Median :14.32      Median :0.8734          Median :5.52

```

```

4
##  Mean    :14.85   Mean    :14.56   Mean    :0.8710          Mean    :5.62
9
##  3rd Qu.:17.30   3rd Qu.:15.71   3rd Qu.:0.8878          3rd Qu.:5.98
0
##  Max.    :21.18   Max.    :17.25   Max.    :0.9183          Max.    :6.67
5
##  credit_limit  min_payment_amt  max_spent_in_single_shopping
##  Min.    :2.630    Min.    :0.7651   Min.    :4.519
##  1st Qu.:2.944    1st Qu.:2.5615   1st Qu.:5.045
##  Median :3.237    Median :3.5990   Median :5.223
##  Mean    :3.259    Mean    :3.7002   Mean    :5.408
##  3rd Qu.:3.562    3rd Qu.:4.7687   3rd Qu.:5.877
##  Max.    :4.033    Max.    :8.4560   Max.    :6.550

summarytools::view(dfSummary(DATA))

## Switching method to 'browser'

## Output file written: C:\Users\sachi\AppData\Local\Temp\RtmpsxyXyF\file415c
490f1718.html

##### UNIVARIATE ANALYSIS #####
funModeling::plot_num(DATA)

```

```

##### AMOUNT SPENT BY CUSTOMER PER MONTH IN 1000's
boxplot(spending,col="blue")

plot(density(spending,main="SPENDING"))

##### AMOUNT PAID IN ADVANCE BY CASH IN 100's
boxplot(advance_payments,col="red")

plot(density(advance_payments,main="ADVANCE PAYMENTS"))

##### PROBABILITY OF FULL PAYMENT DONE BY THE CUSTOMER
boxplot(probability_of_full_payment,col="ORANGE")

plot(density(probability_of_full_payment,main="PROBABILITY OF FULL PAYMENT"))
##### CURRENT BALANCE LEFT IN THE ACCOUNT IN 1000'S
boxplot(current_balance,col="CORAL")

plot(density(current_balance,main="CURRENT BALANCE"))

##### LIMIT OF THE AMOUNT IN CREDIT CARD IN 10,000'S
boxplot(credit_limit,col="MAROON")

plot(density(credit_limit,main="CREDIT CARD LIMIT"))

```

```

##### MINIMUM AMOUNT PAID BY THE CUSTOMER FOR PURCHASES
boxplot(min_payment_amt,col="GREEN")

plot(density(min_payment_amt,main="MINIMUM AMOUNT PAID BY THE CUSTOMER"))

##### MAXIMUM AMOUNT SPENT IN ONE PURCHASE IN 1000's
boxplot(max_spent_in_single_shopping,col="BROWN")

plot(density(max_spent_in_single_shopping,main="MAXIMUM AMOUNT SPENT IN SINGLE PURCHASES"))

##### BI-VARIATE ANALYSIS #####
histogram(spending,current_balance,col="violet",xlab = "AMOUNT SPENT PER MONTH",ylab="BALANCE AMOUNT LEFT",main="AMOUNT SPENT VS CURRENT BALANCE IN THE ACCOUNT")

histogram(advance_payments,max_spent_in_single_shopping,xlab = "ADVANCE PAYMENTS",ylab="MAXIMUM AMOUNT SPENT PER PURCHASE",main="ADVANCE PAYMENTS VS MAXIMUM AMOUNT SPENT")

##### CHECK FOR OUTLIERS #####
boxplot.stats(DATA$spending)$out
## numeric(0)

boxplot.stats(DATA$advance_payments)$out
## numeric(0)

boxplot.stats(DATA$probability_of_full_payment)$out
## [1] 0.8099 0.8081 0.8082

boxplot.stats(DATA$current_balance)$out
## numeric(0)

boxplot.stats(DATA$credit_limit)$out
## numeric(0)

boxplot.stats(DATA$min_payment_amt)$out
## [1] 8.456 8.315

boxplot.stats(DATA$max_spent_in_single_shopping)$out
## numeric(0)

```

```
##### CALCULATING PAIR-WISE DISSIMILARITY MATRIX
DISTANCEMATRIX=get_dist(scale(DATA),method = "euclidean")
DISTANCEMATRIX
```

##	1	2	3	4	5	6	7
## 2	4.8153744						
## 3	1.4045495	3.4306871					
## 4	7.4000597	5.4557117	6.5679224				
## 5	2.8349104	2.3063107	1.6110597	6.4029444			
## 6	7.0789839	4.0921639	5.9781091	4.1996999	5.7549861		
## 7	6.1830870	3.6880134	5.1791230	1.9562875	4.7448454	3.3703228	
## 8	5.6513286	2.2240634	4.4528724	3.7018741	3.5960800	3.8411509	2.0467081
## 9	1.5885232	3.8133467	1.1600406	5.9643133	2.0942629	6.0967653	4.7267716
## 10	6.9683786	3.9536895	5.8944382	1.9462804	5.3302178	3.3094047	0.8978988
## 11	2.2323222	3.0359999	1.2648624	6.5181978	0.9048083	6.2546906	5.0057401
## 12	4.7235394	2.7704907	3.6871426	3.1018618	3.3978488	3.7327750	1.7128939
## 13	6.0130567	3.7370596	5.0472932	1.9962695	4.6087652	3.8517425	0.5327856
## 14	1.1876857	4.3580639	1.3845244	6.7245808	2.3203463	6.8671203	5.4702365
## 15	6.5303146	2.9493682	5.3547719	3.6906312	4.3312095	4.2080955	2.0273966
## 16	6.3039517	2.8129825	5.1028646	3.2497693	4.5414577	2.0207213	1.7840862
## 17	4.5038427	1.4868269	3.2604347	5.8791138	1.8207409	5.3344029	4.1172854
## 18	7.2420573	4.0130403	6.1317385	2.2845332	5.5330587	3.0033462	1.3055501
## 19	5.6490962	2.5194110	4.4834005	3.0063012	3.8798950	3.0419805	1.2545718
## 20	5.7713943	3.3554172	4.7555226	2.4021763	4.2254682	3.9335686	0.8199748
## 21	6.3271470	3.1983703	5.1970101	2.4376770	4.5713440	3.3061875	0.9003345
## 22	5.5748701	3.4821002	4.5893142	2.2331881	4.4188572	2.9122180	1.0771622
## 23	2.5999395	2.4718749	1.3955132	6.4371401	0.2905507	5.7662246	4.7922255
## 24	5.8549763	3.3912157	4.8362111	2.3351186	4.3086039	3.9050140	0.8032912
## 25	4.6463391	0.7970974	3.3229142	4.9770218	2.2706650	4.0142467	3.1712681
## 26	3.6231816	2.3179888	2.4945096	4.6298121	2.4760830	3.6238061	3.0971153
## 27	6.4407598	3.0385420	5.2929534	4.0369268	4.2120864	4.9157444	2.5814053
## 28	7.3894760	5.4114617	6.5405908	1.1205408	6.4911847	3.3800429	2.1924682
## 29	7.0486822	4.6431727	6.1005003	1.0453528	5.7202205	3.8965867	1.1443560
## 30	7.5416010	4.6356995	6.4882499	2.7329997	6.2158762	1.6767070	2.4317320
## 31	5.5507234	2.0763950	4.3361383	3.7230420	3.4949236	3.6993939	2.0329234
## 32	6.6108120	3.6224839	5.5286018	2.2043930	4.8950066	3.6395136	0.8171300
## 33	5.9772030	3.1898338	4.8910015	2.3159543	4.4127350	3.0600691	0.6159565
## 34	4.7995726	1.8468677	3.6049682	5.8211096	2.1779125	5.5771607	4.1013355
## 35	6.6215745	4.4342102	5.6965201	1.0666919	5.4049966	3.8043789	1.0240631
## 36	7.1526770	5.0054663	6.2594036	0.7986334	6.0845727	3.4316897	1.5842900
## 37	7.3610914	4.3693088	6.2887522	2.2469412	5.9060159	2.2297772	1.7787604
## 38	6.2825048	3.3091803	5.1719926	2.5656947	4.7367769	2.2759256	1.1498851
## 39	6.5803134	4.8206802	5.7533807	0.8444833	5.6202676	3.9556042	1.3941984
## 40	1.0709743	3.8547704	0.5419376	6.8725493	1.8949415	6.4690520	5.5482474
## 41	1.6989999	3.3788949	0.8263000	6.5306549	1.2765578	6.2992412	5.0990080
## 42	5.8063292	1.6041739	4.5084143	4.7918665	3.3125244	4.2735269	3.0625737
## 43	2.4168727	3.0915606	1.5122070	5.0961410	2.0556305	5.0428047	3.7966943

```

## 44 0.7273289 4.2703750 0.9060813 7.3063072 2.2703916 6.8185172 5.9978411
## 45 7.3861564 5.4757742 6.5616072 0.2120604 6.4290540 4.0853678 1.9879209
## 46 7.2500126 3.6864505 6.0872470 2.7849948 5.3279945 3.2618273 1.5589098
## 47 5.9108185 3.1449869 4.8609275 4.0052441 3.8618309 5.1928562 2.5332428
## 48 1.3522299 3.7325854 0.8495990 6.9181597 1.5964043 6.5847862 5.4940910
## 49 2.7542499 2.6680988 1.5929544 6.8435019 1.7412253 5.3072322 5.2929174
## 50 2.2412377 2.7572405 0.9885426 6.5742093 0.7571363 5.9201271 5.0419288
## 51 6.0237947 3.4760504 4.9966636 2.2044530 4.4916381 3.8052360 0.8582095
## 52 2.7385783 2.9372869 1.6711569 6.5071809 2.2544242 4.9094610 5.0831172
## 53 2.1291961 3.1793569 1.0796153 6.9190825 1.8347663 5.6520133 5.4587026
## 54 1.5136669 3.6248333 0.7134033 6.4717013 2.0433893 5.9933031 5.2214377
## 55 1.6409287 3.2025248 0.4395945 6.5779924 1.3642925 5.8746344 5.1046666
## 56 3.0335014 2.2067287 1.8295967 5.1190470 1.6294204 4.4711782 3.5197622
## 57 6.3853607 3.3330232 5.2605559 2.4621455 4.8247250 2.3015216 1.2083174
## 58 6.4124816 3.8712505 5.3995963 1.8231944 5.0543487 2.8698002 0.6584355
## 59 7.3816712 4.6259184 6.3642624 1.3961636 5.9740447 3.1630155 1.3832241
## 60 1.6676455 3.6349315 0.9891351 5.9931104 2.3064118 5.5054407 4.7763071
## 61 4.8334183 1.5062794 3.5827401 4.3159093 2.6275431 4.1141991 2.5665554
## 62 7.1930281 3.9701102 6.0824879 2.1704506 5.5256866 2.8935874 1.3090862
## 63 7.0916958 4.2231788 6.0461534 1.6198570 5.5303674 3.5313126 1.0135717
## 64 4.3387046 2.1659312 3.1871267 3.8138313 2.9119468 3.3666986 2.2973079
## 65 5.0169983 2.4035170 3.9164648 4.3625852 2.9109096 4.9999508 2.7469668
## 66 2.0279998 3.1898026 1.0765693 7.0803264 1.2107260 6.1474669 5.4901603
## 67 0.9328510 4.7954288 1.5198654 7.4333514 3.0830859 6.7644360 6.2634657
## 68 5.3594673 1.4260064 4.0776631 4.4579603 2.9985291 3.9739426 2.6553779
## 69 1.4384664 3.4650148 0.3721822 6.8581834 1.5006487 6.1915398 5.4186610
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## 194 0.8418686 1.7038966 5.7624982 5.3026454 4.2060032 1.4251884 1.7434582
## 195 2.8006652 4.1382907 5.1659966 3.6717149 1.8639487 3.3742392 3.3855265
## 196 1.5798966 3.0636639 4.9715922 4.4910478 4.2715724 2.9212700 2.1083662
## 197 1.8924634 1.3643250 6.7815776 5.9868695 4.7557457 1.0398261 1.1565962
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## 200 4.6011410 6.7502559 1.3981139 3.0373271 4.5169245 6.4927621 6.0998529
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## 203 2.2692783 4.0773982 4.3031662 2.9825395 2.1170471 3.4552303 3.1168032
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## 205 1.5887407 3.1080124 4.9843830 4.0426888 3.4603965 2.7141518 1.9255155
## 206 3.5840728 5.3696452 4.0696137 2.1477176 2.4586835 4.8095607 4.0167115
## 207 1.0109468 2.8776517 4.6272819 4.4627279 3.9574586 2.7109575 2.4352989

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## 208 3.3506166 5.0346883 4.3823934 2.6379724 1.0859138 4.3117487 4.1697216
## 209 2.3483559 3.4821713 5.5323633 4.0525282 2.7490558 2.7770254 2.4420038
## 210 1.3248900 3.3004921 4.2950627 4.1329655 2.7979404 2.7692889 3.4577810
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## 87 1.5274711 3.6310451 2.7630954 2.4976863 2.0306391 1.6699553 1.3239520
## 88 2.6414605 2.7315711 2.5444152 2.8386219 2.6527113 2.4922171 1.0364965
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## 93 2.7035948 2.3177488 3.4927273 3.5411065 3.2261913 3.0126085 1.9672436
## 94 5.9941125 1.3090616 6.2591745 6.5682838 6.1509707 6.1349673 4.6712723
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## 127 0.9318976 4.9423359 1.7950174 1.3555077 2.0372886 1.1935896 1.7333138
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## 131 5.6273880 1.1348920 5.7306846 6.0924288 5.7963549 5.7271577 4.1586762
## 132 2.8783400 2.1072582 3.6701145 3.7211498 3.3924993 3.1679633 1.9921473
## 133 5.1068753 2.3987763 5.2769318 5.6279069 5.7659154 5.4305719 4.0029950
## 134 2.3636451 5.4145540 2.7079126 2.3040752 1.3756501 1.7825945 2.7155146
## 135 5.4299250 1.0990714 5.3176607 5.7642241 5.5091853 5.5024597 3.9636869

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## 136 1.7117329 4.1370271 1.8532142 1.7694728 1.1216227 1.2885075 1.3646566
## 137 2.9473728 5.2997118 1.6300163 2.0089789 2.0170826 2.4379175 2.7517952
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## 64 2.1584942 2.4498741 3.3441820 2.8097264 1.4797962 2.9625290 3.0600322
## 65 3.1696542 3.2812273 3.9463070 3.9900541 1.0781929 3.4195699 3.2845866
## 66 5.5304428 5.7289048 6.7056625 1.9592831 3.6336322 6.3263906 6.3530999
## 67 6.3150931 6.4114386 7.3677058 1.5021800 4.9647708 7.1842795 7.1468559
## 68 2.5577751 2.9845889 3.6587422 4.1324726 0.6641478 2.9537313 3.1272525
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## 70 1.4969939 1.8931160 2.2552416 5.1948642 1.9963539 1.4470639 1.7670952
## 71 2.3499187 2.6274775 3.3134034 4.2724776 0.9199271 2.6645998 2.7552744
## 72 0.7456963 1.1470569 1.7163849 4.7599847 2.0568476 1.0663231 1.3416766
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## 196 3.2199787 3.4439110 3.6682161 2.3447911 2.6101133 2.4155992 2.8437325
## 197 4.0385838 5.0258959 1.9222537 1.6447895 4.6420023 0.3441066 3.2319506
## 198 2.3277461 0.8352071 6.5380228 5.6532351 0.9492775 5.2308944 3.1962041
## 199 4.5596851 5.2662829 1.2512504 1.5685629 4.7413717 1.3367187 3.3784296
## 200 4.1129547 2.5689079 7.0973744 6.2625372 1.9625502 6.2170756 4.2673792
## 201 1.5196240 2.8820421 4.8113571 5.0230114 3.6379782 3.6307172 1.4126916
## 202 2.6861556 3.8671619 3.4368881 2.9316791 3.7998291 1.6721964 2.4497484
## 203 1.1359263 2.1018761 4.3661753 4.0297792 2.3539572 3.0209691 1.1254318
## 204 3.5332068 1.8466832 7.3927303 6.4561547 1.6271603 6.2341607
4.1577530## 205 2.3981382 3.0457181 3.6098818 2.7341284 2.6389058 2.0730618
2.0647229
## 206 1.3248567 1.4826520 5.7483264 5.0593332 2.1206688 4.2481365 2.3702866
## 207 3.2078487 3.3754775 3.3617541 2.4694942 2.6326510 2.3826785 2.4239687
## 208 0.8398889 2.1622924 5.1810657 5.1846339 3.0406015 3.9472992 1.3594484
## 209 1.9019491 3.2816863 3.7531705 3.6025199 3.4735399 2.2439648 1.6849667
## 210 2.7090116 3.2171939 3.3462600 3.6657189 3.0869461 2.8300815 1.3014102
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## 83 3.5692361 2.8711088 1.6886782 1.3864929 1.5894510
## 84 6.2193740 2.1672695 4.3125098 4.6748196 5.3678290 4.5818080
## 85 1.7843811 4.8748166 3.8574159 3.4577463 2.9538460 3.0291058 6.4184310
## 86 2.5840078 2.1172707 2.8920049 1.7651205 2.9589053 1.8047650 3.8940067
## 87 4.8119099 1.3244927 3.3523044 1.9334716 4.0050562 2.5978398 3.2427571
## 88 3.6896676 1.0499929 3.1207709 2.2658037 3.6357347 2.4647787 2.8222145
## 89 3.5778432 1.1295629 3.2663413 2.2130294 3.7383754 2.5287317 2.9029044
## 90 4.3527618 4.2490467 3.8746765 5.0451687 4.0899896 4.2752141 4.3095453
## 91 5.1258706 3.8635019 1.8393552 4.2632116 2.4808295 3.1244079 4.0932857
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## 93 3.8615997 2.0488328 2.0970435 1.1554656 2.4578905 1.0017142 3.8772100
## 94 1.5350760 4.7897397 4.0044286 3.0616543 3.0932731 2.8739764 6.5218111
## 95 3.2842049 3.8296542 2.1063803 2.8069040 1.5498536 1.9231971 5.1792590
## 96 6.1616899 1.7321480 3.5655313 3.5773471 4.6531385 3.6862887 2.0274622
## 97 6.5211277 2.5785858 5.0481404 3.7799238 5.8598903 4.5164033 3.5011365
## 98 3.8210885 0.8242911 3.2916864 2.2807551 3.8418294 2.6134662 2.6932584
## 99 1.2741637 4.9858752 4.4216913 3.7417053 3.6234074 3.4989109 6.5161497
## 100 4.9972365 0.5181346 3.6056229 2.8510441 4.4333372 3.2091520 2.0574777
## 101 3.4470836 3.0215478 1.7893325 2.8512633 1.8985422 1.9089431 4.0986446
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## 104 6.1857288 1.6131856 4.0948207 3.8321959 5.1287699 4.0440970 1.6829932
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## 119 1.9982406 4.5187187 3.8126809 3.8250871 3.2192644 3.2794837 5.7424615
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## 122 0.8260199 4.5602480 4.3141272 3.1103902 3.5753517 3.1135700 6.2785394

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## 123 2.7835920 3.4664050 2.5028197 3.0014580 2.2273186 2.2476088 4.6643818
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## 132 3.6442583 2.1408089 2.1992255 0.8366906 2.4357077 0.9468726 4.0568386
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## 135 1.5371783 4.0616875 3.5026422 3.1293741 2.8980952 2.7010677 5.4982838
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## 137 5.7561607 2.3488068 5.2520206 4.7713143 6.0628191 5.0090620 1.7405379
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## 143 1.7582810 4.6509942 3.7215386 3.0402274 2.8329599 2.7502769 6.3121277
## 144 2.6621275 4.3538803 2.8047789 2.8959080 1.8928829 2.2000402 5.8710063
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## 152 2.5671240 3.7066238 2.4429465 2.7053612 1.8456706 1.9055263 5.1144425
## 153 4.1710330 2.1247585 1.2772781 1.9839050 2.0238240 1.1956933 3.5092165
## 154 4.2096733 1.1584362 2.5794913 1.6915358 3.2180791 1.9011760 3.0505966
## 155 3.3739208 4.7780068 2.5572121 3.2061889 1.3520905 2.2237703 6.2215057
## 156 5.5505854 3.9231824 0.9407919 3.4256712 1.7482192 2.3111758 4.7639240
## 157 2.8004689 3.4323884 2.0455654 2.2060060 1.4521614 1.2085490 4.9584076
## 158 1.4662262 4.6354709 4.0742732 3.6595150 3.3855684 3.2991477 6.0435793
## 159 4.4440311 2.1666109 1.6419794 1.6774157 2.3103506 1.2169310 3.7283042
## 160 5.0294011 0.6163439 3.7221730 2.7952461 4.5212833 3.2336439 2.2407931
## 161 7.3481071 2.9772557 5.6693418 5.4045049 6.7276874 5.6792428 1.8839385
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## 164 4.6861160 0.5358951 3.5102788 2.9702491 4.3022381 3.1640784 1.8447360
## 165 5.8458562 1.5777476 4.1559982 3.1926579 5.0265249 3.7571293 2.6693015
## 166 2.2896242 4.1467280 3.2391031 3.3967414 2.6868396 2.7947321 5.4144915
## 167 4.0532086 1.1213987 2.6605137 2.5825106 3.3530730 2.3747392 2.4334607
## 168 4.0565796 1.9840920 1.9544190 1.2249106 2.4289408 1.0724869 3.7836570

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## 169 4.2637767 3.9147437 1.0891541 3.0133653 0.6905894 1.7943883 5.0586732
## 170 2.1685882 4.6485812 3.7280187 2.5991641 2.8117433 2.5223900 6.4918864
## 171 4.9729231 2.4137210 2.3991265 1.7407789 2.9959884 1.8118081 4.0487471
## 172 1.0132425 4.5076587 4.4186839 3.5816888 3.8199706 3.4704879 5.9954818
## 173 4.3933227 2.9523606 0.5754830 2.3204094 1.3174367 1.1677539 4.1989247
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## 175 6.5621188 2.6417717 5.2713220 3.9968073 6.0784479 4.7106663 3.4379726
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## 181 3.8269035 2.7155290 2.0428831 0.9202469 2.1054438 0.7666287 4.5708286
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## 184 3.2207616 2.7139005 2.1214057 1.0169468 1.9892939 0.5156077 4.5602451
## 185 5.0302702 1.0089763 2.8504510 2.4398557 3.7483582 2.6138403 2.4836995
## 186 4.1918392 0.8350449 3.8083833 2.7979591 4.4208405 3.1838689 2.3953397
## 187 3.0902210 4.7999679 3.2098758 2.7519349 2.1737025 2.2145427 6.5053116
## 188 3.7280291 1.6174051 2.1233581 1.7531044 2.6334214 1.4323788 3.2766559
## 189 4.5411460 3.8623474 0.7957078 2.9844803 0.7028738 1.7363316 4.9864245
## 190 0.4572176 4.6596455 4.8081800 3.3539377 4.1504577 3.5448721 6.3797156
## 191 4.0593225 4.9208623 2.3516313 3.4318036 1.2343685 2.4038173 6.2726001
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## 193 1.1348054 3.7889802 3.8394818 2.8308753 3.3520439 2.7834997 5.3921683
## 194 5.1325968 0.8143949 3.8873222 2.9704478 4.6970104 3.4362872 2.1862668
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## 196 4.5303334 1.0934895 3.5278172 3.3066415 4.2901142 3.3385666 1.7798774
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## 200 1.6210948 4.5781790 4.8517870 4.2576521 4.4414425 4.0866147 5.7491216
## 201 4.4838060 3.0686136 1.6949066 1.7177910 1.9277728 1.0560601 4.6588463
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## 205 4.4914770 0.9306635 2.5933333 2.6371335 3.4501643 2.5058791 2.1548801
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## 209 5.0387858 1.8707302 1.9057779 2.2736674 2.8830030 1.9833551 3.1489888
## 210 3.6217766 1.6717129 3.5278880 1.3471690 3.8210152 2.3340648 3.8203606
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## 99  0.7576063 2.9319892 5.2154293 4.0129842 4.0758460 3.9970296 4.6490846
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## 103 4.1818828 2.2442269 2.2755592 1.8567513 2.0555040 3.5313210 2.2299611
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## 105 4.7170175 3.1050087 2.5501593 3.0439011 3.0969808 4.7873164 2.8672718
## 106 6.5255827 3.7591040 2.6956100 2.6595350 2.6430666 5.4081000 5.4934062
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## 124 1.8676510 1.5636619 3.3259058 2.5484580 2.6221282 4.2206523 4.1268829
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## 164 2.9412684 2.3466183 4.9877921 4.0585927 1.8177794 2.7234979 0.9439658
## 165 2.9593471 2.8425390 5.9376983 4.9683768 1.2458016 1.1687768 2.2194073
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## 192 4.0424607 4.4471215 2.3243840 1.6367537 3.4739335 1.8747389 0.6377202
## 193 5.2451797 5.0600171 2.1029587 2.6005863 5.3533868 2.9261169 2.6801933
## 194 1.5484443 2.3253833 3.9426691 4.3309896 1.3355692 1.8579362 2.9768045
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## 197 1.9113350 3.0280132 4.7940669 4.8922888 0.7619293 2.7668275 3.5403664
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## 209 3.6380726 4.3942526 3.9552858 3.1015909 2.5229389 2.0099363 1.6355538
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## 125 5.0196145 2.5487695 3.8143547 2.7560349 0.8272167 2.8896360 3.0403353
## 126 5.0289738 3.3277945 4.4564717 2.7140416 1.6388337 3.6248342 3.8374268
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## 128 6.7016522 1.5960077 1.1035313 4.6087965 3.3519604 3.2237353 0.5013507
## 129 5.0666184 2.7336627 4.1250930 3.0354175 0.7276724 2.6957648 3.1945998
## 130 4.9338435 2.8553877 4.2829647 3.0394090 0.9092260 2.6511317 3.3563109

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## 135 6.2710156 1.3653425 1.5013254 4.0894424 2.8051428 2.9517912 0.7895906
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## 177 4.4549517 2.3042960 3.9162470 2.4921173 1.2476207 2.2477573 3.0590022
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## 150 6.3324460 2.6308184 1.4412793 1.1339069 1.3503837 2.1785896 2.9798325

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## 188 4.3144212 2.9569413 3.5554985 2.4183285 2.4663646 1.1416238 1.2723006
## 189 6.5003331 1.8559786 4.0059231 2.3175120 3.1038215 1.8542231 2.4595880
## 190 7.1904571 3.4043107 0.6455333 2.8879557 1.8319441 3.3652406 3.7807027
## 191 7.7320101 1.2922229 3.3748498 2.3754404 2.8844037 2.5490769 3.2191762
## 192 4.9420357 2.5734385 3.1366514 1.6120254 2.1594068 0.9444341 1.6387964
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## 195 4.9289196 2.6020002 4.2602151 3.2221444 3.0075416 1.4149734 1.0504075
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## 197 1.9766579 5.4358156 6.1347280 4.9287560 4.8754025 3.7258539 3.6097181
## 198 6.4361310 2.8396666 2.4735165 0.4938382 2.2807264 2.3476349 3.2642179
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## 135 5.5387703 0.6690569 2.7097644 2.8732743 0.9171517 3.0198519 2.6988224
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## 145 5.6408548 1.8745619 4.3502404 5.6529735 1.5215172 4.3721061 2.4913215
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## 200 3.8051966 5.7431505 3.1556635 1.4285376 4.8114286 5.1058303 7.1043492
## 201 2.8864249 1.8861129 2.1504913 4.2929601 0.9595589 3.2867334 5.5698690
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## 189 0.4964918 2.1727764 3.4449758 4.2843040 2.8017629 2.5696496
## 190 4.4992392 3.1909474 5.0743222 4.3010706 3.0461609 3.8107894 4.5602014
## 191 1.1668613 2.6854064 4.6571041 5.1894636 2.2362253 3.5570728 1.5814651
## 192 2.4158251 1.3319097 2.2365105 2.3558709 3.0169013 0.8399795 2.1006953
## 193 3.6445556 2.4861412 4.1937317 3.5141778 2.8775245 2.9229424 3.6483222
## 194 4.8434726 3.2580063 1.1579119 1.1602901 5.3196888 2.2287190 4.4590923
## 195 2.5302108 1.4464068 1.9015702 3.0666566 3.1837717 1.5048452 2.1746577
## 196 4.3985808 3.2102383 1.8604679 1.0934396 5.1453993 2.0689556 4.0319130
## 197 5.1843035 3.9309360 1.4270620 2.2290207 6.0073670 2.8988544 4.7570919
## 198 2.7242893 2.6552061 4.0079177 3.6828799 3.2232289 2.7358285 2.6849161
## 199 5.8406159 4.1152880 2.0674622 1.8973391 6.1391085 3.1646182 5.4511784
## 200 4.7172371 3.8407687 5.1755338 4.1443750 4.0992327 3.9297347 4.7110372
## 201 2.1972095 1.3225736 2.4862457 3.5196069 2.6615955 1.8224396 1.9262024
## 202 3.6319306 2.9053632 1.0146195 2.4788486 4.8556756 1.9348058 3.1766277
## 203 2.4244529 1.1918933 1.7016457 2.2944966 3.2056249 0.7088177 2.0595545
## 204 3.8240513 3.5808265 5.0782311 4.4063318 3.6394060 3.7362211 3.8656358
## 205 3.5564168 2.4520850 1.0534444 1.4016016 4.4296465 1.2679746 3.1635720
## 206 1.7241065 1.8425395 3.0300460 3.3983797 2.8878245 1.7597509 1.4103798
## 207 4.4631264 2.8383474 1.7912509 0.3177634 4.7357481 1.7642639 4.1226470
## 208 1.6495739 0.9365938 2.6641683 3.4657877 2.2840138 1.7048399 1.4213361
## 209 2.9366267 2.1312208 1.0884209 2.5756021 4.0825550 1.5114172 2.5129216
## 210 4.0602981 1.9525357 1.9155842 1.6809580 3.8539504 1.7356614 3.8021661
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## 194 5.1979891 5.5544213 2.8765033 4.4135298
## 195 4.6228336 3.3027847 1.8908453 3.8533297 2.9045847
## 196 4.6603345 5.0319010 2.2675227 3.6800944 1.6236894 3.2507107
## 197 6.2476643 6.0429184 3.5370117 5.4027648 1.1904283 3.1609439 2.3217768
## 198 2.8842695 2.6601661 1.9345214 1.7980238 4.4770464 3.6377727 3.3632231
## 199 5.8975249 6.5385606 3.8662086 5.2361222 1.0717663 3.7058697 2.4834155
## 200 1.9004469 4.3992364 3.4118417 1.5509496 5.2083336 5.1112324 4.1486875
## 201 4.4612923 2.8918605 2.0372591 3.7645596 3.4585283 0.6407664 3.7242927
## 202 5.6615216 4.6010929 2.3983483 4.6952977 1.9619921 1.9320190 2.2652486
## 203 3.8813873 3.0835405 0.7662142 2.9204762 2.5251696 1.2887648 2.2708959
## 204 2.4740607 3.4886842 3.0290427 1.7728070 5.3657424 4.7560218 4.2089830
## 205 4.5981901 4.3206245 1.6181287 3.6011988 1.5347973 2.2284097 1.1125643
## 206 3.9265535 2.3437376 1.1160376 2.9298136 3.8188088 2.2074919 3.1354673
## 207 4.1760690 5.0185038 2.1648591 3.3457403 1.3527764 3.0392965 0.9386140
## 208 3.9280383 2.2418556 1.6044707 3.1568791 3.6005963 1.1098002 3.5599233
## 209 5.0590930 3.8385933 1.9264486 4.1328550 2.2261514 1.1264059 2.5077465
## 210 3.5780165 4.4313268 2.2338869 2.9863308 1.9426690 2.3553216 2.4082239
##           197      198      199      200      201      202      203
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## 200 6.2231339 2.1945303 5.9827031
## 201 3.7757833 3.5837258 4.2651658 5.0752962
## 202 1.7087596 4.1396971 2.7607768 5.6118425 2.5120835
## 203 3.0705211 2.5556583 3.5043391 4.0287133 1.5898004 1.9000964
## 204 6.2425822 1.3217148 6.2743392 1.2854902 4.6513847 5.3116070 3.7023191
## 205 2.0763577 3.1893488 2.5734472 4.3816196 2.7089185 1.3763666 1.4143596
## 206 4.3019980 1.8577696 4.8153833 3.7581718 2.1598584 2.8631460 1.5118349
## 207 2.3920626 3.4327731 2.1599561 3.9334468 3.4697964 2.4701490 2.1763331
## 208 4.0489395 2.8879833 4.5038328 4.4677275 0.7766069 2.7331102 1.3068121
## 209 2.3026320 3.6981990 3.1091324 5.2308599 1.6998060 0.9339598 1.2554948
## 210 2.8943274 3.6266725 2.5789568 4.1417917 2.6728200 2.8140939 1.9218080
##           204          205          206          207          208          209
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## 206 3.0206505 2.4518594
## 207 4.1579071 1.2847115 3.1865704
## 208 3.9734642 2.6323493 1.6443571 3.3680139
## 209 4.8981949 1.4776409 2.3902404 2.5493453 1.8863991
## 210 4.3898415 2.0840433 3.2696441 1.7746986 2.6284528 2.3627166

##### FACTOR VISUALISATION OF DISTANCES
fviz_dist(DISTANCEMATRIX,gradient = list(low="BLUE",mid="YELLOW",high="BROWN"))

```

```

##### HIERARCHICAL CLUSTERING
##### AGGLOMERATIVE CLUSTERING
agnest=agnes(x=scale(DATA),stand=TRUE,metric="euclidean",method="ward")
fviz_dend(agnest)

```

```

##### DIVISIVE CLUSTERING
diana=diana(x=scale(DATA),stand = TRUE,metric = "euclidean")
fviz_dend(diana)

```

```

##### USING HCLUST FUNCTION
##### BUILDING HIERARCHICAL MODEL #####
HIER_CLUST=hclust(DISTANCEMATRIX,method = "complete")
plot(HIER_CLUST)##### PLOTTING DENDROGRAM OF THE HIERARCHICAL CLUSTERING

```

```

CLUSTER_HEIGHT<-HIER_CLUST$height
##### SORTING THE CLUSTER HEIGHTS IN DESCENDING ORDER #####
CLUSTER_HEIGHT<-sort(CLUSTER_HEIGHT,decreasing = TRUE)
CLUSTER_HEIGHT

## [1] 8.0151108 6.0924097 5.2786282 4.8342016 4.6457587 3.7202152 3.717829
6
## [8] 3.6939373 3.6483222 3.4577810 3.1138517 3.0621670 2.9196339 2.885442
0
## [15] 2.8017629 2.7950861 2.7576656 2.5548676 2.4300685 2.4241375 2.408223
9
## [22] 2.2950752 2.2824688 2.2432911 2.2067287 2.2048015 2.1976320 2.121812
6
## [29] 2.1119097 2.1069261 2.0458608 1.9112345 1.9107346 1.9087416 1.831036
0
## [36] 1.8121552 1.7669721 1.7498364 1.6462646 1.6127070 1.5993535 1.582319
4
## [43] 1.5452682 1.5436220 1.4818192 1.4016016 1.3954921 1.3938417 1.393397
1
## [50] 1.3702794 1.3611785 1.3517463 1.3370760 1.3190550 1.3107889 1.302238
3
## [57] 1.2996424 1.2814247 1.2758491 1.2571275 1.2249106 1.2148607 1.201771
1
## [64] 1.1829441 1.1784765 1.1710501 1.1490283 1.1133310 1.1125643 1.095460
6
## [71] 1.0882063 1.0840457 1.0819517 1.0794704 1.0788520 1.0771622 1.062463
1
## [78] 1.0480536 1.0448401 0.9978203 0.9824831 0.9795850 0.9680946 0.948683
8
## [85] 0.9370528 0.9310319 0.9304721 0.9043524 0.8948941 0.8927640 0.881736
4

```

```

## [92] 0.8808071 0.8747382 0.8565206 0.8522308 0.8495990 0.8493001 0.841262
4
## [99] 0.8383414 0.8272791 0.8247010 0.8216267 0.8187517 0.8162218 0.812525
8
## [106] 0.8034781 0.8003986 0.7821733 0.7795581 0.7735631 0.7673159 0.749981
9
## [113] 0.7474829 0.7372528 0.7342098 0.7291440 0.7273289 0.7239597 0.723514
8
## [120] 0.7208609 0.7188067 0.7135323 0.7135174 0.7046975 0.7028738 0.701581
8
## [127] 0.7010808 0.6973426 0.6952787 0.6786868 0.6747432 0.6688943 0.668323
8
## [134] 0.6584355 0.6554055 0.6527148 0.6361384 0.6214690 0.6179779 0.614575
0
## [141] 0.6141095 0.6121380 0.6025504 0.5921981 0.5884992 0.5744649 0.569194
8
## [148] 0.5691110 0.5678726 0.5634923 0.5587886 0.5540089 0.5513196 0.549801
2
## [155] 0.5411885 0.5358951 0.5336418 0.5253613 0.5156077 0.5142066 0.512955
7
## [162] 0.4964918 0.4943499 0.4930136 0.4781552 0.4744637 0.4730504 0.472329
0
## [169] 0.4664166 0.4640396 0.4621839 0.4572176 0.4532304 0.4513575 0.447045
5
## [176] 0.4428998 0.4302574 0.4265832 0.4237232 0.4209382 0.4199321 0.419611
9
## [183] 0.4144250 0.4096444 0.4015035 0.3762789 0.3721822 0.3702974 0.368668
2
## [190] 0.3665876 0.3634898 0.3633430 0.3583322 0.3539181 0.3441066 0.335860
4
## [197] 0.3336440 0.3177634 0.2956192 0.2905507 0.2898649 0.2861778 0.270421
1
## [204] 0.2582703 0.2393325 0.2185603 0.2120604 0.2103357 0.1930437

plot(CLUSTER_HEIGHT)
rect.hclust(HIER_CLUST,k=3,border = "BROWN")

```

```

##### SEGREGATING THE DATA INTO CORRESPONDING CLUSTERS #####
CLUSTERS=cutree(HIER_CLUST,k=3)
head(CLUSTERS)

## [1] 1 2 1 3 1 3

NEWDATA<- cbind(DATA,CLUSTERS)
group1<-subset(NEWDATA,CLUSTERS==1)
group2<-subset(NEWDATA,CLUSTERS==2)
group3<-subset(NEWDATA,CLUSTERS==3)
##### VISUALISING THE CLUSTERS #####
# The clusplot does the dimensionality reduction of the variables into compon

```

```

ents and map it with the clusters
clusplot(NEWDATA[, -8], NEWDATA$CLUSTERS, color=TRUE, shade=TRUE, labels = 2, lines
= 1, main = "CLUSTER MAPPING WITH THE DATA")

```

```

##### CLUSTER PROFILING #####
HIER_CLUST

##
## Call:
## hclust(d = DISTANCEMATRIX, method = "complete")
##
## Cluster method : complete
## Distance       : euclidean
## Number of objects: 210

##### FINDING THE CENTROIDS OF THE CLUSTERS #####
AGGR<-aggregate(NEWDATA[, -8], list(NEWDATA$CLUSTERS), mean)
AGGR

##   Group.1 spending advance_payments probability_of_full_payment current_balance
## 1      1 18.39426          16.16971           0.8826956      6.1
72500
## 2      2 14.89250          14.55615           0.8826038      5.5
89231
## 3      3 12.14178          13.34433           0.8554556      5.2
40244
##   credit_limit min_payment_amt max_spent_in_single_shopping
## 1      3.679338        3.651824           6.038176
## 2      3.319096        2.474944           5.192904
## 3      2.905767        4.444679           5.056311

##### CALCULATING SILHOUTTE WIDTH FOR THE CLUSTERS #####
SIL_WIDTH<-silhouette(NEWDATA$CLUSTERS, dist(NEWDATA))####computes silhoutte width for every row
head(SIL_WIDTH[, 1:3], 12)#### if the silwidth is negative we switch the original cluster to the neighbor one

##   cluster neighbor sil_width
## 1      1         2  0.5910681
## 2      2         1  0.4506353
## 3      1         2  0.6285789
## 4      3         2  0.5969530
## 5      1         2  0.3680050
## 6      3         2  0.3560753
## 7      3         2  0.5739470
## 8      2         3  0.4148031
## 9      1         2  0.5343702
## 10     3         2  0.6033751

```

```

## [11,]      1      2  0.4394887
## [12,]      2      3  0.3430638

summary(SIL_WIDTH)

## Silhouette of 210 units in 3 clusters from silhouette.default(x = NEWDATA$CLUSTERS, dist = dist(NEWDATA)) :
## Cluster sizes and average silhouette widths:
##       68      52      90
## 0.4161420 0.5168482 0.4157438
## Individual silhouette widths:
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
## -0.4435  0.3805  0.5284  0.4409  0.5907  0.6953

newdata<-cbind(DATA,CLUSTERS,SIL_WIDTH[,2:3])
head(newdata)

##   spending advance_payments probability_of_full_payment current_balance
## 1     19.94                  16.92                 0.8752      6.675
## 2     15.99                  14.89                 0.9064      5.363
## 3     18.95                  16.42                 0.8829      6.248
## 4     10.83                  12.96                 0.8099      5.278
## 5     17.99                  15.86                 0.8992      5.890
## 6     12.70                  13.41                 0.8874      5.183
##   credit_limit min_payment_amt max_spent_in_single_shopping CLUSTERS neighbor
## 1         3.763            3.252                6.550          1
## 2
## 2         3.582            3.336                5.144          2
## 1
## 3         3.755            3.368                6.148          1
## 2
## 4         2.641            5.182                5.185          3
## 2
## 5         3.694            2.068                5.837          1
## 2
## 6         3.091            8.456                5.000          3
## 2
##   sil_width
## 1 0.5910681
## 2 0.4506353
## 3 0.6285789
## 4 0.5969530
## 5 0.3680050
## 6 0.3560753

```

5.2 K-MEANS CLUSTERING

```
##### K-MEANS CLUSTERING #####
##### TO FIND THE APPROPRIATE NUMBER OF CLUSTERS #####
fviz_nbclust(scale(DATA),kmeans,method = "silhouette")# 2 CLUSTERS
fviz_nbclust(scale(DATA),kmeans,method = "wss")# 3-4 CLUSTERS
fviz_nbclust(scale(DATA),kmeans,method = "gap_stat")# 3 CLUSTERS
set.seed(123)
KMEANS=kmeans(scale(DATA),3, nstart=25)
print(KMEANS)

## K-means clustering with 3 clusters of sizes 67, 71, 72
##
## Cluster means:
##      spending advance_payments probability_of_full_payment current_balance
## 1  1.2536860          1.2589580           0.5591283        1.2349319
## 2 -0.1407831         -0.1696372           0.4485346       -0.2571999
## 3 -1.0277967         -1.0042491           -0.9626050      -0.8955451
##      credit_limit min_payment_amt max_spent_in_single_shopping
## 1  1.162075101      -0.04511157          1.2892273
## 2  0.001643014      -0.66034079          -0.5844965
## 3 -1.082995635       0.69314821          -0.6233191
##
## Clustering vector:
## [1] 1 2 1 3 1 3 3 2 1 3 1 2 3 1 2 3 2 3 3 3 3 1 3 2 1 2 3 3 3 2 3 3 2
## 3 3 3
## [38] 3 3 1 1 2 1 1 3 3 2 1 1 1 3 1 1 1 1 1 3 3 3 1 2 3 3 2 2 1 1 2 1 3 2
## 3 1 1
## [75] 3 1 2 3 1 2 2 2 2 1 3 2 1 2 1 3 2 1 2 3 3 3 1 1 1 3 1 2 1 2 1 2 1 1 3
## 3 1 2
## [112] 2 1 3 3 1 2 2 3 1 2 3 3 3 2 2 1 3 2 2 3 2 2 1 3 1 1 3 1 2 2 2 3 3 2
## 3 1 3
## [149] 2 3 2 3 2 2 3 2 2 1 1 3 1 1 1 3 2 2 2 3 2 3 2 1 1 1 2 3 2 3 2 2
## 2 2 1
## [186] 1 3 2 2 3 3 2 3 1 2 1 1 3 1 3 2 1 2 3 1 2 1 2 2 2
##
## Within cluster sum of squares by cluster:
## [1] 139.5542 144.4586 144.5954
##   (between_SS / total_SS =  70.7 %)
##
## Available components:
##
## [1] "cluster"      "centers"       "totss"        "withinss"      "tot.withinss"
## [6] "betweenss"    "size"          "iter"          "ifault"

KMEANS$size

## [1] 67 71 72
```

```

KMEANS$tot.withinss
## [1] 428.6082

KMEANS$totss
## [1] 1463

DATA_KMEANS=cbind(DATA,KMEANS$cluster)
fviz_cluster(KMEANS,data = DATA,ellipse.type = "convex", palette=c("green","red","purple"), repel = TRUE,ggtheme = theme_minimal())

```

```

##### KMEANS CLUSTERING THROUGH CUSTOM FUNCTION METHOD #####
scaleddata=scale(DATA)
silhouette_score<-function(k){
  km<-kmeans(scaleddata,centers = k,nstart = 25)###custom function created
  ss<-silhouette(km$cluster,dist(scaleddata))
  mean(ss[,3])
}
k<-2:10
avgsil<-sapply(k,silhouette_score)
avgsil

## [1] 0.4657725 0.4007271 0.3347542 0.2863816 0.2884669 0.2756290 0.2532527
## [8] 0.2539565 0.2623969

plot(k,type = "b",avgsil,xlab = "number of clusters",ylab = "avg silhouette scores",frame=FALSE)

```

```

## ONLY AT VALUE 2 ,the silhouette score is high ## which means 2 clusters are evident
### wss plot ####
wssplot<-function(data,nc=15,seed=123){
  wss<-c()###creating a empty or null array
  for(i in 1:nc){
    set.seed(seed)
    wss[i]=sum(kmeans(data,centers = i)$withinss)}
  plot(1:nc,wss,type = "b",xlab = "number of clusters",ylab = "within sum of squares")

}
wssplot(scaleddata,nc=5)

```

```

## wss plot shows 3 clusters are significant
#### running the kmeans algorithm with k value as 3

```

```

kmeansclus<-kmeans(scaleddata,centers =3)
kmeansclus

## K-means clustering with 3 clusters of sizes 72, 67, 71
##
## Cluster means:
##      spending advance_payments probability_of_full_payment current_balance
## 1 -1.0277967      -1.0042491           -0.9626050      -0.8955451
## 2  1.2536860       1.2589580            0.5591283      1.2349319
## 3 -0.1407831      -0.1696372            0.4485346      -0.2571999
##      credit_limit min_payment_amt max_spent_in_single_shopping
## 1 -1.082995635      0.69314821          -0.6233191
## 2  1.162075101     -0.04511157            1.2892273
## 3  0.001643014     -0.66034079          -0.5844965
##
## Clustering vector:
## [1] 2 3 2 1 2 1 1 3 2 1 2 3 1 2 3 1 3 1 1 1 1 1 2 1 3 2 3 1 1 1 3 1 1 3
1 1 1
## [38] 1 1 2 2 3 2 2 1 1 3 2 2 2 1 2 2 2 2 1 1 1 2 3 1 1 3 3 2 2 3 2 1 3
1 2 2
## [75] 1 2 3 1 2 3 3 3 2 1 3 2 3 2 1 3 2 3 1 1 2 2 2 1 2 3 2 3 2 3 2 2 1
1 2 3
## [112] 3 2 1 1 2 3 3 1 2 3 1 1 1 3 3 2 1 3 3 1 3 3 2 1 2 2 1 2 3 3 3 1 1 3
1 2 1
## [149] 3 1 3 1 3 3 1 3 2 2 1 2 2 2 1 3 3 3 1 3 1 3 2 2 2 3 1 3 1 3 3
3 3 2
## [186] 2 1 3 3 1 1 3 1 2 3 2 2 1 2 1 3 2 3 1 2 3 2 3 3 3
##
## Within cluster sum of squares by cluster:
## [1] 144.5954 139.5542 144.4586
##   (between_SS / total_SS =  70.7 %)
##
## Available components:
##
## [1] "cluster"      "centers"       "totss"        "withinss"      "tot.withinss"
## [6] "betweenss"    "size"         "iter"         "ifault"

kmeansclus$cluster

## [1] 2 3 2 1 2 1 1 3 2 1 2 3 1 2 3 1 3 1 1 1 1 1 2 1 3 2 3 1 1 1 3 1 1 3
1 1 1
## [38] 1 1 2 2 3 2 2 1 1 3 2 2 2 1 2 2 2 2 1 1 1 2 3 1 1 3 3 2 2 3 2 1 3
1 2 2
## [75] 1 2 3 1 2 3 3 3 2 1 3 2 3 2 1 3 2 3 1 1 2 2 2 1 2 3 2 3 2 3 2 2 1
1 2 3
## [112] 3 2 1 1 2 3 3 1 2 3 1 1 1 3 3 2 1 3 3 1 3 3 2 1 2 2 1 2 3 3 3 1 1 3
1 2 1
## [149] 3 1 3 1 3 3 1 3 2 2 1 2 2 2 1 3 3 3 1 3 1 3 2 2 2 3 1 3 1 3 3
3 3 2

```

```

3 3 2
## [186] 2 1 3 3 1 1 3 1 2 3 2 2 1 2 1 3 2 3 1 2 3 2 3 3 3

DATA1<-DATA
DATA1$clusters<-kmeansclus$cluster
View(DATA1)
aggr<-aggregate(DATA1[, -c(8)], list(DATA1$clusters), mean)
aggr

## Group.1 spending advance_payments probability_of_full_payment current_balance
## 1      1 11.85694          13.24778          0.8482528      5.2
31750
## 2      2 18.49537          16.20343          0.8842104      6.1
75687
## 3      3 14.43789          14.33775          0.8815972      5.5
14577

## credit_limit min_payment_amt max_spent_in_single_shopping
## 1      2.849542          4.742389          5.101722
## 2      3.697537          3.632373          6.041701
## 3      3.259225          2.707341          5.120803

### checking the silhouette width to check whether the clustering done is right or wrong
sil<-silhouette(kmeansclus$cluster,dist(scaleddata))
sil

##      cluster neighbor   sil_width
## [1,]        2         3 0.573698738
## [2,]        3         2 0.366386385
## [3,]        2         3 0.637783633
## [4,]        1         3 0.512458189
## [5,]        2         3 0.362276328
## [6,]        1         3 0.218446378
## [7,]        1         3 0.472866603
## [8,]        3         1 0.361812167
## [9,]        2         3 0.520284534
## [10,]       1         3 0.532516795
## [11,]       2         3 0.467591909
## [12,]       3         1 0.132241158
## [13,]       1         3 0.389667686
## [14,]       2         3 0.524781197
## [15,]       3         1 0.112215283
## [16,]       1         3 0.221295736
## [17,]       3         2 0.337957234
## [18,]       1         3 0.499901572
## [19,]       1         3 0.031553437
## [20,]       1         3 0.235756599
## [21,]       1         3 0.359037295
## [22,]       1         3 0.366127540
## [23,]       2         3 0.432773071

```

```

## [24,]    1    3 0.261361592
## [25,]    3    2 0.475705074
## [26,]    2    3 0.065752226
## [27,]    3    1 0.271792397
## [28,]    1    3 0.503894130
## [29,]    1    3 0.553528141
## [30,]    1    3 0.434305994
## [31,]    3    1 0.377073189
## [32,]    1    3 0.428239970
## [33,]    1    3 0.388272677
## [34,]    3    2 0.394982078
## [35,]    1    3 0.534593302
## [36,]    1    3 0.556280782
## [37,]    1    3 0.507603844
## [38,]    1    3 0.423349726
## [39,]    1    3 0.504965068
## [40,]    2    3 0.622414688
## [41,]    2    3 0.560533759
## [42,]    3    1 0.486523075
## [43,]    2    3 0.399231754
## [44,]    2    3 0.610989014
## [45,]    1    3 0.513529576
## [46,]    1    3 0.376069121
## [47,]    3    1 0.307153731
## [48,]    2    3 0.582589492
## [49,]    2    3 0.488257236
## [50,]    2    3 0.534039920
## [51,]    1    3 0.314482207
## [52,]    2    3 0.495484585
## [53,]    2    3 0.586012725
## [54,]    2    3 0.599265667
## [55,]    2    3 0.619671015
## [56,]    2    3 0.233787982
## [57,]    1    3 0.441898769
## [58,]    1    3 0.538412300
## [59,]    1    3 0.576742516
## [60,]    2    3 0.576969048
## [61,]    3    1 0.554102585
## [62,]    1    3 0.513830319
## [63,]    1    3 0.554129740
## [64,]    3    1 0.281317869
## [65,]    3    1 0.496221384
## [66,]    2    3 0.564956994
## [67,]    2    3 0.578284886
## [68,]    3    1 0.523784196
## [69,]    2    3 0.632052376
## [70,]    1    3 0.082885159
## [71,]    3    1 0.443539141
## [72,]    1    3 0.320423625
## [73,]    2    3 0.541872542

```

```

## [74,]    2    3 0.582843209
## [75,]    1    3 0.292264186
## [76,]    2    3 0.587402223
## [77,]    3    2 0.452741857
## [78,]    1    3 0.458648639
## [79,]    2    3 0.360317809
## [80,]    3    1 0.472355466
## [81,]    3    1 0.354174345
## [82,]    3    1 0.283176201
## [83,]    3    1 0.472035928
## [84,]    2    3 0.433329170
## [85,]    1    3 0.541854869
## [86,]    3    1 0.112236612
## [87,]    2    3 0.222422710
## [88,]    3    2 0.005456773
## [89,]    2    3 0.029791919
## [90,]    1    3 0.166461643
## [91,]    3    1 0.205179653
## [92,]    2    3 0.518352502
## [93,]    3    2 0.486378409
## [94,]    1    3 0.461833341
## [95,]    1    3 0.118859858
## [96,]    2    3 0.479572549
## [97,]    2    3 0.524787454
## [98,]    2    3 0.128668567
## [99,]    1    3 0.560769297
## [100,]   2    3 0.501161662
## [101,]   3    1 0.076353122
## [102,]   2    3 0.639285235
## [103,]   3    2 0.356546046
## [104,]   2    3 0.590441895
## [105,]   3    2 0.439337812
## [106,]   2    3 0.570270476
## [107,]   2    3 0.447696177
## [108,]   1    3 0.270275433
## [109,]   1    3 0.046612347
## [110,]   2    3 0.574981682
## [111,]   3    2 0.132330959
## [112,]   3    1 0.464368263
## [113,]   2    3 0.538003181
## [114,]   1    3 0.367925299
## [115,]   1    3 0.519092276
## [116,]   2    3 0.371564692
## [117,]   3    1 0.455195499
## [118,]   3    1 0.023507388
## [119,]   1    3 0.559693471
## [120,]   2    3 0.572584874
## [121,]   3    1 0.091009252
## [122,]   1    3 0.493440169
## [123,]   1    3 0.316089662

```

```

## [124,]      1      3 0.235229837
## [125,]      3      1 0.453638457
## [126,]      3      1 0.474648381
## [127,]      2      3 0.460140821
## [128,]      1      3 0.582434763
## [129,]      3      1 0.513866803
## [130,]      3      1 0.519147584
## [131,]      1      3 0.533291977
## [132,]      3      1 0.491916081
## [133,]      3      1 0.126471001
## [134,]      2      3 0.549600641
## [135,]      1      3 0.554409645
## [136,]      2      3 0.523482105
## [137,]      2      3 0.462259386
## [138,]      1      3 0.475232013
## [139,]      2      3 0.294750893
## [140,]      3      1 0.367213605
## [141,]      3      2 0.210820872
## [142,]      3      2 0.512419696
## [143,]      1      3 0.492105687
## [144,]      1      3 0.360771087
## [145,]      3      1 0.007583939
## [146,]      1      3 0.479039874
## [147,]      2      3 0.508753451
## [148,]      1      3 0.561499347
## [149,]      3      1 0.466537696
## [150,]      1      3 0.497962660
## [151,]      3      1 0.293389597
## [152,]      1      3 0.339143231
## [153,]      3      2 0.550611422
## [154,]      3      2 0.119540549
## [155,]      1      3 0.154385637
## [156,]      3      1 0.437720255
## [157,]      3      1 0.014734196
## [158,]      1      3 0.587277254
## [159,]      3      2 0.492532346
## [160,]      2      3 0.509828218
## [161,]      2      3 0.550398022
## [162,]      1      3 0.164650469
## [163,]      2      3 0.492307503
## [164,]      2      3 0.406880045
## [165,]      2      3 0.563282205
## [166,]      1      3 0.528128546
## [167,]      3      2 0.083563738
## [168,]      3      2 0.488381400
## [169,]      3      1 0.283270025
## [170,]      1      3 0.314638155
## [171,]      3      2 0.299945342
## [172,]      1      3 0.552931178
## [173,]      3      1 0.532770501

```

```

## [174,]      2      3 0.483141560
## [175,]      2      3 0.541604508
## [176,]      2      3 0.551776319
## [177,]      3      1 0.459819761
## [178,]      1      3 0.047360697
## [179,]      3      2 0.082356042
## [180,]      1      3 0.440574438
## [181,]      3      1 0.483525582
## [182,]      3      1 0.081802330
## [183,]      3      1 0.275288109
## [184,]      3      1 0.405653005
## [185,]      2      3 0.248389990
## [186,]      2      3 0.340384462
## [187,]      1      3 0.049686143
## [188,]      3      2 0.404488307
## [189,]      3      1 0.369793374
## [190,]      1      3 0.448275545
## [191,]      1      3 0.002713089
## [192,]      3      1 0.371077013
## [193,]      1      3 0.495260935
## [194,]      2      3 0.547809381
## [195,]      3      2 0.487912682
## [196,]      2      3 0.265142186
## [197,]      2      3 0.597826385
## [198,]      1      3 0.395596923
## [199,]      2      3 0.613978303
## [200,]      1      3 0.472427288
## [201,]      3      1 0.524340912
## [202,]      2      3 0.096986162
## [203,]      3      1 0.518565630
## [204,]      1      3 0.510757694
## [205,]      2      3 0.046631633
## [206,]      3      1 0.310529362
## [207,]      2      3 0.267544723
## [208,]      3      1 0.506783699
## [209,]      3      2 0.257368826
## [210,]      3      2 0.041699764
## attr(,"Ordered")
## [1] FALSE
## attr(,"call")
## silhouette.default(x = kmeansclus$cluster, dist = dist(scaleddata))
## attr(,"class")
## [1] "silhouette"

head(sil[,1:3],10)

##      cluster neighbor sil_width
## [1,]      2          3 0.5736987
## [2,]      3          2 0.3663864
## [3,]      2          3 0.6377836

```

```

## [4,]      1      3 0.5124582
## [5,]      2      3 0.3622763
## [6,]      1      3 0.2184464
## [7,]      1      3 0.4728666
## [8,]      3      1 0.3618122
## [9,]      2      3 0.5202845
## [10,]     1      3 0.5325168

summary(sil)

## Silhouette of 210 units in 3 clusters from silhouette.default(x = kmeanscl
us$cluster, dist = dist(scaleddata)) :
## Cluster sizes and average silhouette widths:
##      72      67      71
## 0.3974727 0.4687721 0.3398158
## Individual silhouette widths:
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.002713 0.296050 0.460987 0.400727 0.524671 0.639285

clusplot(DATA1[,1:7],kmeansclus$cluster,color = TRUE,shade=TRUE,labels = 2,li
nes = 1,main = "CLUSTER PLOT USING K-MEANS")

```

5.3 CART

```

##### CART MODEL #####
setwd("C:/Training")
getwd()
## [1] "C:/Training"
read.csv("insurance_part2_data_(1).csv",header = TRUE) -> MYDATA
##### DESCRIPTIVE STATISTICS #####
pacman::p_load(summarytools,randomForest,tidyverse,esquisse,rpart,rpart.plot,
MLmetrics,rsample)
summarytools::view(dfSummary(MYDATA))
View(MYDATA)
str(MYDATA)
## 'data.frame': 3000 obs. of 10 variables:
## $ Age : int 48 36 39 36 33 45 61 36 36 36 ...
## $ Agency_Code : Factor w/ 4 levels "C2B","CWT","EPX",...: 1 3 2 3 4 4 2 3
3 3 ...
## $ Type : Factor w/ 2 levels "Airlines","Travel Agency": 1 2 2 2 1
1 2 2 2 2 ...
## $ Claimed : Factor w/ 2 levels "No","Yes": 1 1 1 1 1 2 1 1 1 1 ...

```

```

## $ Commision    : num  0.7 0 5.94 0 6.3 ...
## $ Channel      : Factor w/ 2 levels "Offline","Online": 2 2 2 2 2 2 2 2 2
2 ...
## $ Duration     : int  7 34 3 4 53 8 30 16 19 42 ...
## $ Sales        : num  2.51 20 9.9 26 18 45 59.4 80 14 43 ...
## $ Product.Name: Factor w/ 5 levels "Bronze Plan",...: 3 3 3 2 1 1 3 2 2 2
...
## $ Destination  : Factor w/ 3 levels "Americas","ASIA",...: 2 2 1 2 2 2 1 2
2 2 ...

attach(MYDATA)

summary(MYDATA)

##          Age       Agency_Code           Type   Claimed  Commision
## Min.    : 8.00    C2B: 924    Airlines    :1163    No :2076    Min.    :  0.0
## 0
## 1st Qu.:32.00    CWT: 472    Travel Agency:1837    Yes: 924    1st Qu.:  0.0
## 0
## Median  :36.00    EPX:1365                               Median :  4.6
## 3
## Mean    :38.09    JZI: 239                               Mean   : 14.5
## 3
## 3rd Qu.:42.00                               3rd Qu.: 17.2
## 3
## Max.    :84.00                               Max.    :210.2
## 1

##          Channel      Duration       Sales       Product.Name
## Offline: 46    Min.    : -1.0    Min.    :  0.00    Bronze Plan    : 650
## Online :2954   1st Qu.: 11.0    1st Qu.: 20.00    Cancellation Plan: 678
##                   Median : 26.5    Median : 33.00    Customised Plan :1136
##                   Mean   : 70.0    Mean   : 60.25    Gold Plan      : 109
##                   3rd Qu.: 63.0    3rd Qu.: 69.00    Silver Plan    : 427
##                   Max.   :4580.0    Max.   :539.00

##          Destination
## Americas: 320
## ASIA     :2465
## EUROPE  : 215
## 
## 

```

```

## 
anyNA(MYDATA)
## [1] FALSE
funModeling::plot_num(MYDATA)

##### SPLITTING THE DATASET INTO TEST AND TRAIN DATA
SPLIT_DATA=initial_split(MYDATA,prop = 0.7)
TRAIN=training(SPLIT_DATA)
TEST=testing(SPLIT_DATA)
table(MYDATA$Claimed)

## 
##      No    Yes
## 2076   924
table(TRAIN$Claimed)

## 
##      No    Yes
## 1458   642
table(TEST$Claimed)

## 
##      No    Yes
## 618   282
prop.table(table(MYDATA$Claimed))

## 
##      No    Yes
## 0.692 0.308
prop.table(table(TRAIN$Claimed))

## 
##          No        Yes
## 0.6942857 0.3057143
prop.table(table(TEST$Claimed))

## 
##      No        Yes
## 0.6866667 0.3133333
#### THE PROPORTION OF "YES" & "NO" IN TRAIN,TEST,ORIGINAL DATASET ARE MORE OR LESS SAME

```

```

##### SETTING UP THE CONTROL PARAMETERS #####
CONTROL_PARAMETER=rpart.control(minsplit = 25,
                                minbucket = 10,
                                cp=0,
                                xval = 5)

##### BUILDING THE CART MODEL #####
CART_MODEL=rpart(Claimed~.,
                  data=TRAIN,
                  method = "class",
                  control = CONTROL_PARAMETER)

print(CART_MODEL)

## n= 2100

##
## node), split, n, loss, yval, (yprob)
##      * denotes terminal node
##
##      1) root 2100 642 No (0.69428571 0.30571429)
##          2) Agency_Code=CWT,EPX,JZI 1455 251 No (0.82749141 0.17250859)
##              4) Sales< 28.5 675 52 No (0.92296296 0.07703704) *
##              5) Sales>=28.5 780 199 No (0.74487179 0.25512821)
##                  10) Commision< 80.19 753 178 No (0.76361222 0.23638778)
##                      20) Product.Name=Bronze Plan,Cancellation Plan,Silver Plan 246
##                          28 No (0.88617886 0.11382114) *
##                          21) Product.Name=Customised Plan,Gold Plan 507 150 No (0.704142
##                              01 0.29585799) *
##                          42) Product.Name=Customised Plan 491 140 No (0.71486762 0.285
##                              13238)
##                              84) Age>=64.5 14    0 No (1.00000000 0.00000000) *
##                              85) Age< 64.5 477 140 No (0.70649895 0.29350105)
##                                  170) Age>=30.5 408 112 No (0.72549020 0.27450980)
##                                      340) Sales< 38.5 104   19 No (0.81730769 0.18269231) *
##                                      341) Sales>=38.5 304   93 No (0.69407895 0.30592105)
##                                          682) Duration< 34.5 162   42 No (0.74074074 0.25925926)

```

```

##          1364) Commision< 56.43 152  36 No (0.76315789 0.23684
211) *

##          1365) Commision>=56.43 10   4 Yes (0.40000000 0.60000
000) *

##          683) Duration>=34.5 142  51 No (0.64084507 0.35915493)

##          1366) Destination=Americas,ASIA 104  32 No (0.6923076
9 0.30769231)

##          2732) Commision>=50.49 13   1 No (0.92307692 0.0769
2308) *

##          2733) Commision< 50.49 91  31 No (0.65934066 0.3406
5934)

##          5466) Age< 49.5 81  25 No (0.69135802 0.30864198)

##          10932) Sales>=58.7 43   9 No (0.79069767 0.20930
233) *

##          10933) Sales< 58.7 38  16 No (0.57894737 0.42105
263)

##          21866) Duration< 59.5 15   4 No (0.73333333 0.
26666667) *

##          21867) Duration>=59.5 23  11 Yes (0.47826087 0
.52173913) *

##          5467) Age>=49.5 10   4 Yes (0.40000000 0.60000000
) *

##          1367) Destination=EUROPE 38  19 No (0.50000000 0.5000
0000)

##          2734) Duration< 65 22   9 No (0.59090909 0.40909091
) *

##          2735) Duration>=65 16   6 Yes (0.37500000 0.6250000
0) *

##          171) Age< 30.5 69  28 No (0.59420290 0.40579710)

##          342) Commision>=38.61 11   2 No (0.81818182 0.18181818)
*

##          343) Commision< 38.61 58  26 No (0.55172414 0.44827586)

##          686) Sales< 96.5 47  19 No (0.59574468 0.40425532)

##          1372) Age>=25.5 33  11 No (0.66666667 0.33333333) *
##          1373) Age< 25.5 14   6 Yes (0.42857143 0.57142857) *
##          687) Sales>=96.5 11   4 Yes (0.36363636 0.63636364) *

##          43) Product.Name=Gold Plan 16   6 Yes (0.37500000 0.62500000)
*

##          11) Commision>=80.19 27   6 Yes (0.22222222 0.77777778) *

##          3) Agency_Code=C2B 645 254 Yes (0.39379845 0.60620155)

```

```

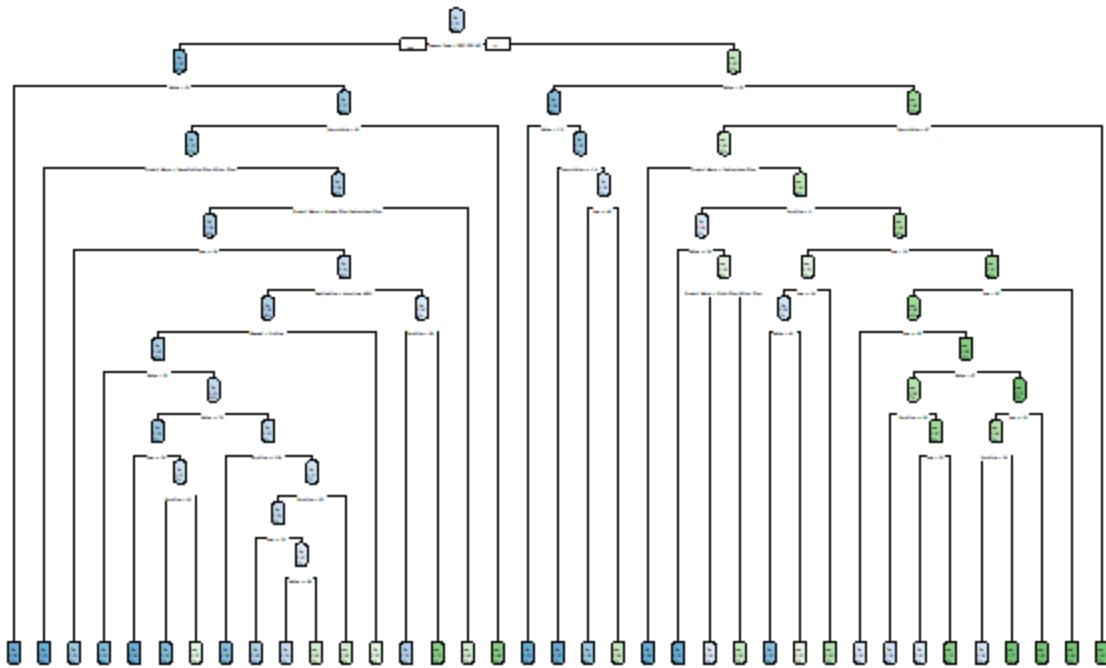
##       6) Sales< 33 249 104 No (0.58232932 0.41767068)
##      12) Sales< 15.5 73 14 No (0.80821918 0.19178082)
##        24) Sales< 6.625 24 0 No (1.00000000 0.00000000) *
##      25) Sales>=6.625 49 14 No (0.71428571 0.28571429)
##        50) Commision>=3.775 20 1 No (0.95000000 0.05000000) *
##        51) Commision< 3.775 29 13 No (0.55172414 0.44827586)
##        102) Age>=46 15 5 No (0.66666667 0.33333333) *
##        103) Age< 46 14 6 Yes (0.42857143 0.57142857) *
##      13) Sales>=15.5 176 86 Yes (0.48863636 0.51136364)
##      26) Sales>=29.7 21 2 No (0.90476190 0.09523810) *
##      27) Sales< 29.7 155 67 Yes (0.43225806 0.56774194)
##        54) Duration>=53 11 3 No (0.72727273 0.27272727) *
##        55) Duration< 53 144 59 Yes (0.40972222 0.59027778)
##      110) Duration< 23.5 124 56 Yes (0.45161290 0.54838710)
##        220) Age< 25.5 18 6 No (0.66666667 0.33333333) *
##        221) Age>=25.5 106 44 Yes (0.41509434 0.58490566)
##        442) Sales< 16.5 15 5 No (0.66666667 0.33333333) *
##        443) Sales>=16.5 91 34 Yes (0.37362637 0.62637363)
##        886) Age>=30.5 63 27 Yes (0.42857143 0.57142857)
##      1772) Sales< 21.175 26 12 No (0.53846154 0.46153846)
##      3544) Commision>=4.9 14 4 No (0.71428571 0.285714
29) *
##        3545) Commision< 4.9 12 4 Yes (0.33333333 0.66666
667) *
##        1773) Sales>=21.175 37 13 Yes (0.35135135 0.64864865
) *
##        887) Age< 30.5 28 7 Yes (0.25000000 0.75000000) *
##      111) Duration>=23.5 20 3 Yes (0.15000000 0.85000000) *
##      7) Sales>=33 396 109 Yes (0.27525253 0.72474747)
##      14) Duration< 11.5 29 8 No (0.72413793 0.27586207) *
##      15) Duration>=11.5 367 88 Yes (0.23978202 0.76021798)
##      30) Commision< 53.165 234 67 Yes (0.28632479 0.71367521)
##        60) Product.Name=Customised Plan,Gold Plan 18 9 No (0.50000
000 0.50000000) *
##        61) Product.Name=Bronze Plan,Silver Plan 216 58 Yes (0.26851
852 0.73148148)

```

```

##          122) Duration>=370 11      5 No  (0.54545455 0.45454545) *
##          123) Duration< 370 205    52 Yes (0.25365854 0.74634146)
##          246) Duration< 23.5 72     23 Yes (0.31944444 0.68055556)
##          492) Sales< 44.4 17      7 No  (0.58823529 0.41176471) *
##          493) Sales>=44.4 55     13 Yes (0.23636364 0.76363636) *
##          247) Duration>=23.5 133    29 Yes (0.21804511 0.78195489)
##          494) Commision>=8.865 116    28 Yes (0.24137931 0.75862069
)
##          988) Age< 26.5 25      9 Yes (0.36000000 0.64000000) *
##          989) Age>=26.5 91      19 Yes (0.20879121 0.79120879)
##          1978) Age>=55 14      5 Yes (0.35714286 0.64285714) *
##          1979) Age< 55 77      14 Yes (0.18181818 0.81818182)
##          3958) Duration< 51 40     11 Yes (0.27500000 0.72500000
0)
##          7916) Duration>=27.5 29     11 Yes (0.37931034 0.620
68966)
##          15832) Age< 35.5 17     8 No  (0.52941176 0.4705882
4) *
##          15833) Age>=35.5 12     2 Yes (0.16666667 0.833333
33) *
##          7917) Duration< 27.5 11     0 Yes (0.00000000 1.000
00000) *
##          3959) Duration>=51 37     3 Yes (0.08108108 0.9189189
2) *
##          495) Commision< 8.865 17     1 Yes (0.05882353 0.94117647)
*
##          31) Commision>=53.165 133    21 Yes (0.15789474 0.84210526) *
par(xpd=NA)
rpart.plot(CART_MODEL)

```



```

printcp(CART_MODEL)
##
## Classification tree:
## rpart(formula = Claimed ~ ., data = TRAIN, method = "class",
##       control = CONTROL_PARAMETER)
##
## Variables actually used in tree construction:
## [1] Age          Agency_Code   Commision    Destination Duration
## [6] Product.Name Sales
##
## Root node error: 642/2100 = 0.30571
##
## n= 2100
##
##          CP nsplit rel error  xerror     xstd
## 1  0.21339564      0  1.00000 1.00000  0.032885
## 2  0.06386293      1  0.78660 0.78660  0.030506
## 3  0.02024922      2  0.72274 0.75389  0.030061

```

```

## 4 0.01635514      3 0.70249 0.73053 0.029728
## 5 0.01168224      5 0.66978 0.72586 0.029660
## 6 0.00778816      7 0.64642 0.70249 0.029313
## 7 0.00467290      8 0.63863 0.68069 0.028976
## 8 0.00311526     11 0.62150 0.71184 0.029453
## 9 0.00155763     16 0.60592 0.73053 0.029728
## 10 0.00124611    28 0.58567 0.73832 0.029840
## 11 0.00103842    33 0.57944 0.73832 0.029840
## 12 0.00077882    36 0.57632 0.73676 0.029818
## 13 0.00025961    38 0.57477 0.73676 0.029818
## 14 0.00000000    44 0.57321 0.74766 0.029973
plotcp(CART_MODEL)

```

```

##### PRUNING THE TREE WITH THE OPTIMAL CP VALUE
PTREE=prune(CART_MODEL, cp=0.005) plot(PTREE,uniform = TRUE)
text(PTREE,use.n = TRUE, all=TRUE,cex=0.4,xpd=TRUE)

```

```

printcp(PTREE)
##
## Classification tree:
## rpart(formula = Claimed ~ ., data = TRAIN, method = "class",
##       control = CONTROL_PARAMETER)
##
## Variables actually used in tree construction:
## [1] Agency_Code Commision   Duration   Sales
##
## Root node error: 642/2100 = 0.30571
##
## n= 2100
##
##          CP nsplit rel error  xerror      xstd
## 1 0.2133956      0 1.00000 1.00000 0.032885
## 2 0.0638629      1 0.78660 0.78660 0.030506
## 3 0.0202492      2 0.72274 0.75389 0.030061
## 4 0.0163551      3 0.70249 0.73053 0.029728

```

```

## 5 0.0116822      5    0.66978 0.72586 0.029660
## 6 0.0077882      7    0.64642 0.70249 0.029313
## 7 0.0050000      8    0.63863 0.68069 0.028976

##### ATTACHING THE PREDICTION CLASS TO THE ORIGINAL DATASET

TRAIN$predict.class<-predict(PTREE,TRAIN,type = "class")

TRAIN$predict.class

##      [1] No  No  No  No  No  No  Yes Yes No  Yes No  No  No  No  No  No  No  No
No

##      [19] No  No  No  No  Yes No  Yes Yes No  No  No  Yes No  No  Yes No  No  Yes No
No

##      [37] Yes Yes No  No  Yes No  No  No  No  Yes No  No  Yes No  No  Yes No  Yes Yes No
No

##      [55] No  No  Yes No  No  No  Yes Yes Yes No  No  No  Yes No  Yes No  Yes No  No
No

##      [73] No  No  No  No  Yes No  No  No  No  No  No  Yes No  No  Yes No  Yes No  No
No

##      [91] No  No
Yes

##      [109] No  Yes No  Yes No  No  Yes No  No
No

##      [127] No  Yes No  Yes Yes No  Yes No  No  No  No  Yes No  No  Yes No  No  No  No
No

##      [145] No  Yes No  No  Yes No  No  No  No  Yes No  No  Yes No  No  Yes No  No  No
Yes

##      [163] Yes Yes No  No  No  No  Yes Yes No  No  No  No  No  Yes No  No  Yes No  No
Yes

##      [181] Yes No  Yes No  No  No  No  Yes Yes Yes No  No  No  No  No  Yes No  No  No
No

##      [199] No  No  Yes No  No  No  No  No  Yes No  No  No  No  Yes No  No  Yes No  No
Yes

##      [217] Yes No  Yes No  No  No  Yes No  No
No

##      [235] No  No  Yes No  No
No

##      [253] No  No  No  No  Yes No  No  No  No  Yes No  No  No  No  No  No  No  No  No
No

##      [271] No  Yes No  Yes Yes No  No  Yes No  No  No  Yes No  No  No  No  No  No  No
No

##      [289] No  No  No  No  No  No  Yes No  Yes No
No

```

##	[307]	No	No	No	Yes	Yes	No	Yes	No	Yes	No									
Yes																				
##	[325]	No	No	No	Yes	No	No	No	No	Yes	Yes	No	No	No	Yes	No	No	Yes	No	No
Yes																				
##	[343]	No	Yes																	
No																				
##	[361]	No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No
No																				
##	[379]	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
No																				
##	[397]	No	Yes	No	Yes	No	No													
No																				
##	[415]	No	No	No	No	No	Yes	No	Yes											
No																				
##	[433]	No	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	No	No						
Yes																				
##	[451]	Yes	No	No	Yes	Yes	No	No	No	Yes	No	Yes								
No																				
##	[469]	No	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes						
No																				
##	[487]	No	No	No	Yes	No	No	No	No	Yes	Yes	No	Yes							
No																				
##	[505]	No	No	No	No	No	Yes	No	No	No	No	Yes	Yes	Yes	No	Yes	No	No	No	No
No																				
##	[523]	No	Yes	No	No	No	Yes	No												
Yes																				
##	[541]	No	Yes	No																
No																				
##	[559]	No	No	Yes	No	Yes	Yes	Yes	No											
Yes																				
##	[577]	No	No	No	Yes	No	Yes	No	Yes	No	Yes	Yes	No							
Yes																				
##	[595]	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No								
No																				
##	[613]	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	No	No	No
Yes																				
##	[631]	No	No	Yes	Yes	No	No	No	No	Yes	No	Yes	No							
Yes																				
##	[649]	No	Yes	No	No	No	Yes	No	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes	No	No
No																				
##	[667]	No	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No							
No																				

##	[685]	No	Yes	No	Yes	No	No	No	Yes	No	No	Yes	No	No	No	No	Yes	Yes
Yes																		
##	[703]	Yes	No	No	No	No	No	Yes	No	Yes	No							
Yes																		
##	[721]	No	Yes	No	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No	Yes
Yes																		
##	[739]	No	Yes	No	No	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No	Yes	Yes
Yes																		
##	[757]	No	Yes	No	Yes	No												
No																		
##	[775]	No	No	No	Yes	No	No	No	No	Yes	No	No	Yes	No	Yes	No	No	No
No																		
##	[793]	No	No	Yes	No	No	No	Yes	No	No	Yes	Yes	Yes	No	No	No	No	Yes
Yes																		
##	[811]	No	No	No	No	No	Yes	Yes	No	No	No	Yes	No	No	No	No	No	No
Yes																		
##	[829]	Yes	No	No	Yes	No	No	Yes	No	Yes	No							
No																		
##	[847]	No	No	No	Yes	No	No	No	No	Yes	Yes	No	No	Yes	No	No	No	No
No																		
##	[865]	Yes	No	No	No	No	No	Yes	No									
No																		
##	[883]	No	No	No	No	No	Yes	No	Yes									
No																		
##	[901]	Yes	No	Yes	No	No	Yes	No	Yes	No	No	No						
No																		
##	[919]	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes	No	Yes	No	Yes	Yes
No																		
##	[937]	No	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	No	No	No
No																		
##	[955]	No	Yes	No	No	No	No											
No																		
##	[973]	Yes	No	No	No	Yes	No	No	Yes	No	No	No	No	Yes	No	No	No	No
Yes																		
##	[991]	No	No	No	No	No	No	Yes	No	Yes	No							
No																		
##	[1009]	Yes	No	No	No	No	Yes	No	No	No	Yes	No	Yes	Yes	No	No	No	No
Yes																		
##	[1027]	No	No	No	Yes	No	No	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No
No																		
##	[1045]	Yes	No	No	No	No	Yes	No	No	Yes	No	No	No	No	Yes	No	No	No
No																		

```

## [1063] No Yes Yes No No Yes No No Yes No No Yes No No No No No No
No

## [1081] No No No Yes No No Yes No Yes No No Yes No No Yes No No Yes No
Yes

## [1099] No No No No No No No No No Yes Yes No No No No No No No No
No

## [1117] No No No Yes No No Yes No Yes Yes No No No No No No No No Yes
No

## [1135] Yes No No No Yes No No Yes No No Yes No No No No No No Yes Yes
No

## [1153] No No No Yes No No No No No No No No No Yes No Yes No
No

## [1171] Yes Yes No No No Yes No No No No No No No No Yes Yes No Yes
No

## [1189] No No Yes No Yes No No No No No No No Yes Yes Yes No No
No

## [1207] Yes No Yes No No
No

## [1225] No Yes Yes Yes No No No No No Yes No No No Yes No No No Yes No
Yes

## [1243] No Yes No No Yes No No No Yes No No No Yes No No No Yes No No
No

## [1261] Yes Yes Yes No No No Yes No Yes No No No Yes No No No Yes No
No

## [1279] No No No Yes No Yes Yes No Yes No Yes No Yes No Yes No Yes Yes
No

## [1297] No No No No Yes No No No No Yes No No No Yes No No No Yes No
No

## [1315] No No No Yes No No No No No Yes No No Yes Yes Yes Yes No No Yes
Yes

## [1333] No No No No Yes No No No No Yes Yes Yes Yes No No No Yes No
No

## [1351] No No No No No No No No No Yes No No Yes No No Yes No No Yes No
No

## [1369] Yes No No Yes Yes No No No No No No Yes No No Yes Yes Yes Yes No
No

## [1387] No No No No Yes Yes No Yes No Yes No No Yes No Yes No Yes No
No

## [1405] No No No Yes Yes No No Yes Yes Yes No No Yes No Yes No Yes No
No

## [1423] No Yes Yes Yes Yes No Yes No No Yes No No Yes No No Yes No No Yes
No

```

```

## [1441] Yes Yes No No No Yes No No Yes No Yes No Yes No No No Yes Yes
Yes

## [1459] No No Yes No Yes No No No Yes No Yes No Yes No No Yes No Yes
No

## [1477] No No No No No No Yes No No No No No No Yes No Yes No Yes
No

## [1495] No Yes No Yes No Yes No No No No Yes No No No Yes No No No No
No

## [1513] No No Yes No No
No

## [1531] No No No Yes No Yes No
Yes

## [1549] Yes No No No No No No Yes No No Yes No No Yes Yes No No No Yes
Yes

## [1567] No No No Yes No No No No No No Yes No No Yes No No No Yes No
No

## [1585] Yes No Yes
No

## [1603] No No No No No No No No No Yes No Yes No No Yes No Yes No No
No

## [1621] No No No No No Yes No Yes No Yes No
No

## [1639] Yes No No Yes Yes Yes No No No No No No No Yes No Yes No No No
No

## [1657] No No No Yes No Yes Yes Yes No Yes No No No No No No No Yes
No

## [1675] No No No Yes No No No No Yes No No
No

## [1693] No No Yes No No No No No No No Yes No No Yes Yes No Yes Yes No
Yes

## [1711] No Yes No No No No No Yes No No Yes No Yes No Yes No Yes No No
No

## [1729] Yes No Yes Yes Yes No Yes Yes No No
No

## [1747] No No No Yes No No Yes Yes Yes Yes No No Yes No No No Yes No
No

## [1765] Yes Yes No Yes Yes No No Yes No No No Yes No No Yes No Yes No
No

## [1783] Yes Yes No No Yes No Yes Yes No Yes No Yes No Yes No Yes No No
Yes

## [1801] No No No No Yes No No No No No No No Yes Yes No No Yes Yes
No

```

```

## [1819] No No No Yes No No No Yes Yes No Yes No No No No Yes
No

## [1837] No No Yes No No Yes Yes No No No No No Yes No No No
No

## [1855] No No No Yes No No No Yes No Yes No No Yes No No No
No

## [1873] Yes No Yes No Yes No No No No No No No Yes Yes No
No

## [1891] No No Yes Yes No No No No Yes No No Yes No No No
No

## [1909] No No No No No No Yes No Yes Yes No Yes Yes Yes No
No

## [1927] No No Yes Yes No No No No No Yes No Yes No No Yes Yes Yes No
Yes

## [1945] No No Yes No No No Yes Yes No Yes Yes No No Yes No Yes Yes
Yes

## [1963] No No No No No Yes No No Yes No No No No Yes No No
Yes

## [1981] No No Yes No No No Yes No Yes No Yes No Yes Yes No No No
No

## [1999] Yes No No Yes No No Yes Yes No No No No No No No No
Yes

## [2017] No No Yes No No No No Yes No Yes No No Yes No Yes No Yes No
Yes

## [2035] No Yes No No No No Yes No Yes No Yes No No Yes No No No
No

## [2053] Yes No Yes No Yes No Yes Yes No Yes No No No Yes No Yes No
No

## [2071] Yes No Yes No No No Yes No No No No No Yes No Yes No Yes No
Yes

## [2089] Yes No No No Yes No No Yes Yes No No No

## Levels: No Yes

View(TRAIN)

##### EXTRACTING THE PROBABILITY SCORES

predict(PTREE,TRAIN)

##          No        Yes
## 1 0.8082192 0.19178082
## 2 0.9229630 0.07703704
## 4 0.9229630 0.07703704
## 7 0.7636122 0.23638778

```

```
## 8    0.7636122 0.23638778
## 9    0.9229630 0.07703704
## 10   0.7636122 0.23638778
## 11   0.2397820 0.76021798
## 12   0.2397820 0.76021798
## 13   0.7636122 0.23638778
## 14   0.4097222 0.59027778
## 15   0.7636122 0.23638778
## 17   0.7636122 0.23638778
## 18   0.7636122 0.23638778
## 19   0.7636122 0.23638778
## 21   0.7636122 0.23638778
## 26   0.7636122 0.23638778
## 27   0.9229630 0.07703704
## 28   0.9229630 0.07703704
## 29   0.9229630 0.07703704
## 30   0.7636122 0.23638778
## 31   0.9229630 0.07703704
## 32   0.2397820 0.76021798
## 33   0.7636122 0.23638778
## 34   0.2397820 0.76021798
## 36   0.2397820 0.76021798
## 37   0.9229630 0.07703704
## 38   0.7636122 0.23638778
## 40   0.9229630 0.07703704
## 41   0.9229630 0.07703704
## 42   0.4097222 0.59027778
## 43   0.8082192 0.19178082
## 45   0.9229630 0.07703704
## 47   0.2397820 0.76021798
## 48   0.7636122 0.23638778
## 51   0.9229630 0.07703704
## 52   0.2397820 0.76021798
## 53   0.2397820 0.76021798
```

```
## 54 0.9229630 0.07703704
## 55 0.9229630 0.07703704
## 56 0.4097222 0.59027778
## 57 0.7636122 0.23638778
## 58 0.7636122 0.23638778
## 60 0.9047619 0.09523810
## 62 0.9229630 0.07703704
## 64 0.2397820 0.76021798
## 65 0.7636122 0.23638778
## 68 0.9229630 0.07703704
## 70 0.2397820 0.76021798
## 71 0.9229630 0.07703704
## 72 0.2397820 0.76021798
## 73 0.4097222 0.59027778
## 74 0.9229630 0.07703704
## 75 0.9229630 0.07703704
## 76 0.9229630 0.07703704
## 77 0.9229630 0.07703704
## 78 0.2397820 0.76021798
## 80 0.9229630 0.07703704
## 81 0.9229630 0.07703704
## 82 0.7636122 0.23638778
## 84 0.2397820 0.76021798
## 85 0.2397820 0.76021798
## 86 0.4097222 0.59027778
## 87 0.9229630 0.07703704
## 88 0.7636122 0.23638778
## 89 0.9229630 0.07703704
## 92 0.2397820 0.76021798
## 93 0.9229630 0.07703704
## 94 0.2397820 0.76021798
## 95 0.7636122 0.23638778
## 96 0.9229630 0.07703704
## 97 0.9229630 0.07703704
```

```
## 99 0.9229630 0.07703704
## 100 0.7636122 0.23638778
## 101 0.8082192 0.19178082
## 102 0.9229630 0.07703704
## 103 0.2397820 0.76021798
## 105 0.8082192 0.19178082
## 106 0.7636122 0.23638778
## 108 0.9229630 0.07703704
## 110 0.9229630 0.07703704
## 112 0.9229630 0.07703704
## 113 0.7636122 0.23638778
## 114 0.2397820 0.76021798
## 115 0.9229630 0.07703704
## 117 0.9229630 0.07703704
## 118 0.4097222 0.59027778
## 119 0.7636122 0.23638778
## 122 0.7241379 0.27586207
## 123 0.7636122 0.23638778
## 124 0.9229630 0.07703704
## 126 0.9229630 0.07703704
## 127 0.7636122 0.23638778
## 129 0.7636122 0.23638778
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## 148 0.7636122 0.23638778
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## 189 0.2222222 0.77777778
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## 197 0.2397820 0.76021798
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## 199 0.9229630 0.07703704
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## 241 0.7636122 0.23638778
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## 244 0.9229630 0.07703704
## 245 0.7636122 0.23638778
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 021798 ## 946 0.2397820 0.76021798 ## 947 0.2397820 0.76021798 ## 950 0.92296
 30 0.07703704 ## 951 0.9229630 0.07703704 ## 954 0.7636122 0.23638778 ## 957
 0.9229630 0.07703704 ## 960 0.7636122 0.23638778 ## 961 0.7636122 0.23638778
 ## 963 0.7636122 0.23638778 ## 965 0.7636122 0.23638778 ## 967 0.2397820 0.76
 021798 ## 968 0.7636122 0.23638778 ## 969 0.7636122 0.23638778 ## 970 0.80821
 92 0.19178082 ## 973 0.9229630 0.07703704 ## 974 0.7636122 0.23638778 ## 975
 0.9229630 0.07703704 ## 976 0.2397820 0.76021798 ## 977 0.8082192 0.19178082
 ## 978 0.4097222 0.59027778 ## 980 0.7636122 0.23638778 ## 981 0.8082192 0.19
 178082 ## 982 0.7636122 0.23638778 ## 983 0.2397820 0.76021798 ## 984 0.76361
 22 0.23638778 ## 985 0.7636122 0.23638778 ## 986 0.2397820 0.76021798 ## 987

0.7636122	0.23638778	## 991	0.7636122	0.23638778	## 994	0.7241379	0.27586207	
## 997	0.7636122	0.23638778	## 998	0.2397820	0.76021798	## 999	0.4097222	0.59
027778	## 1000	0.4097222	0.59027778	## 1001	0.2397820	0.76021798	## 1002	0.76
36122	0.23638778	## 1006	0.7636122	0.23638778	## 1008	0.7636122	0.23638778	## 1009
0.7636122	0.23638778	## 1010	0.9229630	0.07703704	## 1011	0.7636122	0.23	
638778	## 1013	0.2397820	0.76021798	## 1014	0.7636122	0.23638778	## 1015	0.23
97820	0.76021798	## 1016	0.7636122	0.23638778	## 1017	0.9229630	0.07703704	## 1020
0.9229630	0.07703704	## 1021	0.7636122	0.23638778	## 1022	0.9229630	0.07	
703704	## 1023	0.7636122	0.23638778	## 1024	0.7636122	0.23638778	## 1026	0.23
97820	0.76021798	## 1027	0.7636122	0.23638778	## 1029	0.2397820	0.76021798	## 1030
0.7636122	0.23638778	## 1037	0.9229630	0.07703704	## 1038	0.2397820	0.76	
021798	## 1039	0.8082192	0.19178082	## 1040	0.9229630	0.07703704	## 1041	0.92
29630	0.07703704	## 1042	0.9229630	0.07703704	## 1043	0.7636122	0.23638778	## 1044
0.4097222	0.59027778	## 1045	0.7636122	0.23638778	## 1046	0.9229630	0.07	
703704	## 1047	0.9229630	0.07703704	## 1048	0.9229630	0.07703704	## 1049	0.76
36122	0.23638778	## 1050	0.2397820	0.76021798	## 1051	0.2397820	0.76021798	## 1052
0.9229630	0.07703704	## 1054	0.2397820	0.76021798	## 1055	0.9229630	0.07	
703704	## 1057	0.9047619	0.09523810	## 1060	0.9229630	0.07703704	## 1062	0.72
72727	0.27272727	## 1063	0.4097222	0.59027778	## 1064	0.2397820	0.76021798	## 1066
0.2397820	0.76021798	## 1069	0.8082192	0.19178082	## 1073	0.9229630	0.07	
703704	## 1074	0.9229630	0.07703704	## 1075	0.7636122	0.23638778	## 1076	0.40
97222	0.59027778	## 1078	0.9229630	0.07703704	## 1079	0.9229630	0.07703704	## 1080
0.2222222	0.77777778	## 1083	0.4097222	0.59027778	## 1086	0.7636122	0.23	
638778	## 1087	0.2397820	0.76021798	## 1089	0.7636122	0.23638778	## 1090	0.92
29630	0.07703704	## 1091	0.9229630	0.07703704	## 1092	0.9229630	0.07703704	## 1093
0.7636122	0.23638778	## 1094	0.9229630	0.07703704	## 1095	0.9229630	0.07	
703704	## 1098	0.7636122	0.23638778	## 1099	0.9229630	0.07703704	## 1100	0.23
97820	0.76021798	## 1101	0.7636122	0.23638778	## 1102	0.7636122	0.23638778	## 1103
0.7636122	0.23638778	## 1104	0.9229630	0.07703704	## 1105	0.9229630	0.07	
703704	## 1106	0.8082192	0.19178082	## 1107	0.9229630	0.07703704	## 1108	0.72
41379	0.27586207	## 1109	0.9229630	0.07703704	## 1110	0.2397820	0.76021798	## 1111
0.7636122	0.23638778	## 1112	0.9229630	0.07703704	## 1113	0.7636122	0.23	
638778	## 1114	0.9229630	0.07703704	## 1116	0.9047619	0.09523810	## 1118	0.23
97820	0.76021798	## 1119	0.7636122	0.23638778	## 1120	0.7636122	0.23638778	## 1121
0.4097222	0.59027778	## 1124	0.7636122	0.23638778	## 1128	0.2397820	0.76	
021798	## 1129	0.7636122	0.23638778	## 1130	0.9229630	0.07703704	## 1134	0.76
36122	0.23638778	## 1135	0.9229630	0.07703704	## 1136	0.7636122	0.23638778	## 1137
0.4097222	0.59027778	## 1138	0.7636122	0.23638778	## 1139	0.8082192	0.19	
178082	## 1141	0.7636122	0.23638778	## 1142	0.2397820	0.76021798	## 1143	0.92
29630	0.07703704	## 1144	0.7636122	0.23638778	## 1145	0.2222222	0.77777778	## 1146
0.2397820	0.76021798	## 1148	0.4097222	0.59027778	## 1151	0.7636122	0.23	
638778	## 1152	0.9229630	0.07703704	## 1153	0.7636122	0.23638778	## 1154	0.76
36122	0.23638778	## 1155	0.2397820	0.76021798	## 1156	0.2222222	0.77777778	## 1157
0.7636122	0.23638778	## 1158	0.7636122	0.23638778	## 1159	0.9229630	0.07	
703704	## 1160	0.9229630	0.07703704	## 1161	0.7636122	0.23638778	## 1162	0.23
97820	0.76021798	## 1163	0.4097222	0.59027778	## 1164	0.7636122	0.23638778	## 1166
0.7636122	0.23638778	## 1168	0.7636122	0.23638778	## 1169	0.9229630	0.07	
703704	## 1172	0.2397820	0.76021798	## 1173	0.9229630	0.07703704	## 1174	0.80
82192	0.19178082	## 1175	0.7636122	0.23638778	## 1176	0.9229630	0.07703704	## 1178
0.7636122	0.23638778	## 1179	0.2397820	0.76021798	## 1180	0.2397820	0.76	
021798	## 1181	0.7636122	0.23638778	## 1182	0.9229630	0.07703704	## 1186	0.23
97820	0.76021798	## 1187	0.7636122	0.23638778	## 1189	0.9229630	0.07703704	## 1190
0.7636122	0.23638778	## 1192	0.4097222	0.59027778	## 1195	0.7636122	0.23	
638778	## 1196	0.7636122	0.23638778	## 1198	0.7636122	0.23638778	## 1199	0.92
29630	0.07703704	## 1200	0.8082192	0.19178082	## 1201	0.7636122	0.23638778	## 1202
0.7636122	0.23638778	## 1203	0.2397820	0.76021798	## 1205	0.7636122	0.23	
638778	## 1206	0.7636122	0.23638778	## 1209	0.7636122	0.23638778	## 1211	0.76

36122	0.23638778	## 1212	0.7636122	0.23638778	## 1216	0.2397820	0.76021798	## 1217	0.7636122	0.23638778	## 1220	0.7272727	0.27272727	## 1223	0.9229630	0.07703704		
703704	## 1224	0.9229630	0.07703704	## 1226	0.2397820	0.76021798	## 1228	0.2397820	0.76021798	## 1230	0.7636122	0.23638778	## 1231	0.9229630	0.07703704			
97820	0.76021798	## 1233	0.2397820	0.76021798	## 1235	0.9229630	0.07703704	## 1238	0.8082192	0.19178082	## 1239	0.9229630	0.07703704	## 1241	0.9229630	0.07703704		
178082	## 1242	0.9229630	0.07703704	## 1244	0.2397820	0.76021798	## 1245	0.9229630	0.07703704	## 1247	0.9229630	0.07703704	## 1249	0.7636122	0.23638778			
29630	0.07703704	## 1250	0.7636122	0.23638778	## 1251	0.2397820	0.76021798	## 1252	0.7636122	0.23638778	## 1253	0.7636122	0.23638778	## 1254	0.9229630	0.07703704		
1256	0.9229630	0.07703704	## 1257	0.9229630	0.07703704	## 1259	0.9229630	0.07703704	## 1260	0.7636122	0.23638778	## 1261	0.8082192	0.19178082	## 1262	0.7636122	0.23638778	
36122	0.23638778	## 1263	0.7636122	0.23638778	## 1264	0.7636122	0.23638778	## 1266	0.7636122	0.23638778	## 1268	0.7636122	0.23638778	## 1270	0.9229630	0.07703704		
638778	## 1271	0.7636122	0.23638778	## 1272	0.9229630	0.07703704	## 1274	0.7636122	0.23638778	## 1276	0.9229630	0.07703704	## 1277	0.4097222	0.59027778			
703704	## 1283	0.2397820	0.76021798	## 1284	0.9229630	0.07703704	## 1285	0.7636122	0.23638778	## 1288	0.7636122	0.23638778	## 1291	0.7636122	0.23638778			
1290	0.2397820	0.76021798	## 1291	0.7636122	0.23638778	## 1292	0.4097222	0.59027778	## 1293	0.9229630	0.07703704	## 1294	0.23638778	0.76021798	## 1297	0.9229630		
027778	## 1298	0.7636122	0.23638778	## 1299	0.2397820	0.76021798	## 1300	0.7636122	0.23638778	## 1301	0.8082192	0.19178082	## 1302	0.9229630	0.07703704			
703704	## 1303	0.7636122	0.23638778	## 1304	0.7636122	0.23638778	## 1305	0.7636122	0.23638778	## 1308	0.7636122	0.23638778	## 1310	0.7636122	0.23638778			
29630	0.07703704	## 1313	0.7636122	0.23638778	## 1314	0.9229630	0.07703704	## 1315	0.9229630	0.07703704	## 1316	0.7636122	0.23638778	## 1317	0.9229630	0.07703704		
29630	0.07703704	## 1318	0.2397820	0.76021798	## 1319	0.7636122	0.23638778	## 1320	0.9229630	0.07703704	## 1322	0.4097222	0.59027778	## 1323	0.9229630	0.07703704		
703704	## 1325	0.7636122	0.23638778	## 1327	0.7636122	0.23638778	## 1330	0.9229630	0.07703704	## 1331	0.23638778	0.76021798	## 1333	0.7636122	0.23638778	## 1334	0.2397820	
36122	0.23638778	## 1344	0.9229630	0.07703704	## 1345	0.7636122	0.23638778	## 1347	0.7636122	0.23638778	## 1348	0.7636122	0.23638778	## 1350	0.2397820	0.76021798		
638778	## 1351	0.7636122	0.23638778	## 1352	0.2397820	0.76021798	## 1354	0.7636122	0.23638778	## 1355	0.8082192	0.19178082	## 1356	0.8082192	0.19178082	## 1358	0.9229630	
29630	0.07703704	## 1359	0.9229630	0.07703704	## 1361	0.7636122	0.23638778	## 1360	0.2397820	0.76021798	## 1362	0.19178082	0.23638778	## 1364	0.7636122	0.23638778		
82192	0.19178082	## 1365	0.7636122	0.23638778	## 1366	0.8082192	0.19178082	## 1367	0.7636122	0.23638778	## 1368	0.7636122	0.23638778	## 1369	0.7636122	0.23638778		
638778	## 1370	0.9229630	0.07703704	## 1371	0.7636122	0.23638778	## 1372	0.2397820	0.76021798	## 1373	0.7636122	0.23638778	## 1374	0.9229630	0.07703704	## 1375	0.7636122	
36122	0.23638778	## 1376	0.9229630	0.07703704	## 1377	0.7636122	0.23638778	## 1378	0.2397820	0.76021798	## 1379	0.9229630	0.07703704	## 1380	0.7636122	0.23638778		
638778	## 1381	0.9229630	0.07703704	## 1382	0.7636122	0.23638778	## 1383	0.2397820	0.76021798	## 1384	0.9229630	0.07703704	## 1385	0.9229630	0.07703704	## 1386	0.9047619	
027778	## 1387	0.7272727	0.27272727	## 1388	0.4097222	0.59027778	## 1389	0.9229630	0.07703704	## 1390	0.7636122	0.23638778	## 1391	0.7241379	0.27586207	## 1392	0.9229630	
29630	0.07703704	## 1393	0.9229630	0.07703704	## 1394	0.7636122	0.23638778	## 1395	0.4097222	0.59027778	## 1396	0.9229630	0.07703704	## 1397	0.9229630	0.07703704	## 1398	0.76021798
1397	0.9229630	0.07703704	## 1399	0.2397820	0.76021798	## 1400	0.7636122	0.23638778	## 1401	0.8082192	0.19178082	## 1402	0.7636122	0.23638778	## 1403	0.9229630	0.07703704	
178082	## 1404	0.9229630	0.07703704	## 1405	0.7636122	0.23638778	## 1406	0.8082192	0.19178082	## 1407	0.7636122	0.23638778	## 1408	0.4097222	0.59027778	## 1409	0.9047619	
29630	0.07703704	## 1410	0.7636122	0.23638778	## 1411	0.8082192	0.19178082	## 1412	0.7636122	0.23638778	## 1413	0.7636122	0.23638778	## 1414	0.2397820	0.76021798		
638778	## 1415	0.9229630	0.07703704	## 1416	0.9229630	0.07703704	## 1417	0.9229630	0.07703704	## 1418	0.7241379	0.27586207	## 1419	0.9229630	0.07703704	## 1420	0.76021798	
1420	0.9229630	0.07703704	## 1421	0.7636122	0.23638778	## 1422	0.4097222	0.59027778	## 1423	0.7636122	0.23638778	## 1424	0.2397820	0.76021798	## 1425	0.7636122	0.23638778	

82192	0.19178082	## 1429	0.9229630	0.07703704	## 1430	0.9229630	0.07703704	## 1431	0.9229630	0.07703704	## 1432	0.9229630	0.07703704	## 1433	0.8082192	0.19178082	## 1434	0.9229630	0.07703704	## 1435	0.7636122	0.23638778	## 1438	0.7636122	0.23638778	## 1439	0.2397820	0.76021798	## 1440	0.8082192	0.19178082	## 1441	0.7636122	0.23638778	## 1443	0.9229630	0.07703704	## 1444	0.7636122	0.23638778	## 1445	0.2222222	0.77777778	## 1446	0.7636122	0.23638778	## 1449	0.9229630	0.07703704	## 1450	0.9229630	0.07703704	## 1451	0.2222222	0.77777778	## 1452	0.9229630	0.07703704	## 1455	0.2397820	0.76021798	## 1456	0.2397820	0.76021798	## 1458	0.9229630	0.07703704	## 1459	0.9229630	0.07703704	## 1460	0.7636122	0.23638778	## 1462	0.7636122	0.23638778	## 1463	0.4097222	0.59027778	## 1464	0.7636122	0.23638778	## 1465	0.7636122	0.23638778	## 1466	0.9229630	0.07703704	## 1468	0.4097222	0.59027778	## 1469	0.7636122	0.23638778	## 1470	0.7636122	0.23638778	## 1473	0.2397820	0.76021798	## 1474	0.2397820	0.76021798	## 1476	0.7636122	0.23638778	## 1477	0.9229630	0.07703704	## 1478	0.2397820	0.76021798	## 1480	0.9229630	0.07703704	## 1481	0.9229630	0.07703704	## 1483	0.9229630	0.07703704	## 1485	0.7636122	0.23638778	## 1486	0.2397820	0.76021798	## 1487	0.9229630	0.07703704	## 1488	0.7636122	0.23638778	## 1489	0.2397820	0.76021798	## 1490	0.9229630	0.07703704	## 1491	0.9229630	0.07703704	## 1492	0.7636122	0.23638778	## 1493	0.9229630	0.07703704	## 1494	0.2397820	0.76021798	## 1495	0.7636122	0.23638778	## 1496	0.9229630	0.07703704	## 1497	0.2397820	0.76021798	## 1499	0.9229630	0.07703704	## 1500	0.9229630	0.07703704	## 1502	0.7636122	0.23638778	## 1503	0.9229630	0.07703704	## 1505	0.7636122	0.23638778	## 1507	0.2397820	0.76021798	## 1508	0.7272727	0.27272727	## 1510	0.7636122	0.23638778	## 1511	0.9229630	0.07703704	## 1512	0.8082192	0.19178082	## 1513	0.4097222	0.59027778	## 1516	0.59027778	## 1518	0.7636122	0.23638778	## 1519	0.9229630	0.07703704	## 1520	0.7636122	0.23638778	## 1521	0.2397820	0.76021798	## 1522	0.9229630	0.07703704	## 1523	0.7636122	0.23638778	## 1524	0.2397820	0.76021798	## 1526	0.9229630	0.07703704	## 1529	0.7636122	0.23638778	## 1530	0.7636122	0.23638778	## 1531	0.9229630	0.07703704	## 1532	0.9229630	0.07703704	## 1533	0.7636122	0.23638778	## 1534	0.7636122	0.23638778	## 1535	0.9229630	0.07703704	## 1536	0.9229630	0.07703704	## 1537	0.7636122	0.23638778	## 1538	0.9229630	0.07703704	## 1539	0.2397820	0.76021798	## 1541	0.7636122	0.23638778	## 1543	0.7636122	0.23638778	## 1545	0.4097222	0.59027778	## 1547	0.9229630	0.07703704	## 1548	0.4097222	0.59027778	## 1549	0.7636122	0.23638778	## 1551	0.7636122	0.23638778	## 1553	0.4097222	0.59027778	## 1555	0.9229630	0.07703704	## 1556	0.9229630	0.07703704	## 1557	0.2397820	0.76021798	## 1558	0.76021798	0.23638778	## 1559	0.7636122	0.23638778	## 1560	0.2397820	0.76021798	## 1562	0.9229630	0.07703704	## 1564	0.7636122	0.23638778	## 1566	0.7636122	0.23638778	## 1567	0.9229630	0.07703704	## 1568	0.9229630	0.07703704	## 1570	0.7636122	0.23638778	## 1572	0.9229630	0.07703704	## 1573	0.7636122	0.23638778	## 1575	0.9047619	0.09523810	## 1578	0.7636122	0.23638778	## 1579	0.4097222	0.59027778	## 1577	0.1581	0.2397820	0.76021798	## 1583	0.7636122	0.23638778	## 1584	0.7636122	0.23638778	## 1590	0.7636122	0.23638778	## 1591	0.7636122	0.23638778	## 1592	0.9229630	0.07703704	## 1593	0.9229630	0.07703704	## 1594	0.7636122	0.23638778	## 1595	0.7636122	0.23638778	## 1596	0.7636122	0.23638778	## 1597	0.9229630	0.07703704	## 1599	0.7241379	0.27586207	## 1601	0.9229630	0.07703704	## 1602	0.7636122	0.23638778	## 1603	0.4097222	0.59027778	## 1606	0.9229630	0.07703704	## 1607	0.2397820	0.76021798	## 1610	0.2397820	0.76021798	## 1611	0.76021798	0.23638778	## 1613	0.7636122	0.23638778	## 1616	0.7636122	0.23638778	## 1617	0.9229630	0.07703704	## 1618	0.7636122	0.23638778	## 1621	0.2397820	0.76021798	## 1622	0.7241379	0.27586207	## 1623	0.2397820	0.76021798	## 1625	0.7636122	0.23638778	## 1627	0.9229630	0.07703704	## 1632	0.7636122	0.23638778	## 1634	0.8082192	0.19178082	## 1635	0.9229630	0.07703704	## 1636	0.2397820	0.76021798	## 1637	0.8082192	0.19178082	## 1638	0.9229630	0.07703704	## 1639	0.9229630	0.07703704	## 1642	0.7636122	0.23638778	## 1643	0.9229630	0.07703704	## 1644	0.9229630	0.07703704	## 1645	0.2397820	0.76021798	## 1646	0.4097222	0.59027778	## 1647	0.76021798
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36122	0.23638778	##	1648	0.7636122	0.23638778	##	1650	0.7636122	0.23638778	##	
1652	0.9229630	0.07703704	##	1653	0.2397820	0.76021798	##	1654	0.9229630	0.07	
703704	##	1655	0.7636122	0.23638778	##	1658	0.9229630	0.07703704	##	1659	0.92
29630	0.07703704	##	1660	0.7636122	0.23638778	##	1661	0.9229630	0.07703704	##	
1662	0.7636122	0.23638778	##	1663	0.9229630	0.07703704	##	1666	0.9229630	0.07	
703704	##	1668	0.2397820	0.76021798	##	1669	0.7636122	0.23638778	##	1670	0.23
97820	0.76021798	##	1671	0.9229630	0.07703704	##	1672	0.7636122	0.23638778	##	
1674	0.2397820	0.76021798	##	1675	0.4097222	0.59027778	##	1677	0.7636122	0.23	
638778	##	1678	0.9229630	0.07703704	##	1679	0.7636122	0.23638778	##	1682	0.23
97820	0.76021798	##	1683	0.7636122	0.23638778	##	1684	0.7636122	0.23638778	##	
1686	0.7241379	0.27586207	##	1687	0.7636122	0.23638778	##	1688	0.7636122	0.23	
638778	##	1689	0.7636122	0.23638778	##	1690	0.9229630	0.07703704	##	1691	0.40
97222	0.59027778	##	1692	0.2397820	0.76021798	##	1694	0.9229630	0.07703704	##	
1696	0.2397820	0.76021798	##	1698	0.7636122	0.23638778	##	1700	0.7636122	0.23	
638778	##	1701	0.9229630	0.07703704	##	1702	0.2397820	0.76021798	##	1703	0.92
29630	0.07703704	##	1705	0.2397820	0.76021798	##	1707	0.7636122	0.23638778	##	
1708	0.9229630	0.07703704	##	1709	0.9229630	0.07703704	##	1710	0.9229630	0.07	
703704	##	1713	0.7636122	0.23638778	##	1714	0.9229630	0.07703704	##	1716	0.76
36122	0.23638778	##	1717	0.2397820	0.76021798	##	1718	0.4097222	0.59027778	##	
1722	0.2397820	0.76021798	##	1723	0.9229630	0.07703704	##	1725	0.9229630	0.07	
703704	##	1726	0.9229630	0.07703704	##	1727	0.2397820	0.76021798	##	1729	0.92
29630	0.07703704	##	1730	0.2397820	0.76021798	##	1731	0.7636122	0.23638778	##	
1732	0.9229630	0.07703704	##	1733	0.7636122	0.23638778	##	1734	0.9229630	0.07	
703704	##	1735	0.9229630	0.07703704	##	1736	0.9229630	0.07703704	##	1737	0.92
29630	0.07703704	##	1738	0.7636122	0.23638778	##	1739	0.9229630	0.07703704	##	
1740	0.7636122	0.23638778	##	1741	0.9229630	0.07703704	##	1742	0.9229630	0.07	
703704	##	1743	0.7636122	0.23638778	##	1744	0.9229630	0.07703704	##	1747	0.80
82192	0.19178082	##	1748	0.7636122	0.23638778	##	1749	0.2397820	0.76021798	##	
1752	0.2397820	0.76021798	##	1753	0.2397820	0.76021798	##	1754	0.7636122	0.23	
638778	##	1756	0.7636122	0.23638778	##	1757	0.7636122	0.23638778	##	1758	0.92
29630	0.07703704	##	1760	0.9229630	0.07703704	##	1761	0.7636122	0.23638778	##	
1762	0.2397820	0.76021798	##	1763	0.7636122	0.23638778	##	1765	0.7241379	0.27	
586207	##	1769	0.7636122	0.23638778	##	1771	0.8082192	0.19178082	##	1772	0.23
97820	0.76021798	##	1773	0.9229630	0.07703704	##	1774	0.2397820	0.76021798	##	
1775	0.9229630	0.07703704	##	1777	0.2397820	0.76021798	##	1778	0.9229630	0.07	
703704	##	1779	0.9229630	0.07703704	##	1780	0.2222222	0.77777778	##	1783	0.92
29630	0.07703704	##	1784	0.9229630	0.07703704	##	1785	0.7636122	0.23638778	##	
1787	0.2397820	0.76021798	##	1789	0.9229630	0.07703704	##	1790	0.7636122	0.23	
638778	##	1791	0.7636122	0.23638778	##	1793	0.7636122	0.23638778	##	1794	0.80
82192	0.19178082	##	1795	0.2397820	0.76021798	##	1796	0.7636122	0.23638778	##	
1798	0.9229630	0.07703704	##	1799	0.8082192	0.19178082	##	1800	0.2222222	0.77	
777778	##	1801	0.4097222	0.59027778	##	1802	0.2397820	0.76021798	##	1803	0.76
36122	0.23638778	##	1804	0.9229630	0.07703704	##	1805	0.7636122	0.23638778	##	
1806	0.2397820	0.76021798	##	1809	0.9229630	0.07703704	##	1811	0.4097222	0.59	
027778	##	1812	0.9229630	0.07703704	##	1813	0.9229630	0.07703704	##	1814	0.92
29630	0.07703704	##	1815	0.2397820	0.76021798	##	1816	0.9229630	0.07703704	##	
1817	0.7636122	0.23638778	##	1818	0.7636122	0.23638778	##	1819	0.2397820	0.76	
021798	##	1820	0.7636122	0.23638778	##	1822	0.7636122	0.23638778	##	1825	0.76
36122	0.23638778	##	1826	0.7636122	0.23638778	##	1828	0.2397820	0.76021798	##	
1829	0.7636122	0.23638778	##	1830	0.4097222	0.59027778	##	1831	0.2397820	0.76	
021798	##	1832	0.7636122	0.23638778	##	1835	0.2222222	0.77777778	##	1836	0.76
36122	0.23638778	##	1841	0.2397820	0.76021798	##	1842	0.7636122	0.23638778	##	
1843	0.2397820	0.76021798	##	1844	0.7636122	0.23638778	##	1845	0.4097222	0.59	
027778	##	1846	0.4097222	0.59027778	##	1847	0.7636122	0.23638778	##	1850	0.23
97820	0.76021798	##	1851	0.7636122	0.23638778	##	1852	0.7636122	0.23638778	##	
1856	0.7636122	0.23638778	##	1857	0.7636122	0.23638778	##	1858	0.2397820	0.76	
021798	##	1859	0.7636122	0.23638778	##	1860	0.9229630	0.07703704	##	1861	0.76

36122	0.23638778	##	1863	0.7636122	0.23638778	##	1866	0.9229630	0.07703704	##	
1868	0.2397820	0.76021798	##	1869	0.9229630	0.07703704	##	1870	0.9229630	0.07	
703704	##	1871	0.7636122	0.23638778	##	1872	0.9229630	0.07703704	##	1873	0.23
97820	0.76021798	##	1874	0.7636122	0.23638778	##	1876	0.9229630	0.07703704	##	
1879	0.9229630	0.07703704	##	1881	0.9229630	0.07703704	##	1882	0.9229630	0.07	
703704	##	1886	0.2397820	0.76021798	##	1887	0.9229630	0.07703704	##	1888	0.92
29630	0.07703704	##	1889	0.7636122	0.23638778	##	1890	0.7636122	0.23638778	##	
1891	0.9229630	0.07703704	##	1892	0.9229630	0.07703704	##	1893	0.2397820	0.76	
021798	##	1895	0.9229630	0.07703704	##	1896	0.9229630	0.07703704	##	1897	0.22
22222	0.7777778	##	1898	0.2397820	0.76021798	##	1899	0.2397820	0.76021798	##	
1900	0.9229630	0.07703704	##	1901	0.2397820	0.76021798	##	1902	0.7636122	0.23	
638778	##	1903	0.8082192	0.19178082	##	1906	0.7636122	0.23638778	##	1907	0.76
36122	0.23638778	##	1908	0.4097222	0.59027778	##	1909	0.7636122	0.23638778	##	
1911	0.8082192	0.19178082	##	1912	0.9229630	0.07703704	##	1913	0.9229630	0.07	
703704	##	1915	0.9229630	0.07703704	##	1916	0.2397820	0.76021798	##	1917	0.23
97820	0.76021798	##	1918	0.2397820	0.76021798	##	1919	0.9229630	0.07703704	##	
1921	0.7636122	0.23638778	##	1923	0.7636122	0.23638778	##	1924	0.2397820	0.76	
021798	##	1925	0.7636122	0.23638778	##	1929	0.9229630	0.07703704	##	1930	0.92
29630	0.07703704	##	1931	0.9229630	0.07703704	##	1932	0.9047619	0.09523810	##	
1935	0.7636122	0.23638778	##	1938	0.7636122	0.23638778	##	1939	0.9047619	0.09	
523810	##	1940	0.9229630	0.07703704	##	1941	0.7636122	0.23638778	##	1942	0.92
29630	0.07703704	##	1948	0.7636122	0.23638778	##	1949	0.2397820	0.76021798	##	
1951	0.9229630	0.07703704	##	1952	0.7636122	0.23638778	##	1954	0.9229630	0.07	
703704	##	1955	0.4097222	0.59027778	##	1958	0.7636122	0.23638778	##	1959	0.76
36122	0.23638778	##	1960	0.4097222	0.59027778	##	1961	0.7636122	0.23638778	##	
1962	0.7636122	0.23638778	##	1963	0.4097222	0.59027778	##	1964	0.2397820	0.76	
021798	##	1968	0.7636122	0.23638778	##	1969	0.7636122	0.23638778	##	1970	0.76
36122	0.23638778	##	1971	0.9229630	0.07703704	##	1972	0.9229630	0.07703704	##	
1974	0.7636122	0.23638778	##	1975	0.9229630	0.07703704	##	1976	0.9229630	0.07	
703704	##	1977	0.2397820	0.76021798	##	1979	0.2397820	0.76021798	##	1980	0.23
97820	0.76021798	##	1985	0.7636122	0.23638778	##	1987	0.7241379	0.27586207	##	
1988	0.9229630	0.07703704	##	1990	0.9229630	0.07703704	##	1993	0.9229630	0.07	
703704	##	1994	0.9229630	0.07703704	##	1995	0.9229630	0.07703704	##	1996	0.40
97222	0.59027778	##	2000	0.2222222	0.77777778	##	2001	0.7636122	0.23638778	##	
2002	0.2397820	0.76021798	##	2003	0.9229630	0.07703704	##	2004	0.7636122	0.23	
638778	##	2005	0.8082192	0.19178082	##	2008	0.2397820	0.76021798	##	2009	0.76
36122	0.23638778	##	2010	0.2397820	0.76021798	##	2011	0.7636122	0.23638778	##	
2012	0.9229630	0.07703704	##	2013	0.7636122	0.23638778	##	2016	0.7272727	0.27	
272727	##	2017	0.7636122	0.23638778	##	2019	0.9229630	0.07703704	##	2020	0.23
97820	0.76021798	##	2021	0.4097222	0.59027778	##	2022	0.9229630	0.07703704	##	
2023	0.7636122	0.23638778	##	2024	0.2397820	0.76021798	##	2025	0.2397820	0.76	
021798	##	2026	0.2397820	0.76021798	##	2028	0.7636122	0.23638778	##	2029	0.92
29630	0.07703704	##	2030	0.7636122	0.23638778	##	2032	0.2397820	0.76021798	##	
2035	0.9229630	0.07703704	##	2037	0.7636122	0.23638778	##	2038	0.7636122	0.23	
638778	##	2040	0.7636122	0.23638778	##	2041	0.7636122	0.23638778	##	2042	0.40
97222	0.59027778	##	2043	0.2397820	0.76021798	##	2044	0.4097222	0.59027778	##	
2045	0.4097222	0.59027778	##	2046	0.7636122	0.23638778	##	2047	0.2397820	0.76	
021798	##	2049	0.9047619	0.09523810	##	2050	0.9229630	0.07703704	##	2052	0.23
97820	0.76021798	##	2053	0.7636122	0.23638778	##	2054	0.7636122	0.23638778	##	
2055	0.2397820	0.76021798	##	2058	0.7636122	0.23638778	##	2059	0.7636122	0.23	
638778	##	2060	0.2397820	0.76021798	##	2061	0.9229630	0.07703704	##	2062	0.92
29630	0.07703704	##	2063	0.2397820	0.76021798	##	2064	0.2397820	0.76021798	##	
2065	0.7636122	0.23638778	##	2069	0.9229630	0.07703704	##	2071	0.9229630	0.07	
703704	##	2073	0.7636122	0.23638778	##	2074	0.2397820	0.76021798	##	2076	0.76
36122	0.23638778	##	2077	0.8082192	0.19178082	##	2078	0.4097222	0.59027778	##	
2079	0.7636122	0.23638778	##	2080	0.4097222	0.59027778	##	2081	0.7636122	0.23	
638778	##	1809	0.9229630	0.07703704	##	1811	0.4097222	0.59027778	##	1812	0.92

29630	0.07703704	##	1813	0.9229630	0.07703704	##	1814	0.9229630	0.07703704	##	
1815	0.2397820	0.76021798	##	1816	0.9229630	0.07703704	##	1817	0.7636122	0.23	
638778	##	1818	0.7636122	0.23638778	##	1819	0.2397820	0.76021798	##	1820	0.76
36122	0.23638778	##	1822	0.7636122	0.23638778	##	1825	0.7636122	0.23638778	##	
1826	0.7636122	0.23638778	##	1828	0.2397820	0.76021798	##	1829	0.7636122	0.23	
638778	##	1830	0.4097222	0.59027778	##	1831	0.2397820	0.76021798	##	1832	0.76
36122	0.23638778	##	1835	0.2222222	0.77777778	##	1836	0.7636122	0.23638778	##	
1841	0.2397820	0.76021798	##	1842	0.7636122	0.23638778	##	1843	0.2397820	0.76	
021798	##	1844	0.7636122	0.23638778	##	1845	0.4097222	0.59027778	##	1846	0.40
97222	0.59027778	##	1847	0.7636122	0.23638778	##	1850	0.2397820	0.76021798	##	
1851	0.7636122	0.23638778	##	1852	0.7636122	0.23638778	##	1856	0.7636122	0.23	
638778	##	1857	0.7636122	0.23638778	##	1858	0.2397820	0.76021798	##	1859	0.76
36122	0.23638778	##	1860	0.9229630	0.07703704	##	1861	0.7636122	0.23638778	##	
1863	0.7636122	0.23638778	##	1866	0.9229630	0.07703704	##	1868	0.2397820	0.76	
021798	##	1869	0.9229630	0.07703704	##	1870	0.9229630	0.07703704	##	1871	0.76
36122	0.23638778	##	1872	0.9229630	0.07703704	##	1873	0.2397820	0.76021798	##	
1874	0.7636122	0.23638778	##	1876	0.9229630	0.07703704	##	1879	0.9229630	0.07	
703704	##	1881	0.9229630	0.07703704	##	1882	0.9229630	0.07703704	##	1886	0.23
97820	0.76021798	##	1887	0.9229630	0.07703704	##	1888	0.9229630	0.07703704	##	
1889	0.7636122	0.23638778	##	1890	0.7636122	0.23638778	##	1891	0.9229630	0.07	
703704	##	1892	0.9229630	0.07703704	##	1893	0.2397820	0.76021798	##	1895	0.92
29630	0.07703704	##	1896	0.9229630	0.07703704	##	1897	0.2222222	0.77777778	##	
1898	0.2397820	0.76021798	##	1899	0.2397820	0.76021798	##	1900	0.9229630	0.07	
703704	##	1901	0.2397820	0.76021798	##	1902	0.7636122	0.23638778	##	1903	0.80
82192	0.19178082	##	1906	0.7636122	0.23638778	##	1907	0.7636122	0.23638778	##	
1908	0.4097222	0.59027778	##	1909	0.7636122	0.23638778	##	1911	0.8082192	0.19	
178082	##	1912	0.9229630	0.07703704	##	1913	0.9229630	0.07703704	##	1915	0.92
29630	0.07703704	##	1916	0.2397820	0.76021798	##	1917	0.2397820	0.76021798	##	
1918	0.2397820	0.76021798	##	1919	0.9229630	0.07703704	##	1921	0.7636122	0.23	
638778	##	1923	0.7636122	0.23638778	##	1924	0.2397820	0.76021798	##	1925	0.76
36122	0.23638778	##	1929	0.9229630	0.07703704	##	1930	0.9229630	0.07703704	##	
1931	0.9229630	0.07703704	##	1932	0.9047619	0.09523810	##	1935	0.7636122	0.23	
638778	##	1938	0.7636122	0.23638778	##	1939	0.9047619	0.09523810	##	1940	0.92
29630	0.07703704	##	1941	0.7636122	0.23638778	##	1942	0.9229630	0.07703704	##	
1948	0.7636122	0.23638778	##	1949	0.2397820	0.76021798	##	1951	0.9229630	0.07	
703704	##	1952	0.7636122	0.23638778	##	1954	0.9229630	0.07703704	##	1955	0.40
97222	0.59027778	##	1958	0.7636122	0.23638778	##	1959	0.7636122	0.23638778	##	
1960	0.4097222	0.59027778	##	1961	0.7636122	0.23638778	##	1962	0.7636122	0.23	
638778	##	1963	0.4097222	0.59027778	##	1964	0.2397820	0.76021798	##	1968	0.76
36122	0.23638778	##	1969	0.7636122	0.23638778	##	1970	0.7636122	0.23638778	##	
1971	0.9229630	0.07703704	##	1972	0.9229630	0.07703704	##	1974	0.7636122	0.23	
638778	##	1975	0.9229630	0.07703704	##	1976	0.9229630	0.07703704	##	1977	0.23
97820	0.76021798	##	1979	0.2397820	0.76021798	##	1980	0.2397820	0.76021798	##	
1985	0.7636122	0.23638778	##	1987	0.7241379	0.27586207	##	1988	0.9229630	0.07	
703704	##	1990	0.9229630	0.07703704	##	1993	0.9229630	0.07703704	##	1994	0.92
29630	0.07703704	##	1995	0.9229630	0.07703704	##	1996	0.4097222	0.59027778	##	
2000	0.2222222	0.77777778	##	2001	0.7636122	0.23638778	##	2002	0.2397820	0.76	
021798	##	2003	0.9229630	0.07703704	##	2004	0.7636122	0.23638778	##	2005	0.80
82192	0.19178082	##	2008	0.2397820	0.76021798	##	2009	0.7636122	0.23638778	##	
2010	0.2397820	0.76021798	##	2011	0.7636122	0.23638778	##	2012	0.9229630	0.07	
703704	##	2013	0.7636122	0.23638778	##	2016	0.7272727	0.27272727	##	2017	0.76
36122	0.23638778	##	2019	0.9229630	0.07703704	##	2020	0.2397820	0.76021798	##	
2021	0.4097222	0.59027778	##	2022	0.9229630	0.07703704	##	2023	0.7636122	0.23	
638778	##	2024	0.2397820	0.76021798	##	2025	0.2397820	0.76021798	##	2026	0.23
97820	0.76021798	##	2028	0.7636122	0.23638778	##	2029	0.9229630	0.07703704	##	
2030	0.7636122	0.23638778	##	2032	0.2397820	0.76021798	##	2035	0.9229630	0.07	
703704	##	2037	0.7636122	0.23638778	##	2038	0.7636122	0.23638778	##	2040	0.76

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36122 0.23638778 ## 2041 0.7636122 0.23638778 ## 2042 0.4097222 0.59027778 ##
2043 0.2397820 0.76021798 ## 2044 0.4097222 0.59027778 ## 2045 0.4097222 0.59
027778 ## 2046 0.7636122 0.23638778 ## 2047 0.2397820 0.76021798 ## 2049 0.90
47619 0.09523810 ## 2050 0.9229630 0.07703704 ## 2052 0.2397820 0.76021798 ##
2053 0.7636122 0.23638778 ## 2054 0.7636122 0.23638778 ## 2055 0.2397820 0.76
021798 ## 2058 0.7636122 0.23638778 ## 2059 0.7636122 0.23638778 ## 2060 0.23
97820 0.76021798 ## 2061 0.9229630 0.07703704 ## 2062 0.9229630 0.07703704 ##
2063 0.2397820 0.76021798 ## 2064 0.2397820 0.76021798 ## 2065 0.7636122 0.23
638778 ## 2069 0.9229630 0.07703704 ## 2071 0.9229630 0.07703704 ## 2073 0.76
36122 0.23638778 ## 2074 0.2397820 0.76021798 ## 2076 0.7636122 0.23638778 ##
2077 0.8082192 0.19178082 ## 2078 0.4097222 0.59027778 ## 2079 0.7636122 0.23
638778 ## 2080 0.4097222 0.59027778 ## 2081 0.7636122 0.23638778 ## 2282 0.23
97820 0.76021798

## 2283 0.7636122 0.23638778
## 2284 0.7636122 0.23638778
## 2285 0.2397820 0.76021798
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## 2404 0.9229630 0.07703704
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## 2603 0.7636122 0.23638778
## 2604 0.7636122 0.23638778
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## 2625 0.7636122 0.23638778
## 2626 0.2397820 0.76021798
## 2627 0.2397820 0.76021798
## 2630 0.7636122 0.23638778
## 2632 0.2397820 0.76021798
## 2633 0.8082192 0.19178082
## 2634 0.7636122 0.23638778
## 2635 0.9229630 0.07703704
## 2636 0.7636122 0.23638778
## 2637 0.2397820 0.76021798
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## 2643 0.7636122 0.23638778
## 2644 0.4097222 0.59027778
## 2646 0.7636122 0.23638778
## 2647 0.7636122 0.23638778
## 2648 0.2397820 0.76021798
## 2649 0.2397820 0.76021798
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## 2651 0.7636122 0.23638778
## 2652 0.7636122 0.23638778
```

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## 2653 0.9229630 0.07703704
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## 2656 0.8082192 0.19178082
## 2658 0.2222222 0.77777778
## 2659 0.9047619 0.09523810
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## 2672 0.9229630 0.07703704
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## 2676 0.2397820 0.76021798
## 2677 0.9229630 0.07703704
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## 2682 0.7636122 0.23638778
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## 2693 0.2397820 0.76021798
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## 2699 0.7636122 0.23638778
## 2700 0.9229630 0.07703704
```

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## 2743 0.7636122 0.23638778
## 2744 0.7636122 0.23638778
## 2745 0.7636122 0.23638778
## 2749 0.7636122 0.23638778
## 2750 0.9229630 0.07703704
## 2752 0.9229630 0.07703704
## 2753 0.7636122 0.23638778
```

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## 2754 0.9229630 0.07703704
## 2755 0.2222222 0.77777778
## 2756 0.7636122 0.23638778
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## 2761 0.2397820 0.76021798
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## 2766 0.2397820 0.76021798
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## 2769 0.7636122 0.23638778
## 2770 0.9229630 0.07703704
## 2771 0.7636122 0.23638778
## 2772 0.2397820 0.76021798
## 2773 0.4097222 0.59027778
## 2774 0.7636122 0.23638778
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## 2778 0.9229630 0.07703704
## 2779 0.7636122 0.23638778
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## 2782 0.9229630 0.07703704
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## 2785 0.7636122 0.23638778
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## 2793 0.2397820 0.76021798
## 2794 0.9229630 0.07703704
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## 2796 0.4097222 0.59027778
## 2797 0.9229630 0.07703704
```

```
## 2798 0.7636122 0.23638778
## 2799 0.7636122 0.23638778
## 2800 0.2397820 0.76021798
## 2802 0.2397820 0.76021798
## 2803 0.9229630 0.07703704
## 2804 0.2397820 0.76021798
## 2805 0.2397820 0.76021798
## 2807 0.7636122 0.23638778
## 2808 0.7636122 0.23638778
## 2809 0.2397820 0.76021798
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## 2812 0.4097222 0.59027778
## 2814 0.2397820 0.76021798
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## 2818 0.9229630 0.07703704
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## 2820 0.4097222 0.59027778
## 2821 0.9229630 0.07703704
## 2822 0.7636122 0.23638778
## 2823 0.2397820 0.76021798
## 2824 0.9229630 0.07703704
## 2825 0.9229630 0.07703704
## 2827 0.9229630 0.07703704
## 2828 0.7636122 0.23638778
## 2829 0.7636122 0.23638778
## 2830 0.2397820 0.76021798
## 2832 0.9229630 0.07703704
## 2833 0.7636122 0.23638778
## 2837 0.2397820 0.76021798
## 2839 0.9229630 0.07703704
## 2842 0.9229630 0.07703704
```

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## 2844 0.2397820 0.76021798
## 2845 0.7636122 0.23638778
## 2847 0.9229630 0.07703704
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## 2849 0.9229630 0.07703704
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## 2854 0.2397820 0.76021798
## 2855 0.9229630 0.07703704
## 2857 0.2397820 0.76021798
## 2858 0.2397820 0.76021798
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## 2862 0.9229630 0.07703704
## 2866 0.9229630 0.07703704
## 2867 0.4097222 0.59027778
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## 2869 0.9229630 0.07703704
## 2870 0.4097222 0.59027778
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## 2872 0.9229630 0.07703704
## 2873 0.4097222 0.59027778
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## 2878 0.7636122 0.23638778
## 2879 0.9229630 0.07703704
## 2880 0.7636122 0.23638778
## 2881 0.7636122 0.23638778
## 2882 0.7636122 0.23638778
## 2885 0.7636122 0.23638778
## 2887 0.7636122 0.23638778
## 2889 0.2397820 0.76021798
```

```
## 2890 0.7636122 0.23638778
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## 2893 0.2397820 0.76021798
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## 2895 0.9229630 0.07703704
## 2897 0.9229630 0.07703704
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## 2903 0.2397820 0.76021798
## 2905 0.7636122 0.23638778
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## 2908 0.2397820 0.76021798
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## 2917 0.2222222 0.77777778
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## 2919 0.2397820 0.76021798
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## 2921 0.9047619 0.09523810
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## 2923 0.7636122 0.23638778
## 2924 0.7636122 0.23638778
## 2925 0.2397820 0.76021798
## 2926 0.7636122 0.23638778
## 2927 0.7636122 0.23638778
## 2928 0.4097222 0.59027778
## 2929 0.7636122 0.23638778
## 2931 0.9229630 0.07703704
## 2933 0.2397820 0.76021798
## 2934 0.9229630 0.07703704
## 2935 0.8082192 0.19178082
```

```
## 2936 0.9229630 0.07703704
## 2937 0.7636122 0.23638778
## 2938 0.4097222 0.59027778
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## 2946 0.2397820 0.76021798
## 2947 0.2397820 0.76021798
## 2949 0.7636122 0.23638778
## 2950 0.2397820 0.76021798
## 2952 0.9229630 0.07703704
## 2953 0.9229630 0.07703704
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## 2955 0.4097222 0.59027778
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## 2973 0.7636122 0.23638778
## 2974 0.9229630 0.07703704
## 2975 0.9229630 0.07703704
## 2976 0.8082192 0.19178082
## 2977 0.4097222 0.59027778
```

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## 2978 0.7636122 0.23638778
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## 2984 0.4097222 0.59027778
## 2986 0.9229630 0.07703704
## 2989 0.7636122 0.23638778
## 2990 0.9229630 0.07703704
## 2992 0.2397820 0.76021798
## 2993 0.9229630 0.07703704
## 2994 0.9229630 0.07703704
## 2995 0.2397820 0.76021798
## 2996 0.2222222 0.77777778
## 2997 0.7241379 0.27586207
## 2998 0.9229630 0.07703704
## 2999 0.9047619 0.09523810

TRAIN$predict.scores<-predict(PTREE,TRAIN) [,2]

TRAIN$predict.scores

## [1] 0.19178082 0.07703704 0.07703704 0.23638778 0.23638778 0.07703704
## [7] 0.23638778 0.76021798 0.76021798 0.23638778 0.59027778 0.23638778
## [13] 0.23638778 0.23638778 0.23638778 0.23638778 0.23638778 0.07703704
## [19] 0.07703704 0.07703704 0.23638778 0.07703704 0.76021798 0.23638778
## [25] 0.76021798 0.76021798 0.07703704 0.23638778 0.07703704 0.07703704
## [31] 0.59027778 0.19178082 0.07703704 0.76021798 0.23638778 0.07703704
## [37] 0.76021798 0.76021798 0.07703704 0.07703704 0.59027778 0.23638778
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## [67] 0.76021798 0.07703704 0.76021798 0.23638778 0.07703704 0.07703704
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## [79] 0.23638778 0.07703704 0.07703704 0.07703704 0.23638778 0.76021798
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## [91] 0.07703704 0.07703704 0.23638778 0.23638778 0.07703704 0.07703704

```

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## [97] 0.23638778 0.07703704 0.23638778 0.07703704 0.23638778 0.07703704
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## [127] 0.23638778 0.76021798 0.23638778 0.76021798 0.77777778 0.07703704
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## [139] 0.23638778 0.07703704 0.23638778 0.23638778 0.23638778 0.23638778
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## [151] 0.23638778 0.23638778 0.23638778 0.76021798 0.23638778 0.23638778
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## [217] 0.76021798 0.07703704 0.76021798 0.07703704 0.23638778 0.23638778
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## [307] 0.23638778 0.07703704 0.07703704 0.76021798 0.76021798 0.27586207
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## [499] 0.23638778 0.19178082 0.23638778 0.07703704 0.76021798 0.07703704

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## [505] 0.07703704 0.23638778 0.23638778 0.07703704 0.23638778 0.76021798
## [511] 0.23638778 0.07703704 0.07703704 0.07703704 0.76021798 0.59027778
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## [1825] 0.23638778 0.23638778 0.76021798 0.76021798 0.23638778 0.76021798
## [1831] 0.19178082 0.23638778 0.07703704 0.23638778 0.76021798 0.07703704
## [1837] 0.23638778 0.23638778 0.59027778 0.23638778 0.23638778 0.76021798
## [1843] 0.76021798 0.07703704 0.23638778 0.23638778 0.07703704 0.23638778
## [1849] 0.19178082 0.77777778 0.09523810 0.23638778 0.07703704 0.19178082
## [1855] 0.23638778 0.27586207 0.23638778 0.76021798 0.07703704 0.07703704
## [1861] 0.19178082 0.76021798 0.07703704 0.76021798 0.07703704 0.27272727
## [1867] 0.76021798 0.23638778 0.23638778 0.07703704 0.07703704 0.23638778
## [1873] 0.76021798 0.23638778 0.76021798 0.07703704 0.76021798 0.23638778
## [1879] 0.23638778 0.07703704 0.07703704 0.23638778 0.23638778 0.07703704
## [1885] 0.19178082 0.76021798 0.59027778 0.23638778 0.23638778 0.07703704
## [1891] 0.23638778 0.07703704 0.59027778 0.76021798 0.07703704 0.23638778
## [1897] 0.07703704 0.23638778 0.07703704 0.76021798 0.07703704 0.23638778
## [1903] 0.76021798 0.23638778 0.07703704 0.23638778 0.23638778 0.23638778
## [1909] 0.23638778 0.23638778 0.23638778 0.07703704 0.07703704 0.23638778
## [1915] 0.07703704 0.77777778 0.23638778 0.76021798 0.76021798 0.27272727
## [1921] 0.76021798 0.76021798 0.76021798 0.07703704 0.23638778 0.23638778
## [1927] 0.07703704 0.23638778 0.76021798 0.59027778 0.23638778 0.07703704

```

```

## [1933] 0.07703704 0.23638778 0.07703704 0.07703704 0.76021798 0.23638778
## [1939] 0.23638778 0.77777778 0.59027778 0.76021798 0.07703704 0.76021798
## [1945] 0.07703704 0.23638778 0.59027778 0.07703704 0.23638778 0.23638778
## [1951] 0.76021798 0.76021798 0.07703704 0.76021798 0.76021798 0.23638778
## [1957] 0.23638778 0.76021798 0.07703704 0.76021798 0.59027778 0.76021798
## [1963] 0.23638778 0.07703704 0.07703704 0.07703704 0.23638778 0.59027778
## [1969] 0.07703704 0.23638778 0.76021798 0.07703704 0.07703704 0.07703704
## [1975] 0.23638778 0.23638778 0.76021798 0.07703704 0.23638778 0.76021798
## [1981] 0.07703704 0.07703704 0.76021798 0.23638778 0.07703704 0.07703704
## [1987] 0.07703704 0.77777778 0.07703704 0.76021798 0.07703704 0.76021798
## [1993] 0.76021798 0.07703704 0.23638778 0.23638778 0.07703704 0.07703704
## [1999] 0.59027778 0.23638778 0.07703704 0.59027778 0.07703704 0.07703704
## [2005] 0.59027778 0.76021798 0.07703704 0.07703704 0.23638778 0.07703704
## [2011] 0.23638778 0.23638778 0.23638778 0.23638778 0.23638778 0.76021798
## [2017] 0.23638778 0.23638778 0.76021798 0.07703704 0.07703704 0.07703704
## [2023] 0.23638778 0.07703704 0.76021798 0.23638778 0.23638778 0.76021798
## [2029] 0.23638778 0.59027778 0.07703704 0.76021798 0.19178082 0.77777778
## [2035] 0.23638778 0.76021798 0.07703704 0.09523810 0.07703704 0.23638778
## [2041] 0.23638778 0.76021798 0.23638778 0.23638778 0.59027778 0.23638778
## [2047] 0.07703704 0.76021798 0.07703704 0.19178082 0.07703704 0.23638778
## [2053] 0.59027778 0.27586207 0.76021798 0.07703704 0.59027778 0.07703704
## [2059] 0.76021798 0.76021798 0.23638778 0.76021798 0.07703704 0.07703704
## [2065] 0.23638778 0.59027778 0.07703704 0.59027778 0.23638778 0.19178082
## [2071] 0.76021798 0.07703704 0.59027778 0.23638778 0.07703704 0.23638778
## [2077] 0.07703704 0.76021798 0.23638778 0.23638778 0.07703704 0.07703704
## [2083] 0.19178082 0.59027778 0.23638778 0.76021798 0.23638778 0.76021798
## [2089] 0.59027778 0.07703704 0.23638778 0.07703704 0.76021798 0.07703704
## [2095] 0.07703704 0.76021798 0.77777778 0.27586207 0.07703704 0.09523810

##### HANDLING TEST DATA

TEST$predict.class<-predict(PTREE,TEST,type = "class")
TEST$predict.scores<-predict(PTREE,TEST) [,2]
View(TEST)

##### PERFORMANCE MEASURE METRICS

##### RECEIVER OPERATION CHARACTERISTICS CURVE

```

```

library(ROCR)

##### USING PREDICTION AND PERFORMANCE FUNCTION

##### TRAIN DATA

pred<-prediction(TRAIN$predict.scores,TRAIN$Claimed)
perf<-performance(pred,"tpr","fpr")
plot(perf)

```

```

##### TEST DATA

pred1<-prediction(TEST$predict.scores,TEST$Claimed)
perf1<-performance(pred1,"tpr","fpr")
plot(perf1)

##### CONFUSION MATRIX FOR TRAIN DATA

MLmetrics::ConfusionMatrix(TRAIN$predict.class,TRAIN$Claimed)

##      y_pred
## y_true   No  Yes
##    No 1305 153
##    Yes 257 385

MLmetrics::Accuracy(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.8047
619

MLmetrics::Sensitivity(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.8354673

MLmetrics::Specificity(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.7156134

MLmetrics::Precision(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.8950617

##### CONFUSION MATRIX FOR TEST DATA

MLmetrics::ConfusionMatrix(TEST$predict.class,TEST$Claimed)

##      y_pred
## y_true   No  Yes

```

```
##      No 531 87
##      Yes 123 159
MLmetrics::Accuracy(TEST$predict.class,TEST$Claimed)
## [1] 0.7666667
MLmetrics::Sensitivity(TEST$predict.class,TEST$Claimed)
## [1] 0.8119266
MLmetrics::Specificity(TEST$predict.class,TEST$Claimed)
## [1] 0.6463415
MLmetrics::Precision(TEST$predict.class,TEST$Claimed)
## [1] 0.8592233
```

5.4 RANDOM FOREST

```
##### RANDOM FOREST ##### setwd("C:/Training")
read.csv("insurance_part2_data_(1).csv",header=TRUE) ->MYDATA
pacman::p_load(summarytools,randomForest,tidyverse,esquisse,rpart,rpart.plot,MLmetrics,rsample)

summarytools::view(dfSummary(MYDATA))

## Output file written: C:\Users\sachi\AppData\Local\Temp\RtmpM3H6dG\file4bdc
7fff4402.html

##### SPLITTING THE DATASET INTO TEST AND TRAIN DATA

SPLIT_DATA=initial_split(MYDATA,prop = 0.7)

TRAIN=training(SPLIT_DATA)

TEST=testing(SPLIT_DATA)

table(MYDATA$Claimed)

##
##      No    Yes
## 2076   924

table(TRAIN$Claimed)

##
##      No    Yes
## 1443   657

table(TEST$Claimed)

##
##      No    Yes
## 633   267

prop.table(table(MYDATA$Claimed))

##
##      No    Yes
## 0.692 0.308

prop.table(table(TRAIN$Claimed))

##
##          No          Yes
## 0.6871429 0.3128571

prop.table(table(TEST$Claimed))

##
```

```

##           No        Yes
## 0.7033333 0.2966667

RF_MODEL<-randomForest(as.factor(Claimed)~., data=TRAIN,
                        importance=TRUE)

print(RF_MODEL)

## 

## Call:
##   randomForest(formula = as.factor(Claimed) ~ ., data = TRAIN,      importa
##   nce = TRUE)
## 
##           Type of random forest: classification
## 
##           Number of trees: 500
## 
##   No. of variables tried at each split: 3
## 
## 
##           OOB estimate of  error rate: 22.62%
## 
## Confusion matrix:
## 
##           No  Yes class.error
##   No    1225 218  0.1510742
##   Yes    257 400  0.3911720
## 
## ## OOB ERROR = 22.62% ; ACCURACY = 100-OOB ERROR =77.38%
## 
plot(RF_MODEL)

RF_MODEL$err.rate

## 
##           OOB        No        Yes
## [1,] 0.2751256 0.1895911 0.4534884
## [2,] 0.2599843 0.1768707 0.4455696
## [3,] 0.2582071 0.1642202 0.4655870
## [4,] 0.2671541 0.1736282 0.4721724
## [5,] 0.2716702 0.1797235 0.4745763
## [6,] 0.2709808 0.1634757 0.5064516
## [7,] 0.2678836 0.1598272 0.5031348
## [8,] 0.2596014 0.1585280 0.4813665
## [9,] 0.2620424 0.1569727 0.4930663
## [10,] 0.2547893 0.1456446 0.4946401
## [11,] 0.2539455 0.1482255 0.4862385
## [12,] 0.2501193 0.1409722 0.4900763

```

```

## [13,] 0.2466603 0.1380985 0.4854962
## [14,] 0.2449952 0.1359223 0.4847561
## [15,] 0.2447619 0.1372141 0.4809741
## [16,] 0.2514286 0.1441441 0.4870624
## [17,] 0.2452381 0.1441441 0.4672755
## [18,] 0.2433333 0.1462231 0.4566210
## [19,] 0.2447619 0.1476091 0.4581431
## [20,] 0.2438095 0.1469161 0.4566210
## [21,] 0.2480952 0.1483021 0.4672755
## [22,] 0.2476190 0.1483021 0.4657534
## [23,] 0.2461905 0.1496881 0.4581431
## [24,] 0.2414286 0.1469161 0.4490107
## [25,] 0.2442857 0.1469161 0.4581431
## [26,] 0.2452381 0.1476091 0.4596651
## [27,] 0.2385714 0.1427581 0.4490107
## [28,] 0.2323810 0.1386001 0.4383562
## [29,] 0.2352381 0.1441441 0.4353120
## [30,] 0.2371429 0.1469161 0.4353120
## [31,] 0.2314286 0.1476091 0.4155251
## [32,] 0.2361905 0.1483021 0.4292237
## [33,] 0.2380952 0.1524602 0.4261796
## [34,] 0.2357143 0.1517672 0.4200913
## [35,] 0.2328571 0.1489951 0.4170472
## [36,] 0.2333333 0.1503812 0.4155251
## [37,] 0.2352381 0.1524602 0.4170472
## [38,] 0.2300000 0.1496881 0.4063927
## [39,] 0.2295238 0.1483021 0.4079148
## [40,] 0.2280952 0.1469161 0.4063927
## [41,] 0.2309524 0.1476091 0.4140030
## [42,] 0.2304762 0.1462231 0.4155251
## [43,] 0.2290476 0.1455301 0.4124810
## [44,] 0.2314286 0.1489951 0.4124810
## [45,] 0.2304762 0.1455301 0.4170472
## [46,] 0.2328571 0.1489951 0.4170472

```

```
## [47,] 0.2290476 0.1455301 0.4124810
## [48,] 0.2319048 0.1483021 0.4155251
## [49,] 0.2333333 0.1503812 0.4155251
## [50,] 0.2328571 0.1524602 0.4094368
## [51,] 0.2300000 0.1496881 0.4063927
## [52,] 0.2314286 0.1489951 0.4124810
## [53,] 0.2328571 0.1489951 0.4170472
## [54,] 0.2338095 0.1503812 0.4170472
## [55,] 0.2333333 0.1496881 0.4170472
## [56,] 0.2300000 0.1489951 0.4079148
## [57,] 0.2323810 0.1538462 0.4048706
## [58,] 0.2323810 0.1531532 0.4063927
## [59,] 0.2290476 0.1496881 0.4033486
## [60,] 0.2271429 0.1476091 0.4018265
## [61,] 0.2266667 0.1483021 0.3987823
## [62,] 0.2266667 0.1483021 0.3987823
## [63,] 0.2233333 0.1462231 0.3926941
## [64,] 0.2252381 0.1476091 0.3957382
## [65,] 0.2261905 0.1476091 0.3987823
## [66,] 0.2290476 0.1496881 0.4033486
## [67,] 0.2290476 0.1517672 0.3987823
## [68,] 0.2266667 0.1489951 0.3972603
## [69,] 0.2266667 0.1489951 0.3972603
## [70,] 0.2271429 0.1483021 0.4003044
## [71,] 0.2285714 0.1476091 0.4063927
## [72,] 0.2276190 0.1496881 0.3987823
## [73,] 0.2295238 0.1510742 0.4018265
## [74,] 0.2266667 0.1489951 0.3972603
## [75,] 0.2219048 0.1469161 0.3866058
## [76,] 0.2252381 0.1469161 0.3972603
## [77,] 0.2261905 0.1489951 0.3957382
## [78,] 0.2295238 0.1496881 0.4048706
## [79,] 0.2285714 0.1510742 0.3987823
## [80,] 0.2285714 0.1496881 0.4018265
```

```
## [81,] 0.2276190 0.1503812 0.3972603
## [82,] 0.2285714 0.1503812 0.4003044
## [83,] 0.2295238 0.1524602 0.3987823
## [84,] 0.2280952 0.1496881 0.4003044
## [85,] 0.2300000 0.1524602 0.4003044
## [86,] 0.2295238 0.1510742 0.4018265
## [87,] 0.2295238 0.1496881 0.4048706
## [88,] 0.2304762 0.1510742 0.4048706
## [89,] 0.2290476 0.1510742 0.4003044
## [90,] 0.2304762 0.1510742 0.4048706
## [91,] 0.2304762 0.1531532 0.4003044
## [92,] 0.2280952 0.1503812 0.3987823
## [93,] 0.2295238 0.1524602 0.3987823
## [94,] 0.2276190 0.1510742 0.3957382
## [95,] 0.2261905 0.1483021 0.3972603
## [96,] 0.2257143 0.1469161 0.3987823
## [97,] 0.2252381 0.1483021 0.3942161
## [98,] 0.2271429 0.1489951 0.3987823
## [99,] 0.2271429 0.1503812 0.3957382
## [100,] 0.2276190 0.1503812 0.3972603
## [101,] 0.2252381 0.1483021 0.3942161
## [102,] 0.2252381 0.1469161 0.3972603
## [103,] 0.2242857 0.1476091 0.3926941
## [104,] 0.2252381 0.1476091 0.3957382
## [105,] 0.2247619 0.1469161 0.3957382
## [106,] 0.2238095 0.1455301 0.3957382
## [107,] 0.2228571 0.1448371 0.3942161
## [108,] 0.2261905 0.1476091 0.3987823
## [109,] 0.2252381 0.1462231 0.3987823
## [110,] 0.2257143 0.1476091 0.3972603
## [111,] 0.2242857 0.1455301 0.3972603
## [112,] 0.2247619 0.1462231 0.3972603
## [113,] 0.2233333 0.1448371 0.3957382
## [114,] 0.2233333 0.1455301 0.3942161
```

```
## [115,] 0.2257143 0.1476091 0.3972603
## [116,] 0.2242857 0.1455301 0.3972603
## [117,] 0.2228571 0.1448371 0.3942161
## [118,] 0.2247619 0.1469161 0.3957382
## [119,] 0.2242857 0.1462231 0.3957382
## [120,] 0.2257143 0.1476091 0.3972603
## [121,] 0.2247619 0.1462231 0.3972603
## [122,] 0.2242857 0.1462231 0.3957382
## [123,] 0.2257143 0.1489951 0.3942161
## [124,] 0.2261905 0.1483021 0.3972603
## [125,] 0.2271429 0.1510742 0.3942161
## [126,] 0.2280952 0.1517672 0.3957382
## [127,] 0.2266667 0.1510742 0.3926941
## [128,] 0.2266667 0.1517672 0.3911720
## [129,] 0.2280952 0.1524602 0.3942161
## [130,] 0.2276190 0.1524602 0.3926941
## [131,] 0.2276190 0.1524602 0.3926941
## [132,] 0.2257143 0.1503812 0.3911720
## [133,] 0.2280952 0.1531532 0.3926941
## [134,] 0.2276190 0.1531532 0.3911720
## [135,] 0.2257143 0.1510742 0.3896499
## [136,] 0.2261905 0.1524602 0.3881279
## [137,] 0.2261905 0.1538462 0.3850837
## [138,] 0.2271429 0.1538462 0.3881279
## [139,] 0.2266667 0.1538462 0.3866058
## [140,] 0.2280952 0.1552322 0.3881279
## [141,] 0.2271429 0.1545392 0.3866058
## [142,] 0.2276190 0.1531532 0.3911720
## [143,] 0.2266667 0.1524602 0.3896499
## [144,] 0.2276190 0.1531532 0.3911720
## [145,] 0.2285714 0.1538462 0.3926941
## [146,] 0.2285714 0.1538462 0.3926941
## [147,] 0.2280952 0.1538462 0.3911720
## [148,] 0.2285714 0.1538462 0.3926941
```

```
## [149,] 0.2276190 0.1524602 0.3926941
## [150,] 0.2290476 0.1531532 0.3957382
## [151,] 0.2280952 0.1531532 0.3926941
## [152,] 0.2266667 0.1517672 0.3911720
## [153,] 0.2276190 0.1531532 0.3911720
## [154,] 0.2261905 0.1517672 0.3896499
## [155,] 0.2266667 0.1510742 0.3926941
## [156,] 0.2280952 0.1524602 0.3942161
## [157,] 0.2271429 0.1517672 0.3926941
## [158,] 0.2285714 0.1531532 0.3942161
## [159,] 0.2280952 0.1517672 0.3957382
## [160,] 0.2280952 0.1510742 0.3972603
## [161,] 0.2285714 0.1503812 0.4003044
## [162,] 0.2280952 0.1517672 0.3957382
## [163,] 0.2295238 0.1531532 0.3972603
## [164,] 0.2285714 0.1524602 0.3957382
## [165,] 0.2271429 0.1517672 0.3926941
## [166,] 0.2300000 0.1545392 0.3957382
## [167,] 0.2276190 0.1524602 0.3926941
## [168,] 0.2285714 0.1531532 0.3942161
## [169,] 0.2276190 0.1524602 0.3926941
## [170,] 0.2276190 0.1517672 0.3942161
## [171,] 0.2280952 0.1524602 0.3942161
## [172,] 0.2257143 0.1503812 0.3911720
## [173,] 0.2276190 0.1517672 0.3942161
## [174,] 0.2285714 0.1524602 0.3957382
## [175,] 0.2280952 0.1531532 0.3926941
## [176,] 0.2280952 0.1531532 0.3926941
## [177,] 0.2290476 0.1538462 0.3942161
## [178,] 0.2271429 0.1517672 0.3926941
## [179,] 0.2261905 0.1510742 0.3911720
## [180,] 0.2261905 0.1510742 0.3911720
## [181,] 0.2276190 0.1510742 0.3957382
## [182,] 0.2266667 0.1503812 0.3942161
```

```
## [183,] 0.2257143 0.1496881 0.3926941
## [184,] 0.2257143 0.1510742 0.3896499
## [185,] 0.2257143 0.1510742 0.3896499
## [186,] 0.2266667 0.1510742 0.3926941
## [187,] 0.2266667 0.1524602 0.3896499
## [188,] 0.2280952 0.1538462 0.3911720
## [189,] 0.2280952 0.1531532 0.3926941
## [190,] 0.2271429 0.1524602 0.3911720
## [191,] 0.2266667 0.1510742 0.3926941
## [192,] 0.2266667 0.1510742 0.3926941
## [193,] 0.2266667 0.1517672 0.3911720
## [194,] 0.2266667 0.1510742 0.3926941
## [195,] 0.2266667 0.1517672 0.3911720
## [196,] 0.2276190 0.1517672 0.3942161
## [197,] 0.2266667 0.1510742 0.3926941
## [198,] 0.2261905 0.1510742 0.3911720
## [199,] 0.2261905 0.1503812 0.3926941
## [200,] 0.2247619 0.1496881 0.3896499
## [201,] 0.2252381 0.1503812 0.3896499
## [202,] 0.2257143 0.1503812 0.3911720
## [203,] 0.2261905 0.1503812 0.3926941
## [204,] 0.2242857 0.1496881 0.3881279
## [205,] 0.2247619 0.1496881 0.3896499
## [206,] 0.2252381 0.1503812 0.3896499
## [207,] 0.2257143 0.1510742 0.3896499
## [208,] 0.2247619 0.1503812 0.3881279
## [209,] 0.2247619 0.1503812 0.3881279
## [210,] 0.2247619 0.1503812 0.3881279
## [211,] 0.2242857 0.1496881 0.3881279
## [212,] 0.2242857 0.1510742 0.3850837
## [213,] 0.2242857 0.1503812 0.3866058
## [214,] 0.2238095 0.1483021 0.3896499
## [215,] 0.2247619 0.1510742 0.3866058
## [216,] 0.2238095 0.1496881 0.3866058
```

```
## [217,] 0.2257143 0.1517672 0.3881279
## [218,] 0.2252381 0.1510742 0.3881279
## [219,] 0.2233333 0.1496881 0.3850837
## [220,] 0.2233333 0.1496881 0.3850837
## [221,] 0.2238095 0.1503812 0.3850837
## [222,] 0.2233333 0.1496881 0.3850837
## [223,] 0.2238095 0.1503812 0.3850837
## [224,] 0.2238095 0.1503812 0.3850837
## [225,] 0.2233333 0.1496881 0.3850837
## [226,] 0.2233333 0.1496881 0.3850837
## [227,] 0.2228571 0.1489951 0.3850837
## [228,] 0.2247619 0.1510742 0.3866058
## [229,] 0.2252381 0.1517672 0.3866058
## [230,] 0.2247619 0.1510742 0.3866058
## [231,] 0.2247619 0.1510742 0.3866058
## [232,] 0.2266667 0.1517672 0.3911720
## [233,] 0.2271429 0.1524602 0.3911720
## [234,] 0.2252381 0.1510742 0.3881279
## [235,] 0.2261905 0.1510742 0.3911720
## [236,] 0.2252381 0.1496881 0.3911720
## [237,] 0.2257143 0.1503812 0.3911720
## [238,] 0.2266667 0.1510742 0.3926941
## [239,] 0.2271429 0.1503812 0.3957382
## [240,] 0.2261905 0.1503812 0.3926941
## [241,] 0.2257143 0.1496881 0.3926941
## [242,] 0.2257143 0.1496881 0.3926941
## [243,] 0.2266667 0.1503812 0.3942161
## [244,] 0.2261905 0.1496881 0.3942161
## [245,] 0.2276190 0.1510742 0.3957382
## [246,] 0.2252381 0.1503812 0.3896499
## [247,] 0.2257143 0.1517672 0.3881279
## [248,] 0.2242857 0.1496881 0.3881279
## [249,] 0.2238095 0.1489951 0.3881279
## [250,] 0.2252381 0.1503812 0.3896499
```

```
## [251,] 0.2242857 0.1496881 0.3881279
## [252,] 0.2247619 0.1496881 0.3896499
## [253,] 0.2257143 0.1503812 0.3911720
## [254,] 0.2252381 0.1510742 0.3881279
## [255,] 0.2252381 0.1510742 0.3881279
## [256,] 0.2252381 0.1510742 0.3881279
## [257,] 0.2261905 0.1517672 0.3896499
## [258,] 0.2257143 0.1517672 0.3881279
## [259,] 0.2257143 0.1517672 0.3881279
## [260,] 0.2261905 0.1517672 0.3896499
## [261,] 0.2261905 0.1517672 0.3896499
## [262,] 0.2247619 0.1510742 0.3866058
## [263,] 0.2247619 0.1517672 0.3850837
## [264,] 0.2247619 0.1503812 0.3881279
## [265,] 0.2238095 0.1496881 0.3866058
## [266,] 0.2228571 0.1489951 0.3850837
## [267,] 0.2242857 0.1503812 0.3866058
## [268,] 0.2247619 0.1510742 0.3866058
## [269,] 0.2242857 0.1503812 0.3866058
## [270,] 0.2252381 0.1510742 0.3881279
## [271,] 0.2257143 0.1517672 0.3881279
## [272,] 0.2247619 0.1517672 0.3850837
## [273,] 0.2238095 0.1510742 0.3835616
## [274,] 0.2238095 0.1510742 0.3835616
## [275,] 0.2238095 0.1517672 0.3820396
## [276,] 0.2257143 0.1538462 0.3835616
## [277,] 0.2242857 0.1517672 0.3835616
## [278,] 0.2242857 0.1517672 0.3835616
## [279,] 0.2238095 0.1510742 0.3835616
## [280,] 0.2247619 0.1517672 0.3850837
## [281,] 0.2233333 0.1510742 0.3820396
## [282,] 0.2238095 0.1503812 0.3850837
## [283,] 0.2242857 0.1517672 0.3835616
## [284,] 0.2233333 0.1510742 0.3820396
```

```
## [285,] 0.2242857 0.1517672 0.3835616
## [286,] 0.2247619 0.1517672 0.3850837
## [287,] 0.2257143 0.1531532 0.3850837
## [288,] 0.2252381 0.1531532 0.3835616
## [289,] 0.2257143 0.1531532 0.3850837
## [290,] 0.2252381 0.1531532 0.3835616
## [291,] 0.2242857 0.1524602 0.3820396
## [292,] 0.2257143 0.1531532 0.3850837
## [293,] 0.2247619 0.1538462 0.3805175
## [294,] 0.2247619 0.1531532 0.3820396
## [295,] 0.2238095 0.1524602 0.3805175
## [296,] 0.2233333 0.1524602 0.3789954
## [297,] 0.2233333 0.1510742 0.3820396
## [298,] 0.2247619 0.1524602 0.3835616
## [299,] 0.2238095 0.1517672 0.3820396
## [300,] 0.2238095 0.1524602 0.3805175
## [301,] 0.2228571 0.1510742 0.3805175
## [302,] 0.2228571 0.1517672 0.3789954
## [303,] 0.2233333 0.1524602 0.3789954
## [304,] 0.2233333 0.1517672 0.3805175
## [305,] 0.2233333 0.1510742 0.3820396
## [306,] 0.2242857 0.1524602 0.3820396
## [307,] 0.2228571 0.1510742 0.3805175
## [308,] 0.2233333 0.1517672 0.3805175
## [309,] 0.2228571 0.1510742 0.3805175
## [310,] 0.2223810 0.1503812 0.3805175
## [311,] 0.2233333 0.1517672 0.3805175
## [312,] 0.2228571 0.1503812 0.3820396
## [313,] 0.2228571 0.1510742 0.3805175
## [314,] 0.2223810 0.1496881 0.3820396
## [315,] 0.2233333 0.1503812 0.3835616
## [316,] 0.2223810 0.1489951 0.3835616
## [317,] 0.2228571 0.1496881 0.3835616
## [318,] 0.2228571 0.1496881 0.3835616
```

```
## [319,] 0.2223810 0.1489951 0.3835616
## [320,] 0.2223810 0.1489951 0.3835616
## [321,] 0.2223810 0.1489951 0.3835616
## [322,] 0.2219048 0.1476091 0.3850837
## [323,] 0.2238095 0.1489951 0.3881279
## [324,] 0.2223810 0.1483021 0.3850837
## [325,] 0.2223810 0.1483021 0.3850837
## [326,] 0.2219048 0.1476091 0.3850837
## [327,] 0.2228571 0.1483021 0.3866058
## [328,] 0.2228571 0.1489951 0.3850837
## [329,] 0.2238095 0.1489951 0.3881279
## [330,] 0.2223810 0.1476091 0.3866058
## [331,] 0.2223810 0.1483021 0.3850837
## [332,] 0.2223810 0.1483021 0.3850837
## [333,] 0.2228571 0.1483021 0.3866058
## [334,] 0.2219048 0.1476091 0.3850837
## [335,] 0.2228571 0.1476091 0.3881279
## [336,] 0.2214286 0.1476091 0.3835616
## [337,] 0.2233333 0.1483021 0.3881279
## [338,] 0.2214286 0.1476091 0.3835616
## [339,] 0.2223810 0.1476091 0.3866058
## [340,] 0.2219048 0.1476091 0.3850837
## [341,] 0.2214286 0.1476091 0.3835616
## [342,] 0.2242857 0.1496881 0.3881279
## [343,] 0.2233333 0.1489951 0.3866058
## [344,] 0.2219048 0.1476091 0.3850837
## [345,] 0.2247619 0.1510742 0.3866058
## [346,] 0.2238095 0.1510742 0.3835616
## [347,] 0.2228571 0.1503812 0.3820396
## [348,] 0.2223810 0.1496881 0.3820396
## [349,] 0.2228571 0.1496881 0.3835616
## [350,] 0.2247619 0.1510742 0.3866058
## [351,] 0.2242857 0.1503812 0.3866058
## [352,] 0.2247619 0.1503812 0.3881279
```

```
## [353,] 0.2247619 0.1496881 0.3896499
## [354,] 0.2242857 0.1496881 0.3881279
## [355,] 0.2247619 0.1503812 0.3881279
## [356,] 0.2238095 0.1489951 0.3881279
## [357,] 0.2247619 0.1510742 0.3866058
## [358,] 0.2247619 0.1510742 0.3866058
## [359,] 0.2252381 0.1517672 0.3866058
## [360,] 0.2247619 0.1510742 0.3866058
## [361,] 0.2242857 0.1503812 0.3866058
## [362,] 0.2257143 0.1503812 0.3911720
## [363,] 0.2252381 0.1503812 0.3896499
## [364,] 0.2252381 0.1503812 0.3896499
## [365,] 0.2252381 0.1503812 0.3896499
## [366,] 0.2242857 0.1503812 0.3866058
## [367,] 0.2242857 0.1503812 0.3866058
## [368,] 0.2252381 0.1510742 0.3881279
## [369,] 0.2252381 0.1517672 0.3866058
## [370,] 0.2252381 0.1517672 0.3866058
## [371,] 0.2238095 0.1503812 0.3850837
## [372,] 0.2247619 0.1503812 0.3881279
## [373,] 0.2252381 0.1510742 0.3881279
## [374,] 0.2257143 0.1517672 0.3881279
## [375,] 0.2247619 0.1503812 0.3881279
## [376,] 0.2252381 0.1510742 0.3881279
## [377,] 0.2247619 0.1510742 0.3866058
## [378,] 0.2257143 0.1517672 0.3881279
## [379,] 0.2247619 0.1510742 0.3866058
## [380,] 0.2247619 0.1510742 0.3866058
## [381,] 0.2252381 0.1510742 0.3881279
## [382,] 0.2252381 0.1510742 0.3881279
## [383,] 0.2261905 0.1524602 0.3881279
## [384,] 0.2266667 0.1531532 0.3881279
## [385,] 0.2257143 0.1524602 0.3866058
## [386,] 0.2247619 0.1510742 0.3866058
```

```
## [387,] 0.2261905 0.1524602 0.3881279
## [388,] 0.2252381 0.1517672 0.3866058
## [389,] 0.2261905 0.1524602 0.3881279
## [390,] 0.2252381 0.1510742 0.3881279
## [391,] 0.2257143 0.1517672 0.3881279
## [392,] 0.2257143 0.1517672 0.3881279
## [393,] 0.2257143 0.1517672 0.3881279
## [394,] 0.2257143 0.1517672 0.3881279
## [395,] 0.2261905 0.1524602 0.3881279
## [396,] 0.2252381 0.1510742 0.3881279
## [397,] 0.2252381 0.1510742 0.3881279
## [398,] 0.2252381 0.1503812 0.3896499
## [399,] 0.2257143 0.1510742 0.3896499
## [400,] 0.2247619 0.1496881 0.3896499
## [401,] 0.2247619 0.1503812 0.3881279
## [402,] 0.2257143 0.1517672 0.3881279
## [403,] 0.2252381 0.1517672 0.3866058
## [404,] 0.2247619 0.1510742 0.3866058
## [405,] 0.2247619 0.1510742 0.3866058
## [406,] 0.2257143 0.1524602 0.3866058
## [407,] 0.2247619 0.1510742 0.3866058
## [408,] 0.2257143 0.1524602 0.3866058
## [409,] 0.2266667 0.1524602 0.3896499
## [410,] 0.2261905 0.1517672 0.3896499
## [411,] 0.2271429 0.1524602 0.3911720
## [412,] 0.2271429 0.1517672 0.3926941
## [413,] 0.2266667 0.1524602 0.3896499
## [414,] 0.2280952 0.1531532 0.3926941
## [415,] 0.2271429 0.1524602 0.3911720
## [416,] 0.2271429 0.1524602 0.3911720
## [417,] 0.2257143 0.1517672 0.3881279
## [418,] 0.2276190 0.1524602 0.3926941
## [419,] 0.2276190 0.1531532 0.3911720
## [420,] 0.2271429 0.1524602 0.3911720
```

```
## [421,] 0.2271429 0.1524602 0.3911720
## [422,] 0.2271429 0.1531532 0.3896499
## [423,] 0.2266667 0.1524602 0.3896499
## [424,] 0.2271429 0.1524602 0.3911720
## [425,] 0.2276190 0.1531532 0.3911720
## [426,] 0.2276190 0.1524602 0.3926941
## [427,] 0.2271429 0.1524602 0.3911720
## [428,] 0.2271429 0.1524602 0.3911720
## [429,] 0.2276190 0.1524602 0.3926941
## [430,] 0.2271429 0.1524602 0.3911720
## [431,] 0.2276190 0.1524602 0.3926941
## [432,] 0.2266667 0.1524602 0.3896499
## [433,] 0.2276190 0.1524602 0.3926941
## [434,] 0.2276190 0.1524602 0.3926941
## [435,] 0.2276190 0.1531532 0.3911720
## [436,] 0.2271429 0.1524602 0.3911720
## [437,] 0.2271429 0.1524602 0.3911720
## [438,] 0.2276190 0.1531532 0.3911720
## [439,] 0.2276190 0.1531532 0.3911720
## [440,] 0.2271429 0.1524602 0.3911720
## [441,] 0.2266667 0.1524602 0.3896499
## [442,] 0.2266667 0.1524602 0.3896499
## [443,] 0.2266667 0.1517672 0.3911720
## [444,] 0.2271429 0.1524602 0.3911720
## [445,] 0.2271429 0.1517672 0.3926941
## [446,] 0.2276190 0.1517672 0.3942161
## [447,] 0.2276190 0.1517672 0.3942161
## [448,] 0.2271429 0.1517672 0.3926941
## [449,] 0.2271429 0.1517672 0.3926941
## [450,] 0.2271429 0.1517672 0.3926941
## [451,] 0.2271429 0.1517672 0.3926941
## [452,] 0.2276190 0.1524602 0.3926941
## [453,] 0.2276190 0.1524602 0.3926941
## [454,] 0.2285714 0.1538462 0.3926941
```

```
## [455,] 0.2280952 0.1531532 0.3926941
## [456,] 0.2285714 0.1538462 0.3926941
## [457,] 0.2280952 0.1531532 0.3926941
## [458,] 0.2280952 0.1531532 0.3926941
## [459,] 0.2276190 0.1531532 0.3911720
## [460,] 0.2276190 0.1531532 0.3911720
## [461,] 0.2271429 0.1524602 0.3911720
## [462,] 0.2276190 0.1524602 0.3926941
## [463,] 0.2261905 0.1517672 0.3896499
## [464,] 0.2271429 0.1524602 0.3911720
## [465,] 0.2271429 0.1524602 0.3911720
## [466,] 0.2276190 0.1524602 0.3926941
## [467,] 0.2271429 0.1524602 0.3911720
## [468,] 0.2276190 0.1531532 0.3911720
## [469,] 0.2271429 0.1517672 0.3926941
## [470,] 0.2280952 0.1531532 0.3926941
## [471,] 0.2276190 0.1524602 0.3926941
## [472,] 0.2261905 0.1510742 0.3911720
## [473,] 0.2261905 0.1510742 0.3911720
## [474,] 0.2261905 0.1510742 0.3911720
## [475,] 0.2261905 0.1510742 0.3911720
## [476,] 0.2261905 0.1517672 0.3896499
## [477,] 0.2271429 0.1524602 0.3911720
## [478,] 0.2261905 0.1524602 0.3881279
## [479,] 0.2266667 0.1517672 0.3911720
## [480,] 0.2266667 0.1517672 0.3911720
## [481,] 0.2271429 0.1524602 0.3911720
## [482,] 0.2271429 0.1524602 0.3911720
## [483,] 0.2257143 0.1517672 0.3881279
## [484,] 0.2266667 0.1517672 0.3911720
## [485,] 0.2266667 0.1517672 0.3911720
## [486,] 0.2271429 0.1517672 0.3926941
## [487,] 0.2261905 0.1510742 0.3911720
## [488,] 0.2276190 0.1524602 0.3926941
```

```

## [489,] 0.2271429 0.1524602 0.3911720
## [490,] 0.2271429 0.1524602 0.3911720
## [491,] 0.2271429 0.1531532 0.3896499
## [492,] 0.2271429 0.1524602 0.3911720
## [493,] 0.2276190 0.1524602 0.3926941
## [494,] 0.2266667 0.1517672 0.3911720
## [495,] 0.2266667 0.1517672 0.3911720
## [496,] 0.2271429 0.1531532 0.3896499
## [497,] 0.2271429 0.1524602 0.3911720
## [498,] 0.2257143 0.1510742 0.3896499
## [499,] 0.2266667 0.1517672 0.3911720
## [500,] 0.2261905 0.1510742 0.3911720

importance(RF_MODEL)

##                               No      Yes MeanDecreaseAccuracy MeanDecreaseGini
## Age          10.522464 -5.632904           5.306007    98.568045
## Agency_Code   6.835430 36.545512           30.546016   98.356369
## Type         -1.900668 11.353716           9.821417   21.809693
## Commision     8.535920 22.475481           24.782754   89.019416
## Channel       9.493906  8.832065           12.512159   5.252134
## Duration     -1.319818 21.064565           19.366677  131.975847
## Sales         -1.950062 30.096744           30.894708  123.120574
## Product.Name  9.775998 25.471427           32.253180   79.249667
## Destination   4.209798 -0.134155           4.367368   17.112653

#SALES,PRODUCTNAME,AGENCYCODE,COMMISSION,CHANNEL,TYPE ARE IMPORTANT VARIABLES
IN OUR ANALYSIS

# AGE,DESTINATION INCREASES THE MODEL ERROR RATE AND CAN BE DROPPED ON INTEREST

##### FINE TUNING THE MODEL

##### USING FOR LOOP TO FIND THE OPTIMUM MTRY VALUE

a=c()
for(i in 2:10){

  model<-randomForest(Claimed~,data = TRAIN,ntree=500,mtry=i,importance=TRUE)
}

prevalid<-predict(model,MYDATA,type="class")

```

```

a[i-1]=mean (prevalid==MYDATA$Claimed)

}

a

## [1] 0.8216667 0.8730000 0.9096667 0.9246667 0.9300000 0.9273333 0.9290000
## [8] 0.9276667 0.9273333
plot(2:10,a)

```

```

set.seed(123)

TUNED_MODEL<-tuneRF(x=TRAIN[,-4],
                      y=as.factor(TRAIN$Claimed),
                      mtryStart = 3,### no of variables to start with
                      ntreeTry = 300,### no of times to split
                      stepFactor = 1.6,### no of steps
                      improve = 0.05,
                      trace = TRUE,
                      plot = TRUE,
                      doBest = TRUE,### pitching of graph
                      nodesize=10,
                      importance=TRUE)## to see all the important values

## mtry = 3 OOB error = 21.9%
## Searching left ...
## mtry = 2      OOB error = 21.86%
## 0.002173913 0.05
## Searching right ...
## mtry = 4      OOB error = 23.24%
## -0.06086957 0.05

varImpPlot(TUNED_MODEL)

TRAIN$predict.class<-predict(TUNED_MODEL,TRAIN,type = "class")

TRAIN$predict.score<-predict(TUNED_MODEL,TRAIN,type = "prob") [,2]

```

```

View(TRAIN)

TEST$predict.class<-predict(TUNED_MODEL,TEST,type = "class")
TEST$predict.score<-predict(TUNED_MODEL,TEST,type = "prob")[,2]
View(TEST)

##### PERFORMANCE METRIC MEASURES

library(ROCR)

##### TRAIN DATA

predicto<-prediction(TRAIN$predict.score,TRAIN$Claimed)
perf<-performance(predicto,"tpr","fpr")
plot(perf)

##### TEST DATA predicto1<-prediction(TEST$predict.score,TEST$Claimed)
perfo<-performance(predicto1,"tpr","fpr")
plot(perfo)

```

```

##### CONFUSION MATRIX

MLmetrics::ConfusionMatrix(TRAIN$predict.class,TRAIN$Claimed)

##      y_pred
## y_true   No  Yes
##    No 1261 182
##    Yes 210 447

MLmetrics::Accuracy(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.8133333

MLmetrics::Sensitivity(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.85724

MLmetrics::Specificity(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.7106518

MLmetrics::Precision(TRAIN$predict.class,TRAIN$Claimed)
## [1] 0.8738739

MLmetrics::ConfusionMatrix(TEST$predict.class,TEST$Claimed)
##y_pred

## y_true  No  Yes
##    No 554   79

```

```

##      Yes 102 165
MLmetrics::Accuracy(TEST$predict.class,TEST$Claimed)
## [1] 0.7988889
MLmetrics::Sensitivity(TEST$predict.class,TEST$Claimed)
## [1] 0.8445122
MLmetrics::Specificity(TEST$predict.class,TEST$Claimed)
## [1] 0.6762295
MLmetrics::Precision(TEST$predict.class,TEST$Claimed)
## [1] 0.8751975
importance_variable=round(randomForest::importance(TUNED_MODEL),2)
importance_variable[order(importance_variable[,3],decreasing=TRUE),]
##          No    Yes MeanDecreaseAccuracy MeanDecreaseGini
## Product.Name 10.07 21.14            27.80            67.26
## Agency_Code   8.01 31.76            27.72            81.11
## Sales        2.00 23.35            26.70            67.88
## Commision    7.94 20.56            23.21            58.74
## Duration     0.43 14.75            15.44            57.20
## Channel       12.14 9.05            14.69            4.23
## Type         -1.21 12.76            11.33            22.18
## Destination   5.12  3.27            8.59             9.75
## Age          9.20 -3.58            5.44            38.13

```

5.5 ANN

```

##### ARTIFICIAL NEURAL NETWORKS #####
setwd("C:/Training")
getwd()
## [1] "C:/Training"
read.csv("insurance_part2_data_(1).csv",header = TRUE) -> MYDATA
pacman::p_load(summarytools,esquisse,tidyverse,dummies,funModeling,scales,rsample,neuralnet,MLmetrics,InformationValue,NeuralNetTools)
funModeling::plot_num(MYDATA)
funModeling::cross_plot(data = MYDATA,target = "Claimed")
funModeling::correlation_table(MYDATA,"Claimed")
##      Variable Claimed

```

```

## 1     Claimed    1.00
## 2       Sales    0.35
## 3 Commision    0.30
## 4 Duration    0.21
## 5       Age   -0.03

DUMMYDATA=dummy.data.frame(MYDATA[,-4] )

glimpse(DUMMYDATA)
## Observations: 3,000
## Variables: 20
## $ Age                      <int> 48, 36, 39, 36, 33, 45, 61, 36, 36
,....
## $ Agency_CodeC2B           <int> 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1
,....
## $ Agency_CodeCWT           <int> 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0
,....
## $ Agency_CodeEPX           <int> 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 0, 0
,....
## $ Agency_CodeJZI           <int> 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0
,....
## $ TypeAirlines             <int> 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 1
,....
## $ `TypeTravel Agency`      <int> 0, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 0
,....
## $ Commision                <dbl> 0.70, 0.00, 5.94, 0.00, 6.30, 15.7
5...
## $ ChannelOffline            <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
,....
## $ ChannelOnline             <int> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
,....
## $ Duration                 <int> 7, 34, 3, 4, 53, 8, 30, 16, 19, 42
,....
## $ Sales                     <dbl> 2.51, 20.00, 9.90, 26.00, 18.00, 4
5...
## $ `Product.NameBronze Plan` <int> 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0
,....
## $ `Product.NameCancellation Plan` <int> 0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 0, 0
,....
## $ `Product.NameCustomised Plan` <int> 1, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0
,....

```

```

## $ `Product.NameGold_Plan`      <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
, ...
## $ `Product.NameSilver_Plan`    <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1
, ...
## $ DestinationAmericas        <int> 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0
, ...
## $ DestinationASIA            <int> 1, 1, 0, 1, 1, 1, 0, 1, 1, 1, 1, 1
, ...
## $ DestinationEUROPE          <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
, ...

names(DUMMYDATA)=str_replace_all(names(DUMMYDATA),c(" " = "-", "&" = "and",
"-" = "_"))

str(DUMMYDATA)

## 'data.frame':   3000 obs. of  20 variables:
##   $ Age                  : int  48 36 39 36 33 45 61 36 36 36 ...
##   $ Agency_CodeC2B       : int  1 0 0 0 0 0 0 0 0 0 ...
##   $ Agency_CodeCWT       : int  0 0 1 0 0 0 1 0 0 0 ...
##   $ Agency_CodeEPX       : int  0 1 0 1 0 0 0 1 1 1 ...
##   $ Agency_CodeJZI       : int  0 0 0 0 1 1 0 0 0 0 ...
##   $ TypeAirlines         : int  1 0 0 0 1 1 0 0 0 0 ...
##   $ TypeTravel_Agency   : int  0 1 1 1 0 0 1 1 1 1 ...
##   $ Commision            : num  0.7 0 5.94 0 6.3 ...
##   $ ChannelOffline       : int  0 0 0 0 0 0 0 0 0 0 ...
##   $ ChannelOnline        : int  1 1 1 1 1 1 1 1 1 1 ...
##   $ Duration             : int  7 34 3 4 53 8 30 16 19 42 ...
##   $ Sales                : num  2.51 20 9.9 26 18 45 59.4 80 14 43
...
##   $ Product.NameBronze_Plan : int  0 0 0 0 1 1 0 0 0 0 ...
##   $ Product.NameCancellation_Plan: int  0 0 0 1 0 0 0 1 1 1 ...
##   $ Product.NameCustomised_Plan : int  1 1 1 0 0 0 1 0 0 0 ...
##   $ Product.NameGold_Plan     : int  0 0 0 0 0 0 0 0 0 0 ...
##   $ Product.NameSilver_Plan  : int  0 0 0 0 0 0 0 0 0 0 ...
##   $ DestinationAmericas     : int  0 0 1 0 0 0 1 0 0 0 ...
##   $ DestinationASIA         : int  1 1 0 1 1 1 0 1 1 1 ...
##   $ DestinationEUROPE       : int  0 0 0 0 0 0 0 0 0 0 ...
## - attr(*, "dummies")=List of 5
##   ..$ Agency_Code : int  2 3 4 5

```

```

##   ..$ Type      : int  6 7
##   ..$ Channel    : int  9 10
##   ..$ Product.Name: int  13 14 15 16 17
##   ..$ Destination : int  18 19 20

SCALED_DATA=scale(DUMMYDATA)

head(SCALED_DATA)

##          Age Agency_CodeC2B Agency_CodeCWT Agency_CodeEPX Agency_CodeJZI
## 1  0.94700461     1.498668    -0.4320262   -0.9135557   -0.2941666
## 2 -0.19983718    -0.667037    -0.4320262    1.0942591   -0.2941666
## 3  0.08687327    -0.667037    2.3139030   -0.9135557   -0.2941666
## 4 -0.19983718    -0.667037    -0.4320262    1.0942591   -0.2941666
## 5 -0.48654763    -0.667037    -0.4320262   -0.9135557    3.3983011
## 6  0.66029416    -0.667037    -0.4320262   -0.9135557    3.3983011
##   TypeAirlines TypeTravel_Agency Commision ChannelOffline ChannelOnline
## 1   1.2565863    -1.2565863  -0.54271640   -0.1247674    0.1247674
## 2  -0.7955416     0.7955416  -0.57018736   -0.1247674    0.1247674
## 3  -0.7955416     0.7955416  -0.33707665   -0.1247674    0.1247674
## 4  -0.7955416     0.7955416  -0.57018736   -0.1247674    0.1247674
## 5   1.2565863    -1.2565863  -0.32294873   -0.1247674    0.1247674
## 6   1.2565863    -1.2565863   0.04790922   -0.1247674    0.1247674
##   Duration       Sales Product.NameBronze_Plan Product.NameCancellation_Plan
## 1 -0.4699722 -0.8162970           -0.525836        -0.5402
## 2 -0.2685598 -0.5690324           -0.525836        -0.5402
## 3 -0.4998111 -0.7118210           -0.525836        -0.5402
## 4 -0.4923514 -0.4842075           -0.525836        1.8503
## 5 -0.1268252 -0.5973074           1.901100        -0.5402
## 6 -0.4625125 -0.2155954           1.901100        -0.5402
##   Product.NameCustomised_Plan Product.NameGold_Plan Product.NameSilver_Plan

```

```

## 1           1.2807412      -0.1941408      -0.407306
8

## 2           1.2807412      -0.1941408      -0.407306
8

## 3           1.2807412      -0.1941408      -0.407306
8

## 4          -0.7805376      -0.1941408      -0.407306
8

## 5          -0.7805376      -0.1941408      -0.407306
8

## 6          -0.7805376      -0.1941408      -0.407306
8

## DestinationAmericas DestinationASIA DestinationEUROPE

## 1          -0.3454898      0.4657963      -0.2778013
2          -0.3454898      0.4657963      -0.2778013
3          2.8934769      -2.1461456      -0.2778013
4          -0.3454898      0.4657963      -0.2778013
5          -0.3454898      0.4657963      -0.2778013
6          -0.3454898      0.4657963      -0.2778013

TARGET= MYDATA %>%
  select(Claimed) %>%
  mutate(Claimed= case_when(
    Claimed == 'No' ~ '0',
    TRUE ~ '1'
  ))
  NEWDATA=cbind(TARGET, SCALED_DATA)
  summarytools::view(dfSummary(NEWDATA))
  ## Switching method to 'browser'
  ## Output file written: C:\Users\sachi\AppData\Local\Temp\RtmpYzlf8N\file54e4
  42e14fc4.html
  NEWDATA$Claimed=as.factor(NEWDATA$Claimed)
  ##### SPLITTING THE DATASET INTO TRAIN AND TEST DATA
  SPLIT_DATA= initial_split(NEWDATA, prop=0.7)
  TRAIN=training(SPLIT_DATA)
  TEST=testing(SPLIT_DATA)
  table(NEWDATA$Claimed)
  ##

```

```

##      0      1
## 2076  924

table(TRAIN$Claimed)

##
##      0      1
## 1457  643

table(TEST$Claimed)

##
##      0      1
## 619  281

prop.table(table(NEWDATA$Claimed) )

##
##      0      1
## 0.692 0.308

prop.table(table(TRAIN$Claimed) )

##
##      0      1
## 0.6938095 0.3061905

prop.table(table(TEST$Claimed) )

##
##      0      1
## 0.6877778 0.3122222

### THE PROPORTION OF "YES" & "NO" IN TRAIN,TEST,ORIGINAL DATASET ARE MORE OR LESS SAME

names(TRAIN)

## [1] "Claimed"                 "Age"
## [3] "Agency_CodeC2B"           "Agency_CodeCWT"
## [5] "Agency_CodeEPX"            "Agency_CodeJZI"
## [7] "TypeAirlines"              "TypeTravel_Agency"
## [9] "Commision"                 "ChannelOffline"
## [11] "ChannelOnline"             "Duration"
## [13] "Sales"                     "Product.NameBronze_Plan"
## [15] "Product.NameCancellation_Plan" "Product.NameCustomised_Plan"
## [17] "Product.NameGold_Plan"       "Product.NameSilver_Plan"

```

```

## [19] "DestinationAmericas"           "DestinationASIA"
## [21] "DestinationEUROPE"

NEURALNET_MODEL=neuralnet(Claimed~, ,
                           data=TRAIN,
                           hidden = c(4,3),
                           threshold = c(0.1,0.5),
                           lifesign = "full",
                           lifesign.step = 100,
                           err.fct = "sse",
                           linear.output = FALSE,
                           act.fct = "logistic")

## Warning in if (is.na(threshold)) {: the condition has length > 1 and only
## the
## first element will be used

## hidden: 4, 3 thresh: 0.10.5 rep: 1/1 steps:
##      100  min thresh: 0.677813046203893

## .556799276093273                                200  min thresh: 0
## .455529572521475                                300  min thresh: 0
## .455529572521475                                400  min thresh: 0
## .286988495079001                                500  min thresh: 0
## .285093795231754                                600  min thresh: 0
## .198511946348445                                700  min thresh: 0
## .192643482451416                                800  min thresh: 0
## .151855169882043                                900  min thresh: 0
## .147784021907342                               1000 min thresh: 0
## .136094661781379                               1100 min thresh: 0
## .136094661781379                               1200 min thresh: 0

```

```

##                                         1300 min thresh: 0
.136094661781379

##                                         1400 min thresh: 0
.136094661781379

##                                         1500 min thresh: 0
.136094661781379

##                                         1600 min thresh: 0
.136094661781379

##                                         1700 min thresh: 0
.127284826716252

##                                         1800 min thresh: 0
.127284826716252

##                                         1900 min thresh: 0
.127284826716252

##                                         2000 min thresh: 0
.127284826716252

##                                         2100 min thresh: 0
.127284826716252

##                                         2200 min thresh: 0
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##                                         2300 min thresh: 0
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##                                         2400 min thresh: 0
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##                                         2500 min thresh: 0
.127284826716252

##                                         2600 min thresh: 0
.127284826716252

##                                         2700 min thresh: 0
.127284826716252

##                                         2800 min thresh: 0
.10984754023454

##                                         2890 error: 285.14838      time: 10.84 secs
## Warning in if (reached.threshold <= threshold) {: the condition has length
> 1

## and only the first element will be used
## Warning in if (reached.threshold > threshold) return(result = list(output.
vector

## = NULL, : the condition has length > 1 and only the first element will be
used

```

```
print(NEURALNET_MODEL)

## $call

## neuralnet(formula = Claimed ~ ., data = TRAIN, hidden = c(4,
##            3), threshold = c(0.1, 0.5), lifesign = "full", lifesign.step = 100,
##            err.fct = "sse", act.fct = "logistic", linear.output = FALSE)

## 

## $response

##          0      1

## 1      TRUE FALSE
## 2      TRUE FALSE
## 3     FALSE  TRUE
## 4      TRUE FALSE
## 5      TRUE FALSE
## 6      TRUE FALSE
## 7      TRUE FALSE
## 8     FALSE  TRUE
## 9      TRUE FALSE
## 10     TRUE FALSE
## 11     FALSE  TRUE
## 12     TRUE FALSE
## 13     TRUE FALSE
## 14     TRUE FALSE
## 15     FALSE  TRUE
## 16     TRUE FALSE
## 17     TRUE FALSE
## 18     TRUE FALSE
## 19     TRUE FALSE
## 20     TRUE FALSE
## 21     TRUE FALSE
## 22     TRUE FALSE
## 23     TRUE FALSE
## 24     FALSE  TRUE
## 25     FALSE  TRUE
## 26     FALSE  TRUE
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## 27    TRUE FALSE
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## 2098 FALSE TRUE
## 2099 TRUE FALSE
## 2100 TRUE FALSE
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## 
## $covariate

##          Age Agency_CodeC2B Agency_CodeCWT Agency_CodeEPX Agency_Code
JZI

## 3    0.086873266   -0.667037    2.3139030   -0.9135557   -0.2941
666

## 4   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 6    0.660294161   -0.667037   -0.4320262   -0.9135557    3.3983
011

## 7    2.189416548   -0.667037    2.3139030   -0.9135557   -0.2941
666

## 8   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 9   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 10   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 11   -0.104267033    1.498668   -0.4320262   -0.9135557   -0.2941
666

## 13   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 15   -0.677687928   -0.667037    2.3139030   -0.9135557   -0.2941
666

## 16    0.086873266    1.498668   -0.4320262   -0.9135557   -0.2941
666

## 18    0.660294161   -0.667037    2.3139030   -0.9135557   -0.2941
666

## 21   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 22   -0.964398376    1.498668   -0.4320262   -0.9135557   -0.2941
666

## 23   -1.059968525    1.498668   -0.4320262   -0.9135557   -0.2941
666

## 24   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 25    0.564724012   -0.667037   -0.4320262   -0.9135557    3.3983
011

## 26   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

## 27   -0.199837182   -0.667037   -0.4320262    1.0942591   -0.2941
666

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## 28 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
## 29 011	0.755864310	-0.667037	-0.4320262	-0.9135557	3.3983
## 30 011	-1.251108823	-0.667037	-0.4320262	-0.9135557	3.3983
## 31 011	2.093846399	-0.667037	-0.4320262	-0.9135557	3.3983
## 32 666	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
## 35 666	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
## 36 666	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
## 38 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
## 39 011	-0.868828226	-0.667037	-0.4320262	-0.9135557	3.3983
## 40 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
## 41 666	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
## 44 666	0.086873266	-0.667037	-0.4320262	1.0942591	-0.2941
## 45 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
## 47 666	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
## 49 011	1.329285205	-0.667037	-0.4320262	-0.9135557	3.3983
## 50 011	-0.199837182	-0.667037	-0.4320262	-0.9135557	3.3983
## 52 666	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
## 53 666	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
## 55 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
## 56 666	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
## 57 666	-0.486547630	-0.667037	2.3139030	-0.9135557	-0.2941

## 58	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 59	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 60	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 63	-0.008696884	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 65	0.373583713	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 66	-0.773258077	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 67	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 69	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 71	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 76	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 77	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 78	1.998276250	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 79	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 80	0.182443415	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 81	1.233715056	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 82	-0.677687928	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 83	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 87	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 90	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 93	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 94	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 95	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 96	-0.008696884	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 97	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 98	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 99	0.851434459	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 100	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 102	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 103	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 104	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 105	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 106	-0.008696884	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 107	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 108	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 109	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 110	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 111	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 112	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 113	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 115	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 118	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 119	-1.537819271	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 120	0.373583713	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 121	-0.582117779	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 122	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 124	-1.728959569	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 125	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 126	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 127	-0.868828226	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 128	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 130	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 131	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 133	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 134	0.564724012	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 135	-0.868828226	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 136	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 137	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 138	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 141	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 143	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 144	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 146	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 147	1.424855355	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 148	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 149	-1.537819271	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 150	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 151	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 153	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 154	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 155	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 157	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
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## 158	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 159	3.909679234	-0.667037	2.3139030	-0.9135557	-0.2941
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## 162	0.851434459	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 163	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 164	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 165	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 166	0.564724012	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 167	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 168	-1.824529719	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 169	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 171	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 172	-1.633389420	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 174	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 175	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 176	1.138144907	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 177	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 178	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 179	2.667267294	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 180	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 182	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 183	-1.251108823	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 185	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 186	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 188	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 189	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 190	2.093846399	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 192	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 194	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 195	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 196	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 197	0.278013564	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 199	-0.104267033	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 200	-1.346678973	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 201	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 203	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 204	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 208	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 209	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 210	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 211	-0.295407331	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 212	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 214	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 215	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 219	1.233715056	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 220	2.858407593	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 222	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 223	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 224	0.755864310	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 226	0.851434459	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 228	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 230	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 231	-1.633389420	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 232	-1.059968525	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 233	1.329285205	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 235	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 237	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 238	0.469153862	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 239	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 242	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 244	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 246	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 247	0.086873266	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 248	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 249	0.660294161	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 250	1.138144907	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 252	-0.868828226	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 253	0.660294161	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 254	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 255	0.278013564	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 256	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 258	1.807135951	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 259	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 260	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 261	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 266	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 267	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 268	1.424855355	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 269	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 270	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 271	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 273	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 274	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 275	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 276	1.998276250	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 277	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 278	0.278013564	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 279	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 280	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 281	-1.059968525	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 283	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 284	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 286	2.380556847	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 287	-0.773258077	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 288	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 289	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 292	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 295	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 296	0.564724012	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 297	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 298	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 299	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 300	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 301	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 302	1.711565802	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 303	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 305	0.851434459	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 306	0.851434459	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 308	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 310	1.424855355	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 311	0.373583713	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 312	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 314	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 315	-0.773258077	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 316	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 317	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 318	0.564724012	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 320	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 321	0.469153862	-0.667037	-0.4320262	-0.9135557	3.3983
011					

## 322	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 323	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 324	1.520425504	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 325	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
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## 328	-0.773258077	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 329	0.755864310	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 330	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 332	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
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## 334	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
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## 335	-1.155538674	-0.667037	-0.4320262	1.0942591	-0.2941
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011					
## 341	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 342	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 344	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 345	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 346	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 349	-1.728959569	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 351	0.564724012	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 352	0.278013564	-0.667037	2.3139030	-0.9135557	-0.2941
666					

#	353	-0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	354	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	358	1.233715056 011	-0.667037	-0.4320262	-0.9135557	3.3983
#	359	0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
#	361	0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
#	362	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	364	0.564724012 666	-0.667037	2.3139030	-0.9135557	-0.2941
#	367	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	368	3.145118040 666	1.498668	-0.4320262	-0.9135557	-0.2941
#	370	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	372	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	373	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	375	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	377	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	378	-0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
#	379	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	380	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
#	381	0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
#	382	-1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
#	383	-1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
#	386	-1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 388	0.086873266	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 389	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 391	-1.633389420	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 392	2.284986698	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 393	0.947004609	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 395	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 396	-1.537819271	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 397	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 398	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 402	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 403	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 404	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 405	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 406	-1.155538674	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 407	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 408	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 410	0.660294161	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 411	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 412	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 414	0.564724012	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 415	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 416	1.138144907	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 417	-0.390977480	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 418	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 419	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 420	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 421	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 422	-1.346678973	-0.667037	-0.4320262	1.0942591	-0.2941
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## 423	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 424	-0.486547630	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 425	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 426	-0.677687928	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 428	0.564724012	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 429	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 430	-1.633389420	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 431	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 434	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 435	1.902706101	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 436	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 437	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 438	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 439	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 442	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 444	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 447	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 448	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 450	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 451	1.424855355	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 452	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 455	-0.582117779	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 456	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 457	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 458	2.476126996	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 460	1.711565802	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 462	1.520425504	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 464	2.476126996	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 465	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 466	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 467	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 468	-0.295407331	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 469	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 470	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 473	4.387529980	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 474	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 475	1.138144907	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 476	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 477	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 478	-0.868828226	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 479	-0.199837182	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 480	-0.295407331	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 481	-2.015670017	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 482	-0.008696884	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 485	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 487	-1.059968525	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 488	1.902706101	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 489	1.233715056	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 490	1.615995653	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 491	0.373583713	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 493	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 495	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 496	0.755864310	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 497	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 500	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 502	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 503	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 504	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 506	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 507	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 508	-1.059968525	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 509	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 510	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 512	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 514	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 515	-0.486547630	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 516	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 517	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 519	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 520	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 521	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 522	1.807135951	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 523	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 524	-0.868828226	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 526	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 527	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 529	3.622968787	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 531	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
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## 532	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 533	1.424855355	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 535	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 536	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 537	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 538	-0.390977480	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 541	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 542	1.138144907	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 544	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 545	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 546	1.042574758	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 547	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 548	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 550	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 551	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 552	0.469153862	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 553	-1.155538674	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 554	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 555	-0.677687928	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 556	0.755864310	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 557	-0.199837182	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 558	-0.390977480	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 560	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 561	2.953977742	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 562	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 563	3.240688190	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 564	2.380556847	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 565	0.564724012	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 566	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 570	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 571	0.755864310	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 573	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 574	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 575	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 578	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 582	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 583	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 584	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 585	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 586	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 587	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					

##	588	-0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	589	-0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	590	-0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
##	591	0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	592	1.520425504 011	-0.667037	-0.4320262	-0.9135557	3.3983
##	594	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
##	595	0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	597	0.086873266 011	-0.667037	-0.4320262	-0.9135557	3.3983
##	598	2.571697145 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	599	-1.059968525 011	-0.667037	-0.4320262	-0.9135557	3.3983
##	601	0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	602	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
##	606	-0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
##	608	3.145118040 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	609	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
##	610	-0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	612	-1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	613	-0.486547630 666	-0.667037	2.3139030	-0.9135557	-0.2941
##	614	-0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
##	615	0.755864310 011	-0.667037	-0.4320262	-0.9135557	3.3983
##	616	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 618	-0.390977480	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 620	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 621	-0.582117779	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 622	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 623	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 624	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 625	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 627	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 628	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 629	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 631	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 632	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 633	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 634	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 637	0.947004609	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 639	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 641	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 642	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 644	2.189416548	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 645	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 646	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 647	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 649	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 650	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 651	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 653	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 654	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 656	-0.582117779	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 657	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 658	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 659	-1.155538674	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 660	0.086873266	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 661	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 662	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 663	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 664	2.667267294	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 665	1.138144907	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 666	-1.633389420	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 668	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 669	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 672	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 673	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 678	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 679	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 681	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 683	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 684	2.953977742	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 685	-1.824529719	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 687	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 688	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 689	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 690	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 691	0.373583713	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 693	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 695	-1.155538674	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 696	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 697	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 698	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 699	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 700	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 701	-0.199837182	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 702	1.520425504	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 704	-0.773258077	-0.667037	-0.4320262	-0.9135557	3.3983
011					

##	705 011	2.189416548	-0.667037	-0.4320262	-0.9135557	3.3983
##	706 666	-0.868828226	-0.667037	2.3139030	-0.9135557	-0.2941
##	707 666	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
##	711 666	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
##	712 666	0.278013564	-0.667037	-0.4320262	1.0942591	-0.2941
##	713 011	1.902706101	-0.667037	-0.4320262	-0.9135557	3.3983
##	714 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
##	715 666	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
##	716 666	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
##	718 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
##	719 666	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
##	720 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
##	721 011	2.189416548	-0.667037	-0.4320262	-0.9135557	3.3983
##	722 666	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
##	723 666	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
##	724 666	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
##	725 666	2.476126996	1.498668	-0.4320262	-0.9135557	-0.2941
##	726 666	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
##	727 666	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
##	729 666	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
##	730 666	-0.868828226	-0.667037	-0.4320262	1.0942591	-0.2941

#	732	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	733	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	738	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	739	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	740	1.711565802	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	742	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	743	-1.059968525	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	744	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	747	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	748	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	749	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	750	2.953977742	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	751	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	752	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	753	0.755864310	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	754	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	755	-1.059968525	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	757	-1.059968525	-0.667037	-0.4320262	-0.9135557	3.3983
0	11					
#	758	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
0	11					
#	759	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	761	0.947004609	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					

#	762	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	763	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	764	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	765	1.998276250	-0.667037	-0.4320262	-0.9135557	3.3983
0	11					
#	769	-1.633389420	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	770	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	772	-0.199837182	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	773	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	774	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	775	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	777	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	778	-0.582117779	-0.667037	-0.4320262	-0.9135557	3.3983
0	11					
#	779	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	780	-1.251108823	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	781	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	782	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	783	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	784	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	785	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	788	0.755864310	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	789	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					

#	790	1.424855355	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	791	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	792	1.520425504	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	793	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	794	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	795	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	796	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	797	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	798	-0.964398376	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	799	2.571697145	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	800	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	803	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	804	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	806	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	807	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					
#	810	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	811	2.858407593	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	814	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	815	-0.868828226	1.498668	-0.4320262	-0.9135557	-0.2941
6	66					
#	816	0.373583713	-0.667037	2.3139030	-0.9135557	-0.2941
6	66					
#	817	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
6	66					

## 819	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 820	1.138144907	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 822	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 823	-0.868828226	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 825	3.527398637	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 826	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 827	0.469153862	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 830	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 831	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 832	3.049547891	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 833	0.278013564	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 834	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 835	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 837	-1.155538674	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 842	1.424855355	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 843	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 844	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 845	-1.155538674	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 846	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 847	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 848	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 849	1.902706101	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 851	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 852	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 855	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 858	-0.390977480	-0.667037	-0.4320262	1.0942591	-0.2941
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## 859	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 860	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 862	-0.199837182	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 863	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 864	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
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## 866	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 867	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 868	2.380556847	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 869	0.564724012	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 872	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 873	-0.104267033	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 876	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 877	2.093846399	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 878	-0.868828226	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 879	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 880	0.469153862	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 881	-1.155538674	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 886	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 887	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 888	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 890	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 892	-0.677687928	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 893	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 895	-0.582117779	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 897	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 898	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 899	1.233715056	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 902	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 903	1.711565802	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 904	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 905	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 906	0.278013564	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 907	-1.442249122	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 909	1.424855355	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 911	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 912	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 913	2.571697145	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 914	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 915	0.755864310	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 917	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 919	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 921	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 922	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 923	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 924	0.278013564	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 925	0.278013564	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 927	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 928	-1.251108823	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 929	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 932	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 933	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 935	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 936	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 937	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 939	3.527398637	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 940	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 941	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 942	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 946	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 947	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 949	-1.537819271	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 950	2.380556847	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 952	1.520425504	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 957	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 958	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 960	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 961	-0.008696884	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 962	-1.920099868	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 963	0.564724012	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 964	-0.964398376	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 965	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 966	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 967	0.278013564	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 968	0.278013564	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 969	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 971	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 975	2.476126996	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 977	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 978	2.858407593	1.498668	-0.4320262	-0.9135557	-0.2941
666					

##	979	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	981	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	982	-0.199837182	-0.667037	2.3139030	-0.9135557	-0.2941
666						
##	983	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	984	1.998276250	-0.667037	2.3139030	-0.9135557	-0.2941
666						
##	985	-1.728959569	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	988	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	989	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	990	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	991	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	992	0.278013564	-0.667037	2.3139030	-0.9135557	-0.2941
666						
##	993	1.520425504	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	994	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	995	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	996	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						
##	997	-0.104267033	-0.667037	-0.4320262	-0.9135557	3.3983
011						
##	999	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	1000	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	1001	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666						
##	1002	2.093846399	-0.667037	2.3139030	-0.9135557	-0.2941
666						
##	1004	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666						

## 1006 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1007 1.042574758 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1008 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1009 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1010 -1.155538674 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1011 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1012 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1013 -1.728959569 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1014 0.278013564 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1016 0.660294161 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1017 3.718538936 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1018 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1020 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1023 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1024 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1025 0.660294161 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1032 2.953977742 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1033 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1034 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1035 0.469153862 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1039 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1041 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1044 1.902706101 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1045 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1046 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1049 1.233715056 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1050 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1051 0.182443415 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1055 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1056 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1057 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1058 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1059 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1061 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1062 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1063 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1064 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1065 -2.015670017 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1066 0.564724012 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1067 0.755864310 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1070 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1074 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1075 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1080 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1081 2.093846399 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1082 0.373583713 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1086 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1087 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1088 2.189416548 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1091 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1092 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1093 0.373583713 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1095 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1096 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1098 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1099 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1100 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1102 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1104 1.138144907 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1105 0.851434459 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1107 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1108 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1110 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1111 -0.486547630 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1112 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1113 0.182443415 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1114 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1115 1.902706101 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1117 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1118 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1119 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1121 2.571697145 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1122 -1.728959569 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1127 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1129 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1130 -0.390977480 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1131 -0.964398376 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1132 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1134 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1135 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1136 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1137 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1138 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1141 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1142 -1.633389420 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1143 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1144 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1145 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1146 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1147 1.042574758 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1148 1.615995653 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1150 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1152 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1153 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1156 0.564724012 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1157 3.909679234 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1158 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1159 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1160 0.182443415 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1161 -0.295407331 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1163 1.807135951 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1166 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1167 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1168 0.373583713 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1169 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1172 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1175 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1176 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1177 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1178 2.189416548 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1179 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1181 2.762837444 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1182 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1184 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1185 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1186 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1187 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1188 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1189 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1190 0.660294161 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1191 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1194 0.182443415 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1195 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1197 2.189416548 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1198 -0.964398376 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1201 -0.390977480 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 1203 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1205 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1206 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1207 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1208 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1211 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1212 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1216 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1217 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1218 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1219 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1220 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1221 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1224 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1225 -0.008696884 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1226 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1227 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1229 1.424855355 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1230 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1231 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1233 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1234	0.851434459	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1235	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1236	1.902706101	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1238	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1242	-1.537819271	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1247	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1249	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1251	0.373583713	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1252	1.138144907	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1253	2.476126996	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1256	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1258	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1259	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1263	1.424855355	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1264	-1.633389420	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1265	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1266	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1269	1.615995653	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1270	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1271	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1272	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 1273 -1.155538674 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1274 -2.302380465 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1276 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1282 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1283 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1284 -0.008696884 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1285 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1286 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1287 1.807135951 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1288 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1289 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1290 1.902706101 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1291 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1293 1.520425504 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1294 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1296 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1298 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1299 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1301 2.953977742 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1302 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1304 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 1305 -0.390977480 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1306 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1308 -0.773258077 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1309 1.424855355 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1311 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1312 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1315 -1.537819271 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1317 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1318 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1320 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1321 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1323 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1324 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1325 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1326 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1327 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1328 1.902706101 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1329 0.086873266 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1330 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1331 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1332 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1334 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1335 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1340 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1341 1.902706101 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1343 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1347 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1348 -1.633389420 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1350 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1352 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1354 1.424855355 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1355 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1356 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1357 0.564724012 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1358 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1359 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1360 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1363 -1.442249122 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1364 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1368 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1369 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1370 1.424855355 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 1372 -0.390977480 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1374 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1375 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1376 -0.104267033 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1377 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1378 -1.251108823 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1379 0.755864310 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1383 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1384 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1385 -0.773258077 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1386 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1387 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1388 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1389 1.615995653 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1390 -1.537819271 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1391 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1393 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1395 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1397 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1399 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1400 1.424855355 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 1403	0.086873266	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1404	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1405	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1406	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1408	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1409	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1410	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1412	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1413	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1414	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1415	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1417	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1418	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1420	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1421	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1422	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1423	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1424	3.431828488	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1425	0.851434459	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1426	2.762837444	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1427	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 1429 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1430 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1431 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1432 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1434 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1436 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1437 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1438 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1439 1.520425504 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1443 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1445 1.615995653 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1446 -0.295407331 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1447 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1449 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1450 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1452 0.469153862 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1454 0.278013564 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1455 0.086873266 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1456 0.660294161 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1457 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1458 0.373583713 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 1459	0.469153862	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1462	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1463	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1464	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1465	1.711565802	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1466	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1468	0.182443415	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1470	1.138144907	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1472	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1474	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1475	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1477	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1478	1.042574758	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1479	2.189416548	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1480	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1481	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1482	-1.155538674	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1483	-0.008696884	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1484	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1485	-0.104267033	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1486	0.373583713	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 1487	0.564724012	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1489	0.278013564	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1494	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1496	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1498	0.373583713	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1500	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1501	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1503	-0.868828226	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1504	2.284986698	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1505	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1507	0.278013564	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1508	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1509	-1.251108823	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1510	-0.582117779	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1511	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1513	1.233715056	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1517	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1518	2.571697145	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1519	-0.486547630	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1520	1.424855355	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1521	-1.059968525	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 1522 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1523 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1525 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1526 -1.346678973 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1527 -0.199837182 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1528 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1529 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1531 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1532 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1535 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1536 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1537 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1538 1.424855355 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1539 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1540 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1542 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1543 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1544 0.851434459 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1548 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1551 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1553 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1556 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1558 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1559 -2.875801360 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1560 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1561 0.851434459 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1562 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1563 1.807135951 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1565 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1566 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1568 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1569 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1570 1.138144907 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1571 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1572 1.138144907 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1573 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1574 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1575 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1577 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1578 -1.346678973 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1579 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1580 1.424855355 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1581	2.189416548	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1582	-1.251108823	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1584	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1585	1.138144907	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1586	2.762837444	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1587	-0.964398376	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1588	0.086873266	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 1590	1.902706101	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1591	-1.155538674	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1592	1.520425504	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1593	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1595	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1596	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1597	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1598	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1599	0.564724012	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1600	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1601	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1602	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1604	-0.390977480	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1605	2.762837444	-0.667037	-0.4320262	-0.9135557	3.3983
011					

## 1606 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1607 2.284986698 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1608 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1609 0.278013564 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1610 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1611 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1612 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1614 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1616 -0.295407331 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1617 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1618 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1619 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1621 1.138144907 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1622 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1623 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1625 0.564724012 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1627 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1629 0.851434459 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1630 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1631 -0.104267033 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1632 -1.346678973 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1634 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1635 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1636 2.189416548 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1637 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1639 -0.773258077 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1640 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1641 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1643 0.564724012 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1644 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1645 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1646 1.329285205 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1650 2.093846399 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1651 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1652 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1654 -0.486547630 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1656 0.469153862 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1657 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1658 0.469153862 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1659 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1661 -1.633389420 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1662 1.138144907 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 1663 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1665 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1668 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1669 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1670 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1671 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1673 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1674 -2.111240166 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1675 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1677 0.851434459 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1679 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1680 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1683 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1685 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1687 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1689 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1690 -1.537819271 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1691 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1692 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1693 1.233715056 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1694 3.431828488 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 1695 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1696 1.042574758 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1697 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1698 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1699 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1701 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1704 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1705 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1706 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1707 0.660294161 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1708 -0.104267033 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1710 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1711 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1713 -1.155538674 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1716 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1717 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1718 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1719 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1720 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1722 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1723 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1724 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1725 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1726 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1727 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1728 0.469153862 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1729 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1730 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1732 1.902706101 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1733 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1735 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1737 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1738 1.615995653 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1739 1.424855355 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1740 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1741 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1743 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1745 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1746 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1748 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1749 3.145118040 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1750 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1751 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1752 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1753 1.998276250 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1754 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1755 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1756 1.998276250 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1758 1.233715056 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1759 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1760 -0.868828226 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1761 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1762 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1763 1.042574758 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1764 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1765 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1767 2.476126996 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1770 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1771 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1772 0.660294161 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1774 3.431828488 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1775 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1777 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 1778 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1779 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1780 -0.486547630 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1781 2.093846399 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1783 0.373583713 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1784 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1785 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1786 -0.582117779 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1787 4.291959831 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1788 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1789 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1791 2.380556847 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1793 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1796 -0.295407331 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1797 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1799 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1800 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1801 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1802 -1.442249122 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1803 -1.155538674 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1804 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1805 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1806 1.998276250 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1807 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1809 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1810 -1.155538674 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1813 0.564724012 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1814 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1815 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1818 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1819 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1820 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1821 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1823 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1824 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1825 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1826 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1828 3.049547891 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1829 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1830 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1832 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1834 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 1835	2.189416548	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1838	-0.390977480	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1839	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1840	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1841	2.762837444	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1842	0.086873266	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1843	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1844	1.329285205	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1846	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1847	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1848	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1850	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1852	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1853	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1856	1.424855355	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1858	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1859	-1.251108823	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1861	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1862	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1863	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1864	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 1865	0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1867	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1868	-0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1869	2.571697145 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1870	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1872	-0.390977480 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1873	-0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1875	0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1876	1.902706101 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1877	-1.059968525 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1878	0.278013564 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1879	-0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1880	0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1881	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1885	-0.582117779 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1887	-0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1890	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1891	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1892	2.093846399 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1894	-0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1895	-0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1896 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1897 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1899 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1900 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1901 2.858407593 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1902 1.329285205 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1903 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1905 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1906 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1907 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1908 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1909 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1910 0.564724012 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1911 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1913 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1915 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1916 1.902706101 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1917 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1918 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1919 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1920 0.278013564 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1921 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1923 -1.059968525 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1924 -1.442249122 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1925 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1927 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1929 1.807135951 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1930 0.469153862 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1932 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1933 0.564724012 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1934 1.520425504 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 1935 1.233715056 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1937 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1938 2.476126996 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1939 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1940 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1943 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1944 3.431828488 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1945 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1949 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1951 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1952 0.660294161 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 1954	0.086873266	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1955	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1956	4.100819533	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1957	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1958	-1.537819271	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1959	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1960	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1962	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1963	-2.015670017	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1965	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1966	-0.008696884	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1968	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1970	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1971	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 1972	0.564724012	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1973	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1975	-0.390977480	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1978	-0.582117779	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1979	-0.773258077	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 1982	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 1984	0.469153862	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 1986 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1987 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 1988 1.042574758 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1989 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1990 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1991 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1994 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1995 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 1997 -0.773258077 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 1998 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2002 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2004 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2005 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2006 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2007 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2008 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2009 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2010 1.233715056 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2011 -1.537819271 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2013 -0.582117779 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2017 0.182443415 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2018 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2019 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2020 2.571697145 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2021 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2022 1.711565802 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2023 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2025 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2026 0.660294161 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2027 1.329285205 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2028 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2029 0.564724012 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2030 0.469153862 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2031 0.469153862 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2032 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2033 0.086873266 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2034 -0.582117779 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2035 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2036 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2037 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2038 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2039 0.469153862 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2041 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2042 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2043 3.336258339 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2044 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2046 -1.346678973 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2047 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2048 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2049 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2051 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2053 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2054 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2055 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2056 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2058 -0.964398376 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2061 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2064 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2065 -0.486547630 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2066 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2067 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2068 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2069 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2070 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2071 1.711565802 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2072 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2073 1.138144907 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2074 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2076 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2077 0.564724012 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2078 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2081 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2082 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2083 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2084 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2085 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2090 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2091 2.953977742 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2092 -0.486547630 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2093 1.998276250 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2094 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2095 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2096 -1.920099868 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2097 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2098 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2100 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2101 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2104 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2105 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2107 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2110 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2112 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2113 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2114 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2116 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2117 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2118 -0.295407331 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2119 0.373583713 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2121 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2122 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2123 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2124 -0.104267033 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2127 1.329285205 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2128 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2129 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2130 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2132 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2137 0.660294161 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2139 2.476126996 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2140 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2141 0.182443415 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2142 1.138144907 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2145 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2146 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2147 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2149 1.042574758 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2151 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2154 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2155 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2156 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2157 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2158 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2159 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2161 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2163 -1.155538674 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2164 0.469153862 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 2166	0.564724012	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2167	2.476126996	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2168	-0.868828226	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2169	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2170	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2171	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2172	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2173	1.520425504	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2174	0.086873266	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2176	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2177	2.762837444	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2179	-1.824529719	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2180	0.086873266	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2182	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2183	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2184	0.373583713	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2185	1.711565802	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2186	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2189	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2190	1.329285205	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2191	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 2192 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2194 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2195 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2196 2.953977742 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2197 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2198 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2199 0.182443415 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2200 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2201 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2203 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2207 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2209 0.851434459 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2210 0.086873266 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2213 2.380556847 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2214 1.711565802 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2215 0.564724012 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2216 -1.633389420 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2218 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2219 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2220 -1.059968525 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2221 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2222	0.851434459	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2223	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2224	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2225	0.660294161	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2226	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2227	-0.868828226	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2229	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2230	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2231	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2234	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2235	1.615995653	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2236	1.042574758	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2237	2.953977742	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2238	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2241	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2242	1.711565802	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2245	-0.868828226	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2246	0.278013564	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2248	-1.346678973	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2249	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2250	0.660294161	-0.667037	2.3139030	-0.9135557	-0.2941
666					

## 2251 -0.295407331 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2252 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2253 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2254 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2258 2.093846399 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2259 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2260 0.086873266 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2263 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2266 1.807135951 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2269 0.182443415 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2270 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2271 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2272 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2273 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2275 1.042574758 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2276 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2277 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2278 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2280 1.998276250 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2281 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2284 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2285 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2286 -0.390977480 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2287 2.858407593 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2288 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2289 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2290 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2293 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2294 -1.155538674 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2295 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2298 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2301 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2303 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2304 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2306 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2307 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2308 0.851434459 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2310 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2312 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2313 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2314 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2315 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2316 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2318 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2320 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2321 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2322 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2323 0.755864310 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2324 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2325 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2329 0.564724012 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2330 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2331 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2332 -0.008696884 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2334 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2335 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2336 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2337 3.049547891 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2338 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2340 -1.633389420 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2341 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2343 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2344 1.424855355 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2345 -1.155538674 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2346 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2348 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2352 1.233715056 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2353 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2354 -1.059968525 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2355 0.851434459 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2356 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2357 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2359 2.093846399 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2360 0.373583713 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2361 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2362 0.564724012 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2363 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2364 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2365 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2366 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2367 0.373583713 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2368 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2370 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2371 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2372 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2374 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2376 0.086873266 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2377 1.329285205 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2379 0.182443415 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2380 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2381 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2382 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2383 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2384 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2385 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2387 1.998276250 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2388 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2389 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2390 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2392 0.086873266 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2394 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2396 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2397 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2400 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2402 0.660294161 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2404	1.329285205	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2405	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2406	-1.251108823	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2407	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2408	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2410	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2411	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2413	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2414	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2415	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2416	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2417	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2418	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2419	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2420	2.476126996	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2422	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2423	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2424	0.660294161	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2426	1.520425504	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2427	2.189416548	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2428	1.424855355	-0.667037	-0.4320262	-0.9135557	3.3983
011					

## 2430 -0.486547630 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2433 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2434 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2436 -1.633389420 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2437 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2438 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2439 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2441 0.182443415 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2443 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2444 1.520425504 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2445 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2448 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2449 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2450 -1.155538674 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2451 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2452 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2453 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2454 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2456 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2458 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2460 2.571697145 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 2461 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2462 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2463 0.660294161 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2469 0.086873266 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2470 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2471 1.233715056 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2473 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2474 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2477 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2479 2.667267294 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2481 -0.486547630 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2482 0.851434459 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2483 -1.059968525 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2485 1.329285205 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2488 1.520425504 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2490 1.711565802 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2491 0.086873266 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2492 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2495 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2496 -0.773258077 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2497 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2498 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2499 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2500 1.138144907 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2501 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2503 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2506 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2508 -1.537819271 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2509 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2510 -1.155538674 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2511 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2513 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2514 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2515 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2516 -1.442249122 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2517 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2518 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2520 0.851434459 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2521 1.902706101 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2522 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2523 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2524 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2525 -0.008696884 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2526 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2528 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2529 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2531 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2532 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2533 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2535 0.755864310 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2537 1.520425504 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2538 1.424855355 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2539 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2540 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2542 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2545 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2546 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2547 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2549 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2552 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2553 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2554 0.086873266 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2555 0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2556 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2558 1.138144907 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2559 0.086873266 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2560 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2562 0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2564 0.373583713 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2567 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2569 -0.486547630 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2570 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2571 1.042574758 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2572 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2573 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2574 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2576 3.431828488 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2577 -0.868828226 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2578 -0.104267033 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2579 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2580 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2581 -0.199837182 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2582 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2584 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2585	1.138144907	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2588	2.476126996	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2589	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2591	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2592	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2593	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2594	1.615995653	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2596	1.902706101	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2597	2.093846399	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2598	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2601	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2602	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2603	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2604	-1.155538674	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2605	-0.390977480	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2606	1.711565802	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2607	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2608	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2610	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2611	0.182443415	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2612	-0.677687928	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 2613 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2614 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2615 2.189416548 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2616 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2617 -0.582117779 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2619 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2620 -0.295407331 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2621 2.093846399 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2622 -1.442249122 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2624 0.564724012 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2628 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2629 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2630 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2631 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2634 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2635 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2636 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2637 0.086873266 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2638 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2639 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2643 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2644	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2645	1.424855355	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2646	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2647	1.520425504	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2648	1.615995653	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2649	3.240688190	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2650	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2651	-0.677687928	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2652	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2653	0.469153862	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2654	-1.442249122	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2655	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2656	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2657	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2658	3.145118040	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2659	1.042574758	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2660	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2661	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2662	1.902706101	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2663	1.520425504	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2665	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 2667 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2670 0.469153862 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2671 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2672 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2673 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2675 2.380556847 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2679 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2681 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2683 -1.442249122 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2685 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2687 2.571697145 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2688 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2690 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2692 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2695 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2696 -1.728959569 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2698 -0.390977480 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2700 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2703 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2708 0.851434459 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2709 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2710 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2713 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2714 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2715 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2716 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2717 -0.008696884 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2719 -1.442249122 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2721 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2722 -1.442249122 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2724 1.042574758 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2725 -2.589090912 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2726 2.380556847 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2727 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2728 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2729 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2730 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2731 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2732 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2733 -1.346678973 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2734 0.373583713 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2735 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2736	0.278013564 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2737	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2741	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2742	2.476126996 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2743	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2744	-0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2746	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2747	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2749	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2750	-0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2751	0.182443415 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2752	-0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2754	-0.390977480 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2756	-0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2757	2.953977742 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2758	-0.390977480 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2760	0.755864310 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2761	-0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2763	-1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2764	0.086873266 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2765	-0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941

## 2767 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2768 1.902706101 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2769 -1.251108823 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2770 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2771 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2773 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2774 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2776 -0.104267033 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2777 -1.537819271 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2778 -1.346678973 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2779 -0.199837182 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2781 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2782 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2784 -0.295407331 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2787 1.233715056 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2788 -1.537819271 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2790 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2791 -0.104267033 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2792 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2793 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2794 0.564724012 011	-0.667037	-0.4320262	-0.9135557	3.3983

## 2795 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2798 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2799 1.329285205 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2800 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2802 -0.008696884 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2807 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2811 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2812 -0.104267033 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2813 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2814 0.564724012 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2815 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2816 0.182443415 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2817 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2818 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2820 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2821 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2822 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2823 2.284986698 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2824 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2826 -1.251108823 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2827 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2828	1.233715056	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2829	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2831	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2832	0.947004609	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2833	1.233715056	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2834	-0.295407331	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2835	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2837	-1.251108823	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2838	1.042574758	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2839	-1.442249122	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2840	-0.199837182	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2843	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2845	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2846	0.947004609	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2847	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2848	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2850	-0.295407331	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2852	0.660294161	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2853	-0.773258077	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2855	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2856	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
666					

## 2857 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2860 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2861 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2862 2.571697145 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2864 -0.582117779 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2865 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2866 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2867 -1.155538674 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2868 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2869 2.571697145 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2870 3.431828488 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2871 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2872 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2873 -0.199837182 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2875 -1.537819271 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2877 0.947004609 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2878 0.947004609 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2879 -1.251108823 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2880 1.615995653 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2881 2.571697145 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2883 0.373583713 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2884 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2885 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2887 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2888 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2889 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2890 0.086873266 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2891 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2892 -1.346678973 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2893 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2894 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2895 -1.059968525 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2896 -0.295407331 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2898 0.278013564 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2901 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2903 1.520425504 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2904 0.086873266 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2905 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2906 -0.677687928 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2907 -0.677687928 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2908 3.240688190 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2909 -0.582117779 666	-0.667037	2.3139030	-0.9135557	-0.2941

## 2910 -0.008696884 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2911 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2912 -1.346678973 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2913 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2914 -0.964398376 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2916 0.947004609 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2918 2.953977742 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2920 -1.059968525 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2921 -1.251108823 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2922 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2923 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2924 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2925 0.851434459 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2926 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2927 -0.868828226 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2928 1.138144907 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2929 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2930 -0.773258077 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2931 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2933 1.329285205 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2934 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941

## 2935	1.329285205	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2936	2.762837444	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2938	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2939	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2940	1.807135951	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2941	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2943	-0.868828226	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2945	0.182443415	-0.667037	2.3139030	-0.9135557	-0.2941
666					
## 2946	2.380556847	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2947	-0.104267033	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2948	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2950	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2954	0.086873266	-0.667037	-0.4320262	-0.9135557	3.3983
011					
## 2955	-1.155538674	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2956	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2957	-0.199837182	-0.667037	-0.4320262	1.0942591	-0.2941
666					
## 2959	-0.964398376	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2961	-0.008696884	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2962	-1.728959569	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2964	-0.486547630	1.498668	-0.4320262	-0.9135557	-0.2941
666					
## 2965	1.424855355	-0.667037	-0.4320262	1.0942591	-0.2941
666					

## 2966 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2967 -0.773258077 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2968 -0.964398376 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2969 1.520425504 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2970 2.093846399 011	-0.667037	-0.4320262	-0.9135557	3.3983
## 2974 -0.773258077 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2976 -1.442249122 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2977 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2979 0.660294161 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2980 -0.677687928 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2981 1.615995653 666	-0.667037	2.3139030	-0.9135557	-0.2941
## 2982 -0.390977480 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2985 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2986 -0.390977480 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2987 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2988 -2.111240166 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2989 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2992 -0.868828226 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2994 -0.199837182 666	-0.667037	-0.4320262	1.0942591	-0.2941
## 2995 -1.059968525 666	1.498668	-0.4320262	-0.9135557	-0.2941
## 2996 -0.964398376 666	-0.667037	2.3139030	-0.9135557	-0.2941

	Type	Airlines	Type	Travel_Agency	Commision	ChannelOffline	ChannelOnline
## 2997 666	-0.295407331	1.498668	-0.4320262	-0.9135557	-0.9135557	-0.2941	-0.2941
## 2998 666	-0.199837182	-0.667037	-0.4320262	1.0942591	1.0942591	-0.2941	-0.2941
## 3 674	-0.7955416	0.7955416	-0.337076650	-0.1247674	-0.1247674	0.1247	0.1247
## 4 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 6 674	1.2565863	-1.2565863	0.047909222	-0.1247674	-0.1247674	0.1247	0.1247
## 7 674	-0.7955416	0.7955416	0.828476909	-0.1247674	-0.1247674	0.1247	0.1247
## 8 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 9 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 10 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 11 674	1.2565863	-1.2565863	1.272721565	-0.1247674	-0.1247674	0.1247	0.1247
## 13 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 15 674	-0.7955416	0.7955416	0.362255485	-0.1247674	-0.1247674	0.1247	0.1247
## 16 674	1.2565863	-1.2565863	1.549000928	-0.1247674	-0.1247674	0.1247	0.1247
## 18 674	-0.7955416	0.7955416	1.760919757	-0.1247674	-0.1247674	0.1247	0.1247
## 21 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 22 674	1.2565863	-1.2565863	0.106775564	-0.1247674	-0.1247674	0.1247	0.1247
## 23 674	1.2565863	-1.2565863	-0.324910940	-0.1247674	-0.1247674	0.1247	0.1247
## 24 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247
## 25 674	1.2565863	-1.2565863	-0.020768176	-0.1247674	-0.1247674	0.1247	0.1247
## 26 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	-0.1247674	0.1247	0.1247

# # 27 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 28 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 29 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# # 30 674	1.2565863	-1.2565863 0.432502653	-0.1247674	0.1247
# # 31 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# # 32 674	1.2565863	-1.2565863 0.018476052	-0.1247674	0.1247
# # 35 397	-0.7955416	0.7955416 -0.570187362	8.0122397	-8.0122
# # 36 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
# # 38 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 39 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# # 40 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 41 674	-0.7955416	0.7955416 0.067531336	-0.1247674	0.1247
# # 44 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 45 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 47 674	1.2565863	-1.2565863 1.009392798	-0.1247674	0.1247
# # 49 674	1.2565863	-1.2565863 -0.116916534	-0.1247674	0.1247
# # 50 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# # 52 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
# # 53 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 55 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 56 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247

## 57	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
674					
## 58	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 59	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 60	1.2565863	-1.2565863	-0.270361464	-0.1247674	0.1247
674					
## 63	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
674					
## 65	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 66	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 67	1.2565863	-1.2565863	0.352051986	-0.1247674	0.1247
674					
## 69	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 71	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 76	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 77	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 78	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
674					
## 79	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
674					
## 80	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 81	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 82	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 83	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 87	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 90	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 93	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					

# # 94 674	1.2565863	-1.2565863	2.696894585	-0.1247674	0.1247
# # 95 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 96 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# # 97 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 98 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 99 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 100 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 102 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 103 674	1.2565863	-1.2565863	0.474886418	-0.1247674	0.1247
# # 104 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# # 105 674	1.2565863	-1.2565863	-0.539969307	-0.1247674	0.1247
# # 106 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# # 107 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 108 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 109 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 110 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 111 674	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
# # 112 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 113 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 115 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 118 674	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247

## 119 674	-0.7955416	0.7955416	1.527809045	-0.1247674	0.1247
## 120 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
## 121 674	-0.7955416	0.7955416	0.118548832	-0.1247674	0.1247
## 122 674	1.2565863	-1.2565863	0.214697189	-0.1247674	0.1247
## 124 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 125 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 126 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 127 674	-0.7955416	0.7955416	2.460251892	-0.1247674	0.1247
## 128 674	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
## 130 674	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
## 131 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 133 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 134 674	-0.7955416	0.7955416	5.291722913	-0.1247674	0.1247
## 135 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
## 136 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 137 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 138 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 141 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 143 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 144 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
## 146 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 147 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 148 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 149 674	-0.7955416	0.7955416	0.548273124	-0.1247674	0.1247
## 150 674	1.2565863	-1.2565863	-0.393588338	-0.1247674	0.1247
## 151 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 153 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 154 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 155 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 157 674	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
## 158 674	-0.7955416	0.7955416	1.055308544	-0.1247674	0.1247
## 159 397	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122
## 162 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 163 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 164 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 165 674	1.2565863	-1.2565863	0.219798939	-0.1247674	0.1247
## 166 674	-0.7955416	0.7955416	1.381428076	-0.1247674	0.1247
## 167 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 168 397	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122
## 169 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 171 674	1.2565863	-1.2565863	-0.403399395	-0.1247674	0.1247
## 172 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 174 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 175 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 176 674	1.2565863	-1.2565863 -0.359053418	-0.1247674	0.1247
## 177 674	1.2565863	-1.2565863 -0.035288540	-0.1247674	0.1247
## 178 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 179 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
## 180 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 182 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 183 674	-0.7955416	0.7955416 1.527809045	-0.1247674	0.1247
## 185 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 186 674	1.2565863	-1.2565863 0.293185645	-0.1247674	0.1247
## 188 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 189 674	-0.7955416	0.7955416 2.693362604	-0.1247674	0.1247
## 190 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 192 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
## 194 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 195 674	1.2565863	-1.2565863 2.165527743	-0.1247674	0.1247
## 196 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 197 674	1.2565863	-1.2565863 1.972838586	-0.1247674	0.1247
## 199 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 200 674	-0.7955416	0.7955416 0.858302522	-0.1247674	0.1247

# # 201 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 203 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 204 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 208 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
# # 209 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
# # 210 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 211 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
# # 212 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 214 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 215 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 219 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 220 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 222 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 223 674	1.2565863	-1.2565863 -0.421059297	-0.1247674	0.1247
# # 224 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# # 226 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 228 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# # 230 674	1.2565863	-1.2565863 -0.094154882	-0.1247674	0.1247
# # 231 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
# # 232 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# # 233 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247

## 235 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 237 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 238 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 239 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 242 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 244 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 246 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 247 674	-0.7955416	0.7955416 7.679341720	-0.1247674	0.1247
## 248 674	1.2565863	-1.2565863 -0.221698621	-0.1247674	0.1247
## 249 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 250 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 252 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
## 253 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 254 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 255 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 256 674	1.2565863	-1.2565863 -0.373966224	-0.1247674	0.1247
## 258 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 259 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 260 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 261 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 266 674	1.2565863	-1.2565863 -0.162832280	-0.1247674	0.1247

## 267 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
## 268 674	1.2565863	-1.2565863	2.292286598	-0.1247674	0.1247
## 269 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 270 674	1.2565863	-1.2565863	-0.558806536	-0.1247674	0.1247
## 271 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 273 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 274 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 275 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 276 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 277 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 278 674	1.2565863	-1.2565863	0.377560734	-0.1247674	0.1247
## 279 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 280 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 281 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 283 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 284 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 286 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 287 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 288 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
## 289 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 292 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 295 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 296 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
# # 297 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 298 674	1.2565863	-1.2565863 1.009392798	-0.1247674	0.1247
# # 299 674	1.2565863	-1.2565863 0.214697189	-0.1247674	0.1247
# # 300 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 301 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# # 302 674	-0.7955416	0.7955416 1.760919757	-0.1247674	0.1247
# # 303 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 305 674	1.2565863	-1.2565863 0.298287394	-0.1247674	0.1247
# # 306 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 308 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 310 674	1.2565863	-1.2565863 -0.035288540	-0.1247674	0.1247
# # 311 674	1.2565863	-1.2565863 -0.094154882	-0.1247674	0.1247
# # 312 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 314 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 315 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 316 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 317 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 318 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 320 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247

## 321 674	1.2565863	-1.2565863	0.377560734	-0.1247674	0.1247
## 322 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 323 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 324 674	-0.7955416	0.7955416	3.392694740	-0.1247674	0.1247
## 325 674	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
## 328 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 329 674	1.2565863	-1.2565863	1.325308830	-0.1247674	0.1247
## 330 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 332 674	1.2565863	-1.2565863	-0.329620247	-0.1247674	0.1247
## 334 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 335 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 336 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 338 674	1.2565863	-1.2565863	-0.373966224	-0.1247674	0.1247
## 340 674	1.2565863	-1.2565863	0.047909222	-0.1247674	0.1247
## 341 674	1.2565863	-1.2565863	-0.103965939	-0.1247674	0.1247
## 342 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 344 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 345 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 346 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 349 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 351 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247

# # 352 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
# # 353 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 354 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 358 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# # 359 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
# # 361 674	1.2565863	-1.2565863	-0.335506881	-0.1247674	0.1247
# # 362 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 364 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
# # 367 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 368 674	1.2565863	-1.2565863	-0.074532768	-0.1247674	0.1247
# # 370 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 372 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 373 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 375 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 377 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 378 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# # 379 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 380 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 381 674	-0.7955416	0.7955416	0.294755414	-0.1247674	0.1247
# # 382 674	1.2565863	-1.2565863	2.344088979	-0.1247674	0.1247
# # 383 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247

## 386 674	1.2565863	-1.2565863	-0.324910940	-0.1247674	0.1247
## 388 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
## 389 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 391 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 392 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
## 393 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
## 395 674	1.2565863	-1.2565863	-0.309998133	-0.1247674	0.1247
## 396 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 397 674	1.2565863	-1.2565863	-0.329620247	-0.1247674	0.1247
## 398 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 402 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 403 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 404 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 405 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
## 406 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 407 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 408 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 410 674	1.2565863	-1.2565863	0.569857449	-0.1247674	0.1247
## 411 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 412 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 414 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247

# # 415 674	1.2565863	-1.2565863	0.654232539	-0.1247674	0.1247
# # 416 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 417 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# # 418 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 419 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 420 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 421 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 422 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 423 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 424 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# # 425 674	1.2565863	-1.2565863	-0.335506881	-0.1247674	0.1247
# # 426 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 428 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 429 674	-0.7955416	0.7955416	1.760919757	-0.1247674	0.1247
# # 430 674	1.2565863	-1.2565863	0.042022588	-0.1247674	0.1247
# # 431 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 434 674	-0.7955416	0.7955416	0.450162555	-0.1247674	0.1247
# # 435 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# # 436 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
# # 437 674	1.2565863	-1.2565863	0.018476052	-0.1247674	0.1247
# # 438 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 439	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
674					
# # 442	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 444	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
674					
# # 447	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 448	1.2565863	-1.2565863	-0.550957691	-0.1247674	0.1247
674					
# # 450	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 451	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
674					
# # 452	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 455	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
674					
# # 456	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 457	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
674					
# # 458	-0.7955416	0.7955416	0.067531336	-0.1247674	0.1247
674					
# # 460	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
674					
# # 462	1.2565863	-1.2565863	0.047909222	-0.1247674	0.1247
674					
# # 464	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
674					
# # 465	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 466	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
# # 467	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
674					
# # 468	1.2565863	-1.2565863	0.047909222	-0.1247674	0.1247
674					
# # 469	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
674					
# # 470	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					

# # 473 674	-0.7955416	0.7955416	0.169566328	-0.1247674	0.1247
# # 474 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 475 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 476 674	-0.7955416	0.7955416	0.361078158	-0.1247674	0.1247
# # 477 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 478 674	1.2565863	-1.2565863	2.292286598	-0.1247674	0.1247
# # 479 674	-0.7955416	0.7955416	0.067531336	-0.1247674	0.1247
# # 480 674	-0.7955416	0.7955416	2.227141180	-0.1247674	0.1247
# # 481 674	1.2565863	-1.2565863	0.229609996	-0.1247674	0.1247
# # 482 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# # 485 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 487 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# # 488 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 489 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
# # 490 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 491 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
# # 493 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 495 674	1.2565863	-1.2565863	-0.109067688	-0.1247674	0.1247
# # 496 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 497 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 500 674	1.2565863	-1.2565863	-0.083558940	-0.1247674	0.1247

## 502 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 503 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 504 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 506 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 507 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 508 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 509 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 510 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 512 674	1.2565863	-1.2565863 3.668189217	-0.1247674	0.1247
## 514 674	-0.7955416	0.7955416 2.693362604	-0.1247674	0.1247
## 515 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 516 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
## 517 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
## 519 674	1.2565863	-1.2565863 0.357153736	-0.1247674	0.1247
## 520 674	1.2565863	-1.2565863 0.842604831	-0.1247674	0.1247
## 521 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
## 522 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 523 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 524 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
## 526 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 527 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# # 529 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 531 674	1.2565863	-1.2565863 0.018476052	-0.1247674	0.1247
# # 532 674	1.2565863	-1.2565863 0.053010972	-0.1247674	0.1247
# # 533 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 535 674	-0.7955416	0.7955416 0.548273124	-0.1247674	0.1247
# # 536 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 537 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 538 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# # 541 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# # 542 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 544 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 545 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 546 674	1.2565863	-1.2565863 -0.045099597	-0.1247674	0.1247
# # 547 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 548 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
# # 550 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 551 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
# # 552 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# # 553 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# # 554 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 555 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247

## 556 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
## 557 674	1.2565863	-1.2565863 -0.020768176	-0.1247674	0.1247
## 558 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 560 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 561 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 562 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 563 674	1.2565863	-1.2565863 0.214697189	-0.1247674	0.1247
## 564 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
## 565 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 566 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 570 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 571 674	1.2565863	-1.2565863 2.696894585	-0.1247674	0.1247
## 573 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 574 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 575 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 578 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 582 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
## 583 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
## 584 674	1.2565863	-1.2565863 -0.177745086	-0.1247674	0.1247
## 585 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
## 586 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 587 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 588 674	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
## 589 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
## 590 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
## 591 674	1.2565863	-1.2565863	-0.403399395	-0.1247674	0.1247
## 592 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 594 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 595 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 597 674	1.2565863	-1.2565863	0.198999498	-0.1247674	0.1247
## 598 674	1.2565863	-1.2565863	1.696166781	-0.1247674	0.1247
## 599 674	1.2565863	-1.2565863	0.047909222	-0.1247674	0.1247
## 601 674	1.2565863	-1.2565863	-0.496408214	-0.1247674	0.1247
## 602 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 606 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 608 674	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
## 609 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 610 674	1.2565863	-1.2565863	-0.035288540	-0.1247674	0.1247
## 612 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
## 613 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 614 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 615 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247

## 616 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 618 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
## 620 674	1.2565863	-1.2565863 2.292286598	-0.1247674	0.1247
## 621 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 622 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
## 623 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 624 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
## 625 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 627 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 628 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
## 629 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 631 674	1.2565863	-1.2565863 -0.532512904	-0.1247674	0.1247
## 632 674	-0.7955416	0.7955416 3.858916164	-0.1247674	0.1247
## 633 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 634 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 637 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 639 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 641 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 642 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 644 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 645 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	646 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	647 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	649 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	650 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	651 674	1.2565863	-1.2565863 0.038098165	-0.1247674	0.1247
# #	653 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	654 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	656 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	657 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	658 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	659 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	660 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	661 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	662 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	663 674	1.2565863	-1.2565863 0.277487954	-0.1247674	0.1247
# #	664 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	665 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# #	666 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
# #	668 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	669 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# #	672 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 673	1.2565863	-1.2565863	-0.340608631	-0.1247674	0.1247
674					
## 678	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122
397					
## 679	1.2565863	-1.2565863	-0.285666712	-0.1247674	0.1247
674					
## 681	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 683	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 684	1.2565863	-1.2565863	-0.340608631	-0.1247674	0.1247
674					
## 685	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
674					
## 687	1.2565863	-1.2565863	-0.353166784	-0.1247674	0.1247
674					
## 688	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 689	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 690	1.2565863	-1.2565863	0.405424136	-0.1247674	0.1247
674					
## 691	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 693	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 695	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
674					
## 696	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 697	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 698	1.2565863	-1.2565863	0.053010972	-0.1247674	0.1247
674					
## 699	1.2565863	-1.2565863	0.106775564	-0.1247674	0.1247
674					
## 700	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
## 701	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
674					
## 702	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
674					

# #	704 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	705 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
# #	706 674	-0.7955416	0.7955416 0.828476909	-0.1247674	0.1247
# #	707 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# #	711 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	712 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	713 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# #	714 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	715 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	716 674	-0.7955416	0.7955416 1.994030468	-0.1247674	0.1247
# #	718 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	719 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# #	720 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	721 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	722 674	1.2565863	-1.2565863 0.259043167	-0.1247674	0.1247
# #	723 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	724 674	1.2565863	-1.2565863 -0.388486589	-0.1247674	0.1247
# #	725 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# #	726 674	1.2565863	-1.2565863 1.764844179	-0.1247674	0.1247
# #	727 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	729 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247

# #	730 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	732 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	733 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	738 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
# #	739 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	740 674	1.2565863	-1.2565863 0.042022588	-0.1247674	0.1247
# #	742 674	1.2565863	-1.2565863 -0.397905203	-0.1247674	0.1247
# #	743 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	744 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	747 674	1.2565863	-1.2565863 -0.277032982	-0.1247674	0.1247
# #	748 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	749 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	750 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
# #	751 674	1.2565863	-1.2565863 -0.364155167	-0.1247674	0.1247
# #	752 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	753 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	754 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	755 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	757 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# #	758 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# #	759 674	1.2565863	-1.2565863 -0.532512904	-0.1247674	0.1247

# #	761	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	762	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	763	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	764	1.2565863	-1.2565863 -0.209140468	-0.1247674	0.1247
674					
# #	765	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
674					
# #	769	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	770	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
674					
# #	772	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
674					
# #	773	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	774	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
674					
# #	775	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	777	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	778	1.2565863	-1.2565863 -0.116916534	-0.1247674	0.1247
674					
# #	779	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	780	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
674					
# #	781	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	782	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	783	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	784	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
674					
# #	785	1.2565863	-1.2565863 -0.373966224	-0.1247674	0.1247
674					
# #	788	-0.7955416	0.7955416 0.501180051	-0.1247674	0.1247
674					

# #	789	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	790	1.2565863	-1.2565863	2.292286598	-0.1247674	0.1247
674						
# #	791	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	792	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	793	1.2565863	-1.2565863	-0.285666712	-0.1247674	0.1247
674						
# #	794	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	795	1.2565863	-1.2565863	-0.045099597	-0.1247674	0.1247
674						
# #	796	-0.7955416	0.7955416	5.965153858	-0.1247674	0.1247
674						
# #	797	1.2565863	-1.2565863	3.837331838	-0.1247674	0.1247
674						
# #	798	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
674						
# #	799	-0.7955416	0.7955416	2.460251892	-0.1247674	0.1247
674						
# #	800	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	803	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	804	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	806	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	807	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	810	1.2565863	-1.2565863	-0.467367486	-0.1247674	0.1247
674						
# #	811	1.2565863	-1.2565863	3.249845751	-0.1247674	0.1247
674						
# #	814	-0.7955416	0.7955416	-0.152628781	-0.1247674	0.1247
674						
# #	815	1.2565863	-1.2565863	-0.035288540	-0.1247674	0.1247
674						
# #	816	-0.7955416	0.7955416	1.994030468	-0.1247674	0.1247
674						

## 817 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 819 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 820 674	1.2565863	-1.2565863 0.111877313	-0.1247674	0.1247
## 822 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 823 674	1.2565863	-1.2565863 2.292286598	-0.1247674	0.1247
## 825 674	1.2565863	-1.2565863 0.018476052	-0.1247674	0.1247
## 826 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 827 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 830 674	1.2565863	-1.2565863 1.029014912	-0.1247674	0.1247
## 831 674	1.2565863	-1.2565863 2.396676244	-0.1247674	0.1247
## 832 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
## 833 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 834 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 835 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 837 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 842 674	1.2565863	-1.2565863 -0.285666712	-0.1247674	0.1247
## 843 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
## 844 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 845 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 846 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
## 847 674	-0.7955416	0.7955416 0.828476909	-0.1247674	0.1247

# # 848 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 849 674	1.2565863	-1.2565863 -0.364155167	-0.1247674	0.1247
# # 851 674	1.2565863	-1.2565863 1.009392798	-0.1247674	0.1247
# # 852 674	1.2565863	-1.2565863 0.038098165	-0.1247674	0.1247
# # 855 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 858 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 859 674	1.2565863	-1.2565863 -0.469722140	-0.1247674	0.1247
# # 860 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 862 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# # 863 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 864 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 866 674	1.2565863	-1.2565863 -0.035288540	-0.1247674	0.1247
# # 867 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 868 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 869 674	1.2565863	-1.2565863 0.748418685	-0.1247674	0.1247
# # 872 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 873 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 876 674	1.2565863	-1.2565863 0.038098165	-0.1247674	0.1247
# # 877 674	1.2565863	-1.2565863 -0.035288540	-0.1247674	0.1247
# # 878 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 879 674	1.2565863	-1.2565863 -0.340608631	-0.1247674	0.1247

## 880 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
## 881 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 886 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 887 674	1.2565863	-1.2565863 -0.393588338	-0.1247674	0.1247
## 888 674	1.2565863	-1.2565863 3.837331838	-0.1247674	0.1247
## 890 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 892 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 893 674	1.2565863	-1.2565863 2.184757415	-0.1247674	0.1247
## 895 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 897 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 898 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
## 899 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 902 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 903 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
## 904 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
## 905 674	1.2565863	-1.2565863 -0.270361464	-0.1247674	0.1247
## 906 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
## 907 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
## 909 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 911 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 912 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247

# #	913 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	914 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	915 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
# #	917 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	919 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	921 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	922 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	923 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	924 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	925 397	-0.7955416	0.7955416 -0.570187362	8.0122397	-8.0122
# #	927 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	928 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
# #	929 674	1.2565863	-1.2565863 0.803360603	-0.1247674	0.1247
# #	932 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# #	933 674	1.2565863	-1.2565863 1.272721565	-0.1247674	0.1247
# #	935 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	936 674	1.2565863	-1.2565863 -0.237003870	-0.1247674	0.1247
# #	937 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	939 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# #	940 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	941 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# # 942 674	-0.7955416	0.7955416 -0.137715974	-0.1247674	0.1247
# # 946 674	1.2565863	-1.2565863 0.420729384	-0.1247674	0.1247
# # 947 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
# # 949 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
# # 950 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 952 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# # 957 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 958 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 960 674	-0.7955416	0.7955416 0.160540155	-0.1247674	0.1247
# # 961 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# # 962 674	1.2565863	-1.2565863 -0.015666426	-0.1247674	0.1247
# # 963 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# # 964 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# # 965 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 966 674	1.2565863	-1.2565863 2.382940764	-0.1247674	0.1247
# # 967 674	1.2565863	-1.2565863 0.881849059	-0.1247674	0.1247
# # 968 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 969 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 971 674	1.2565863	-1.2565863 -0.344533054	-0.1247674	0.1247
# # 975 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 977 674	1.2565863	-1.2565863 -0.202076508	-0.1247674	0.1247

# # 978 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# # 979 674	1.2565863	-1.2565863	-0.221698621	-0.1247674	0.1247
# # 981 674	1.2565863	-1.2565863	-0.111029900	-0.1247674	0.1247
# # 982 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# # 983 674	1.2565863	-1.2565863	0.087153450	-0.1247674	0.1247
# # 984 397	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122
# # 985 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 988 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 989 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 990 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 991 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 992 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
# # 993 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
# # 994 674	1.2565863	-1.2565863	0.691906997	-0.1247674	0.1247
# # 995 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 996 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 997 674	1.2565863	-1.2565863	0.047909222	-0.1247674	0.1247
# # 999 674	1.2565863	-1.2565863	-0.334329555	-0.1247674	0.1247
# # 1000 674	1.2565863	-1.2565863	-0.280564963	-0.1247674	0.1247
# # 1001 674	1.2565863	-1.2565863	1.483463067	-0.1247674	0.1247
# # 1002 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247

## 1004 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1006 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1007 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1008 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1009 674	1.2565863	-1.2565863 -0.020768176	-0.1247674	0.1247
## 1010 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1011 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1012 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1013 674	1.2565863	-1.2565863 -0.015666426	-0.1247674	0.1247
## 1014 674	-0.7955416	0.7955416 2.460251892	-0.1247674	0.1247
## 1016 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1017 674	-0.7955416	0.7955416 0.105990679	-0.1247674	0.1247
## 1018 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1020 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1023 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1024 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1025 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
## 1032 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
## 1033 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1034 674	1.2565863	-1.2565863 -0.548210595	-0.1247674	0.1247
## 1035 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247

## 1039 674	1.2565863	-1.2565863 -0.568225151	-0.1247674	0.1247
## 1041 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1044 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
## 1045 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1046 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1049 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
## 1050 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1051 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
## 1055 674	-0.7955416	0.7955416 -0.152628781	-0.1247674	0.1247
## 1056 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1057 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
## 1058 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1059 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1061 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1062 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 1063 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
## 1064 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1065 674	1.2565863	-1.2565863 1.460701415	-0.1247674	0.1247
## 1066 674	1.2565863	-1.2565863 1.272721565	-0.1247674	0.1247
## 1067 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1070 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 1074 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1075 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1080 674	-0.7955416	0.7955416	7.679341720	-0.1247674	0.1247
## 1081 674	1.2565863	-1.2565863	0.102066256	-0.1247674	0.1247
## 1082 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1086 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
## 1087 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 1088 674	1.2565863	-1.2565863	2.696894585	-0.1247674	0.1247
## 1091 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1092 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1093 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
## 1095 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1096 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1098 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1099 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1100 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
## 1102 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1104 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1105 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
## 1107 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1108 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247

## 1110 674	1.2565863	-1.2565863	-0.045099597	-0.1247674	0.1247
## 1111 674	-0.7955416	0.7955416	0.361078158	-0.1247674	0.1247
## 1112 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1113 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 1114 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1115 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1117 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1118 674	1.2565863	-1.2565863	2.292286598	-0.1247674	0.1247
## 1119 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1121 674	1.2565863	-1.2565863	-0.388486589	-0.1247674	0.1247
## 1122 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
## 1127 674	1.2565863	-1.2565863	-0.403399395	-0.1247674	0.1247
## 1129 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1130 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 1131 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
## 1132 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1134 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1135 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1136 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1137 674	1.2565863	-1.2565863	-0.339431304	-0.1247674	0.1247
## 1138 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247

# #	1141 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1142 674	1.2565863	-1.2565863 0.273563531	-0.1247674	0.1247
# #	1143 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1144 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1145 674	-0.7955416	0.7955416 3.159584028	-0.1247674	0.1247
# #	1146 674	1.2565863	-1.2565863 0.259043167	-0.1247674	0.1247
# #	1147 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1148 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
# #	1150 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1152 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1153 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1156 674	-0.7955416	0.7955416 5.024469723	-0.1247674	0.1247
# #	1157 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1158 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1159 674	-0.7955416	0.7955416 -0.152628781	-0.1247674	0.1247
# #	1160 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1161 674	1.2565863	-1.2565863 0.748418685	-0.1247674	0.1247
# #	1163 674	1.2565863	-1.2565863 -0.373966224	-0.1247674	0.1247
# #	1166 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1167 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1168 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247

## 1169 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1172 674	1.2565863	-1.2565863 1.784466293	-0.1247674	0.1247
## 1175 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1176 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1177 674	1.2565863	-1.2565863 1.272721565	-0.1247674	0.1247
## 1178 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1179 674	1.2565863	-1.2565863 0.357153736	-0.1247674	0.1247
## 1181 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1182 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1184 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1185 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1186 674	1.2565863	-1.2565863 1.244858164	-0.1247674	0.1247
## 1187 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1188 674	1.2565863	-1.2565863 -0.339431304	-0.1247674	0.1247
## 1189 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
## 1190 674	1.2565863	-1.2565863 -0.061974615	-0.1247674	0.1247
## 1191 674	-0.7955416	0.7955416 1.036863758	-0.1247674	0.1247
## 1194 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1195 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1197 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1198 674	1.2565863	-1.2565863 -0.020768176	-0.1247674	0.1247

# #	1201 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# #	1203 674	1.2565863	-1.2565863	4.717972306	-0.1247674	0.1247
# #	1205 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1206 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1207 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1208 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1211 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
# #	1212 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1216 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
# #	1217 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1218 674	1.2565863	-1.2565863	3.249845751	-0.1247674	0.1247
# #	1219 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1220 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# #	1221 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	1224 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1225 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
# #	1226 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	1227 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1229 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
# #	1230 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1231 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 1233 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 1234 674	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
## 1235 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1236 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 1238 674	1.2565863	-1.2565863	-0.563123401	-0.1247674	0.1247
## 1242 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1247 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1249 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1251 674	1.2565863	-1.2565863	2.696894585	-0.1247674	0.1247
## 1252 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 1253 674	-0.7955416	0.7955416	1.760919757	-0.1247674	0.1247
## 1256 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1258 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1259 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1263 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
## 1264 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
## 1265 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1266 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1269 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
## 1270 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1271 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 1272 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1273 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1274 397	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122
## 1276 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1282 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1283 674	1.2565863	-1.2565863	-0.315099883	-0.1247674	0.1247
## 1284 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
## 1285 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1286 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 1287 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 1288 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1289 674	1.2565863	-1.2565863	0.401107271	-0.1247674	0.1247
## 1290 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1291 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1293 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1294 674	1.2565863	-1.2565863	0.126397677	-0.1247674	0.1247
## 1296 674	1.2565863	-1.2565863	-0.388486589	-0.1247674	0.1247
## 1298 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1299 674	1.2565863	-1.2565863	2.382940764	-0.1247674	0.1247
## 1301 674	1.2565863	-1.2565863	-0.334721997	-0.1247674	0.1247
## 1302 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 1304 674	-0.7955416	0.7955416	1.527809045	-0.1247674	0.1247
## 1305 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1306 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1308 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1309 674	1.2565863	-1.2565863	-0.280564963	-0.1247674	0.1247
## 1311 674	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247
## 1312 674	1.2565863	-1.2565863	0.465860246	-0.1247674	0.1247
## 1315 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1317 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1318 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 1320 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1321 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 1323 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1324 674	1.2565863	-1.2565863	-0.548210595	-0.1247674	0.1247
## 1325 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 1326 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
## 1327 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1328 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1329 674	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
## 1330 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1331 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 1332 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1334 674	1.2565863	-1.2565863 1.272721565	-0.1247674	0.1247
## 1335 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
## 1340 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
## 1341 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
## 1343 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1347 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1348 674	1.2565863	-1.2565863 -0.116916534	-0.1247674	0.1247
## 1350 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1352 674	1.2565863	-1.2565863 -0.172643337	-0.1247674	0.1247
## 1354 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
## 1355 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
## 1356 674	1.2565863	-1.2565863 -0.556059440	-0.1247674	0.1247
## 1357 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1358 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1359 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1360 674	1.2565863	-1.2565863 0.073810412	-0.1247674	0.1247
## 1363 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1364 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1368 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1369 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 1370 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 1372 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 1374 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1375 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1376 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1377 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1378 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 1379 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 1383 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1384 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1385 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
## 1386 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
## 1387 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 1388 674	1.2565863	-1.2565863 -0.373966224	-0.1247674	0.1247
## 1389 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1390 674	-0.7955416	0.7955416 1.368477481	-0.1247674	0.1247
## 1391 674	1.2565863	-1.2565863 0.038098165	-0.1247674	0.1247
## 1393 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1395 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
## 1397 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1399 674	1.2565863	-1.2565863 2.101559652	-0.1247674	0.1247

## 1400 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 1403 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
## 1404 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1405 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1406 674	-0.7955416	0.7955416	1.994030468	-0.1247674	0.1247
## 1408 674	1.2565863	-1.2565863	-0.373966224	-0.1247674	0.1247
## 1409 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
## 1410 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
## 1412 674	1.2565863	-1.2565863	-0.388486589	-0.1247674	0.1247
## 1413 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1414 674	1.2565863	-1.2565863	-0.228762582	-0.1247674	0.1247
## 1415 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1417 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1418 674	1.2565863	-1.2565863	-0.221698621	-0.1247674	0.1247
## 1420 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1421 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1422 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
## 1423 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1424 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
## 1425 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1426 674	1.2565863	-1.2565863	-0.045099597	-0.1247674	0.1247

## 1427 674	1.2565863	-1.2565863	0.040452819	-0.1247674	0.1247
## 1429 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1430 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1431 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1432 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1434 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1436 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1437 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1438 674	1.2565863	-1.2565863	0.102851141	-0.1247674	0.1247
## 1439 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
## 1443 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1445 674	-0.7955416	0.7955416	3.625805452	-0.1247674	0.1247
## 1446 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
## 1447 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
## 1449 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1450 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1452 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 1454 397	-0.7955416	0.7955416	-0.570187362	8.0122397	-8.0122
## 1455 674	1.2565863	-1.2565863	0.391296214	-0.1247674	0.1247
## 1456 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
## 1457 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# #	1458 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# #	1459 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1462 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1463 674	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247
# #	1464 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1465 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
# #	1466 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1468 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# #	1470 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1472 674	1.2565863	-1.2565863	-0.381815070	-0.1247674	0.1247
# #	1474 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# #	1475 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1477 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1478 674	1.2565863	-1.2565863	-0.222875948	-0.1247674	0.1247
# #	1479 674	1.2565863	-1.2565863	3.350310974	-0.1247674	0.1247
# #	1480 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1481 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1482 674	-0.7955416	0.7955416	4.325137587	-0.1247674	0.1247
# #	1483 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1484 674	1.2565863	-1.2565863	0.560046392	-0.1247674	0.1247
# #	1485 674	-0.7955416	0.7955416	2.460251892	-0.1247674	0.1247

## 1486 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1487 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
## 1489 674	1.2565863	-1.2565863	0.018476052	-0.1247674	0.1247
## 1494 674	1.2565863	-1.2565863	-0.109067688	-0.1247674	0.1247
## 1496 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1498 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1500 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1501 674	1.2565863	-1.2565863	-0.397905203	-0.1247674	0.1247
## 1503 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1504 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
## 1505 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1507 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1508 674	1.2565863	-1.2565863	-0.319809190	-0.1247674	0.1247
## 1509 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
## 1510 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
## 1511 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1513 674	1.2565863	-1.2565863	-0.388486589	-0.1247674	0.1247
## 1517 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1518 674	-0.7955416	0.7955416	0.361078158	-0.1247674	0.1247
## 1519 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1520 397	-0.7955416	0.7955416	-0.158122973	8.0122397	-8.0122

## 1521 674	1.2565863	-1.2565863	0.053010972	-0.1247674	0.1247
## 1522 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1523 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1525 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 1526 674	-0.7955416	0.7955416	4.325137587	-0.1247674	0.1247
## 1527 674	1.2565863	-1.2565863	0.432502653	-0.1247674	0.1247
## 1528 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1529 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1531 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1532 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1535 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1536 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1537 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1538 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1539 674	1.2565863	-1.2565863	0.053010972	-0.1247674	0.1247
## 1540 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1542 674	1.2565863	-1.2565863	0.538462067	-0.1247674	0.1247
## 1543 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1544 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
## 1548 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
## 1551 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247

## 1553 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247
## 1556 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
## 1558 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1559 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
## 1560 674	1.2565863	-1.2565863 0.068316221	-0.1247674	0.1247
## 1561 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 1562 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1563 674	1.2565863	-1.2565863 1.972838586	-0.1247674	0.1247
## 1565 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1566 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1568 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1569 674	1.2565863	-1.2565863 -0.561161190	-0.1247674	0.1247
## 1570 674	1.2565863	-1.2565863 -0.079634517	-0.1247674	0.1247
## 1571 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1572 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1573 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1574 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1575 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
## 1577 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
## 1578 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1579 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247

# #	1580 674	1.2565863	-1.2565863	-0.209140468	-0.1247674	0.1247
# #	1581 674	1.2565863	-1.2565863	1.972838586	-0.1247674	0.1247
# #	1582 674	1.2565863	-1.2565863	1.915934456	-0.1247674	0.1247
# #	1584 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1585 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# #	1586 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
# #	1587 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1588 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# #	1590 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1591 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# #	1592 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1593 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1595 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1596 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1597 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# #	1598 674	1.2565863	-1.2565863	-0.207178257	-0.1247674	0.1247
# #	1599 674	1.2565863	-1.2565863	-0.103965939	-0.1247674	0.1247
# #	1600 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	1601 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1602 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1604 674	-0.7955416	0.7955416	5.965153858	-0.1247674	0.1247

# #	1605 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# #	1606 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1607 674	1.2565863	-1.2565863	-0.172643337	-0.1247674	0.1247
# #	1608 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
# #	1609 674	-0.7955416	0.7955416	2.926473316	-0.1247674	0.1247
# #	1610 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# #	1611 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
# #	1612 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1614 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1616 674	-0.7955416	0.7955416	1.760919757	-0.1247674	0.1247
# #	1617 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1618 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
# #	1619 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# #	1621 674	1.2565863	-1.2565863	0.273563531	-0.1247674	0.1247
# #	1622 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
# #	1623 674	1.2565863	-1.2565863	1.009392798	-0.1247674	0.1247
# #	1625 674	1.2565863	-1.2565863	-0.397905203	-0.1247674	0.1247
# #	1627 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1629 674	-0.7955416	0.7955416	1.527809045	-0.1247674	0.1247
# #	1630 674	1.2565863	-1.2565863	-0.403399395	-0.1247674	0.1247
# #	1631 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247

# #	1632 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1634 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
# #	1635 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1636 674	1.2565863	-1.2565863 0.298287394	-0.1247674	0.1247
# #	1637 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1639 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	1640 674	1.2565863	-1.2565863 -0.522309405	-0.1247674	0.1247
# #	1641 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1643 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1644 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1645 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
# #	1646 674	1.2565863	-1.2565863 -0.403399395	-0.1247674	0.1247
# #	1650 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# #	1651 674	1.2565863	-1.2565863 -0.529765808	-0.1247674	0.1247
# #	1652 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1654 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	1656 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1657 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1658 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1659 674	-0.7955416	0.7955416 1.527809045	-0.1247674	0.1247
# #	1661 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	1662 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
# #	1663 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
# #	1665 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1668 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# #	1669 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1670 674	1.2565863	-1.2565863	0.416020077	-0.1247674	0.1247
# #	1671 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1673 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# #	1674 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	1675 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# #	1677 674	1.2565863	-1.2565863	-0.116916534	-0.1247674	0.1247
# #	1679 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1680 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1683 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1685 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1687 674	-0.7955416	0.7955416	0.548273124	-0.1247674	0.1247
# #	1689 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1690 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1691 674	1.2565863	-1.2565863	-0.349242361	-0.1247674	0.1247
# #	1692 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
# #	1693 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247

## 1694 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 1695 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1696 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1697 674	1.2565863	-1.2565863 -0.548995479	-0.1247674	0.1247
## 1698 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1699 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1701 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1704 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1705 674	1.2565863	-1.2565863 0.287299011	-0.1247674	0.1247
## 1706 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1707 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 1708 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 1710 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1711 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1713 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1716 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1717 674	1.2565863	-1.2565863 0.159755271	-0.1247674	0.1247
## 1718 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
## 1719 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
## 1720 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1722 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247

## 1723 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1724 674	1.2565863	-1.2565863 -0.231509678	-0.1247674	0.1247
## 1725 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1726 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1727 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
## 1728 674	-0.7955416	0.7955416 0.828476909	-0.1247674	0.1247
## 1729 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1730 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 1732 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1733 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1735 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1737 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1738 397	-0.7955416	0.7955416 -0.570187362	8.0122397	-8.0122
## 1739 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1740 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1741 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1743 397	-0.7955416	0.7955416 0.180947154	8.0122397	-8.0122
## 1745 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 1746 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1748 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1749 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247

## 1750 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1751 674	1.2565863	-1.2565863 -0.015666426	-0.1247674	0.1247
## 1752 674	1.2565863	-1.2565863 2.292286598	-0.1247674	0.1247
## 1753 674	1.2565863	-1.2565863 -0.052163558	-0.1247674	0.1247
## 1754 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1755 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 1756 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1758 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 1759 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1760 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
## 1761 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1762 674	1.2565863	-1.2565863 0.178200058	-0.1247674	0.1247
## 1763 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
## 1764 674	1.2565863	-1.2565863 -0.014489100	-0.1247674	0.1247
## 1765 674	1.2565863	-1.2565863 -0.550565249	-0.1247674	0.1247
## 1767 674	-0.7955416	0.7955416 4.325137587	-0.1247674	0.1247
## 1770 674	1.2565863	-1.2565863 -0.103965939	-0.1247674	0.1247
## 1771 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
## 1772 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1774 674	1.2565863	-1.2565863 0.533752760	-0.1247674	0.1247
## 1775 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 1777 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
## 1778 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1779 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1780 674	-0.7955416	0.7955416	2.926473316	-0.1247674	0.1247
## 1781 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1783 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1784 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1785 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1786 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 1787 674	1.2565863	-1.2565863	0.111877313	-0.1247674	0.1247
## 1788 674	1.2565863	-1.2565863	1.272721565	-0.1247674	0.1247
## 1789 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1791 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1793 674	-0.7955416	0.7955416	0.846529254	-0.1247674	0.1247
## 1796 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1797 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1799 674	1.2565863	-1.2565863	-0.560376305	-0.1247674	0.1247
## 1800 674	-0.7955416	0.7955416	3.625805452	-0.1247674	0.1247
## 1801 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
## 1802 674	1.2565863	-1.2565863	1.183637169	-0.1247674	0.1247
## 1803 397	-0.7955416	0.7955416	-0.194620104	8.0122397	-8.0122

# #	1804 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1805 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1806 674	1.2565863	-1.2565863 1.325308830	-0.1247674	0.1247
# #	1807 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1809 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1810 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1813 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	1814 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1815 674	1.2565863	-1.2565863 -0.177745086	-0.1247674	0.1247
# #	1818 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1819 674	1.2565863	-1.2565863 0.361863043	-0.1247674	0.1247
# #	1820 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1821 674	-0.7955416	0.7955416 1.527809045	-0.1247674	0.1247
# #	1823 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1824 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1825 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1826 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1828 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	1829 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# #	1830 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# #	1832 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	1834 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# #	1835 674	-0.7955416	0.7955416	5.965153858	-0.1247674	0.1247
# #	1838 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1839 674	1.2565863	-1.2565863	-0.353166784	-0.1247674	0.1247
# #	1840 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1841 674	1.2565863	-1.2565863	0.018476052	-0.1247674	0.1247
# #	1842 674	-0.7955416	0.7955416	2.460251892	-0.1247674	0.1247
# #	1843 674	1.2565863	-1.2565863	0.038098165	-0.1247674	0.1247
# #	1844 674	-0.7955416	0.7955416	1.994030468	-0.1247674	0.1247
# #	1846 674	1.2565863	-1.2565863	-0.324910940	-0.1247674	0.1247
# #	1847 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1848 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1850 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	1852 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1853 674	1.2565863	-1.2565863	-0.339431304	-0.1247674	0.1247
# #	1856 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1858 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
# #	1859 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1861 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
# #	1862 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	1863 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247

# #	1864 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1865 674	1.2565863	-1.2565863 -0.561946075	-0.1247674	0.1247
# #	1867 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1868 674	1.2565863	-1.2565863 0.018476052	-0.1247674	0.1247
# #	1869 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1870 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1872 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1873 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	1875 674	1.2565863	-1.2565863 -0.493268676	-0.1247674	0.1247
# #	1876 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1877 674	-0.7955416	0.7955416 2.227141180	-0.1247674	0.1247
# #	1878 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
# #	1879 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1880 674	-0.7955416	0.7955416 -0.078064748	-0.1247674	0.1247
# #	1881 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1885 674	-0.7955416	0.7955416 2.460251892	-0.1247674	0.1247
# #	1887 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1890 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1891 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1892 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1894 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 1895 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1896 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1897 674	-0.7955416	0.7955416 5.965153858	-0.1247674	0.1247
## 1899 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 1900 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1901 674	1.2565863	-1.2565863 2.184757415	-0.1247674	0.1247
## 1902 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 1903 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 1905 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1906 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1907 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1908 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
## 1909 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1910 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1911 674	1.2565863	-1.2565863 -0.538399538	-0.1247674	0.1247
## 1913 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1915 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 1916 674	1.2565863	-1.2565863 -0.045099597	-0.1247674	0.1247
## 1917 674	1.2565863	-1.2565863 0.352051986	-0.1247674	0.1247
## 1918 674	1.2565863	-1.2565863 -0.045099597	-0.1247674	0.1247
## 1919 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247

# #	1920 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1921 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1923 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# #	1924 674	1.2565863	-1.2565863 -0.045099597	-0.1247674	0.1247
# #	1925 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1927 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
# #	1929 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1930 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# #	1932 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
# #	1933 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1934 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# #	1935 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# #	1937 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# #	1938 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# #	1939 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
# #	1940 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1943 674	1.2565863	-1.2565863 -0.397905203	-0.1247674	0.1247
# #	1944 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1945 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	1949 674	1.2565863	-1.2565863 -0.109067688	-0.1247674	0.1247
# #	1951 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	1952	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1954	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1955	1.2565863	-1.2565863	-0.281742290	-0.1247674	0.1247
674						
# #	1956	1.2565863	-1.2565863	1.671835360	-0.1247674	0.1247
674						
# #	1957	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1958	-0.7955416	0.7955416	0.548273124	-0.1247674	0.1247
674						
# #	1959	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1960	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247
674						
# #	1962	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1963	1.2565863	-1.2565863	-0.373966224	-0.1247674	0.1247
674						
# #	1965	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1966	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
674						
# #	1968	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1970	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1971	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	1972	-0.7955416	0.7955416	-0.337076650	-0.1247674	0.1247
674						
# #	1973	1.2565863	-1.2565863	1.266442489	-0.1247674	0.1247
674						
# #	1975	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
674						
# #	1978	1.2565863	-1.2565863	-0.221698621	-0.1247674	0.1247
674						
# #	1979	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
674						
# #	1982	-0.7955416	0.7955416	-0.337076650	-0.1247674	0.1247
674						

## 1984 674	1.2565863	-1.2565863	3.249845751	-0.1247674	0.1247
## 1986 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 1987 674	1.2565863	-1.2565863	-0.103965939	-0.1247674	0.1247
## 1988 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1989 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1990 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1991 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 1994 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1995 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 1997 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 1998 674	1.2565863	-1.2565863	0.675816864	-0.1247674	0.1247
## 2002 674	1.2565863	-1.2565863	-0.096509535	-0.1247674	0.1247
## 2004 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2005 674	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
## 2006 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2007 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2008 674	1.2565863	-1.2565863	-0.103965939	-0.1247674	0.1247
## 2009 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 2010 674	1.2565863	-1.2565863	-0.228762582	-0.1247674	0.1247
## 2011 674	-0.7955416	0.7955416	0.712313995	-0.1247674	0.1247
## 2013 674	1.2565863	-1.2565863	-0.061974615	-0.1247674	0.1247

## 2017 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 2018 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 2019 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2020 674	1.2565863	-1.2565863	0.348127563	-0.1247674	0.1247
## 2021 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
## 2022 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 2023 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2025 674	1.2565863	-1.2565863	1.972838586	-0.1247674	0.1247
## 2026 674	1.2565863	-1.2565863	0.018476052	-0.1247674	0.1247
## 2027 674	1.2565863	-1.2565863	-0.116916534	-0.1247674	0.1247
## 2028 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2029 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2030 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 2031 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 2032 674	1.2565863	-1.2565863	-0.568225151	-0.1247674	0.1247
## 2033 674	-0.7955416	0.7955416	4.648902465	-0.1247674	0.1247
## 2034 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247
## 2035 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2036 674	1.2565863	-1.2565863	-0.050201347	-0.1247674	0.1247
## 2037 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2038 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

## 2039 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2041 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2042 674	1.2565863	-1.2565863 -0.381815070	-0.1247674	0.1247
## 2043 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 2044 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 2046 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2047 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
## 2048 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2049 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
## 2051 674	-0.7955416	0.7955416 5.723801859	-0.1247674	0.1247
## 2053 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
## 2054 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2055 674	1.2565863	-1.2565863 2.696894585	-0.1247674	0.1247
## 2056 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2058 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
## 2061 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2064 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
## 2065 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
## 2066 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2067 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2068 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2069	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2070	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2071	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2072	1.2565863	-1.2565863	-0.035288540	-0.1247674	0.1247
674						
# #	2073	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
674						
# #	2074	1.2565863	-1.2565863	1.176180765	-0.1247674	0.1247
674						
# #	2076	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
674						
# #	2077	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
674						
# #	2078	1.2565863	-1.2565863	-0.171858452	-0.1247674	0.1247
674						
# #	2081	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2082	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
674						
# #	2083	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2084	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2085	1.2565863	-1.2565863	-0.224445717	-0.1247674	0.1247
674						
# #	2090	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2091	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674						
# #	2092	-0.7955416	0.7955416	5.965153858	-0.1247674	0.1247
674						
# #	2093	1.2565863	-1.2565863	0.779029182	-0.1247674	0.1247
674						
# #	2094	1.2565863	-1.2565863	0.158185502	-0.1247674	0.1247
674						
# #	2095	1.2565863	-1.2565863	-0.002715831	-0.1247674	0.1247
674						
# #	2096	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
674						

# #	2097 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# #	2098 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2100 674	1.2565863	-1.2565863	0.675816864	-0.1247674	0.1247
# #	2101 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2104 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2105 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# #	2107 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2110 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2112 674	1.2565863	-1.2565863	0.219798939	-0.1247674	0.1247
# #	2113 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2114 674	1.2565863	-1.2565863	0.528651010	-0.1247674	0.1247
# #	2116 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2117 674	1.2565863	-1.2565863	3.249845751	-0.1247674	0.1247
# #	2118 674	1.2565863	-1.2565863	1.682431301	-0.1247674	0.1247
# #	2119 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# #	2121 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# #	2122 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2123 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2124 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
# #	2127 674	-0.7955416	0.7955416	1.760919757	-0.1247674	0.1247
# #	2128 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 2129 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2130 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2132 674	1.2565863	-1.2565863 -0.193835220	-0.1247674	0.1247
# # 2137 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2139 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2140 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2141 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2142 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
# # 2145 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2146 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2147 674	1.2565863	-1.2565863 -0.339431304	-0.1247674	0.1247
# # 2149 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2151 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2154 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
# # 2155 674	1.2565863	-1.2565863 1.779756986	-0.1247674	0.1247
# # 2156 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2157 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
# # 2158 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# # 2159 674	1.2565863	-1.2565863 -0.388486589	-0.1247674	0.1247
# # 2161 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2163 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

## 2164 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 2166 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 2167 674	1.2565863	-1.2565863 1.009392798	-0.1247674	0.1247
## 2168 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
## 2169 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2170 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2171 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2172 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2173 674	1.2565863	-1.2565863 -0.213064891	-0.1247674	0.1247
## 2174 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 2176 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2177 674	1.2565863	-1.2565863 -0.045099597	-0.1247674	0.1247
## 2179 674	1.2565863	-1.2565863 -0.334329555	-0.1247674	0.1247
## 2180 674	1.2565863	-1.2565863 1.009392798	-0.1247674	0.1247
## 2182 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2183 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2184 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
## 2185 674	1.2565863	-1.2565863 1.325308830	-0.1247674	0.1247
## 2186 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2189 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2190 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247

## 2191 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2192 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 2194 674	1.2565863	-1.2565863 2.184757415	-0.1247674	0.1247
## 2195 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2196 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2197 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2198 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2199 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2200 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2201 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2203 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2207 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
## 2209 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2210 674	-0.7955416	0.7955416 0.567895238	-0.1247674	0.1247
## 2213 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
## 2214 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
## 2215 674	1.2565863	-1.2565863 0.198999498	-0.1247674	0.1247
## 2216 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2218 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
## 2219 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2220 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247

## 2221 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2222 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
## 2223 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
## 2224 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2225 674	1.2565863	-1.2565863 0.217051843	-0.1247674	0.1247
## 2226 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2227 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2229 674	1.2565863	-1.2565863 -0.339431304	-0.1247674	0.1247
## 2230 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2231 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2234 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
## 2235 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2236 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2237 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
## 2238 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2241 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2242 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
## 2245 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2246 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
## 2248 674	1.2565863	-1.2565863 -0.403399395	-0.1247674	0.1247
## 2249 674	1.2565863	-1.2565863 -0.069823461	-0.1247674	0.1247

## 2250 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 2251 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 2252 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2253 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2254 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2258 674	1.2565863	-1.2565863	-0.020768176	-0.1247674	0.1247
## 2259 674	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
## 2260 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2263 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
## 2266 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
## 2269 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
## 2270 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2271 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2272 674	1.2565863	-1.2565863	-0.083558940	-0.1247674	0.1247
## 2273 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2275 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2276 674	-0.7955416	0.7955416	5.291722913	-0.1247674	0.1247
## 2277 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2278 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2280 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
## 2281 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 2284 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2285 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 2286 674	-0.7955416	0.7955416 5.965153858	-0.1247674	0.1247
# # 2287 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2288 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# # 2289 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# # 2290 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2293 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2294 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# # 2295 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2298 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2301 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2303 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2304 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2306 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 2307 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2308 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2310 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2312 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2313 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2314 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2315 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2316 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2318 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2320 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2321 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2322 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	2323 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	2324 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2325 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
# #	2329 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	2330 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2331 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2332 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2334 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
# #	2335 674	1.2565863	-1.2565863 -0.211887564	-0.1247674	0.1247
# #	2336 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2337 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122
# #	2338 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2340 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	2341 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2343 674	1.2565863	-1.2565863 0.053010972	-0.1247674	0.1247

# # 2344 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
# # 2345 674	-0.7955416	0.7955416	0.595366197	-0.1247674	0.1247
# # 2346 674	1.2565863	-1.2565863	0.259043167	-0.1247674	0.1247
# # 2348 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2352 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2353 674	1.2565863	-1.2565863	-0.297832423	-0.1247674	0.1247
# # 2354 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
# # 2355 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
# # 2356 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2357 674	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247
# # 2359 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
# # 2360 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# # 2361 674	1.2565863	-1.2565863	0.087153450	-0.1247674	0.1247
# # 2362 674	1.2565863	-1.2565863	-0.423021509	-0.1247674	0.1247
# # 2363 674	1.2565863	-1.2565863	0.042022588	-0.1247674	0.1247
# # 2364 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2365 674	-0.7955416	0.7955416	0.828476909	-0.1247674	0.1247
# # 2366 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2367 674	1.2565863	-1.2565863	-0.158122973	-0.1247674	0.1247
# # 2368 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2370 674	-0.7955416	0.7955416	1.294698333	-0.1247674	0.1247

# # 2371 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2372 674	1.2565863	-1.2565863 -0.309998133	-0.1247674	0.1247
# # 2374 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# # 2376 674	-0.7955416	0.7955416 0.607139465	-0.1247674	0.1247
# # 2377 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# # 2379 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# # 2380 674	1.2565863	-1.2565863 -0.084343825	-0.1247674	0.1247
# # 2381 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2382 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2383 674	1.2565863	-1.2565863 -0.349242361	-0.1247674	0.1247
# # 2384 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# # 2385 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# # 2387 674	1.2565863	-1.2565863 -0.297832423	-0.1247674	0.1247
# # 2388 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2389 674	1.2565863	-1.2565863 -0.397905203	-0.1247674	0.1247
# # 2390 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2392 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# # 2394 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2396 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2397 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2400 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2402 674	1.2565863	-1.2565863 -0.142817724	-0.1247674	0.1247
# #	2404 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2405 674	1.2565863	-1.2565863 0.685627921	-0.1247674	0.1247
# #	2406 674	-0.7955416	0.7955416 0.105990679	-0.1247674	0.1247
# #	2407 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2408 674	1.2565863	-1.2565863 -0.277032982	-0.1247674	0.1247
# #	2410 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2411 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2413 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
# #	2414 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2415 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2416 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2417 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2418 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2419 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2420 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2422 674	-0.7955416	0.7955416 0.489406783	-0.1247674	0.1247
# #	2423 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2424 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2426 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	2427 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247

# # 2428 674	1.2565863	-1.2565863	-0.089445574	-0.1247674	0.1247
# # 2430 674	-0.7955416	0.7955416	2.460251892	-0.1247674	0.1247
# # 2433 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2434 674	1.2565863	-1.2565863	-0.437541873	-0.1247674	0.1247
# # 2436 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
# # 2437 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2438 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# # 2439 674	1.2565863	-1.2565863	0.141310484	-0.1247674	0.1247
# # 2441 674	1.2565863	-1.2565863	0.267676897	-0.1247674	0.1247
# # 2443 674	1.2565863	-1.2565863	-0.187556143	-0.1247674	0.1247
# # 2444 674	-0.7955416	0.7955416	0.501180051	-0.1247674	0.1247
# # 2445 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2448 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2449 674	-0.7955416	0.7955416	1.527809045	-0.1247674	0.1247
# # 2450 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2451 674	1.2565863	-1.2565863	-0.231509678	-0.1247674	0.1247
# # 2452 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# # 2453 674	1.2565863	-1.2565863	-0.371611571	-0.1247674	0.1247
# # 2454 674	1.2565863	-1.2565863	-0.413210452	-0.1247674	0.1247
# # 2456 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2458 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247

## 2460 674	1.2565863	-1.2565863	0.226470458	-0.1247674	0.1247
## 2461 674	1.2565863	-1.2565863	-0.251131792	-0.1247674	0.1247
## 2462 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2463 674	1.2565863	-1.2565863	-0.116916534	-0.1247674	0.1247
## 2469 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 2470 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2471 674	1.2565863	-1.2565863	0.180554711	-0.1247674	0.1247
## 2473 674	1.2565863	-1.2565863	-0.280564963	-0.1247674	0.1247
## 2474 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 2477 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2479 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2481 674	1.2565863	-1.2565863	0.371674100	-0.1247674	0.1247
## 2482 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2483 674	-0.7955416	0.7955416	0.129144773	-0.1247674	0.1247
## 2485 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2488 674	1.2565863	-1.2565863	0.042022588	-0.1247674	0.1247
## 2490 674	1.2565863	-1.2565863	-0.349242361	-0.1247674	0.1247
## 2491 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2492 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2495 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
## 2496 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247

## 2497 674	1.2565863	-1.2565863	0.111877313	-0.1247674	0.1247
## 2498 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2499 674	1.2565863	-1.2565863	0.053010972	-0.1247674	0.1247
## 2500 674	1.2565863	-1.2565863	-0.241320735	-0.1247674	0.1247
## 2501 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2503 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2506 674	1.2565863	-1.2565863	-0.309998133	-0.1247674	0.1247
## 2508 397	-0.7955416	0.7955416	-0.570187362	8.0122397	-8.0122
## 2509 674	1.2565863	-1.2565863	-0.083558940	-0.1247674	0.1247
## 2510 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247
## 2511 674	1.2565863	-1.2565863	0.053010972	-0.1247674	0.1247
## 2513 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2514 674	1.2565863	-1.2565863	2.731429505	-0.1247674	0.1247
## 2515 674	1.2565863	-1.2565863	-0.364155167	-0.1247674	0.1247
## 2516 674	1.2565863	-1.2565863	0.038098165	-0.1247674	0.1247
## 2517 674	1.2565863	-1.2565863	3.246313771	-0.1247674	0.1247
## 2518 674	1.2565863	-1.2565863	0.410918327	-0.1247674	0.1247
## 2520 674	-0.7955416	0.7955416	1.994030468	-0.1247674	0.1247
## 2521 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2522 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2523 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 2524 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
# # 2525 674	1.2565863	-1.2565863 -0.158122973	-0.1247674	0.1247
# # 2526 674	1.2565863	-1.2565863 1.917111782	-0.1247674	0.1247
# # 2528 674	1.2565863	-1.2565863 -0.116916534	-0.1247674	0.1247
# # 2529 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2531 674	1.2565863	-1.2565863 -0.231509678	-0.1247674	0.1247
# # 2532 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2533 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2535 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
# # 2537 674	1.2565863	-1.2565863 2.382940764	-0.1247674	0.1247
# # 2538 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# # 2539 674	1.2565863	-1.2565863 1.215424993	-0.1247674	0.1247
# # 2540 674	1.2565863	-1.2565863 -0.187556143	-0.1247674	0.1247
# # 2542 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2545 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2546 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2547 674	1.2565863	-1.2565863 0.124827908	-0.1247674	0.1247
# # 2549 674	1.2565863	-1.2565863 2.696894585	-0.1247674	0.1247
# # 2552 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2553 674	1.2565863	-1.2565863 -0.050201347	-0.1247674	0.1247
# # 2554 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2555 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# #	2556 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2558 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2559 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	2560 674	1.2565863	-1.2565863 -0.221698621	-0.1247674	0.1247
# #	2562 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# #	2564 674	1.2565863	-1.2565863 0.572996987	-0.1247674	0.1247
# #	2567 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2569 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# #	2570 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2571 674	1.2565863	-1.2565863 0.047909222	-0.1247674	0.1247
# #	2572 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# #	2573 674	1.2565863	-1.2565863 -0.423021509	-0.1247674	0.1247
# #	2574 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2576 674	1.2565863	-1.2565863 1.401835074	-0.1247674	0.1247
# #	2577 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# #	2578 674	-0.7955416	0.7955416 5.291722913	-0.1247674	0.1247
# #	2579 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2580 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
# #	2581 674	1.2565863	-1.2565863 0.034173743	-0.1247674	0.1247
# #	2582 674	1.2565863	-1.2565863 -0.167934030	-0.1247674	0.1247

# #	2584 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2585 674	-0.7955416	0.7955416 0.828476909	-0.1247674	0.1247
# #	2588 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# #	2589 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2591 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2592 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2593 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2594 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# #	2596 674	-0.7955416	0.7955416 1.294698333	-0.1247674	0.1247
# #	2597 674	1.2565863	-1.2565863 2.696894585	-0.1247674	0.1247
# #	2598 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# #	2601 674	1.2565863	-1.2565863 -0.466582601	-0.1247674	0.1247
# #	2602 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2603 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2604 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# #	2605 674	1.2565863	-1.2565863 -0.109067688	-0.1247674	0.1247
# #	2606 674	1.2565863	-1.2565863 0.136208734	-0.1247674	0.1247
# #	2607 674	1.2565863	-1.2565863 1.244858164	-0.1247674	0.1247
# #	2608 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2610 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# #	2611 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# # 2612 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# # 2613 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2614 674	1.2565863	-1.2565863	0.136208734	-0.1247674	0.1247
# # 2615 674	1.2565863	-1.2565863	-0.116916534	-0.1247674	0.1247
# # 2616 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2617 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2619 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2620 674	1.2565863	-1.2565863	1.549000928	-0.1247674	0.1247
# # 2621 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
# # 2622 674	1.2565863	-1.2565863	-0.104750823	-0.1247674	0.1247
# # 2624 674	1.2565863	-1.2565863	1.723637740	-0.1247674	0.1247
# # 2628 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2629 674	1.2565863	-1.2565863	1.376326326	-0.1247674	0.1247
# # 2630 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2631 674	1.2565863	-1.2565863	-0.209140468	-0.1247674	0.1247
# # 2634 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2635 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2636 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# # 2637 674	1.2565863	-1.2565863	2.696894585	-0.1247674	0.1247
# # 2638 674	1.2565863	-1.2565863	-0.373966224	-0.1247674	0.1247
# # 2639 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# #	2643 674	-0.7955416	0.7955416	2.227141180	-0.1247674	0.1247
# #	2644 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# #	2645 674	1.2565863	-1.2565863	-0.349242361	-0.1247674	0.1247
# #	2646 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2647 674	-0.7955416	0.7955416	0.501180051	-0.1247674	0.1247
# #	2648 674	1.2565863	-1.2565863	3.249845751	-0.1247674	0.1247
# #	2649 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
# #	2650 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2651 674	-0.7955416	0.7955416	2.227141180	-0.1247674	0.1247
# #	2652 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2653 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
# #	2654 674	1.2565863	-1.2565863	-0.305288826	-0.1247674	0.1247
# #	2655 674	-0.7955416	0.7955416	0.764116376	-0.1247674	0.1247
# #	2656 674	1.2565863	-1.2565863	-0.416349990	-0.1247674	0.1247
# #	2657 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2658 674	-0.7955416	0.7955416	3.392694740	-0.1247674	0.1247
# #	2659 674	1.2565863	-1.2565863	-0.270361464	-0.1247674	0.1247
# #	2660 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2661 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
# #	2662 674	-0.7955416	0.7955416	-0.103965939	-0.1247674	0.1247
# #	2663 674	1.2565863	-1.2565863	-0.213064891	-0.1247674	0.1247

# # 2665 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2667 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2670 674	1.2565863	-1.2565863 0.229609996	-0.1247674	0.1247
# # 2671 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2672 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2673 674	1.2565863	-1.2565863 -0.452062237	-0.1247674	0.1247
# # 2675 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# # 2679 674	1.2565863	-1.2565863 -0.364155167	-0.1247674	0.1247
# # 2681 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# # 2683 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2685 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2687 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# # 2688 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2690 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2692 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2695 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2696 674	1.2565863	-1.2565863 0.361863043	-0.1247674	0.1247
# # 2698 674	1.2565863	-1.2565863 1.325308830	-0.1247674	0.1247
# # 2700 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2703 674	1.2565863	-1.2565863 -0.275855655	-0.1247674	0.1247
# # 2708 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# # 2709 674	1.2565863	-1.2565863 -0.555274556	-0.1247674	0.1247
# # 2710 674	1.2565863	-1.2565863 1.272721565	-0.1247674	0.1247
# # 2713 674	-0.7955416	0.7955416 -0.305288826	-0.1247674	0.1247
# # 2714 674	1.2565863	-1.2565863 -0.364155167	-0.1247674	0.1247
# # 2715 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2716 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2717 674	-0.7955416	0.7955416 0.628723791	-0.1247674	0.1247
# # 2719 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2721 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2722 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2724 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# # 2725 674	1.2565863	-1.2565863 0.047909222	-0.1247674	0.1247
# # 2726 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2727 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2728 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2729 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2730 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2731 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2732 674	1.2565863	-1.2565863 2.184757415	-0.1247674	0.1247
# # 2733 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2734 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2735 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2736 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# #	2737 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2741 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2742 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# #	2743 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2744 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2746 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2747 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2749 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2750 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2751 674	1.2565863	-1.2565863 -0.423021509	-0.1247674	0.1247
# #	2752 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2754 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2756 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2757 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	2758 674	-0.7955416	0.7955416 0.361078158	-0.1247674	0.1247
# #	2760 674	1.2565863	-1.2565863 -0.047846693	-0.1247674	0.1247
# #	2761 674	1.2565863	-1.2565863 -0.162832280	-0.1247674	0.1247
# #	2763 674	1.2565863	-1.2565863 -0.277032982	-0.1247674	0.1247
# #	2764 674	1.2565863	-1.2565863 0.769218125	-0.1247674	0.1247

# #	2765 674	1.2565863	-1.2565863 -0.050201347	-0.1247674	0.1247
# #	2767 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2768 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# #	2769 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2770 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2771 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2773 674	1.2565863	-1.2565863 -0.353166784	-0.1247674	0.1247
# #	2774 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2776 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2777 674	-0.7955416	0.7955416 -0.152628781	-0.1247674	0.1247
# #	2778 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2779 674	-0.7955416	0.7955416 0.828476909	-0.1247674	0.1247
# #	2781 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2782 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2784 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# #	2787 674	-0.7955416	0.7955416 2.693362604	-0.1247674	0.1247
# #	2788 674	1.2565863	-1.2565863 -0.280564963	-0.1247674	0.1247
# #	2790 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2791 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# #	2792 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2793 674	1.2565863	-1.2565863 0.239813495	-0.1247674	0.1247

## 2794 674	1.2565863	-1.2565863	-0.322948729	-0.1247674	0.1247
## 2795 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2798 674	-0.7955416	0.7955416	0.646383693	-0.1247674	0.1247
## 2799 674	-0.7955416	0.7955416	0.362255485	-0.1247674	0.1247
## 2800 674	1.2565863	-1.2565863	0.112269755	-0.1247674	0.1247
## 2802 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 2807 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2811 674	1.2565863	-1.2565863	-0.040782732	-0.1247674	0.1247
## 2812 674	1.2565863	-1.2565863	-0.349242361	-0.1247674	0.1247
## 2813 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2814 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 2815 674	-0.7955416	0.7955416	1.061587621	-0.1247674	0.1247
## 2816 674	1.2565863	-1.2565863	-0.268006810	-0.1247674	0.1247
## 2817 674	-0.7955416	0.7955416	-0.152628781	-0.1247674	0.1247
## 2818 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2820 674	1.2565863	-1.2565863	-0.344533054	-0.1247674	0.1247
## 2821 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2822 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2823 674	1.2565863	-1.2565863	1.910440264	-0.1247674	0.1247
## 2824 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
## 2826 674	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247

# # 2827 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2828 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# # 2829 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2831 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2832 674	-0.7955416	0.7955416 -0.152628781	-0.1247674	0.1247
# # 2833 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# # 2834 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2835 674	1.2565863	-1.2565863 0.229609996	-0.1247674	0.1247
# # 2837 674	1.2565863	-1.2565863 0.332429872	-0.1247674	0.1247
# # 2838 674	1.2565863	-1.2565863 -0.209140468	-0.1247674	0.1247
# # 2839 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2840 674	1.2565863	-1.2565863 0.293185645	-0.1247674	0.1247
# # 2843 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2845 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2846 674	1.2565863	-1.2565863 -0.566655382	-0.1247674	0.1247
# # 2847 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2848 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2850 674	-0.7955416	0.7955416 4.648902465	-0.1247674	0.1247
# # 2852 674	1.2565863	-1.2565863 -0.322948729	-0.1247674	0.1247
# # 2853 674	-0.7955416	0.7955416 1.049421910	-0.1247674	0.1247
# # 2855 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247

# #	2856 674	1.2565863	-1.2565863 -0.373966224	-0.1247674	0.1247
# #	2857 674	1.2565863	-1.2565863 0.499217840	-0.1247674	0.1247
# #	2860 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2861 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2862 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2864 674	1.2565863	-1.2565863 1.779756986	-0.1247674	0.1247
# #	2865 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2866 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2867 674	1.2565863	-1.2565863 -0.285666712	-0.1247674	0.1247
# #	2868 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2869 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2870 674	1.2565863	-1.2565863 -0.309998133	-0.1247674	0.1247
# #	2871 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2872 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2873 674	1.2565863	-1.2565863 -0.388486589	-0.1247674	0.1247
# #	2875 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2877 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2878 674	-0.7955416	0.7955416 1.527809045	-0.1247674	0.1247
# #	2879 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	2880 674	1.2565863	-1.2565863 -0.089445574	-0.1247674	0.1247
# #	2881 397	-0.7955416	0.7955416 -0.194620104	8.0122397	-8.0122

# #	2883 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# #	2884 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# #	2885 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2887 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2888 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2889 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# #	2890 674	-0.7955416	0.7955416 1.760919757	-0.1247674	0.1247
# #	2891 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2892 674	-0.7955416	0.7955416 1.061587621	-0.1247674	0.1247
# #	2893 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# #	2894 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2895 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2896 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2898 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2901 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
# #	2903 674	1.2565863	-1.2565863 -0.123588052	-0.1247674	0.1247
# #	2904 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# #	2905 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2906 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2907 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# #	2908 674	1.2565863	-1.2565863 0.102851141	-0.1247674	0.1247

# # 2909 674	-0.7955416	0.7955416 -0.337076650	-0.1247674	0.1247
# # 2910 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# # 2911 674	1.2565863	-1.2565863 -0.172643337	-0.1247674	0.1247
# # 2912 674	1.2565863	-1.2565863 -0.388486589	-0.1247674	0.1247
# # 2913 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2914 674	1.2565863	-1.2565863 -0.094154882	-0.1247674	0.1247
# # 2916 674	1.2565863	-1.2565863 -0.459911083	-0.1247674	0.1247
# # 2918 397	-0.7955416	0.7955416 -0.158122973	8.0122397	-8.0122
# # 2920 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# # 2921 674	1.2565863	-1.2565863 -0.083558940	-0.1247674	0.1247
# # 2922 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2923 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2924 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2925 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# # 2926 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2927 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2928 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# # 2929 674	-0.7955416	0.7955416 0.595366197	-0.1247674	0.1247
# # 2930 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# # 2931 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2933 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247

# # 2934 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2935 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# # 2936 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2938 674	1.2565863	-1.2565863 -0.393588338	-0.1247674	0.1247
# # 2939 674	1.2565863	-1.2565863 -0.030579233	-0.1247674	0.1247
# # 2940 674	1.2565863	-1.2565863 -0.241320735	-0.1247674	0.1247
# # 2941 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2943 674	-0.7955416	0.7955416 -0.103965939	-0.1247674	0.1247
# # 2945 674	-0.7955416	0.7955416 7.679341720	-0.1247674	0.1247
# # 2946 674	1.2565863	-1.2565863 -0.109067688	-0.1247674	0.1247
# # 2947 674	1.2565863	-1.2565863 1.549000928	-0.1247674	0.1247
# # 2948 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2950 674	1.2565863	-1.2565863 -0.099256631	-0.1247674	0.1247
# # 2954 674	1.2565863	-1.2565863 -0.116916534	-0.1247674	0.1247
# # 2955 674	1.2565863	-1.2565863 -0.305288826	-0.1247674	0.1247
# # 2956 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2957 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# # 2959 674	1.2565863	-1.2565863 -0.364155167	-0.1247674	0.1247
# # 2961 674	1.2565863	-1.2565863 -0.334721997	-0.1247674	0.1247
# # 2962 674	1.2565863	-1.2565863 -0.224445717	-0.1247674	0.1247
# # 2964 674	1.2565863	-1.2565863 -0.413210452	-0.1247674	0.1247

# #	2965 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2966 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2967 674	-0.7955416	0.7955416 0.129144773	-0.1247674	0.1247
# #	2968 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2969 674	1.2565863	-1.2565863 0.226470458	-0.1247674	0.1247
# #	2970 674	1.2565863	-1.2565863 -0.268006810	-0.1247674	0.1247
# #	2974 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2976 674	1.2565863	-1.2565863 -0.437541873	-0.1247674	0.1247
# #	2977 674	1.2565863	-1.2565863 -0.344533054	-0.1247674	0.1247
# #	2979 674	1.2565863	-1.2565863 2.696894585	-0.1247674	0.1247
# #	2980 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# #	2981 674	-0.7955416	0.7955416 0.362255485	-0.1247674	0.1247
# #	2982 674	1.2565863	-1.2565863 1.910440264	-0.1247674	0.1247
# #	2985 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2986 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2987 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2988 674	1.2565863	-1.2565863 0.018476052	-0.1247674	0.1247
# #	2989 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2992 674	1.2565863	-1.2565863 1.325308830	-0.1247674	0.1247
# #	2994 674	-0.7955416	0.7955416 -0.570187362	-0.1247674	0.1247
# #	2995 674	1.2565863	-1.2565863 2.249510390	-0.1247674	0.1247

## 2996	-0.7955416	0.7955416	5.965153858	-0.1247674	0.1247
674					
## 2997	1.2565863	-1.2565863	-0.040390290	-0.1247674	0.1247
674					
## 2998	-0.7955416	0.7955416	-0.570187362	-0.1247674	0.1247
674					
##	Duration	Sales	Product.NameBronze_Plan		
## 3	-4.998111e-01	-0.711820997		-0.525836	
## 4	-4.923514e-01	-0.484207536		-0.525836	
## 6	-4.625125e-01	-0.215595376		1.901100	
## 7	-2.983987e-01	-0.012015635		-0.525836	
## 8	-4.028348e-01	0.279216496		-0.525836	
## 9	-3.804556e-01	-0.653857321		-0.525836	
## 10	-2.088821e-01	-0.243870341		-0.525836	
## 11	2.222986e+00	1.803943938		-0.525836	
## 13	-3.506167e-01	0.703340958		-0.525836	
## 15	-3.655362e-01	-0.291937780		-0.525836	
## 16	2.208067e+00	2.201914058		-0.525836	
## 18	-2.238015e-01	0.547828656		-0.525836	
## 21	7.449772e-03	0.024741819		-0.525836	
## 22	-4.625125e-01	0.123704193		-0.525836	
## 23	-4.625125e-01	-0.498345018		-0.525836	
## 24	-3.356973e-01	-0.130770484		-0.525836	
## 25	-3.655362e-01	-0.286282787		1.901100	
## 26	-3.058584e-01	-0.427657607		-0.525836	
## 27	-2.088821e-01	-0.470070054		-0.525836	
## 28	-2.909390e-01	-0.569032428		-0.525836	
## 29	-2.536404e-01	-0.597307392		1.901100	
## 30	-9.946292e-06	-0.144907966		1.901100	
## 31	-4.401333e-01	-0.540757464		1.901100	
## 32	-3.207778e-01	-0.003533145		1.901100	
## 35	-3.729959e-01	-0.328695233		-0.525836	
## 36	1.491844e-01	-0.300420269		-0.525836	
## 38	5.220808e-02	-0.060083074		-0.525836	
## 39	-4.923514e-01	-0.597307392		1.901100	

## 40	-4.177542e-01	-0.455932572	-0.525836
## 41	-4.848917e-01	-0.498345018	-0.525836
## 44	-4.998111e-01	-0.569032428	-0.525836
## 45	-4.998111e-01	-0.512482500	-0.525836
## 47	2.208067e+00	1.424352544	-0.525836
## 49	1.491844e-01	-0.385245161	1.901100
## 50	-3.431570e-01	-0.540757464	1.901100
## 52	7.449772e-03	-0.378176420	1.901100
## 53	2.193147e+00	2.722880273	-0.525836
## 55	-3.729959e-01	-0.526619982	-0.525836
## 56	-3.729959e-01	-0.434726348	1.901100
## 57	-2.909390e-01	0.127945438	-0.525836
## 58	-3.953750e-01	-0.003533145	-0.525836
## 59	-4.102945e-01	-0.455932572	-0.525836
## 60	-3.506167e-01	-0.419881992	1.901100
## 63	-4.774319e-01	-0.597307392	1.901100
## 65	-3.580764e-01	0.731615923	-0.525836
## 66	-2.611001e-01	0.491278727	-0.525836
## 67	-2.088821e-01	0.477141245	1.901100
## 69	-4.699722e-01	-0.427657607	-0.525836
## 71	-2.387209e-01	-0.569032428	-0.525836
## 76	-3.133181e-01	-0.498345018	-0.525836
## 77	-1.939626e-01	-0.696269767	-0.525836
## 78	-3.133181e-01	-0.300420269	-0.525836
## 79	-4.774319e-01	-0.470070054	-0.525836
## 80	-9.698629e-02	-0.470070054	-0.525836
## 81	-1.417446e-01	-0.526619982	-0.525836
## 82	-2.238015e-01	0.208529086	-0.525836
## 83	-3.282376e-01	-0.286282787	-0.525836
## 87	-4.923514e-01	-0.569032428	-0.525836
## 90	-4.625125e-01	-0.710407249	-0.525836
## 93	-4.550528e-01	-0.710407249	-0.525836
## 94	2.200607e+00	3.855999461	-0.525836
## 95	-4.326736e-01	-0.328695233	-0.525836

## 96	-4.625125e-01	-0.597307392	1.901100
## 97	-4.774319e-01	-0.569032428	-0.525836
## 98	2.983788e-01	0.123704193	-0.525836
## 99	-8.952657e-02	-0.455932572	-0.525836
## 100	-3.730854e-02	-0.243870341	-0.525836
## 102	8.653174e-01	-0.526619982	-0.525836
## 103	-2.312612e-01	0.653859771	-0.525836
## 104	2.215526e+00	2.722880273	-0.525836
## 105	-1.641238e-01	-0.812762619	-0.525836
## 106	-1.790432e-01	-0.291937780	-0.525836
## 107	-4.699722e-01	0.731615923	-0.525836
## 108	-4.102945e-01	-0.569032428	-0.525836
## 109	-4.550528e-01	-0.441795090	-0.525836
## 110	1.462095e+00	-0.710407249	-0.525836
## 111	-4.923514e-01	-0.639719839	1.901100
## 112	1.490949e-02	-0.498345018	-0.525836
## 113	-6.714741e-02	0.279216496	-0.525836
## 115	-2.014223e-01	-0.569032428	-0.525836
## 118	-3.879153e-01	-0.554894946	1.901100
## 119	-3.058584e-01	0.407867583	-0.525836
## 120	5.669287e-01	-0.356970197	1.901100
## 121	-4.998111e-01	-0.470070054	-0.525836
## 122	-4.475931e-01	-0.144907966	1.901100
## 124	-4.550528e-01	-0.710407249	-0.525836
## 125	-2.760195e-01	-0.431898852	-0.525836
## 126	-4.998111e-01	-0.682132285	-0.525836
## 127	-1.790432e-01	0.967711873	-0.525836
## 128	-3.804556e-01	-0.571859925	-0.525836
## 130	-5.072708e-01	-0.571859925	-0.525836
## 131	-4.848917e-01	-0.569032428	-0.525836
## 133	-2.611001e-01	0.279216496	-0.525836
## 134	2.208067e+00	2.397011311	-0.525836
## 135	-4.177542e-01	-0.356970197	1.901100
## 136	-1.044460e-01	-0.569032428	-0.525836

## 137	-3.431570e-01	-0.291937780	-0.525836
## 138	-1.790432e-01	0.307491460	-0.525836
## 141	-4.774319e-01	-0.611444874	-0.525836
## 143	-5.072708e-01	-0.314557751	-0.525836
## 144	-1.044460e-01	-0.151976707	-0.525836
## 146	-4.848917e-01	-0.639719839	-0.525836
## 147	-2.611001e-01	-0.431898852	-0.525836
## 148	-2.014223e-01	-0.159045448	-0.525836
## 149	-2.685598e-01	0.208529086	1.901100
## 150	-4.848917e-01	-0.597307392	1.901100
## 151	-5.072708e-01	0.307491460	-0.525836
## 153	-4.998111e-01	-0.512482500	-0.525836
## 154	-4.625125e-01	-0.003533145	-0.525836
## 155	2.163219e-01	0.279216496	-0.525836
## 157	-4.252139e-01	-0.571859925	-0.525836
## 158	-2.760195e-01	0.689203476	1.901100
## 159	-3.580764e-01	-0.427657607	-0.525836
## 162	-3.506167e-01	0.127945438	-0.525836
## 163	-5.072708e-01	-0.851782070	-0.525836
## 164	4.848718e-01	-0.639719839	-0.525836
## 165	2.327422e+00	0.286285237	1.901100
## 166	-2.909390e-01	1.509177437	-0.525836
## 167	-1.715835e-01	-0.569032428	-0.525836
## 168	-3.580764e-01	-0.427657607	-0.525836
## 169	2.193147e+00	2.201914058	-0.525836
## 171	-4.028348e-01	-0.611444874	1.901100
## 172	-3.506167e-01	-0.441795090	-0.525836
## 174	-3.207778e-01	-0.385245161	-0.525836
## 175	-2.685598e-01	0.010604337	-0.525836
## 176	-4.998111e-01	-0.547826205	-0.525836
## 177	-4.252139e-01	-0.081289297	-0.525836
## 178	8.204696e-02	-0.569032428	-0.525836
## 179	-1.715835e-01	-0.427657607	-0.525836
## 180	-4.177542e-01	-0.569032428	-0.525836

## 182	-4.401333e-01	-0.356970197	-0.525836
## 183	-2.014223e-01	0.407867583	-0.525836
## 185	-4.699722e-01	0.731615923	-0.525836
## 186	-4.028348e-01	0.392316353	-0.525836
## 188	-8.206685e-02	-0.455932572	-0.525836
## 189	-3.655362e-01	1.107672946	-0.525836
## 190	-3.879153e-01	-0.597307392	1.901100
## 192	-4.475931e-01	-0.291937780	-0.525836
## 194	2.200607e+00	-0.484207536	-0.525836
## 195	2.305043e+00	3.090454806	-0.525836
## 196	-3.580764e-01	-0.696269767	-0.525836
## 197	2.200607e+00	2.812653284	-0.525836
## 199	-4.998111e-01	-0.569032428	-0.525836
## 200	-3.580764e-01	-0.060083074	-0.525836
## 201	-4.848917e-01	0.194391604	-0.525836
## 203	-4.550528e-01	-0.173182930	-0.525836
## 204	-4.550528e-01	-0.243870341	-0.525836
## 208	-9.946292e-06	-0.300420269	-0.525836
## 209	-1.044460e-01	-0.484207536	1.901100
## 210	6.116870e-01	-0.144907966	-0.525836
## 211	-6.714741e-02	-0.229732858	1.901100
## 212	3.132982e-01	-0.003533145	-0.525836
## 214	-2.088821e-01	-0.484207536	-0.525836
## 215	-2.088821e-01	-0.031808109	-0.525836
## 219	2.200607e+00	2.722880273	-0.525836
## 220	-7.460713e-02	-0.441795090	-0.525836
## 222	-4.102945e-01	-0.569032428	-0.525836
## 223	-4.177542e-01	-0.659936438	-0.525836
## 224	-3.058584e-01	-0.431898852	-0.525836
## 226	-3.879153e-01	-0.569032428	-0.525836
## 228	-4.401333e-01	-0.470070054	1.901100
## 230	-4.326736e-01	-0.166114189	-0.525836
## 231	-3.506167e-01	-0.434726348	-0.525836
## 232	-4.028348e-01	-0.431898852	-0.525836

## 233	-3.879153e-01	-0.427657607	1.901100
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## 237	-4.550528e-01	0.731615923	-0.525836
## 238	-4.401333e-01	-0.569032428	-0.525836
## 239	2.305043e+00	2.722880273	-0.525836
## 242	-2.312612e-01	1.353665134	-0.525836
## 244	-4.998111e-01	-0.710407249	-0.525836
## 246	3.728865e-02	0.038879301	-0.525836
## 247	2.222986e+00	3.720279633	-0.525836
## 248	-3.282376e-01	-0.349901456	-0.525836
## 249	-4.401333e-01	-0.484207536	1.901100
## 250	-4.028348e-01	0.279216496	-0.525836
## 252	-3.879153e-01	-0.291937780	-0.525836
## 253	-4.699722e-01	-0.484207536	1.901100
## 254	2.222986e+00	2.722880273	-0.525836
## 255	-4.625125e-01	-0.427657607	-0.525836
## 256	-4.774319e-01	-0.569032428	1.901100
## 258	-4.550528e-01	-0.484207536	1.901100
## 259	2.222986e+00	2.722880273	-0.525836
## 260	-4.550528e-01	-0.328695233	-0.525836
## 261	1.864830e-01	-0.569032428	-0.525836
## 266	2.334882e+00	-0.265076564	-0.525836
## 267	-5.968770e-02	0.166116640	-0.525836
## 268	2.267745e+00	3.272828325	-0.525836
## 269	2.215526e+00	2.201914058	-0.525836
## 270	2.215526e+00	-0.837220463	-0.525836
## 271	-5.072708e-01	-0.569032428	-0.525836
## 273	-2.088821e-01	-0.540757464	-0.525836
## 274	-3.431570e-01	-0.498345018	-0.525836
## 275	-4.475931e-01	-0.371107679	-0.525836
## 276	-1.790432e-01	-0.611444874	-0.525836
## 277	-7.460713e-02	2.060539237	-0.525836
## 278	-2.685598e-01	0.123704193	1.901100
## 279	-4.923514e-01	-0.710407249	-0.525836

## 280	-4.625125e-01	-0.710407249	-0.525836
## 281	-1.119057e-01	1.495039954	-0.525836
## 283	-3.879153e-01	-0.470070054	-0.525836
## 284	2.469157e+00	2.201914058	-0.525836
## 286	-4.774319e-01	-0.540757464	1.901100
## 287	-2.834793e-01	-0.399382643	-0.525836
## 288	2.200607e+00	1.803943938	-0.525836
## 289	-3.207778e-01	-0.455932572	-0.525836
## 292	1.491844e-01	-0.201457894	-0.525836
## 295	-4.252139e-01	2.018126791	-0.525836
## 296	-3.356973e-01	-0.229732858	1.901100
## 297	5.594690e-01	-0.356970197	-0.525836
## 298	2.208067e+00	1.424352544	-0.525836
## 299	-4.550528e-01	-0.144907966	1.901100
## 300	-3.655362e-01	-0.710407249	-0.525836
## 301	-5.968770e-02	-0.427657607	1.901100
## 302	-4.252139e-01	0.547828656	-0.525836
## 303	-4.923514e-01	-0.385245161	-0.525836
## 305	-2.387209e-01	0.399385094	-0.525836
## 306	-4.998111e-01	-0.356970197	-0.525836
## 308	-2.611001e-01	-0.696269767	-0.525836
## 310	-2.983987e-01	-0.081289297	-0.525836
## 311	-4.252139e-01	-0.166114189	-0.525836
## 312	-2.312612e-01	-0.484207536	-0.525836
## 314	-4.998111e-01	-0.569032428	-0.525836
## 315	-1.492043e-01	0.731615923	-0.525836
## 316	-7.460713e-02	-0.371107679	-0.525836
## 317	-4.848917e-01	-0.569032428	-0.525836
## 318	2.193147e+00	2.722880273	-0.525836
## 320	-4.848917e-01	-0.413520125	1.901100
## 321	-2.760195e-01	0.123704193	1.901100
## 322	-4.252139e-01	-0.569032428	-0.525836
## 323	7.458724e-02	-0.399382643	-0.525836
## 324	-3.879153e-01	-0.851782070	-0.525836

## 325	-4.028348e-01	-0.660926062	1.901100
## 328	-3.133181e-01	1.763652114	-0.525836
## 329	-3.356973e-01	1.099190456	1.901100
## 330	-4.848917e-01	-0.569032428	-0.525836
## 332	-4.923514e-01	-0.505413759	-0.525836
## 334	-3.879153e-01	-0.431898852	-0.525836
## 335	-2.834793e-01	-0.554894946	-0.525836
## 336	-3.580764e-01	-0.291937780	-0.525836
## 338	-4.550528e-01	-0.569032428	1.901100
## 340	-4.550528e-01	-0.215595376	1.901100
## 341	-4.177542e-01	1.834339524	-0.525836
## 342	-5.072708e-01	-0.569032428	-0.525836
## 344	-5.147305e-01	-0.187320412	-0.525836
## 345	-1.342849e-01	-0.696269767	-0.525836
## 346	3.282177e-01	-0.413520125	-0.525836
## 349	-4.625125e-01	-0.526619982	-0.525836
## 351	-2.312612e-01	2.046401755	1.901100
## 352	-2.909390e-01	0.267906511	-0.525836
## 353	-1.566640e-01	-0.682132285	-0.525836
## 354	-3.729959e-01	0.095429229	-0.525836
## 358	-3.655362e-01	-0.272145305	1.901100
## 359	-4.028348e-01	0.166116640	-0.525836
## 361	-2.834793e-01	-0.549946827	-0.525836
## 362	-1.492043e-01	-0.569032428	-0.525836
## 364	-2.238910e-02	-0.159045448	-0.525836
## 367	-2.088821e-01	-0.229732858	-0.525836
## 368	-2.461807e-01	-0.137839225	1.901100
## 370	-4.998111e-01	-0.371107679	-0.525836
## 372	-2.760195e-01	-0.554894946	-0.525836
## 373	2.909191e-01	-0.356970197	-0.525836
## 375	-4.998111e-01	-0.569032428	-0.525836
## 377	-1.268252e-01	-0.512482500	-0.525836
## 378	-4.774319e-01	-0.291937780	-0.525836
## 379	-4.401333e-01	-0.583169910	-0.525836

## 380	-2.909390e-01	-0.554894946	-0.525836
## 381	-2.760195e-01	-0.031808109	1.901100
## 382	2.610802e-01	3.347756980	-0.525836
## 383	-1.193654e-01	-0.378176420	1.901100
## 386	-4.699722e-01	-0.498345018	-0.525836
## 388	-3.431570e-01	-0.427657607	1.901100
## 389	2.208067e+00	2.201914058	-0.525836
## 391	-4.475931e-01	-0.291937780	-0.525836
## 392	-3.729959e-01	-0.151976707	-0.525836
## 393	-4.326736e-01	-0.484207536	1.901100
## 395	-3.058584e-01	-0.477138795	1.901100
## 396	-4.475931e-01	-0.540757464	1.901100
## 397	-3.879153e-01	-0.505413759	-0.525836
## 398	1.409877e+00	0.279216496	-0.525836
## 402	5.220808e-02	-0.427657607	-0.525836
## 403	-8.206685e-02	-0.470070054	-0.525836
## 404	-9.946292e-06	-0.710407249	-0.525836
## 405	-2.536404e-01	0.267906511	-0.525836
## 406	-2.611001e-01	0.127945438	-0.525836
## 407	-4.699722e-01	-0.696269767	-0.525836
## 408	-4.401333e-01	-0.583169910	-0.525836
## 410	2.387011e-01	0.321628942	1.901100
## 411	-5.072708e-01	-0.569032428	-0.525836
## 412	-5.072708e-01	-0.569032428	-0.525836
## 414	2.208067e+00	1.803943938	-0.525836
## 415	-1.417446e-01	0.250941532	1.901100
## 416	-4.625125e-01	-0.371107679	-0.525836
## 417	-3.356973e-01	-0.540757464	1.901100
## 418	-4.177542e-01	-0.427657607	-0.525836
## 419	-2.238015e-01	-0.625582356	-0.525836
## 420	-1.715835e-01	0.109566711	-0.525836
## 421	-5.072708e-01	-0.583169910	-0.525836
## 422	-2.312612e-01	-0.710407249	-0.525836
## 423	-4.848917e-01	-0.569032428	-0.525836

## 424	-5.072708e-01	-0.597307392	1.901100
## 425	-5.147305e-01	-0.549946827	-0.525836
## 426	-4.028348e-01	-0.484207536	-0.525836
## 428	-2.611001e-01	-0.512482500	-0.525836
## 429	-4.252139e-01	0.547828656	-0.525836
## 430	-5.968770e-02	0.030396812	-0.525836
## 431	-3.655362e-01	-0.314557751	-0.525836
## 434	-4.475931e-01	1.240565277	-0.525836
## 435	-3.282376e-01	-0.470070054	1.901100
## 436	-4.028348e-01	0.166116640	-0.525836
## 437	-3.879153e-01	-0.003533145	1.901100
## 438	-5.147305e-01	-0.512482500	-0.525836
## 439	-4.401333e-01	-0.378176420	1.901100
## 442	-4.923514e-01	1.622277293	-0.525836
## 444	-4.550528e-01	-0.431898852	-0.525836
## 447	-8.206685e-02	-0.710407249	-0.525836
## 448	-5.072708e-01	-0.130770484	-0.525836
## 450	-4.923514e-01	-0.554894946	-0.525836
## 451	-3.356973e-01	0.127945438	-0.525836
## 452	-4.102945e-01	-0.229732858	-0.525836
## 455	-1.939626e-01	-0.484207536	1.901100
## 456	-4.774319e-01	-0.243870341	-0.525836
## 457	-2.760195e-01	-0.625582356	1.901100
## 458	-4.923514e-01	-0.498345018	-0.525836
## 460	-4.625125e-01	-0.484207536	1.901100
## 462	-2.238015e-01	0.038879301	-0.525836
## 464	-2.685598e-01	-0.300420269	1.901100
## 465	-3.058584e-01	-0.060083074	-0.525836
## 466	-4.028348e-01	-0.667994803	-0.525836
## 467	-1.119057e-01	-0.484207536	1.901100
## 468	-4.326736e-01	-0.215595376	1.901100
## 469	-4.102945e-01	-0.300420269	-0.525836
## 470	-4.028348e-01	-0.328695233	-0.525836
## 473	-4.550528e-01	-0.441795090	-0.525836

## 474	-3.282376e-01	-0.512482500	-0.525836
## 475	-4.326736e-01	-0.710407249	-0.525836
## 476	-4.475931e-01	-0.335763974	-0.525836
## 477	-1.715835e-01	0.236804050	-0.525836
## 478	2.327422e+00	3.272828325	-0.525836
## 479	2.759996e-01	-0.498345018	-0.525836
## 480	2.237816e-01	0.827750801	-0.525836
## 481	-3.655362e-01	0.300422719	-0.525836
## 482	-5.072708e-01	-0.540757464	1.901100
## 485	-3.133181e-01	-0.399382643	-0.525836
## 487	2.349801e+00	-0.540757464	1.901100
## 488	-5.147305e-01	-0.710407249	-0.525836
## 489	-4.625125e-01	0.127945438	-0.525836
## 490	-2.685598e-01	-0.540757464	-0.525836
## 491	-4.848917e-01	-0.625582356	1.901100
## 493	-3.655362e-01	0.576103620	-0.525836
## 495	2.236921e-02	-0.187320412	1.901100
## 496	-4.177542e-01	-0.682132285	-0.525836
## 497	-4.177542e-01	-0.583169910	-0.525836
## 500	-1.790432e-01	-0.413520125	1.901100
## 502	-3.356973e-01	-0.314557751	-0.525836
## 503	-2.760195e-01	-0.569032428	-0.525836
## 504	-4.326736e-01	-0.710407249	-0.525836
## 506	-2.536404e-01	0.731615923	-0.525836
## 507	5.520092e-01	-0.272145305	-0.525836
## 508	-2.163418e-01	0.519553691	-0.525836
## 509	-2.611001e-01	-0.597307392	-0.525836
## 510	-4.774319e-01	-0.710407249	-0.525836
## 512	2.215526e+00	5.255610186	-0.525836
## 514	2.163219e-01	-0.851782070	-0.525836
## 515	-3.207778e-01	-0.569032428	-0.525836
## 516	-4.252139e-01	-0.470070054	1.901100
## 517	-1.268252e-01	-0.571859925	-0.525836
## 519	5.594690e-01	0.484209986	1.901100

## 520	-4.923514e-01	-0.625582356	1.901100
## 521	-3.730854e-02	0.166116640	1.901100
## 522	-5.147305e-01	-0.710407249	-0.525836
## 523	-4.028348e-01	-0.088358038	-0.525836
## 524	-4.475931e-01	-0.470070054	1.901100
## 526	-4.848917e-01	-0.215595376	-0.525836
## 527	-3.729959e-01	-0.385245161	-0.525836
## 529	-1.790432e-01	1.169877867	-0.525836
## 531	-2.387209e-01	-0.003533145	1.901100
## 532	-3.729959e-01	0.045948042	-0.525836
## 533	-4.923514e-01	-0.526619982	-0.525836
## 535	3.431371e-01	0.208529086	1.901100
## 536	-2.685598e-01	-0.215595376	-0.525836
## 537	-3.953750e-01	-0.455932572	-0.525836
## 538	-1.865029e-01	-0.851782070	-0.525836
## 541	2.200607e+00	2.201914058	-0.525836
## 542	-1.790432e-01	0.731615923	-0.525836
## 544	-4.550528e-01	-0.470070054	-0.525836
## 545	-4.177542e-01	-0.540757464	-0.525836
## 546	-1.193654e-01	-0.095426779	1.901100
## 547	3.207580e-01	0.703340958	-0.525836
## 548	-3.282376e-01	-0.300420269	1.901100
## 550	-1.193654e-01	-0.243870341	-0.525836
## 551	-4.774319e-01	-0.625582356	1.901100
## 552	-4.774319e-01	-0.291937780	-0.525836
## 553	-4.625125e-01	-0.431898852	-0.525836
## 554	-4.401333e-01	-0.710407249	-0.525836
## 555	3.058385e-01	-0.356970197	1.901100
## 556	-3.655362e-01	-0.711820997	-0.525836
## 557	2.297583e+00	-0.286282787	1.901100
## 558	-4.923514e-01	-0.431898852	-0.525836
## 560	-4.550528e-01	-0.696269767	-0.525836
## 561	-2.834793e-01	0.279216496	-0.525836
## 562	1.715636e-01	-0.569032428	-0.525836

## 563	-3.207778e-01	-0.144907966	1.901100
## 564	1.490949e-02	-0.441795090	-0.525836
## 565	1.490949e-02	-0.625582356	-0.525836
## 566	8.727771e-01	-0.286282787	-0.525836
## 570	-4.177542e-01	-0.569032428	-0.525836
## 571	2.416939e+00	3.855999461	-0.525836
## 573	-1.342849e-01	-0.286282787	-0.525836
## 574	5.743884e-01	-0.356970197	-0.525836
## 575	-4.998111e-01	-0.431898852	-0.525836
## 578	-2.461807e-01	-0.130770484	-0.525836
## 582	-1.193654e-01	-0.625582356	1.901100
## 583	-3.879153e-01	-0.378176420	1.901100
## 584	-4.401333e-01	-0.286282787	1.901100
## 585	-3.804556e-01	0.166116640	-0.525836
## 586	-3.058584e-01	-0.385245161	-0.525836
## 587	-4.848917e-01	-0.431898852	-0.525836
## 588	-4.848917e-01	-0.639719839	1.901100
## 589	-4.699722e-01	-0.300420269	-0.525836
## 590	2.983788e-01	0.267906511	-0.525836
## 591	-4.475931e-01	-0.611444874	1.901100
## 592	-4.848917e-01	-0.540757464	1.901100
## 594	-3.730854e-02	0.279216496	-0.525836
## 595	2.215526e+00	2.201914058	-0.525836
## 597	6.116870e-01	-0.060083074	1.901100
## 598	2.909191e-01	2.413976289	1.901100
## 599	-4.550528e-01	-0.215595376	1.901100
## 601	-2.238015e-01	-0.757202315	-0.525836
## 602	1.342650e-01	-0.611444874	-0.525836
## 606	-2.611001e-01	-0.441795090	-0.525836
## 608	-4.998111e-01	-0.639719839	1.901100
## 609	-4.102945e-01	-0.328695233	-0.525836
## 610	-4.252139e-01	-0.081289297	-0.525836
## 612	5.594690e-01	-0.300420269	1.901100
## 613	-4.923514e-01	-0.851782070	-0.525836

## 614	2.297583e+00	2.201914058	-0.525836
## 615	-4.102945e-01	-0.597307392	1.901100
## 616	-3.655362e-01	-0.569032428	-0.525836
## 618	-4.550528e-01	0.127945438	-0.525836
## 620	2.305043e+00	3.272828325	-0.525836
## 621	-4.475931e-01	-0.569032428	-0.525836
## 622	-4.102945e-01	-0.300420269	1.901100
## 623	-4.699722e-01	0.731615923	-0.525836
## 624	-5.072708e-01	-0.470070054	1.901100
## 625	-2.983987e-01	0.267906511	-0.525836
## 627	-4.699722e-01	-0.710407249	-0.525836
## 628	-2.760195e-01	-0.291937780	-0.525836
## 629	-2.983987e-01	0.194391604	-0.525836
## 631	-6.714741e-02	-0.803290506	-0.525836
## 632	7.832605e-01	1.807478308	-0.525836
## 633	-4.848917e-01	-0.710407249	-0.525836
## 634	3.132982e-01	0.267906511	-0.525836
## 637	1.268053e-01	0.095429229	-0.525836
## 639	-3.729959e-01	-0.569032428	-0.525836
## 641	-4.475931e-01	-0.342832715	-0.525836
## 642	-4.625125e-01	-0.533688723	-0.525836
## 644	2.409479e+00	-0.455932572	-0.525836
## 645	-4.475931e-01	-0.017670627	-0.525836
## 646	-2.014223e-01	0.279216496	-0.525836
## 647	5.520092e-01	-0.851782070	-0.525836
## 649	-4.475931e-01	-0.427657607	-0.525836
## 650	-4.326736e-01	-0.625582356	-0.525836
## 651	-3.804556e-01	0.024741819	1.901100
## 653	-3.356973e-01	-0.286282787	-0.525836
## 654	-1.715835e-01	-0.554894946	-0.525836
## 656	-4.028348e-01	-0.569032428	-0.525836
## 657	1.148787e+00	-0.639719839	-0.525836
## 658	-4.848917e-01	-0.470070054	-0.525836
## 659	-2.760195e-01	-0.286282787	-0.525836

## 660	-4.774319e-01	-0.540757464	1.901100
## 661	-4.699722e-01	-0.569032428	-0.525836
## 662	2.342342e+00	2.201914058	-0.525836
## 663	-2.984882e-02	0.369696381	-0.525836
## 664	1.297981e+00	-0.653857321	-0.525836
## 665	-4.252139e-01	-0.597307392	1.901100
## 666	-4.028348e-01	-0.413520125	1.901100
## 668	5.818481e-01	-0.455932572	-0.525836
## 669	1.036891e+00	-0.151976707	-0.525836
## 672	-4.848917e-01	-0.356970197	-0.525836
## 673	-4.699722e-01	-0.520964989	1.901100
## 678	2.387011e-01	-0.427657607	-0.525836
## 679	-4.774319e-01	-0.441795090	-0.525836
## 681	-4.326736e-01	-0.667994803	-0.525836
## 683	-4.625125e-01	-0.159045448	-0.525836
## 684	-4.177542e-01	-0.520964989	1.901100
## 685	-4.326736e-01	-0.639719839	1.901100
## 687	-4.326736e-01	-0.539343716	1.901100
## 688	-5.072708e-01	-0.554894946	-0.525836
## 689	-3.282376e-01	-0.597307392	-0.525836
## 690	-3.431570e-01	0.554190523	-0.525836
## 691	-1.342849e-01	-0.710407249	-0.525836
## 693	4.624926e-01	-0.540757464	-0.525836
## 695	1.864830e-01	-0.356970197	1.901100
## 696	-6.714741e-02	-0.455932572	-0.525836
## 697	-2.014223e-01	-0.371107679	-0.525836
## 698	-1.641238e-01	2.003989309	-0.525836
## 699	-3.207778e-01	0.123704193	-0.525836
## 700	-3.133181e-01	-0.455932572	-0.525836
## 701	-4.177542e-01	-0.151976707	-0.525836
## 702	-4.774319e-01	-0.660926062	1.901100
## 704	-4.550528e-01	-0.851782070	1.901100
## 705	-4.625125e-01	-0.484207536	1.901100
## 706	-1.566640e-01	-0.012015635	-0.525836

## 707	2.237816e-01	-0.258007823	-0.525836
## 711	-4.475931e-01	-0.512482500	-0.525836
## 712	-4.102945e-01	-0.569032428	-0.525836
## 713	-1.417446e-01	-0.427657607	1.901100
## 714	-4.102945e-01	0.279216496	-0.525836
## 715	-2.014223e-01	-0.540757464	-0.525836
## 716	1.230844e+00	0.687789728	-0.525836
## 718	-3.506167e-01	-0.300420269	-0.525836
## 719	-5.072708e-01	-0.711820997	-0.525836
## 720	6.712752e-02	-0.569032428	-0.525836
## 721	2.312413e-01	-0.540757464	1.901100
## 722	-2.312612e-01	0.342835166	-0.525836
## 723	-4.848917e-01	-0.710407249	-0.525836
## 724	-3.207778e-01	-0.590238651	-0.525836
## 725	-4.401333e-01	-0.470070054	1.901100
## 726	6.564453e-01	2.512938664	1.901100
## 727	3.729760e-01	-0.413520125	-0.525836
## 729	2.282664e+00	2.201914058	-0.525836
## 730	4.102746e-01	-0.328695233	-0.525836
## 732	-4.177542e-01	-0.286282787	-0.525836
## 733	-4.998111e-01	-0.571859925	-0.525836
## 738	-3.953750e-01	-0.660926062	1.901100
## 739	-1.417446e-01	0.731615923	-0.525836
## 740	-3.580764e-01	-0.300420269	1.901100
## 742	-4.699722e-01	-0.603669259	1.901100
## 743	-4.774319e-01	-0.710407249	-0.525836
## 744	-4.475931e-01	-0.300420269	-0.525836
## 747	-4.475931e-01	-0.429071356	1.901100
## 748	-4.998111e-01	-0.569032428	-0.525836
## 749	-1.715835e-01	0.222666568	-0.525836
## 750	5.220808e-02	-0.441795090	-0.525836
## 751	-4.774319e-01	-0.554894946	1.901100
## 752	2.334882e+00	2.201914058	-0.525836
## 753	2.983788e-01	-0.653857321	-0.525836

## 754	-1.566640e-01	-0.710407249	-0.525836
## 755	2.357261e+00	-0.074220556	-0.525836
## 757	6.862842e-01	-0.356970197	1.901100
## 758	-4.550528e-01	-0.597307392	1.901100
## 759	-5.072708e-01	-0.803149131	-0.525836
## 761	-4.774319e-01	-0.512482500	-0.525836
## 762	-4.625125e-01	-0.569032428	-0.525836
## 763	-4.998111e-01	-0.710407249	-0.525836
## 764	-8.206685e-02	-0.526619982	1.901100
## 765	-4.998111e-01	-0.484207536	1.901100
## 769	-8.206685e-02	0.279216496	-0.525836
## 770	2.282664e+00	2.088814202	-0.525836
## 772	-4.774319e-01	-0.291937780	-0.525836
## 773	-2.685598e-01	0.180254122	-0.525836
## 774	-3.655362e-01	1.989851827	1.901100
## 775	-2.685598e-01	-0.569032428	-0.525836
## 777	-4.475931e-01	-0.470070054	-0.525836
## 778	-3.804556e-01	-0.385245161	1.901100
## 779	-4.401333e-01	-0.385245161	-0.525836
## 780	-2.387209e-01	-0.151976707	-0.525836
## 781	-4.252139e-01	-0.569032428	-0.525836
## 782	-5.147305e-01	-0.710407249	-0.525836
## 783	-2.909390e-01	0.420591317	-0.525836
## 784	-4.699722e-01	-0.512482500	-0.525836
## 785	-3.282376e-01	-0.569032428	1.901100
## 788	-4.848917e-01	-0.258007823	-0.525836
## 789	-4.774319e-01	-0.710407249	-0.525836
## 790	2.200607e+00	3.272828325	-0.525836
## 791	-8.952657e-02	-0.625582356	-0.525836
## 792	-4.550528e-01	-0.639719839	-0.525836
## 793	-4.774319e-01	-0.441795090	-0.525836
## 794	-7.460713e-02	-0.074220556	-0.525836
## 795	-4.476826e-02	-0.095426779	1.901100
## 796	2.275204e+00	2.770240837	-0.525836

## 797	2.200607e+00	5.499481752	-0.525836
## 798	-1.715835e-01	-0.431898852	-0.525836
## 799	4.474837e-02	0.967711873	-0.525836
## 800	-3.953750e-01	-0.385245161	-0.525836
## 803	-4.774319e-01	-0.484207536	-0.525836
## 804	-3.879153e-01	-0.585007783	-0.525836
## 806	-3.655362e-01	-0.356970197	-0.525836
## 807	-4.475931e-01	-0.526619982	-0.525836
## 810	-5.222798e-02	-0.719879362	-0.525836
## 811	2.200607e+00	4.652646575	-0.525836
## 814	8.204696e-02	-0.455932572	1.901100
## 815	-4.401333e-01	-0.081289297	-0.525836
## 816	7.012036e-01	0.687789728	-0.525836
## 817	-1.492043e-01	-0.371107679	-0.525836
## 819	4.474837e-02	-0.385245161	-0.525836
## 820	-2.983987e-01	0.130772934	1.901100
## 822	-3.655362e-01	-0.272145305	-0.525836
## 823	2.193147e+00	3.272828325	-0.525836
## 825	-3.729959e-01	-0.003533145	-0.525836
## 826	2.759996e-01	-0.540757464	1.901100
## 827	2.267745e+00	2.201914058	-0.525836
## 830	-3.580764e-01	-0.328695233	-0.525836
## 831	2.222986e+00	3.423392509	-0.525836
## 832	1.490949e-02	-0.427657607	-0.525836
## 833	-8.206685e-02	0.024741819	-0.525836
## 834	7.458724e-02	0.519553691	-0.525836
## 835	-5.072708e-01	-0.569032428	-0.525836
## 837	-2.834793e-01	-0.031808109	-0.525836
## 842	-4.699722e-01	-0.441795090	-0.525836
## 843	5.966780e-02	-0.427657607	-0.525836
## 844	-3.580764e-01	-0.441795090	-0.525836
## 845	-4.848917e-01	-0.667994803	-0.525836
## 846	-4.550528e-01	-0.300420269	-0.525836
## 847	-3.431570e-01	-0.012015635	-0.525836

## 848	-3.282376e-01	-0.272145305	-0.525836
## 849	-1.417446e-01	-0.554894946	1.901100
## 851	2.200607e+00	1.424352544	-0.525836
## 852	-4.177542e-01	0.024741819	-0.525836
## 855	-4.028348e-01	0.279216496	-0.525836
## 858	-4.252139e-01	1.579864847	-0.525836
## 859	-3.133181e-01	-0.722706858	-0.525836
## 860	-5.072708e-01	-0.569032428	-0.525836
## 862	-3.580764e-01	-0.151976707	-0.525836
## 863	-1.268252e-01	0.406453835	-0.525836
## 864	-4.774319e-01	0.279216496	-0.525836
## 866	-4.252139e-01	-0.081289297	-0.525836
## 867	6.712752e-02	-0.116633002	-0.525836
## 868	-3.953750e-01	-0.696269767	-0.525836
## 869	-4.102945e-01	0.505416209	1.901100
## 872	-1.939626e-01	0.095429229	-0.525836
## 873	-4.848917e-01	-0.710407249	-0.525836
## 876	-4.102945e-01	0.024741819	-0.525836
## 877	1.342650e-01	-0.081289297	-0.525836
## 878	4.401135e-01	0.038879301	-0.525836
## 879	-4.774319e-01	-0.342832715	1.901100
## 880	-4.177542e-01	-0.258007823	-0.525836
## 881	-4.252139e-01	-0.130770484	-0.525836
## 886	-3.804556e-01	-0.431898852	-0.525836
## 887	-4.774319e-01	-0.597307392	1.901100
## 888	2.357261e+00	5.499481752	-0.525836
## 890	-4.923514e-01	-0.710407249	-0.525836
## 892	-3.729959e-01	-0.569032428	-0.525836
## 893	2.431858e+00	3.118022896	-0.525836
## 895	2.982893e-02	-0.484207536	1.901100
## 897	2.402019e+00	0.123704193	-0.525836
## 898	-7.469665e-03	0.127945438	-0.525836
## 899	3.804357e-01	0.267906511	-0.525836
## 902	-4.998111e-01	0.010604337	-0.525836

## 903	8.950668e-02	-0.427657607	1.901100
## 904	1.417247e-01	-0.378176420	1.901100
## 905	-4.625125e-01	-0.419881992	1.901100
## 906	-4.550528e-01	-0.639719839	1.901100
## 907	-9.946292e-06	-0.356970197	1.901100
## 909	-4.252139e-01	0.731615923	-0.525836
## 911	-1.790432e-01	-0.003533145	-0.525836
## 912	-2.163418e-01	2.201914058	-0.525836
## 913	-4.998111e-01	-0.710407249	-0.525836
## 914	-4.475931e-01	-0.540757464	-0.525836
## 915	-4.252139e-01	-0.300420269	-0.525836
## 917	-1.566640e-01	-0.300420269	-0.525836
## 919	-3.282376e-01	-0.851782070	-0.525836
## 921	-4.177542e-01	-0.512482500	-0.525836
## 922	9.696640e-02	0.279216496	-0.525836
## 923	2.200607e+00	2.201914058	-0.525836
## 924	-4.848917e-01	-0.710407249	-0.525836
## 925	2.200607e+00	0.519553691	-0.525836
## 927	-2.611001e-01	-0.696269767	-0.525836
## 928	-4.102945e-01	-0.441795090	-0.525836
## 929	-3.953750e-01	-0.569032428	1.901100
## 932	2.759996e-01	-0.470070054	1.901100
## 933	2.200607e+00	1.803943938	-0.525836
## 935	9.921326e-01	0.137841675	-0.525836
## 936	-3.729959e-01	-0.508806755	-0.525836
## 937	-4.699722e-01	-0.710407249	-0.525836
## 939	-2.685598e-01	-0.356970197	1.901100
## 940	-4.699722e-01	0.279216496	-0.525836
## 941	4.624926e-01	-0.569032428	-0.525836
## 942	-4.998111e-01	-0.441795090	-0.525836
## 946	5.966780e-02	0.576103620	1.901100
## 947	-3.729959e-01	0.166116640	-0.525836
## 949	-3.804556e-01	-0.533688723	-0.525836
## 950	-5.072708e-01	-0.710407249	-0.525836

#	952	-1.268252e-01	-0.427657607	1.901100
#	957	-8.952657e-02	-0.710407249	-0.525836
#	958	-5.072708e-01	-0.569032428	-0.525836
#	960	-1.268252e-01	-0.159045448	-0.525836
#	961	-4.625125e-01	-0.151976707	-0.525836
#	962	1.566441e-01	-0.053014333	-0.525836
#	963	-1.417446e-01	-0.291937780	-0.525836
#	964	-1.492043e-01	0.127945438	-0.525836
#	965	-7.460713e-02	-0.356970197	-0.525836
#	966	2.230446e+00	3.403600034	-0.525836
#	967	3.655163e-01	1.240565277	1.901100
#	968	-5.072708e-01	-0.314557751	-0.525836
#	969	-4.699722e-01	-0.371107679	-0.525836
#	971	-2.163418e-01	-0.526619982	1.901100
#	975	3.728865e-02	-0.514320373	-0.525836
#	977	-4.550528e-01	-0.851782070	-0.525836
#	978	-4.401333e-01	-0.470070054	1.901100
#	979	-1.790432e-01	-0.349901456	1.901100
#	981	-4.326736e-01	-0.851782070	-0.525836
#	982	3.058385e-01	-0.151976707	-0.525836
#	983	-4.102945e-01	0.095429229	1.901100
#	984	-3.133181e-01	-0.427657607	-0.525836
#	985	-6.714741e-02	0.279216496	-0.525836
#	988	-5.147305e-01	-0.667994803	-0.525836
#	989	1.566441e-01	-0.569032428	-0.525836
#	990	-4.550528e-01	-0.667994803	-0.525836
#	991	-3.282376e-01	0.180254122	-0.525836
#	992	-4.177542e-01	-0.431898852	-0.525836
#	993	-3.506167e-01	-0.625582356	1.901100
#	994	-4.625125e-01	0.447169783	-0.525836
#	995	5.072509e-01	-0.102495520	-0.525836
#	996	-4.699722e-01	-0.441795090	-0.525836
#	997	1.268053e-01	-0.215595376	1.901100
#	999	-2.834793e-01	-0.511775626	-0.525836

## 1000	-4.475931e-01	-0.434726348	-0.525836
## 1001	2.252825e+00	2.107192928	-0.525836
## 1002	-4.326736e-01	0.267906511	-0.525836
## 1004	-4.923514e-01	-0.696269767	-0.525836
## 1006	-4.848917e-01	0.180254122	-0.525836
## 1007	-4.848917e-01	-0.710407249	-0.525836
## 1008	-2.909390e-01	-0.441795090	-0.525836
## 1009	-1.119057e-01	-0.286282787	1.901100
## 1010	-2.014223e-01	-0.851782070	-0.525836
## 1011	1.633668e+00	-0.441795090	-0.525836
## 1012	1.089109e+00	-0.569032428	-0.525836
## 1013	-3.953750e-01	-0.053014333	-0.525836
## 1014	-4.177542e-01	0.967711873	-0.525836
## 1016	-3.730854e-02	0.731615923	-0.525836
## 1017	-2.834793e-01	-0.477138795	-0.525836
## 1018	-2.611001e-01	-0.399382643	-0.525836
## 1020	2.236921e-02	-0.611444874	-0.525836
## 1023	-4.252139e-01	-0.328695233	-0.525836
## 1024	-4.998111e-01	1.254702759	-0.525836
## 1025	-3.729959e-01	-0.441795090	-0.525836
## 1032	-4.774319e-01	-0.660926062	1.901100
## 1033	-4.475931e-01	-0.427657607	-0.525836
## 1034	-5.072708e-01	-0.823789855	-0.525836
## 1035	-3.804556e-01	-0.356970197	1.901100
## 1039	1.566531e+00	-0.849095948	-0.525836
## 1041	-2.611001e-01	-0.710407249	-0.525836
## 1044	-2.983987e-01	-0.625582356	1.901100
## 1045	-2.461807e-01	0.279216496	-0.525836
## 1046	-2.983987e-01	-0.569032428	-0.525836
## 1049	-2.983987e-01	-0.151976707	-0.525836
## 1050	2.312503e+00	2.722880273	-0.525836
## 1051	3.356774e-01	-0.378176420	1.901100
## 1055	-4.625125e-01	-0.455932572	1.901100
## 1056	-3.804556e-01	-0.455932572	-0.525836

## 1057	-3.879153e-01	-0.413520125	1.901100
## 1058	-4.699722e-01	0.010604337	-0.525836
## 1059	-4.028348e-01	-0.427657607	-0.525836
## 1061	-4.102945e-01	-0.286282787	-0.525836
## 1062	1.118858e-01	-0.533688723	-0.525836
## 1063	-4.699722e-01	-0.434726348	-0.525836
## 1064	2.222986e+00	2.722880273	-0.525836
## 1065	-4.476826e-02	2.074676719	-0.525836
## 1066	2.208067e+00	1.803943938	-0.525836
## 1067	2.982893e-02	0.618516066	-0.525836
## 1070	-3.580764e-01	-0.441795090	-0.525836
## 1074	-2.387209e-01	-0.484207536	-0.525836
## 1075	-2.238015e-01	1.353665134	-0.525836
## 1080	2.193147e+00	3.720279633	-0.525836
## 1081	-2.536404e-01	0.116635452	1.901100
## 1082	2.200607e+00	2.201914058	-0.525836
## 1086	-4.401333e-01	-0.012015635	-0.525836
## 1087	2.282664e+00	1.339527652	-0.525836
## 1088	2.200607e+00	3.855999461	-0.525836
## 1091	-3.804556e-01	-0.710407249	-0.525836
## 1092	-4.625125e-01	-0.639719839	-0.525836
## 1093	-4.699722e-01	-0.012015635	-0.525836
## 1095	-4.475931e-01	-0.611444874	-0.525836
## 1096	-1.566640e-01	-0.569032428	-0.525836
## 1098	-5.072708e-01	0.731615923	-0.525836
## 1099	-2.611001e-01	-0.470070054	-0.525836
## 1100	2.461608e-01	0.166116640	1.901100
## 1102	-4.625125e-01	-0.017670627	-0.525836
## 1104	4.474837e-02	-0.639719839	-0.525836
## 1105	-4.177542e-01	-0.597307392	1.901100
## 1107	-3.729959e-01	-0.569032428	-0.525836
## 1108	-4.625125e-01	-0.378176420	-0.525836
## 1110	-2.163418e-01	-0.095426779	1.901100
## 1111	-4.475931e-01	-0.335763974	-0.525836

## 1112	-4.923514e-01	-0.625582356	-0.525836
## 1113	-2.760195e-01	-0.291937780	-0.525836
## 1114	-3.431570e-01	-0.455932572	-0.525836
## 1115	2.163219e-01	-0.569032428	-0.525836
## 1117	-4.923514e-01	-0.431898852	-0.525836
## 1118	2.215526e+00	3.272828325	-0.525836
## 1119	-2.760195e-01	-0.159045448	-0.525836
## 1121	-4.848917e-01	-0.590238651	-0.525836
## 1122	-3.953750e-01	-0.258007823	-0.525836
## 1127	-4.550528e-01	-0.611444874	1.901100
## 1129	7.458724e-02	1.297115205	-0.525836
## 1130	-2.461807e-01	-0.851782070	-0.525836
## 1131	-1.939626e-01	-0.427657607	1.901100
## 1132	1.573991e+00	0.123704193	-0.525836
## 1134	-3.804556e-01	0.151979158	-0.525836
## 1135	-2.014223e-01	-0.540757464	-0.525836
## 1136	-4.401333e-01	-0.356970197	-0.525836
## 1137	-3.133181e-01	-0.519551241	1.901100
## 1138	9.995924e-01	-0.431898852	-0.525836
## 1141	-4.326736e-01	-0.286282787	-0.525836
## 1142	-2.984882e-02	0.364041389	1.901100
## 1143	1.223384e+00	-0.484207536	-0.525836
## 1144	-4.177542e-01	-0.413520125	-0.525836
## 1145	-6.714741e-02	1.387595091	-0.525836
## 1146	1.268053e-01	0.342835166	-0.525836
## 1147	-2.238015e-01	0.491278727	-0.525836
## 1148	-4.326736e-01	-0.625582356	1.901100
## 1150	2.982893e-02	-0.625582356	-0.525836
## 1152	-2.909390e-01	-0.512482500	-0.525836
## 1153	-2.611001e-01	-0.272145305	-0.525836
## 1156	-3.058584e-01	2.507283671	-0.525836
## 1157	-2.163418e-01	0.250941532	-0.525836
## 1158	-2.984882e-02	1.933301899	-0.525836
## 1159	-3.953750e-01	-0.455932572	1.901100

## 1160	-4.177542e-01	-0.569032428	-0.525836
## 1161	7.012036e-01	0.505416209	1.901100
## 1163	-4.475931e-01	-0.569032428	1.901100
## 1166	8.204696e-02	1.975714345	-0.525836
## 1167	-3.729959e-01	-0.060083074	-0.525836
## 1168	-4.550528e-01	-0.291937780	-0.525836
## 1169	-4.998111e-01	-0.653857321	-0.525836
## 1172	2.394560e+00	-0.053014333	1.901100
## 1175	-4.774319e-01	0.180254122	-0.525836
## 1176	-2.760195e-01	-0.851782070	-0.525836
## 1177	2.200607e+00	1.803943938	-0.525836
## 1178	-1.342849e-01	0.731615923	-0.525836
## 1179	-1.119057e-01	0.484209986	1.901100
## 1181	5.743884e-01	-0.413520125	-0.525836
## 1182	-4.102945e-01	-0.653857321	-0.525836
## 1184	-3.655362e-01	0.236804050	-0.525836
## 1185	2.982893e-02	0.731615923	-0.525836
## 1186	7.235828e-01	1.763652114	1.901100
## 1187	-4.625125e-01	-0.441795090	-0.525836
## 1188	-4.550528e-01	-0.519551241	1.901100
## 1189	3.207580e-01	-0.851782070	-0.525836
## 1190	-1.119057e-01	-0.328695233	1.901100
## 1191	5.743884e-01	0.038879301	-0.525836
## 1194	-1.715835e-01	0.731615923	-0.525836
## 1195	-6.714741e-02	-0.060083074	-0.525836
## 1197	2.200607e+00	2.722880273	-0.525836
## 1198	-2.088821e-01	-0.286282787	1.901100
## 1201	-4.177542e-01	-0.291937780	-0.525836
## 1203	7.832605e-01	6.768320768	-0.525836
## 1205	-2.685598e-01	0.081291747	-0.525836
## 1206	6.415259e-01	-0.441795090	-0.525836
## 1207	1.864830e-01	-0.653857321	-0.525836
## 1208	-3.356973e-01	-0.710407249	-0.525836
## 1211	-3.207778e-01	0.127945438	-0.525836

## 1212	-3.879153e-01	0.151979158	-0.525836
## 1216	2.200607e+00	1.803943938	-0.525836
## 1217	-4.774319e-01	-0.045945591	-0.525836
## 1218	2.208067e+00	4.652646575	-0.525836
## 1219	-3.133181e-01	-0.300420269	-0.525836
## 1220	2.982893e-02	-0.495517521	1.901100
## 1221	2.237906e+00	2.201914058	-0.525836
## 1224	-4.550528e-01	-0.569032428	-0.525836
## 1225	-3.879153e-01	-0.427657607	1.901100
## 1226	2.215526e+00	2.201914058	-0.525836
## 1227	-4.177542e-01	-0.017670627	-0.525836
## 1229	-4.252139e-01	0.267906511	-0.525836
## 1230	-3.953750e-01	1.282977723	-0.525836
## 1231	-4.774319e-01	-0.569032428	-0.525836
## 1233	2.200607e+00	2.722880273	-0.525836
## 1234	-4.998111e-01	-0.639719839	1.901100
## 1235	4.177343e-01	-0.611444874	-0.525836
## 1236	-4.401333e-01	-0.291937780	-0.525836
## 1238	-4.401333e-01	-0.842734081	-0.525836
## 1242	-3.207778e-01	-0.710407249	-0.525836
## 1247	-5.072708e-01	-0.710407249	-0.525836
## 1249	7.534216e-01	0.618516066	-0.525836
## 1251	2.193147e+00	3.855999461	-0.525836
## 1252	3.580565e-01	0.127945438	-0.525836
## 1253	-3.282376e-01	0.547828656	-0.525836
## 1256	4.474837e-02	-0.696269767	-0.525836
## 1258	-2.387209e-01	-0.569032428	-0.525836
## 1259	-4.550528e-01	-0.484207536	-0.525836
## 1263	-4.699722e-01	-0.012015635	-0.525836
## 1264	-3.879153e-01	-0.356970197	1.901100
## 1265	-3.953750e-01	-0.569032428	-0.525836
## 1266	-3.804556e-01	-0.300420269	-0.525836
## 1269	2.416939e+00	1.803943938	-0.525836
## 1270	-4.625125e-01	-0.710407249	-0.525836

## 1271	-3.431570e-01	-0.201457894	-0.525836
## 1272	2.200607e+00	2.201914058	-0.525836
## 1273	-4.401333e-01	-0.710407249	-0.525836
## 1274	-2.909390e-01	-0.427657607	-0.525836
## 1276	-4.102945e-01	-0.653857321	-0.525836
## 1282	-2.238015e-01	0.166116640	-0.525836
## 1283	-2.163418e-01	1.396077580	1.901100
## 1284	-4.699722e-01	-0.597307392	1.901100
## 1285	-4.625125e-01	-0.229732858	-0.525836
## 1286	-3.580764e-01	-0.540757464	1.901100
## 1287	2.200607e+00	2.722880273	-0.525836
## 1288	-3.953750e-01	-0.427657607	-0.525836
## 1289	-2.238015e-01	0.547828656	1.901100
## 1290	2.222986e+00	2.201914058	-0.525836
## 1291	-3.282376e-01	-0.399382643	-0.525836
## 1293	-3.729959e-01	-0.569032428	-0.525836
## 1294	-4.476826e-02	0.151979158	1.901100
## 1296	-4.923514e-01	-0.590238651	-0.525836
## 1298	8.205591e-01	-0.144907966	-0.525836
## 1299	2.387100e+00	3.403600034	-0.525836
## 1301	-4.699722e-01	-0.639719839	1.901100
## 1302	-2.238910e-02	-0.526619982	-0.525836
## 1304	3.282177e-01	0.407867583	-0.525836
## 1305	-3.506167e-01	-0.710407249	-0.525836
## 1306	-3.953750e-01	0.731615923	-0.525836
## 1308	-4.028348e-01	-0.431898852	-0.525836
## 1309	-3.879153e-01	-0.434726348	-0.525836
## 1311	-4.475931e-01	-0.554894946	1.901100
## 1312	2.237816e-01	0.641136037	-0.525836
## 1315	-2.536404e-01	-0.625582356	-0.525836
## 1317	-2.760195e-01	-0.569032428	-0.525836
## 1318	2.193147e+00	2.722880273	-0.525836
## 1320	-4.177542e-01	-0.710407249	-0.525836
## 1321	2.200607e+00	2.722880273	-0.525836

## 1323	4.401135e-01	-0.569032428	-0.525836
## 1324	9.696640e-02	-0.823648480	-0.525836
## 1325	7.683411e-01	-0.291937780	-0.525836
## 1326	-4.774319e-01	-0.151976707	-0.525836
## 1327	-3.506167e-01	1.890889453	-0.525836
## 1328	-4.028348e-01	-0.569032428	-0.525836
## 1329	-4.774319e-01	-0.571859925	-0.525836
## 1330	-4.848917e-01	-0.569032428	-0.525836
## 1331	-1.417446e-01	-0.569032428	-0.525836
## 1332	-4.177542e-01	-0.625582356	-0.525836
## 1334	2.208067e+00	1.803943938	-0.525836
## 1335	-4.550528e-01	0.127945438	-0.525836
## 1340	-2.088821e-01	-0.300420269	-0.525836
## 1341	-3.730854e-02	-0.356970197	1.901100
## 1343	6.712752e-02	0.180254122	-0.525836
## 1347	-4.475931e-01	-0.427657607	-0.525836
## 1348	-3.730854e-02	-0.385245161	1.901100
## 1350	2.215526e+00	2.722880273	-0.525836
## 1352	-3.879153e-01	-0.279214046	1.901100
## 1354	9.846729e-01	-0.229732858	1.901100
## 1355	-4.998111e-01	-0.660926062	1.901100
## 1356	-9.946292e-06	-0.833544718	-0.525836
## 1357	-4.848917e-01	-0.653857321	-0.525836
## 1358	-3.058584e-01	-0.498345018	-0.525836
## 1359	-1.119057e-01	-0.569032428	-0.525836
## 1360	-2.760195e-01	0.076343628	1.901100
## 1363	-2.014223e-01	-0.710407249	-0.525836
## 1364	4.401135e-01	-0.173182930	-0.525836
## 1368	2.014025e-01	-0.272145305	-0.525836
## 1369	-4.102945e-01	0.646791030	-0.525836
## 1370	-1.790432e-01	-0.484207536	1.901100
## 1372	-6.714741e-02	-0.484207536	1.901100
## 1374	-3.282376e-01	-0.569032428	-0.525836
## 1375	-2.387209e-01	1.537452401	-0.525836

## 1376	9.696640e-02	-0.710407249	-0.525836
## 1377	-3.431570e-01	-0.427657607	-0.525836
## 1378	-4.102945e-01	1.636414775	1.901100
## 1379	-6.714741e-02	-0.540757464	1.901100
## 1383	-4.177542e-01	-0.431898852	-0.525836
## 1384	-2.909390e-01	-0.682132285	-0.525836
## 1385	-2.312612e-01	-0.571859925	-0.525836
## 1386	-2.088821e-01	-0.413520125	1.901100
## 1387	-2.984882e-02	-0.533688723	-0.525836
## 1388	-4.401333e-01	-0.569032428	1.901100
## 1389	-3.282376e-01	-0.017670627	-0.525836
## 1390	7.235828e-01	-0.851782070	-0.525836
## 1391	-4.625125e-01	0.024741819	-0.525836
## 1393	6.639050e-01	-0.569032428	-0.525836
## 1395	-2.760195e-01	-0.625582356	1.901100
## 1397	-3.356973e-01	-0.710407249	-0.525836
## 1399	2.692948e+00	2.997854299	-0.525836
## 1400	-1.342849e-01	0.127945438	-0.525836
## 1403	-1.492043e-01	-0.484207536	1.901100
## 1404	-4.102945e-01	-0.851782070	-0.525836
## 1405	-2.984882e-02	-0.569032428	-0.525836
## 1406	1.029431e+00	0.687789728	-0.525836
## 1408	-4.550528e-01	-0.569032428	1.901100
## 1409	-4.923514e-01	-0.625582356	1.901100
## 1410	-1.342849e-01	0.267906511	-0.525836
## 1412	-4.998111e-01	-0.590238651	-0.525836
## 1413	-3.282376e-01	0.053016783	-0.525836
## 1414	-2.387209e-01	-0.359797694	-0.525836
## 1415	-3.804556e-01	-0.498345018	-0.525836
## 1417	-4.102945e-01	-0.484207536	-0.525836
## 1418	-4.774319e-01	-0.349901456	-0.525836
## 1420	-3.133181e-01	-0.455932572	-0.525836
## 1421	-2.312612e-01	-0.031808109	-0.525836
## 1422	-4.475931e-01	-0.470070054	1.901100

## 1423	-4.028348e-01	0.095429229	-0.525836
## 1424	2.230446e+00	1.803943938	-0.525836
## 1425	-3.879153e-01	-0.431898852	-0.525836
## 1426	-1.119057e-01	-0.095426779	1.901100
## 1427	-4.401333e-01	0.028276189	-0.525836
## 1429	-5.072708e-01	-0.710407249	-0.525836
## 1430	2.342342e+00	-0.569032428	-0.525836
## 1431	-5.147305e-01	-0.569032428	-0.525836
## 1432	-4.028348e-01	-0.569032428	-0.525836
## 1434	-4.326736e-01	-0.597307392	-0.525836
## 1436	-1.566640e-01	-0.371107679	-0.525836
## 1437	3.729760e-01	0.335766424	-0.525836
## 1438	-3.207778e-01	-0.159045448	1.901100
## 1439	-4.177542e-01	-0.378176420	-0.525836
## 1443	-1.119057e-01	-0.639719839	-0.525836
## 1445	2.685399e-01	1.667517236	-0.525836
## 1446	-4.326736e-01	-0.427657607	1.901100
## 1447	-4.401333e-01	-0.300420269	-0.525836
## 1449	-3.058584e-01	-0.569032428	-0.525836
## 1450	3.356774e-01	-0.569032428	-0.525836
## 1452	-4.774319e-01	-0.540757464	1.901100
## 1454	2.193147e+00	0.519553691	-0.525836
## 1455	-6.714741e-02	0.533691174	-0.525836
## 1456	2.252825e+00	1.803943938	-0.525836
## 1457	7.458724e-02	-0.342832715	-0.525836
## 1458	-2.238015e-01	-0.540757464	1.901100
## 1459	7.458724e-02	-0.639719839	-0.525836
## 1462	3.728865e-02	-0.215595376	-0.525836
## 1463	-4.550528e-01	-0.554894946	1.901100
## 1464	1.118858e-01	-0.328695233	-0.525836
## 1465	-3.729959e-01	-0.012015635	-0.525836
## 1466	-4.848917e-01	-0.569032428	-0.525836
## 1468	-4.475931e-01	-0.470070054	1.901100
## 1470	-4.774319e-01	-0.060083074	-0.525836

## 1472	-4.699722e-01	-0.580342414	1.901100
## 1474	2.200607e+00	2.722880273	-0.525836
## 1475	3.058385e-01	-0.540757464	-0.525836
## 1477	3.282177e-01	-0.470070054	-0.525836
## 1478	-1.790432e-01	-0.351315204	-0.525836
## 1479	2.215526e+00	4.797555767	-0.525836
## 1480	-4.848917e-01	-0.540757464	-0.525836
## 1481	-4.401333e-01	-0.526619982	-0.525836
## 1482	1.715636e-01	2.087400453	-0.525836
## 1483	-3.207778e-01	-0.639719839	-0.525836
## 1484	-3.953750e-01	0.166116640	1.901100
## 1485	2.236921e-02	0.967711873	-0.525836
## 1486	2.208067e+00	2.201914058	-0.525836
## 1487	-4.699722e-01	-0.484207536	1.901100
## 1489	-8.206685e-02	-0.003533145	1.901100
## 1494	-4.028348e-01	-0.187320412	1.901100
## 1496	-3.953750e-01	-0.470070054	-0.525836
## 1498	1.790233e-01	-0.512482500	-0.525836
## 1500	4.475732e-01	-0.569032428	-0.525836
## 1501	-4.848917e-01	-0.603669259	1.901100
## 1503	-3.058584e-01	-0.710407249	-0.525836
## 1504	-4.475931e-01	-0.484207536	1.901100
## 1505	3.728865e-02	-0.229732858	-0.525836
## 1507	2.297583e+00	2.201914058	-0.525836
## 1508	-1.193654e-01	-0.491276277	1.901100
## 1509	-5.296500e-01	-0.597307392	1.901100
## 1510	-3.730854e-02	-0.427657607	1.901100
## 1511	-4.252139e-01	-0.569032428	-0.525836
## 1513	-4.848917e-01	-0.590238651	-0.525836
## 1517	-5.072708e-01	-0.569032428	-0.525836
## 1518	-4.326736e-01	-0.335763974	-0.525836
## 1519	-2.088821e-01	-0.569032428	-0.525836
## 1520	-1.715835e-01	-0.427657607	-0.525836
## 1521	-2.238015e-01	0.045948042	-0.525836

## 1522	-3.506167e-01	-0.512482500	-0.525836
## 1523	-3.729959e-01	-0.286282787	-0.525836
## 1525	2.222986e+00	2.201914058	-0.525836
## 1526	7.458724e-02	-0.851782070	-0.525836
## 1527	-4.028348e-01	0.180254122	1.901100
## 1528	-4.848917e-01	-0.554894946	-0.525836
## 1529	2.163219e-01	-0.399382643	-0.525836
## 1531	-2.312612e-01	-0.569032428	-0.525836
## 1532	-4.102945e-01	-0.667994803	-0.525836
## 1535	-2.461807e-01	-0.639719839	-0.525836
## 1536	-2.238015e-01	-0.484207536	-0.525836
## 1537	-4.252139e-01	-0.328695233	-0.525836
## 1538	-5.072708e-01	-0.710407249	-0.525836
## 1539	-2.014223e-01	0.045948042	-0.525836
## 1540	-4.102945e-01	-0.272145305	-0.525836
## 1542	-3.879153e-01	0.745753405	-0.525836
## 1543	-1.566640e-01	-0.371107679	-0.525836
## 1544	-3.655362e-01	-0.151976707	-0.525836
## 1548	-4.401333e-01	-0.625582356	1.901100
## 1551	2.394560e+00	0.127945438	-0.525836
## 1553	-4.848917e-01	-0.625582356	1.901100
## 1556	-3.506167e-01	-0.571859925	-0.525836
## 1558	-4.774319e-01	0.434728799	-0.525836
## 1559	-1.492043e-01	-0.441795090	-0.525836
## 1560	8.727771e-01	-0.194530528	-0.525836
## 1561	-4.923514e-01	-0.597307392	1.901100
## 1562	-1.492938e-02	-0.569032428	-0.525836
## 1563	2.431858e+00	2.812653284	-0.525836
## 1565	-5.222798e-02	-0.356970197	-0.525836
## 1566	8.204696e-02	-0.286282787	-0.525836
## 1568	-2.760195e-01	-0.554894946	-0.525836
## 1569	-2.909390e-01	-0.840047960	-0.525836
## 1570	-4.475931e-01	-0.144907966	-0.525836
## 1571	-3.133181e-01	-0.526619982	-0.525836

## 1572	2.357261e+00	-0.554894946	-0.525836
## 1573	-4.177542e-01	0.561966138	-0.525836
## 1574	-4.550528e-01	-0.470070054	-0.525836
## 1575	-2.685598e-01	-0.413520125	1.901100
## 1577	-4.699722e-01	-0.151976707	-0.525836
## 1578	-8.952657e-02	-0.431898852	-0.525836
## 1579	-4.774319e-01	-0.625582356	1.901100
## 1580	3.356774e-01	-0.526619982	1.901100
## 1581	-1.939626e-01	2.812653284	-0.525836
## 1582	-8.952657e-02	1.707102186	1.901100
## 1584	2.208067e+00	-0.371107679	-0.525836
## 1585	-3.804556e-01	-0.151976707	-0.525836
## 1586	-3.133181e-01	-0.300420269	1.901100
## 1587	1.491844e-01	-0.342832715	-0.525836
## 1588	-4.401333e-01	-0.540757464	1.901100
## 1590	-2.014223e-01	0.731615923	-0.525836
## 1591	-4.699722e-01	-0.151976707	-0.525836
## 1592	-5.147305e-01	-0.710407249	-0.525836
## 1593	-4.475931e-01	-0.484207536	-0.525836
## 1595	-2.238015e-01	-0.328695233	-0.525836
## 1596	-1.268252e-01	0.364041389	-0.525836
## 1597	-4.550528e-01	-0.470070054	1.901100
## 1598	-4.625125e-01	-0.328695233	-0.525836
## 1599	-4.625125e-01	-0.180251671	-0.525836
## 1600	2.327422e+00	2.201914058	-0.525836
## 1601	-4.252139e-01	-0.540757464	-0.525836
## 1602	-4.998111e-01	-0.215595376	-0.525836
## 1604	2.193147e+00	2.770240837	-0.525836
## 1605	-1.939626e-01	-0.597307392	1.901100
## 1606	-1.492043e-01	-0.540757464	-0.525836
## 1607	-3.953750e-01	-0.279214046	-0.525836
## 1608	-2.312612e-01	-0.851782070	-0.525836
## 1609	-6.714741e-02	1.247634018	-0.525836
## 1610	2.275204e+00	2.722880273	-0.525836

## 1611	2.461608e-01	-0.356970197	1.901100
## 1612	-4.998111e-01	-0.569032428	-0.525836
## 1614	-7.460713e-02	-0.667994803	-0.525836
## 1616	-4.475931e-01	0.547828656	-0.525836
## 1617	-3.804556e-01	-0.498345018	-0.525836
## 1618	-3.506167e-01	0.127945438	-0.525836
## 1619	-4.475931e-01	-0.151976707	-0.525836
## 1621	-3.207778e-01	0.364041389	1.901100
## 1622	-4.550528e-01	-0.300420269	-0.525836
## 1623	2.200607e+00	1.424352544	-0.525836
## 1625	-4.475931e-01	1.947439381	1.901100
## 1627	2.372181e+00	-0.569032428	-0.525836
## 1629	-3.506167e-01	0.407867583	-0.525836
## 1630	-3.804556e-01	-0.611444874	1.901100
## 1631	-4.401333e-01	-0.427657607	1.901100
## 1632	-2.014223e-01	-0.286282787	-0.525836
## 1634	-4.774319e-01	-0.660926062	1.901100
## 1635	-5.072708e-01	-0.554894946	-0.525836
## 1636	2.982893e-02	0.399385094	-0.525836
## 1637	-3.580764e-01	-0.569032428	-0.525836
## 1639	-5.072708e-01	-0.571859925	-0.525836
## 1640	-3.431570e-01	-0.790142648	-0.525836
## 1641	-4.326736e-01	-0.498345018	-0.525836
## 1643	-4.848917e-01	-0.710407249	-0.525836
## 1644	-4.401333e-01	-0.470070054	-0.525836
## 1645	2.834594e-01	0.166116640	-0.525836
## 1646	-4.401333e-01	-0.611444874	1.901100
## 1650	-4.177542e-01	-0.427657607	-0.525836
## 1651	2.610802e-01	-0.799756136	-0.525836
## 1652	-7.460713e-02	-0.540757464	-0.525836
## 1654	-4.923514e-01	-0.540757464	1.901100
## 1656	5.743884e-01	0.279216496	-0.525836
## 1657	-4.550528e-01	-0.851782070	-0.525836
## 1658	-4.848917e-01	-0.611444874	-0.525836

## 1659	-3.133181e-01	-0.851782070	-0.525836
## 1661	-4.401333e-01	-0.653857321	-0.525836
## 1662	-3.356973e-01	-0.356970197	1.901100
## 1663	-2.685598e-01	-0.851782070	-0.525836
## 1665	8.950668e-02	-0.484207536	-0.525836
## 1668	2.222986e+00	2.722880273	-0.525836
## 1669	-3.655362e-01	-0.201457894	-0.525836
## 1670	-1.417446e-01	0.569034879	-0.525836
## 1671	-4.177542e-01	-0.597307392	-0.525836
## 1673	-4.774319e-01	-0.151976707	-0.525836
## 1674	2.260285e+00	2.201914058	-0.525836
## 1675	-4.475931e-01	-0.470070054	1.901100
## 1677	-4.625125e-01	-0.385245161	1.901100
## 1679	-4.401333e-01	-0.229732858	-0.525836
## 1680	-4.625125e-01	-0.540757464	-0.525836
## 1683	2.163219e-01	1.410215062	-0.525836
## 1685	-4.252139e-01	-0.554894946	-0.525836
## 1687	-4.475931e-01	0.208529086	1.901100
## 1689	-4.102945e-01	-0.441795090	-0.525836
## 1690	-2.536404e-01	-0.710407249	-0.525836
## 1691	-4.102945e-01	-0.533688723	-0.525836
## 1692	-4.028348e-01	-0.378176420	-0.525836
## 1693	2.208067e+00	2.201914058	-0.525836
## 1694	-2.611001e-01	-0.540757464	1.901100
## 1695	-2.461807e-01	-0.569032428	-0.525836
## 1696	2.200607e+00	2.722880273	-0.525836
## 1697	-3.655362e-01	-0.824496729	-0.525836
## 1698	-4.401333e-01	-0.144907966	-0.525836
## 1699	-3.953750e-01	0.010604337	-0.525836
## 1701	-4.550528e-01	-0.569032428	-0.525836
## 1704	-4.848917e-01	-0.710407249	-0.525836
## 1705	-3.506167e-01	0.030820936	-0.525836
## 1706	-7.460713e-02	-0.710407249	-0.525836
## 1707	-4.476826e-02	0.267906511	-0.525836

## 1708	-4.923514e-01	-0.597307392	1.901100
## 1710	-4.699722e-01	-0.696269767	-0.525836
## 1711	-4.699722e-01	-0.554894946	-0.525836
## 1713	-4.550528e-01	-0.431898852	-0.525836
## 1716	-3.207778e-01	0.180254122	-0.525836
## 1717	-4.177542e-01	0.200046597	-0.525836
## 1718	-5.072708e-01	-0.470070054	1.901100
## 1719	-4.550528e-01	-0.639719839	1.901100
## 1720	-3.729959e-01	-0.569032428	-0.525836
## 1722	-3.506167e-01	0.166116640	1.901100
## 1723	-7.460713e-02	-0.498345018	-0.525836
## 1724	-2.536404e-01	-0.364038938	1.901100
## 1725	-1.492043e-01	-0.710407249	-0.525836
## 1726	-4.998111e-01	-0.569032428	-0.525836
## 1727	-9.698629e-02	-0.378176420	1.901100
## 1728	-3.506167e-01	-0.012015635	-0.525836
## 1729	-3.431570e-01	-0.851782070	-0.525836
## 1730	2.200607e+00	2.201914058	-0.525836
## 1732	5.966780e-02	-0.611444874	-0.525836
## 1733	-4.177542e-01	0.109566711	-0.525836
## 1735	-1.715835e-01	-0.569032428	-0.525836
## 1737	-4.177542e-01	-0.696269767	-0.525836
## 1738	-3.953750e-01	0.109566711	-0.525836
## 1739	-4.848917e-01	-0.569032428	-0.525836
## 1740	-4.550528e-01	0.265079014	-0.525836
## 1741	3.953551e-01	-0.653857321	-0.525836
## 1743	3.207580e-01	-0.031808109	-0.525836
## 1745	2.424399e+00	2.201914058	-0.525836
## 1746	1.490949e-02	-0.710407249	-0.525836
## 1748	-4.848917e-01	1.721239668	-0.525836
## 1749	-3.804556e-01	0.166116640	1.901100
## 1750	-4.848917e-01	-0.710407249	-0.525836
## 1751	-3.133181e-01	-0.053014333	1.901100
## 1752	2.334882e+00	3.272828325	-0.525836

## 1753	-4.028348e-01	-0.105323016	-0.525836
## 1754	-3.953750e-01	-0.431898852	-0.525836
## 1755	-2.387209e-01	0.267906511	-0.525836
## 1756	-4.475931e-01	-0.342832715	-0.525836
## 1758	-4.177542e-01	-0.540757464	1.901100
## 1759	-4.252139e-01	-0.851782070	-0.525836
## 1760	-4.177542e-01	-0.540757464	1.901100
## 1761	1.208464e+00	-0.102495520	-0.525836
## 1762	-4.252139e-01	0.226907813	-0.525836
## 1763	-8.952657e-02	-0.291937780	-0.525836
## 1764	2.387011e-01	-0.279779545	-0.525836
## 1765	-4.550528e-01	-0.003533145	-0.525836
## 1767	-8.952657e-02	2.087400453	-0.525836
## 1770	-2.163418e-01	-0.180251671	-0.525836
## 1771	-4.699722e-01	-0.639719839	1.901100
## 1772	2.208067e+00	2.722880273	-0.525836
## 1774	-2.760195e-01	0.738684664	-0.525836
## 1775	-9.698629e-02	-0.569032428	-0.525836
## 1777	-2.387209e-01	0.166116640	-0.525836
## 1778	-4.252139e-01	-0.569032428	-0.525836
## 1779	-2.760195e-01	-0.569032428	-0.525836
## 1780	-1.492938e-02	1.247634018	-0.525836
## 1781	-3.655362e-01	-0.851782070	-0.525836
## 1783	-3.431570e-01	-0.710407249	-0.525836
## 1784	-1.865029e-01	-0.540757464	-0.525836
## 1785	2.610802e-01	-0.243870341	-0.525836
## 1786	-4.699722e-01	-0.540757464	1.901100
## 1787	-3.655362e-01	0.130772934	-0.525836
## 1788	2.200607e+00	1.803943938	-0.525836
## 1789	-3.879153e-01	-0.710407249	-0.525836
## 1791	8.876966e-01	0.477141245	-0.525836
## 1793	-1.492938e-02	0.491278727	1.901100
## 1796	-3.580764e-01	-0.431898852	-0.525836
## 1797	-3.879153e-01	-0.653857321	-0.525836

## 1799	-4.401333e-01	-0.839341085	-0.525836
## 1800	-2.834793e-01	1.667517236	-0.525836
## 1801	-2.611001e-01	-0.625582356	1.901100
## 1802	-5.968770e-02	1.675292851	-0.525836
## 1803	-4.326736e-01	-0.441795090	-0.525836
## 1804	-2.685598e-01	-0.554894946	-0.525836
## 1805	-2.238910e-02	-0.003533145	-0.525836
## 1806	2.446778e+00	1.879579467	-0.525836
## 1807	2.461608e-01	-0.569032428	-0.525836
## 1809	-3.207778e-01	-0.710407249	-0.525836
## 1810	-4.923514e-01	-0.653857321	-0.525836
## 1813	-9.946292e-06	-0.540757464	1.901100
## 1814	-4.102945e-01	-0.710407249	-0.525836
## 1815	-2.536404e-01	-0.286282787	1.901100
## 1818	-3.356973e-01	-0.300420269	-0.525836
## 1819	-1.790432e-01	0.491278727	-0.525836
## 1820	-4.550528e-01	-0.130770484	-0.525836
## 1821	-6.714741e-02	0.407867583	-0.525836
## 1823	-5.072708e-01	-0.470070054	-0.525836
## 1824	-3.207778e-01	-0.314557751	-0.525836
## 1825	4.028149e-01	-0.045945591	-0.525836
## 1826	-1.566640e-01	0.590241102	-0.525836
## 1828	2.200607e+00	2.201914058	-0.525836
## 1829	-2.312612e-01	0.127945438	-0.525836
## 1830	-3.058584e-01	-0.470070054	-0.525836
## 1832	-2.387209e-01	-0.272145305	-0.525836
## 1834	-4.401333e-01	-0.291937780	-0.525836
## 1835	2.200607e+00	2.770240837	-0.525836
## 1838	-2.536404e-01	-0.569032428	-0.525836
## 1839	-3.655362e-01	-0.539343716	1.901100
## 1840	-4.625125e-01	-0.696269767	-0.525836
## 1841	-3.953750e-01	-0.003533145	1.901100
## 1842	-3.506167e-01	0.967711873	-0.525836
## 1843	-1.939626e-01	0.024741819	-0.525836

## 1844	8.130994e-01	0.687789728	-0.525836
## 1846	-3.431570e-01	-0.498345018	-0.525836
## 1847	-1.492043e-01	0.137841675	-0.525836
## 1848	2.236921e-02	-0.625582356	-0.525836
## 1850	2.290124e+00	2.201914058	-0.525836
## 1852	-4.625125e-01	0.067154265	-0.525836
## 1853	-4.625125e-01	-0.519551241	1.901100
## 1856	7.981799e-01	0.731615923	-0.525836
## 1858	-4.177542e-01	-0.378176420	1.901100
## 1859	2.387100e+00	0.618516066	-0.525836
## 1861	-4.401333e-01	-0.012015635	-0.525836
## 1862	2.834594e-01	0.053016783	-0.525836
## 1863	-8.952657e-02	0.127945438	-0.525836
## 1864	-4.774319e-01	-0.639719839	-0.525836
## 1865	2.290124e+00	-0.841320333	-0.525836
## 1867	-4.401333e-01	-0.187320412	-0.525836
## 1868	-3.804556e-01	-0.003533145	1.901100
## 1869	-4.177542e-01	-0.470070054	-0.525836
## 1870	-2.760195e-01	-0.569032428	-0.525836
## 1872	-3.431570e-01	-0.597307392	-0.525836
## 1873	2.193147e+00	2.201914058	-0.525836
## 1875	4.474837e-02	-0.752819695	-0.525836
## 1876	-5.147305e-01	-0.710407249	-0.525836
## 1877	-1.566640e-01	1.311252688	-0.525836
## 1878	3.878954e-01	0.267906511	-0.525836
## 1879	-4.326736e-01	-0.696269767	-0.525836
## 1880	-4.028348e-01	-0.385245161	1.901100
## 1881	-2.611001e-01	-0.851782070	-0.525836
## 1885	2.236921e-02	0.967711873	-0.525836
## 1887	-3.282376e-01	-0.710407249	-0.525836
## 1890	-2.685598e-01	-0.385245161	-0.525836
## 1891	-5.072708e-01	-0.710407249	-0.525836
## 1892	-4.848917e-01	-0.710407249	-0.525836
## 1894	-3.058584e-01	1.608139811	-0.525836

## 1895	-3.804556e-01	-0.569032428	-0.525836
## 1896	3.207580e-01	-0.583169910	-0.525836
## 1897	2.230446e+00	2.770240837	-0.525836
## 1899	2.469157e+00	2.722880273	-0.525836
## 1900	2.909191e-01	-0.569032428	-0.525836
## 1901	2.275204e+00	3.118022896	-0.525836
## 1902	-2.983987e-01	-0.431898852	-0.525836
## 1903	-3.506167e-01	-0.851782070	-0.525836
## 1905	-4.848917e-01	0.081291747	-0.525836
## 1906	-1.715835e-01	-0.328695233	-0.525836
## 1907	-3.953750e-01	0.279216496	-0.525836
## 1908	-4.401333e-01	-0.434726348	1.901100
## 1909	-3.655362e-01	0.321628942	-0.525836
## 1910	-4.326736e-01	-0.710407249	-0.525836
## 1911	-3.282376e-01	-0.811066121	-0.525836
## 1913	-4.699722e-01	-0.569032428	-0.525836
## 1915	-4.848917e-01	-0.667994803	-0.525836
## 1916	-2.834793e-01	-0.095426779	1.901100
## 1917	-4.326736e-01	0.477141245	1.901100
## 1918	-3.580764e-01	-0.095426779	1.901100
## 1919	-4.774319e-01	-0.540757464	1.901100
## 1920	-3.133181e-01	-0.512482500	-0.525836
## 1921	2.237816e-01	-0.173182930	-0.525836
## 1923	-4.252139e-01	-0.431898852	-0.525836
## 1924	-2.834793e-01	-0.095426779	1.901100
## 1925	-4.550528e-01	-0.300420269	-0.525836
## 1927	-5.222798e-02	-0.484207536	1.901100
## 1929	-4.625125e-01	-0.569032428	-0.525836
## 1930	-4.923514e-01	-0.597307392	1.901100
## 1932	-4.326736e-01	-0.413520125	1.901100
## 1933	-3.133181e-01	-0.710407249	-0.525836
## 1934	-3.506167e-01	-0.597307392	1.901100
## 1935	-3.207778e-01	-0.151976707	-0.525836
## 1937	1.969356e+00	-0.291937780	-0.525836

## 1938	-5.968770e-02	-0.427657607	-0.525836
## 1939	-4.326736e-01	-0.427657607	1.901100
## 1940	-3.356973e-01	-0.583169910	-0.525836
## 1943	-4.848917e-01	-0.603669259	1.901100
## 1944	-2.312612e-01	-0.710407249	-0.525836
## 1945	2.312413e-01	-0.484207536	-0.525836
## 1949	-4.326736e-01	-0.187320412	1.901100
## 1951	-5.072708e-01	-0.653857321	-0.525836
## 1952	-9.946292e-06	0.279216496	-0.525836
## 1954	-4.625125e-01	-0.569032428	-0.525836
## 1955	-4.625125e-01	-0.436140097	-0.525836
## 1956	-9.946292e-06	2.378632584	-0.525836
## 1957	7.235828e-01	-0.639719839	-0.525836
## 1958	-3.133181e-01	0.208529086	1.901100
## 1959	-3.953750e-01	-0.385245161	-0.525836
## 1960	-4.699722e-01	-0.554894946	1.901100
## 1962	-4.028348e-01	1.664689739	-0.525836
## 1963	-4.550528e-01	-0.569032428	1.901100
## 1965	-4.998111e-01	-0.682132285	-0.525836
## 1966	-3.879153e-01	-0.151976707	-0.525836
## 1968	2.236921e-02	-0.215595376	-0.525836
## 1970	-1.342849e-01	1.678827221	-0.525836
## 1971	-4.848917e-01	-0.710407249	-0.525836
## 1972	-4.923514e-01	-0.711820997	-0.525836
## 1973	-3.879153e-01	0.802303333	1.901100
## 1975	-4.625125e-01	-0.571859925	-0.525836
## 1978	-2.834793e-01	-0.349901456	1.901100
## 1979	2.200607e+00	2.722880273	-0.525836
## 1982	-1.492043e-01	1.919164417	-0.525836
## 1984	2.200607e+00	4.652646575	-0.525836
## 1986	-4.028348e-01	-0.291937780	-0.525836
## 1987	-4.475931e-01	-0.180251671	-0.525836
## 1988	-5.072708e-01	-0.569032428	-0.525836
## 1989	-1.790432e-01	-0.667994803	-0.525836

## 1990	-4.923514e-01	-0.611444874	-0.525836
## 1991	-3.879153e-01	-0.431898852	-0.525836
## 1994	-3.058584e-01	-0.569032428	-0.525836
## 1995	-2.760195e-01	-0.512482500	-0.525836
## 1997	-1.119057e-01	0.127945438	-0.525836
## 1998	-4.028348e-01	0.943678154	-0.525836
## 2002	-4.028348e-01	-0.168941686	1.901100
## 2004	-4.625125e-01	1.961576863	-0.525836
## 2005	-4.998111e-01	-0.660926062	1.901100
## 2006	-1.492938e-02	-0.851782070	-0.525836
## 2007	-5.072708e-01	-0.696269767	-0.525836
## 2008	-3.207778e-01	-0.180251671	-0.525836
## 2009	-3.506167e-01	0.127945438	-0.525836
## 2010	-4.252139e-01	-0.359797694	-0.525836
## 2011	-3.282376e-01	0.364041389	-0.525836
## 2013	1.462095e+00	-0.328695233	1.901100
## 2017	-2.387209e-01	1.325390170	-0.525836
## 2018	-4.401333e-01	-0.291937780	-0.525836
## 2019	-3.431570e-01	-0.583169910	-0.525836
## 2020	-3.879153e-01	0.471486252	-0.525836
## 2021	-4.475931e-01	-0.470070054	1.901100
## 2022	-3.953750e-01	-0.540757464	1.901100
## 2023	-4.475931e-01	-0.427657607	-0.525836
## 2025	2.208067e+00	2.812653284	-0.525836
## 2026	-3.953750e-01	-0.003533145	1.901100
## 2027	-4.848917e-01	-0.385245161	1.901100
## 2028	1.514313e+00	0.166116640	-0.525836
## 2029	-4.401333e-01	-0.554894946	-0.525836
## 2030	-4.177542e-01	-0.291937780	-0.525836
## 2031	-3.953750e-01	-0.540757464	1.901100
## 2032	1.193456e-01	1.820202042	-0.525836
## 2033	2.230446e+00	2.040746762	-0.525836
## 2034	6.191467e-01	0.267906511	-0.525836
## 2035	-3.730854e-02	-0.484207536	-0.525836

## 2036	-4.475931e-01	-0.102495520	1.901100
## 2037	-1.715835e-01	0.208529086	-0.525836
## 2038	1.491844e-01	1.692964703	-0.525836
## 2039	-2.834793e-01	0.109566711	-0.525836
## 2041	-3.953750e-01	0.067154265	-0.525836
## 2042	-4.998111e-01	-0.580342414	1.901100
## 2043	2.297583e+00	2.201914058	-0.525836
## 2044	-4.848917e-01	-0.533688723	-0.525836
## 2046	1.118858e-01	-0.342832715	-0.525836
## 2047	2.237906e+00	2.201914058	-0.525836
## 2048	-4.699722e-01	-0.173182930	-0.525836
## 2049	-5.147305e-01	-0.413520125	1.901100
## 2051	1.044261e-01	2.927166888	-0.525836
## 2053	-4.401333e-01	0.267906511	-0.525836
## 2054	-3.655362e-01	-0.314557751	-0.525836
## 2055	2.237906e+00	3.855999461	-0.525836
## 2056	-1.641238e-01	-0.554894946	-0.525836
## 2058	-2.014223e-01	-0.229732858	1.901100
## 2061	-2.387209e-01	-0.710407249	-0.525836
## 2064	2.558674e+00	2.722880273	-0.525836
## 2065	-1.641238e-01	-0.356970197	1.901100
## 2066	-4.998111e-01	-0.569032428	-0.525836
## 2067	-2.088821e-01	-0.017670627	-0.525836
## 2068	9.772132e-01	-0.328695233	-0.525836
## 2069	-2.238015e-01	-0.569032428	-0.525836
## 2070	-2.685598e-01	-0.554894946	-0.525836
## 2071	-5.072708e-01	-0.710407249	-0.525836
## 2072	-4.177542e-01	-0.081289297	-0.525836
## 2073	-4.923514e-01	-0.431898852	-0.525836
## 2074	6.712752e-02	1.664689739	1.901100
## 2076	-4.550528e-01	0.127945438	-0.525836
## 2077	-4.252139e-01	-0.660926062	1.901100
## 2078	-2.536404e-01	-0.441795090	1.901100
## 2081	-2.685598e-01	-0.130770484	-0.525836

## 2082	2.200607e+00	2.722880273	-0.525836
## 2083	-4.401333e-01	0.265079014	-0.525836
## 2084	8.950668e-02	0.279216496	-0.525836
## 2085	-3.655362e-01	-0.353435827	1.901100
## 2090	-3.804556e-01	-0.498345018	-0.525836
## 2091	-5.222798e-02	0.420591317	-0.525836
## 2092	2.305043e+00	2.770240837	-0.525836
## 2093	-8.206685e-02	1.092121715	-0.525836
## 2094	-4.028348e-01	0.197925974	-0.525836
## 2095	-3.506167e-01	-0.033928732	1.901100
## 2096	-4.177542e-01	-0.484207536	1.901100
## 2097	-3.282376e-01	-0.291937780	-0.525836
## 2098	-3.431570e-01	-0.569032428	-0.525836
## 2100	-1.492938e-02	0.943678154	-0.525836
## 2101	5.220808e-02	-0.144907966	-0.525836
## 2104	-5.072708e-01	-0.569032428	-0.525836
## 2105	2.193147e+00	2.722880273	-0.525836
## 2107	-8.206685e-02	0.279216496	-0.525836
## 2110	-3.431570e-01	-0.554894946	-0.525836
## 2112	-3.356973e-01	0.286285237	1.901100
## 2113	-4.998111e-01	-0.710407249	-0.525836
## 2114	-1.865029e-01	-0.832696469	-0.525836
## 2116	-4.923514e-01	-0.526619982	-0.525836
## 2117	2.200607e+00	4.652646575	-0.525836
## 2118	3.207580e-01	1.466764990	1.901100
## 2119	-7.469665e-03	-0.540757464	1.901100
## 2121	2.193147e+00	2.201914058	-0.525836
## 2122	-5.147305e-01	-0.682132285	-0.525836
## 2123	2.364721e+00	-0.116633002	-0.525836
## 2124	-4.774319e-01	-0.484207536	1.901100
## 2127	-2.983987e-01	0.547828656	-0.525836
## 2128	-3.879153e-01	-0.625582356	-0.525836
## 2129	-4.401333e-01	-0.710407249	-0.525836
## 2130	-4.625125e-01	-0.569032428	-0.525836

## 2132	-4.475931e-01	-0.309609632	1.901100
## 2137	-1.641238e-01	-0.710407249	-0.525836
## 2139	-2.536404e-01	0.279216496	-0.525836
## 2140	-4.923514e-01	-0.710407249	-0.525836
## 2141	-3.953750e-01	-0.710407249	-0.525836
## 2142	7.449772e-03	-0.229732858	1.901100
## 2145	-2.760195e-01	-0.569032428	-0.525836
## 2146	-4.923514e-01	-0.710407249	-0.525836
## 2147	-3.804556e-01	-0.519551241	1.901100
## 2149	-3.431570e-01	0.293353978	-0.525836
## 2151	4.474837e-02	-0.272145305	-0.525836
## 2154	-4.848917e-01	-0.660926062	1.901100
## 2155	2.215526e+00	2.534144887	-0.525836
## 2156	-4.252139e-01	-0.159045448	-0.525836
## 2157	-2.312612e-01	-0.533688723	-0.525836
## 2158	-3.207778e-01	-0.088358038	1.901100
## 2159	-3.953750e-01	-0.590238651	-0.525836
## 2161	-3.133181e-01	-0.639719839	-0.525836
## 2163	-1.939626e-01	-0.569032428	-0.525836
## 2164	-4.998111e-01	-0.455932572	1.901100
## 2166	-2.909390e-01	-0.597307392	1.901100
## 2167	2.208067e+00	1.424352544	-0.525836
## 2168	-4.475931e-01	-0.639719839	1.901100
## 2169	-4.923514e-01	-0.696269767	-0.525836
## 2170	-4.326736e-01	1.876751970	-0.525836
## 2171	-4.774319e-01	-0.300420269	-0.525836
## 2172	-4.252139e-01	-0.088358038	-0.525836
## 2173	-2.312612e-01	-0.484207536	1.901100
## 2174	-4.848917e-01	-0.431898852	-0.525836
## 2176	-2.909390e-01	-0.554894946	-0.525836
## 2177	-4.028348e-01	-0.095426779	1.901100
## 2179	-2.088821e-01	-0.511775626	-0.525836
## 2180	2.208067e+00	1.594002329	-0.525836
## 2182	-2.984882e-02	-0.371107679	-0.525836

## 2183	3.728865e-02	-0.498345018	-0.525836
## 2184	-4.102945e-01	-0.711820997	-0.525836
## 2185	-1.790432e-01	1.099190456	1.901100
## 2186	-2.088821e-01	0.137841675	-0.525836
## 2189	4.028149e-01	-0.512482500	-0.525836
## 2190	-4.550528e-01	-0.291937780	-0.525836
## 2191	-4.625125e-01	-0.371107679	-0.525836
## 2192	7.449772e-03	-0.431898852	-0.525836
## 2194	2.327422e+00	3.118022896	-0.525836
## 2195	-4.774319e-01	-0.243870341	-0.525836
## 2196	-9.698629e-02	0.547828656	-0.525836
## 2197	-3.580764e-01	-0.569032428	-0.525836
## 2198	-4.401333e-01	-0.512482500	-0.525836
## 2199	6.340661e-01	-0.667994803	-0.525836
## 2200	-5.147305e-01	-0.710407249	-0.525836
## 2201	-4.177542e-01	2.102951684	-0.525836
## 2203	-3.580764e-01	-0.498345018	-0.525836
## 2207	-4.550528e-01	-0.434726348	-0.525836
## 2209	-9.946292e-06	-0.569032428	-0.525836
## 2210	2.237906e+00	2.040746762	-0.525836
## 2213	-4.401333e-01	-0.597307392	1.901100
## 2214	-4.848917e-01	-0.151976707	-0.525836
## 2215	-1.492043e-01	-0.060083074	1.901100
## 2216	-4.848917e-01	-0.328695233	-0.525836
## 2218	-2.760195e-01	0.166116640	-0.525836
## 2219	-4.699722e-01	-0.569032428	-0.525836
## 2220	-4.401333e-01	-0.597307392	1.901100
## 2221	-2.238015e-01	-0.710407249	-0.525836
## 2222	-4.699722e-01	-0.711820997	-0.525836
## 2223	-4.550528e-01	0.053016783	-0.525836
## 2224	-3.953750e-01	-0.498345018	-0.525836
## 2225	1.939427e-01	0.282750867	1.901100
## 2226	-2.685598e-01	-0.540757464	-0.525836
## 2227	1.148787e+00	0.279216496	-0.525836

## 2229	-3.729959e-01	-0.519551241	1.901100
## 2230	-5.222798e-02	-0.667994803	-0.525836
## 2231	-4.550528e-01	-0.569032428	-0.525836
## 2234	-4.774319e-01	-0.533688723	-0.525836
## 2235	-3.655362e-01	-0.569032428	-0.525836
## 2236	-4.699722e-01	-0.498345018	-0.525836
## 2237	-4.326736e-01	-0.639719839	1.901100
## 2238	-4.326736e-01	-0.385245161	-0.525836
## 2241	1.715636e-01	-0.569032428	-0.525836
## 2242	-4.252139e-01	-0.851782070	-0.525836
## 2245	-2.611001e-01	0.731615923	-0.525836
## 2246	-2.909390e-01	-0.710407249	-0.525836
## 2248	-3.879153e-01	-0.611444874	1.901100
## 2249	-5.968770e-02	-0.130770484	1.901100
## 2250	-3.879153e-01	-0.431898852	-0.525836
## 2251	-1.4174446e-01	-0.540757464	1.901100
## 2252	1.551612e+00	-0.314557751	-0.525836
## 2253	-2.983987e-01	-0.441795090	-0.525836
## 2254	-3.356973e-01	-0.696269767	-0.525836
## 2258	-3.058584e-01	-0.286282787	1.901100
## 2259	-2.834793e-01	-0.660926062	1.901100
## 2260	-4.401333e-01	0.123704193	-0.525836
## 2263	2.230446e+00	2.201914058	-0.525836
## 2266	-2.983987e-01	-0.378176420	1.901100
## 2269	-4.699722e-01	-0.151976707	-0.525836
## 2270	8.950668e-02	-0.045945591	-0.525836
## 2271	-3.730854e-02	1.862614488	-0.525836
## 2272	-5.072708e-01	-0.413520125	1.901100
## 2273	1.864830e-01	-0.526619982	-0.525836
## 2275	-5.072708e-01	-0.710407249	-0.525836
## 2276	2.215526e+00	2.397011311	-0.525836
## 2277	-4.475931e-01	-0.569032428	-0.525836
## 2278	-1.044460e-01	0.731615923	-0.525836
## 2280	-4.401333e-01	-0.470070054	1.901100

## 2281	-4.848917e-01	-0.710407249	-0.525836
## 2284	-4.326736e-01	-0.399382643	-0.525836
## 2285	2.312503e+00	2.722880273	-0.525836
## 2286	2.618351e+00	2.770240837	-0.525836
## 2287	2.909191e-01	-0.667994803	-0.525836
## 2288	-4.998111e-01	-0.711820997	-0.525836
## 2289	-8.952657e-02	1.297115205	-0.525836
## 2290	-1.342849e-01	-0.569032428	-0.525836
## 2293	3.953551e-01	-0.625582356	-0.525836
## 2294	-1.492043e-01	0.127945438	-0.525836
## 2295	-4.998111e-01	-0.569032428	-0.525836
## 2298	2.759996e-01	-0.542595337	-0.525836
## 2301	2.014025e-01	-0.710407249	-0.525836
## 2303	-7.469665e-03	-0.569032428	-0.525836
## 2304	-7.460713e-02	1.452627508	-0.525836
## 2306	2.222986e+00	2.722880273	-0.525836
## 2307	-3.356973e-01	-0.540757464	-0.525836
## 2308	-4.475931e-01	-0.540757464	-0.525836
## 2310	-3.058584e-01	-0.526619982	-0.525836
## 2312	-5.147305e-01	-0.583169910	-0.525836
## 2313	-1.865029e-01	-0.710407249	-0.525836
## 2314	-3.207778e-01	0.109566711	-0.525836
## 2315	-5.968770e-02	-0.413520125	-0.525836
## 2316	-3.133181e-01	0.010604337	-0.525836
## 2318	-2.088821e-01	-0.710407249	-0.525836
## 2320	-5.968770e-02	-0.569032428	-0.525836
## 2321	-3.207778e-01	-0.540757464	-0.525836
## 2322	2.334882e+00	2.201914058	-0.525836
## 2323	2.312413e-01	-0.540757464	1.901100
## 2324	-4.848917e-01	0.279216496	-0.525836
## 2325	-4.177542e-01	-0.434726348	-0.525836
## 2329	-4.923514e-01	-0.571859925	-0.525836
## 2330	-2.536404e-01	-0.710407249	-0.525836
## 2331	-3.655362e-01	-0.540757464	-0.525836

## 2332	-4.028348e-01	-0.498345018	-0.525836
## 2334	-4.475931e-01	-0.533688723	-0.525836
## 2335	-4.550528e-01	-0.335763974	-0.525836
## 2336	-2.536404e-01	0.109566711	-0.525836
## 2337	-1.044460e-01	-0.441795090	-0.525836
## 2338	-4.998111e-01	-0.569032428	-0.525836
## 2340	-3.879153e-01	-0.540757464	1.901100
## 2341	-4.998111e-01	-0.710407249	-0.525836
## 2343	-1.268252e-01	0.045948042	-0.525836
## 2344	-4.625125e-01	-0.431898852	-0.525836
## 2345	-2.611001e-01	-0.151976707	-0.525836
## 2346	-2.312612e-01	0.342835166	-0.525836
## 2348	6.937439e-01	-0.569032428	-0.525836
## 2352	7.449772e-03	-0.667994803	-0.525836
## 2353	-4.774319e-01	-0.459466942	-0.525836
## 2354	-1.044460e-01	-0.431898852	-0.525836
## 2355	-4.699722e-01	-0.291937780	-0.525836
## 2356	-2.685598e-01	-0.710407249	-0.525836
## 2357	-4.998111e-01	-0.554894946	1.901100
## 2359	-1.641238e-01	-0.484207536	1.901100
## 2360	2.312503e+00	2.722880273	-0.525836
## 2361	-2.983987e-01	0.095429229	-0.525836
## 2362	-4.998111e-01	-0.639719839	-0.525836
## 2363	-3.580764e-01	-0.300420269	1.901100
## 2364	-4.998111e-01	-0.441795090	-0.525836
## 2365	-3.282376e-01	-0.012015635	-0.525836
## 2366	-3.804556e-01	-0.639719839	-0.525836
## 2367	-1.193654e-01	-0.427657607	1.901100
## 2368	-4.177542e-01	-0.385245161	-0.525836
## 2370	-4.252139e-01	-0.851782070	-0.525836
## 2371	-2.088821e-01	-0.569032428	-0.525836
## 2372	-3.356973e-01	-0.477138795	1.901100
## 2374	-4.923514e-01	-0.151976707	-0.525836
## 2376	-3.506167e-01	2.054884245	-0.525836

## 2377	-4.998111e-01	-0.540757464	1.901100
## 2379	-1.193654e-01	-0.711820997	-0.525836
## 2380	-3.655362e-01	-0.151976707	-0.525836
## 2381	-1.492043e-01	0.533691174	-0.525836
## 2382	-1.641238e-01	1.282977723	-0.525836
## 2383	-4.550528e-01	-0.533688723	-0.525836
## 2384	-9.698629e-02	-0.427657607	1.901100
## 2385	-4.177542e-01	-0.470070054	1.901100
## 2387	-4.774319e-01	-0.459466942	-0.525836
## 2388	-4.923514e-01	-0.653857321	-0.525836
## 2389	-4.848917e-01	-0.603669259	1.901100
## 2390	-2.238015e-01	-0.003533145	-0.525836
## 2392	-4.177542e-01	-0.356970197	1.901100
## 2394	-2.238910e-02	-0.710407249	-0.525836
## 2396	1.118858e-01	-0.356970197	-0.525836
## 2397	-5.072708e-01	1.777789596	-0.525836
## 2400	6.415259e-01	-0.484207536	-0.525836
## 2402	-4.475931e-01	-0.236094725	-0.525836
## 2404	-2.312612e-01	-0.710407249	-0.525836
## 2405	2.193147e+00	2.083159209	-0.525836
## 2406	-4.699722e-01	-0.477138795	-0.525836
## 2407	-2.685598e-01	-0.696269767	-0.525836
## 2408	-2.312612e-01	-0.429071356	1.901100
## 2410	-4.401333e-01	-0.583169910	-0.525836
## 2411	-4.177542e-01	-0.554894946	-0.525836
## 2413	3.356774e-01	-0.378176420	1.901100
## 2414	-1.939626e-01	0.123704193	-0.525836
## 2415	-2.387209e-01	-0.356970197	-0.525836
## 2416	-4.326736e-01	0.250941532	-0.525836
## 2417	-2.685598e-01	-0.512482500	-0.525836
## 2418	-3.729959e-01	-0.201457894	-0.525836
## 2419	-4.774319e-01	-0.356970197	-0.525836
## 2420	-3.730854e-02	0.689203476	-0.525836
## 2422	-2.984882e-02	-0.356970197	-0.525836

## 2423	1.782863e+00	-0.682132285	-0.525836
## 2424	-4.326736e-01	-0.710407249	-0.525836
## 2426	-2.611001e-01	-0.498345018	-0.525836
## 2427	-3.133181e-01	-0.300420269	-0.525836
## 2428	-1.790432e-01	-0.356970197	1.901100
## 2430	-3.804556e-01	0.967711873	-0.525836
## 2433	-4.923514e-01	-0.314557751	-0.525836
## 2434	-4.848917e-01	-0.660926062	1.901100
## 2436	-3.953750e-01	-0.625582356	1.901100
## 2437	7.458724e-02	0.604378584	-0.525836
## 2438	2.222986e+00	2.201914058	-0.525836
## 2439	-2.238015e-01	0.173185381	1.901100
## 2441	1.342650e-01	0.010604337	1.901100
## 2443	-8.952657e-02	-0.300420269	1.901100
## 2444	-4.102945e-01	-0.258007823	-0.525836
## 2445	-4.177542e-01	-0.413520125	-0.525836
## 2448	-2.983987e-01	-0.710407249	-0.525836
## 2449	-2.461807e-01	0.407867583	-0.525836
## 2450	-3.655362e-01	-0.682132285	-0.525836
## 2451	5.893078e-01	-0.364038938	1.901100
## 2452	-5.072708e-01	-0.597307392	1.901100
## 2453	-3.655362e-01	-0.565498058	1.901100
## 2454	-3.729959e-01	-0.625582356	1.901100
## 2456	-4.774319e-01	-0.554894946	-0.525836
## 2458	-3.804556e-01	-0.291937780	-0.525836
## 2460	-4.102945e-01	-0.031808109	1.901100
## 2461	-4.774319e-01	-0.392313902	1.901100
## 2462	-3.879153e-01	-0.102495520	-0.525836
## 2463	-4.401333e-01	-0.385245161	1.901100
## 2469	4.550329e-01	-0.291937780	-0.525836
## 2470	-4.326736e-01	0.095429229	-0.525836
## 2471	-4.177542e-01	0.229735309	-0.525836
## 2473	-4.028348e-01	-0.434726348	-0.525836
## 2474	2.200607e+00	2.722880273	-0.525836

## 2477	-4.923514e-01	-0.484207536	-0.525836
## 2479	-3.879153e-01	-0.597307392	-0.525836
## 2481	-5.072708e-01	-0.597307392	1.901100
## 2482	-2.685598e-01	0.392316353	-0.525836
## 2483	-4.028348e-01	-0.431898852	-0.525836
## 2485	5.966780e-02	0.731615923	-0.525836
## 2488	-4.774319e-01	-0.300420269	1.901100
## 2490	-4.774319e-01	-0.533688723	-0.525836
## 2491	-3.580764e-01	-0.682132285	-0.525836
## 2492	-2.312612e-01	-0.031808109	-0.525836
## 2495	-3.953750e-01	-0.378176420	-0.525836
## 2496	-4.923514e-01	-0.540757464	1.901100
## 2497	-3.580764e-01	0.130772934	1.901100
## 2498	8.950668e-02	0.095429229	-0.525836
## 2499	-3.729959e-01	0.045948042	-0.525836
## 2500	-4.774319e-01	-0.378176420	-0.525836
## 2501	-4.475931e-01	-0.569032428	-0.525836
## 2503	-2.611001e-01	-0.639719839	-0.525836
## 2506	-3.953750e-01	-0.477138795	1.901100
## 2508	3.729760e-01	-0.837644588	-0.525836
## 2509	-3.580764e-01	-0.413520125	1.901100
## 2510	-8.952657e-02	-0.484207536	1.901100
## 2511	-4.102945e-01	0.045948042	-0.525836
## 2513	-3.580764e-01	-0.554894946	-0.525836
## 2514	9.473743e-01	3.905480648	1.901100
## 2515	-2.238910e-02	-0.554894946	1.901100
## 2516	-8.952657e-02	0.024741819	1.901100
## 2517	2.222986e+00	4.647698457	-0.525836
## 2518	-4.550528e-01	-0.590238651	-0.525836
## 2520	-2.088821e-01	0.687789728	-0.525836
## 2521	-2.163418e-01	-0.399382643	-0.525836
## 2522	-2.163418e-01	-0.512482500	-0.525836
## 2523	-1.566640e-01	0.477141245	-0.525836
## 2524	-3.506167e-01	-0.413520125	1.901100

## 2525	-2.685598e-01	-0.427657607	1.901100
## 2526	1.715636e-01	2.732069636	-0.525836
## 2528	-4.699722e-01	-0.385245161	1.901100
## 2529	-4.475931e-01	-0.427657607	-0.525836
## 2531	-4.102945e-01	-0.364038938	1.901100
## 2532	-1.715835e-01	0.038879301	-0.525836
## 2533	-4.177542e-01	-0.470070054	-0.525836
## 2535	-4.401333e-01	0.267906511	-0.525836
## 2537	2.200607e+00	3.403600034	-0.525836
## 2538	-4.102945e-01	-0.356970197	1.901100
## 2539	-3.804556e-01	1.721239668	-0.525836
## 2540	5.370898e-01	-0.300420269	1.901100
## 2542	-2.536404e-01	-0.710407249	-0.525836
## 2545	-3.207778e-01	-0.554894946	-0.525836
## 2546	-5.072708e-01	-0.710407249	-0.525836
## 2547	-3.655362e-01	0.149858535	-0.525836
## 2549	2.193147e+00	3.855999461	-0.525836
## 2552	-4.102945e-01	-0.569032428	-0.525836
## 2553	-4.028348e-01	-0.102495520	1.901100
## 2554	-1.865029e-01	-0.696269767	-0.525836
## 2555	-4.699722e-01	-0.639719839	1.901100
## 2556	-3.804556e-01	-0.144907966	-0.525836
## 2558	-3.655362e-01	-0.710407249	-0.525836
## 2559	2.200607e+00	2.074676719	-0.525836
## 2560	-4.625125e-01	-0.349901456	-0.525836
## 2562	-4.475931e-01	-0.495517521	1.901100
## 2564	-2.163418e-01	0.795234592	-0.525836
## 2567	-4.252139e-01	-0.300420269	-0.525836
## 2569	-3.282376e-01	-0.159045448	-0.525836
## 2570	-5.072708e-01	-0.569032428	-0.525836
## 2571	8.876966e-01	-0.215595376	1.901100
## 2572	2.193147e+00	2.722880273	-0.525836
## 2573	-4.848917e-01	-0.639719839	-0.525836
## 2574	-9.946292e-06	-0.201457894	-0.525836

## 2576	2.290124e+00	1.989851827	-0.525836
## 2577	-3.207778e-01	-0.851782070	-0.525836
## 2578	2.260285e+00	2.397011311	-0.525836
## 2579	-2.387209e-01	-0.441795090	-0.525836
## 2580	3.132982e-01	0.166116640	-0.525836
## 2581	1.133867e+00	-0.229732858	1.901100
## 2582	-4.475931e-01	-0.272145305	-0.525836
## 2584	3.058385e-01	-0.102495520	-0.525836
## 2585	-3.655362e-01	-0.012015635	-0.525836
## 2588	-2.834793e-01	0.127945438	-0.525836
## 2589	-4.774319e-01	-0.229732858	-0.525836
## 2591	-2.387209e-01	0.053016783	-0.525836
## 2592	-1.417446e-01	-0.526619982	-0.525836
## 2593	-1.044460e-01	1.198152831	-0.525836
## 2594	1.417247e-01	-0.431898852	-0.525836
## 2596	-1.417446e-01	0.267906511	-0.525836
## 2597	2.372181e+00	3.855999461	-0.525836
## 2598	-4.475931e-01	-0.151976707	-0.525836
## 2601	-3.431570e-01	-0.745044080	-0.525836
## 2602	-4.177542e-01	-0.455932572	-0.525836
## 2603	-4.699722e-01	-0.229732858	-0.525836
## 2604	-4.475931e-01	0.127945438	-0.525836
## 2605	-3.058584e-01	-0.187320412	1.901100
## 2606	-7.460713e-02	0.166116640	-0.525836
## 2607	6.266064e-01	1.763652114	1.901100
## 2608	-3.133181e-01	-0.851782070	-0.525836
## 2610	-4.923514e-01	-0.851782070	-0.525836
## 2611	-5.222798e-02	0.731615923	-0.525836
## 2612	2.193147e+00	2.201914058	-0.525836
## 2613	-4.848917e-01	-0.569032428	-0.525836
## 2614	-2.163418e-01	0.166116640	1.901100
## 2615	-4.252139e-01	1.523314919	1.901100
## 2616	-1.715835e-01	-0.116633002	-0.525836
## 2617	-3.133181e-01	-0.710407249	-0.525836

## 2619	-3.356973e-01	-0.710407249	-0.525836
## 2620	2.215526e+00	2.201914058	-0.525836
## 2621	-4.625125e-01	-0.540757464	1.901100
## 2622	-4.177542e-01	-0.180958545	-0.525836
## 2624	-2.536404e-01	1.509177437	1.901100
## 2628	-1.119057e-01	0.561966138	-0.525836
## 2629	-5.221903e-01	0.901265707	1.901100
## 2630	2.759996e-01	0.392316353	-0.525836
## 2631	-2.760195e-01	-0.526619982	1.901100
## 2634	1.490949e-02	0.463003763	-0.525836
## 2635	-4.625125e-01	-0.710407249	-0.525836
## 2636	-3.058584e-01	0.576103620	-0.525836
## 2637	2.200607e+00	3.855999461	-0.525836
## 2638	-3.804556e-01	-0.569032428	1.901100
## 2639	-4.625125e-01	-0.696269767	-0.525836
## 2643	-2.163418e-01	0.827750801	-0.525836
## 2644	-4.475931e-01	-0.470070054	1.901100
## 2645	-4.848917e-01	-0.533688723	-0.525836
## 2646	-4.848917e-01	-0.201457894	-0.525836
## 2647	-2.461807e-01	1.424352544	-0.525836
## 2648	2.349801e+00	4.652646575	-0.525836
## 2649	2.193147e+00	2.722880273	-0.525836
## 2650	-8.206685e-02	-0.569032428	-0.525836
## 2651	5.966780e-02	0.827750801	-0.525836
## 2652	-4.475931e-01	-0.060083074	-0.525836
## 2653	-4.998111e-01	-0.597307392	1.901100
## 2654	-4.475931e-01	-0.470070054	1.901100
## 2655	-4.625125e-01	2.111434173	-0.525836
## 2656	-3.207778e-01	-0.693583645	-0.525836
## 2657	5.220808e-02	-0.455932572	-0.525836
## 2658	2.236921e-02	1.527556163	-0.525836
## 2659	4.326537e-01	-0.419881992	1.901100
## 2660	1.044261e-01	-0.540757464	-0.525836
## 2661	-3.431570e-01	-0.385245161	-0.525836

## 2662	-4.102945e-01	-0.571859925	-0.525836
## 2663	-4.401333e-01	-0.484207536	1.901100
## 2665	-2.984882e-02	0.745753405	-0.525836
## 2667	-4.998111e-01	-0.413520125	-0.525836
## 2670	-1.865029e-01	0.300422719	-0.525836
## 2671	-4.774319e-01	-0.710407249	-0.525836
## 2672	1.104028e+00	-0.554894946	-0.525836
## 2673	5.966780e-02	-0.699945512	-0.525836
## 2675	-4.625125e-01	-0.540757464	1.901100
## 2679	1.491844e-01	-0.554894946	1.901100
## 2681	-4.699722e-01	-0.291937780	-0.525836
## 2683	-4.923514e-01	-0.710407249	-0.525836
## 2685	-3.506167e-01	-0.484207536	-0.525836
## 2687	-1.641238e-01	-0.427657607	-0.525836
## 2688	2.379640e+00	0.024741819	-0.525836
## 2690	-1.566640e-01	-0.314557751	-0.525836
## 2692	-5.072708e-01	-0.569032428	-0.525836
## 2695	-9.946292e-06	-0.569032428	-0.525836
## 2696	6.712752e-02	0.491278727	-0.525836
## 2698	9.696640e-02	1.099190456	1.901100
## 2700	-1.715835e-01	-0.569032428	-0.525836
## 2703	-4.923514e-01	-0.427657607	-0.525836
## 2708	-4.252139e-01	-0.710407249	-0.525836
## 2709	1.536692e+00	-0.832696469	-0.525836
## 2710	2.222986e+00	1.803943938	-0.525836
## 2713	-4.998111e-01	-0.258007823	-0.525836
## 2714	-4.774319e-01	-0.554894946	1.901100
## 2715	3.728865e-02	0.491278727	-0.525836
## 2716	-4.475931e-01	-0.710407249	-0.525836
## 2717	-3.058584e-01	-0.187320412	-0.525836
## 2719	-4.625125e-01	-0.017670627	-0.525836
## 2721	-3.431570e-01	-0.569032428	-0.525836
## 2722	2.312413e-01	0.067154265	-0.525836
## 2724	-4.401333e-01	-0.470070054	1.901100

## 2725	-3.207778e-01	0.038879301	-0.525836
## 2726	-4.550528e-01	-0.682132285	-0.525836
## 2727	-4.475931e-01	0.279216496	-0.525836
## 2728	-4.326736e-01	-0.696269767	-0.525836
## 2729	-3.282376e-01	-0.667994803	-0.525836
## 2730	9.696640e-02	-0.074220556	-0.525836
## 2731	-5.222798e-02	-0.710407249	-0.525836
## 2732	2.446778e+00	3.118022896	-0.525836
## 2733	-4.401333e-01	-0.470070054	-0.525836
## 2734	-3.133181e-01	-0.710407249	-0.525836
## 2735	-3.729959e-01	0.081291747	-0.525836
## 2736	2.193147e+00	2.722880273	-0.525836
## 2737	-3.058584e-01	-0.427657607	-0.525836
## 2741	-4.476826e-02	-0.413520125	-0.525836
## 2742	-2.387209e-01	-0.116633002	-0.525836
## 2743	-4.326736e-01	-0.300420269	-0.525836
## 2744	4.102746e-01	0.731615923	-0.525836
## 2746	4.474837e-02	0.137841675	-0.525836
## 2747	8.204696e-02	-0.569032428	-0.525836
## 2749	-3.580764e-01	-0.399382643	-0.525836
## 2750	-4.401333e-01	-0.583169910	-0.525836
## 2751	-5.072708e-01	-0.639719839	-0.525836
## 2752	-3.879153e-01	-0.455932572	-0.525836
## 2754	-4.625125e-01	-0.569032428	-0.525836
## 2756	-9.946292e-06	0.731615923	-0.525836
## 2757	-4.475931e-01	-0.540757464	1.901100
## 2758	-4.326736e-01	-0.335763974	-0.525836
## 2760	-4.476826e-02	-0.098961149	1.901100
## 2761	-4.102945e-01	-0.265076564	-0.525836
## 2763	2.685399e-01	-0.556732819	1.901100
## 2764	-1.119057e-01	1.077984233	-0.525836
## 2765	-3.655362e-01	-0.102495520	1.901100
## 2767	-1.641238e-01	-0.569032428	-0.525836
## 2768	-3.953750e-01	-0.427657607	-0.525836

## 2769	2.319963e+00	0.180254122	-0.525836
## 2770	8.951563e-01	-0.540757464	-0.525836
## 2771	6.712752e-02	0.279216496	-0.525836
## 2773	-2.909390e-01	-0.539343716	1.901100
## 2774	1.738104e+00	0.335766424	-0.525836
## 2776	-1.865029e-01	-0.667994803	-0.525836
## 2777	-3.133181e-01	-0.455932572	1.901100
## 2778	-2.312612e-01	-0.710407249	-0.525836
## 2779	4.774120e-01	-0.012015635	-0.525836
## 2781	-3.953750e-01	-0.314557751	-0.525836
## 2782	3.580565e-01	-0.455932572	-0.525836
## 2784	-3.356973e-01	-0.291937780	-0.525836
## 2787	-2.685598e-01	1.107672946	-0.525836
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## 2790	-3.655362e-01	0.250941532	-0.525836
## 2791	-4.401333e-01	-0.486045408	1.901100
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## 2794	-5.072708e-01	-0.597307392	1.901100
## 2795	-3.655362e-01	-0.286282787	-0.525836
## 2798	-3.655362e-01	2.069021727	-0.525836
## 2799	-2.685598e-01	-0.291937780	-0.525836
## 2800	-1.641238e-01	0.131479809	1.901100
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## 2813	-2.238015e-01	-0.300420269	-0.525836
## 2814	2.603432e+00	2.722880273	-0.525836
## 2815	1.148787e+00	0.127945438	-0.525836
## 2816	-4.550528e-01	-0.540757464	1.901100
## 2817	-3.729959e-01	-0.455932572	1.901100
## 2818	-3.879153e-01	-0.569032428	-0.525836
## 2820	-3.729959e-01	-0.526619982	1.901100

## 2821	4.251940e-01	-0.625582356	-0.525836
## 2822	-4.326736e-01	-0.116633002	-0.525836
## 2823	2.200607e+00	2.722880273	-0.525836
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## 2826	-1.119057e-01	-0.710407249	-0.525836
## 2827	-1.566640e-01	-0.625582356	-0.525836
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## 2831	2.610802e-01	-0.611444874	-0.525836
## 2832	-3.207778e-01	-0.455932572	1.901100
## 2833	-3.058584e-01	0.127945438	-0.525836
## 2834	-4.923514e-01	-0.710407249	-0.525836
## 2835	-3.058584e-01	0.300422719	-0.525836
## 2837	-2.685598e-01	1.466764990	1.901100
## 2838	2.222986e+00	-0.526619982	1.901100
## 2839	-3.730854e-02	-0.583169910	-0.525836
## 2840	-3.953750e-01	0.392316353	-0.525836
## 2843	-3.580764e-01	1.905026935	-0.525836
## 2845	-3.356973e-01	0.420591317	-0.525836
## 2846	3.364332e+01	-0.847258075	-0.525836
## 2847	-2.760195e-01	-0.498345018	-0.525836
## 2848	-3.356973e-01	-0.554894946	-0.525836
## 2850	2.200607e+00	2.040746762	-0.525836
## 2852	-4.550528e-01	-0.597307392	1.901100
## 2853	6.415259e-01	0.045948042	-0.525836
## 2855	-5.072708e-01	-0.653857321	-0.525836
## 2856	-4.401333e-01	-0.569032428	1.901100
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## 2864	2.200607e+00	2.534144887	-0.525836
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## 2867	-3.953750e-01	-0.441795090	-0.525836
## 2868	-5.072708e-01	-0.187320412	-0.525836
## 2869	-2.014223e-01	-0.498345018	-0.525836
## 2870	-1.342849e-01	-0.477138795	1.901100
## 2871	-2.014223e-01	-0.851782070	-0.525836
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## 2875	-3.729959e-01	-0.470070054	-0.525836
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## 2878	-3.133181e-01	0.407867583	-0.525836
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## 2880	2.982893e-02	-0.356970197	1.901100
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## 2885	-4.401333e-01	-0.385245161	-0.525836
## 2887	-4.923514e-01	-0.300420269	-0.525836
## 2888	-3.282376e-01	-0.569032428	-0.525836
## 2889	2.222986e+00	2.201914058	-0.525836
## 2890	-5.968770e-02	0.547828656	-0.525836
## 2891	-4.326736e-01	-0.159045448	-0.525836
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## 2893	2.193147e+00	2.722880273	-0.525836
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## 2895	-3.804556e-01	-0.569032428	-0.525836
## 2896	-4.326736e-01	-0.583169910	-0.525836
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## 2901	-3.431570e-01	-0.378176420	1.901100
## 2903	-2.163418e-01	-0.208526635	1.901100
## 2904	-1.939626e-01	-0.639719839	1.901100
## 2905	8.727771e-01	-0.300420269	-0.525836
## 2906	-2.238015e-01	0.731615923	-0.525836
## 2907	2.237906e+00	2.722880273	-0.525836
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## 2909	-5.072708e-01	-0.711820997	-0.525836
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## 2912	-4.252139e-01	-0.590238651	-0.525836
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## 2914	-3.058584e-01	-0.166114189	-0.525836
## 2916	-5.072708e-01	-0.709841750	-0.525836
## 2918	-3.058584e-01	-0.427657607	-0.525836
## 2920	-4.774319e-01	-0.851782070	-0.525836
## 2921	-5.147305e-01	-0.413520125	1.901100
## 2922	-2.984882e-02	-0.710407249	-0.525836
## 2923	2.461608e-01	-0.356970197	-0.525836
## 2924	-9.698629e-02	-0.328695233	-0.525836
## 2925	2.215526e+00	2.722880273	-0.525836
## 2926	-1.492043e-01	-0.003533145	-0.525836
## 2927	-3.580764e-01	-0.427657607	-0.525836
## 2928	-3.655362e-01	-0.512482500	1.901100
## 2929	-4.625125e-01	-0.151976707	-0.525836
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## 2931	-3.879153e-01	-0.470070054	-0.525836
## 2933	2.215526e+00	2.201914058	-0.525836
## 2934	-3.207778e-01	-0.498345018	-0.525836
## 2935	-4.102945e-01	-0.639719839	1.901100
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## 2940	-2.834793e-01	-0.378176420	1.901100
## 2941	-4.625125e-01	-0.710407249	-0.525836
## 2943	-2.461807e-01	-0.571859925	-0.525836
## 2945	2.222986e+00	3.720279633	-0.525836
## 2946	-4.028348e-01	-0.187320412	1.901100
## 2947	2.208067e+00	2.201914058	-0.525836
## 2948	-4.475931e-01	-0.455932572	-0.525836
## 2950	-2.685598e-01	-0.173182930	1.901100

## 2954	-7.460713e-02	-0.385245161	1.901100
## 2955	-4.625125e-01	-0.470070054	1.901100
## 2956	-3.804556e-01	0.166116640	-0.525836
## 2957	-5.222798e-02	-0.526619982	-0.525836
## 2959	-4.252139e-01	-0.554894946	1.901100
## 2961	-2.685598e-01	-0.639719839	1.901100
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## 2964	-4.625125e-01	-0.625582356	1.901100
## 2965	-4.252139e-01	-0.554894946	-0.525836
## 2966	-2.163418e-01	0.166116640	-0.525836
## 2967	-3.729959e-01	-0.851782070	-0.525836
## 2968	-2.088821e-01	-0.031808109	-0.525836
## 2969	-2.760195e-01	-0.031808109	1.901100
## 2970	-2.312612e-01	-0.540757464	1.901100
## 2974	2.610802e-01	-0.570870301	-0.525836
## 2976	-4.252139e-01	-0.660926062	1.901100
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## 2979	2.260285e+00	3.855999461	-0.525836
## 2980	-4.550528e-01	-0.851782070	-0.525836
## 2981	-4.625125e-01	-0.291937780	-0.525836
## 2982	2.282664e+00	2.722880273	-0.525836
## 2985	-5.147305e-01	-0.569032428	-0.525836
## 2986	-2.685598e-01	-0.583169910	-0.525836
## 2987	6.266064e-01	1.226427795	-0.525836
## 2988	-4.102945e-01	-0.003533145	1.901100
## 2989	-3.879153e-01	-0.342832715	-0.525836
## 2992	2.319963e+00	1.879579467	-0.525836
## 2994	1.223384e+00	-0.710407249	-0.525836
## 2995	2.581053e+00	3.211330278	-0.525836
## 2996	2.193147e+00	2.770240837	-0.525836
## 2997	-4.848917e-01	-0.088358038	-0.525836
## 2998	-1.193654e-01	-0.455932572	-0.525836
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## 197	-0.5402706	-0.7805376
## 199	-0.5402706	1.2807412
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## 1607	-0.5402706	-0.7805376
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## 1646	-0.5402706	-0.7805376
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## 1823	-0.5402706	1.2807412
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## 1829	-0.5402706	1.2807412
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## 1832	-0.5402706	1.2807412
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# # 1863	-0.5402706	1.2807412
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# # 1890	-0.5402706	1.2807412
# # 1891	1.8503073	-0.7805376
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# # 1902	-0.5402706	1.2807412

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## 1908	-0.5402706	-0.7805376
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## 1910	1.8503073	-0.7805376
## 1911	-0.5402706	1.2807412
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## 1918	-0.5402706	-0.7805376
## 1919	-0.5402706	-0.7805376
## 1920	-0.5402706	1.2807412
## 1921	1.8503073	-0.7805376
## 1923	-0.5402706	1.2807412
## 1924	-0.5402706	-0.7805376
## 1925	1.8503073	-0.7805376
## 1927	-0.5402706	-0.7805376
## 1929	-0.5402706	1.2807412
## 1930	-0.5402706	-0.7805376
## 1932	-0.5402706	-0.7805376
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## 1943	-0.5402706	-0.7805376
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## 1945	-0.5402706	1.2807412
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## 1954	-0.5402706	1.2807412
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## 1956	-0.5402706	-0.7805376
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## 1958	-0.5402706	-0.7805376
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## 1965	1.8503073	-0.7805376
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## 1970	1.8503073	-0.7805376
## 1971	1.8503073	-0.7805376
## 1972	-0.5402706	1.2807412
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## 1986	-0.5402706	1.2807412
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## 1990	1.8503073	-0.7805376
## 1991	-0.5402706	1.2807412
## 1994	-0.5402706	1.2807412
## 1995	1.8503073	-0.7805376
## 1997	-0.5402706	1.2807412
## 1998	-0.5402706	-0.7805376
## 2002	-0.5402706	-0.7805376

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## 2006	1.8503073	-0.7805376
## 2007	1.8503073	-0.7805376
## 2008	-0.5402706	-0.7805376
## 2009	-0.5402706	1.2807412
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## 2013	-0.5402706	-0.7805376
## 2017	-0.5402706	1.2807412
## 2018	-0.5402706	1.2807412
## 2019	1.8503073	-0.7805376
## 2020	-0.5402706	-0.7805376
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## 2022	-0.5402706	-0.7805376
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## 2025	-0.5402706	-0.7805376
## 2026	-0.5402706	-0.7805376
## 2027	-0.5402706	-0.7805376
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## 2029	-0.5402706	1.2807412
## 2030	-0.5402706	1.2807412
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## 2032	-0.5402706	1.2807412
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## 2034	-0.5402706	1.2807412
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## 2039	-0.5402706	1.2807412
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## 2053	-0.5402706	1.2807412
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## 2078	-0.5402706	-0.7805376
## 2081	1.8503073	-0.7805376
## 2082	-0.5402706	-0.7805376
## 2083	1.8503073	-0.7805376
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## 2093	-0.5402706	-0.7805376
## 2094	-0.5402706	-0.7805376
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## 2110	1.8503073	-0.7805376
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# # 2250	-0.5402706	1.2807412
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# # 2252	-0.5402706	1.2807412
# # 2253	-0.5402706	1.2807412
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## 2406	-0.5402706	-0.7805376
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## 2454	-0.5402706	-0.7805376
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## 2582	-0.5402706	-0.7805376

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## 2728	1.8503073	-0.7805376
## 2729	1.8503073	-0.7805376
## 2730	1.8503073	-0.7805376
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## 2774	-0.5402706	1.2807412
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## 2994	1.8503073	-0.7805376
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## 10	-0.1941408	-0.3454898
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## 13	-0.1941408	-0.4073068	-0.3454898
## 15	-0.1941408	-0.4073068	-0.3454898
## 16	-0.1941408	2.4543334	-0.3454898
## 18	-0.1941408	-0.4073068	2.8934769
## 21	-0.1941408	-0.4073068	-0.3454898
## 22	5.1491839	-0.4073068	-0.3454898
## 23	-0.1941408	2.4543334	-0.3454898
## 24	-0.1941408	-0.4073068	-0.3454898
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## 27	-0.1941408	-0.4073068	-0.3454898
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## 29	-0.1941408	-0.4073068	-0.3454898
## 30	-0.1941408	-0.4073068	2.8934769
## 31	-0.1941408	-0.4073068	-0.3454898
## 32	-0.1941408	-0.4073068	-0.3454898
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## 39	-0.1941408	-0.4073068	-0.3454898
## 40	-0.1941408	-0.4073068	-0.3454898
## 41	5.1491839	-0.4073068	-0.3454898
## 44	-0.1941408	-0.4073068	-0.3454898
## 45	-0.1941408	-0.4073068	-0.3454898
## 47	-0.1941408	2.4543334	-0.3454898
## 49	-0.1941408	-0.4073068	-0.3454898
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# # 702	-0.1941408	-0.4073068	-0.3454898
# # 704	-0.1941408	-0.4073068	-0.3454898
# # 705	-0.1941408	-0.4073068	-0.3454898
# # 706	-0.1941408	-0.4073068	2.8934769
# # 707	-0.1941408	2.4543334	-0.3454898
# # 711	-0.1941408	-0.4073068	2.8934769
# # 712	-0.1941408	-0.4073068	-0.3454898
# # 713	-0.1941408	-0.4073068	-0.3454898
# # 714	-0.1941408	-0.4073068	-0.3454898
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# # 716	-0.1941408	-0.4073068	2.8934769
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# # 719	-0.1941408	-0.4073068	-0.3454898
# # 720	-0.1941408	-0.4073068	-0.3454898
# # 721	-0.1941408	-0.4073068	-0.3454898
# # 722	-0.1941408	2.4543334	-0.3454898
# # 723	-0.1941408	-0.4073068	-0.3454898
# # 724	-0.1941408	2.4543334	-0.3454898

## 725	-0.1941408	-0.4073068	-0.3454898
## 726	-0.1941408	-0.4073068	-0.3454898
## 727	-0.1941408	-0.4073068	-0.3454898
## 729	-0.1941408	2.4543334	-0.3454898
## 730	-0.1941408	-0.4073068	-0.3454898
## 732	-0.1941408	-0.4073068	-0.3454898
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## 740	-0.1941408	-0.4073068	-0.3454898
## 742	-0.1941408	-0.4073068	-0.3454898
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## 747	-0.1941408	-0.4073068	-0.3454898
## 748	-0.1941408	-0.4073068	-0.3454898
## 749	-0.1941408	-0.4073068	2.8934769
## 750	-0.1941408	-0.4073068	-0.3454898
## 751	-0.1941408	-0.4073068	-0.3454898
## 752	-0.1941408	2.4543334	-0.3454898
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## 757	-0.1941408	-0.4073068	-0.3454898
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## 765	-0.1941408	-0.4073068	-0.3454898
## 769	-0.1941408	-0.4073068	2.8934769
## 770	-0.1941408	2.4543334	-0.3454898
## 772	-0.1941408	-0.4073068	-0.3454898
## 773	-0.1941408	-0.4073068	-0.3454898

# # 774	-0.1941408	-0.4073068	-0.3454898
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# # 777	-0.1941408	-0.4073068	-0.3454898
# # 778	-0.1941408	-0.4073068	-0.3454898
# # 779	-0.1941408	-0.4073068	-0.3454898
# # 780	-0.1941408	-0.4073068	-0.3454898
# # 781	-0.1941408	-0.4073068	-0.3454898
# # 782	-0.1941408	-0.4073068	-0.3454898
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# # 784	-0.1941408	-0.4073068	-0.3454898
# # 785	-0.1941408	-0.4073068	-0.3454898
# # 788	5.1491839	-0.4073068	-0.3454898
# # 789	-0.1941408	-0.4073068	-0.3454898
# # 790	-0.1941408	2.4543334	-0.3454898
# # 791	-0.1941408	-0.4073068	2.8934769
# # 792	-0.1941408	-0.4073068	-0.3454898
# # 793	-0.1941408	2.4543334	-0.3454898
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# # 795	-0.1941408	-0.4073068	-0.3454898
# # 796	5.1491839	-0.4073068	2.8934769
# # 797	5.1491839	-0.4073068	-0.3454898
# # 798	-0.1941408	-0.4073068	2.8934769
# # 799	-0.1941408	-0.4073068	2.8934769
# # 800	-0.1941408	-0.4073068	-0.3454898
# # 803	-0.1941408	-0.4073068	-0.3454898
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# # 810	-0.1941408	-0.4073068	-0.3454898
# # 811	5.1491839	-0.4073068	-0.3454898
# # 814	-0.1941408	-0.4073068	-0.3454898
# # 815	-0.1941408	2.4543334	-0.3454898
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# # 830	-0.1941408	2.4543334	-0.3454898
# # 831	-0.1941408	2.4543334	-0.3454898
# # 832	-0.1941408	-0.4073068	-0.3454898
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# # 845	-0.1941408	-0.4073068	-0.3454898
# # 846	-0.1941408	2.4543334	-0.3454898
# # 847	-0.1941408	-0.4073068	2.8934769
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# # 849	-0.1941408	-0.4073068	-0.3454898
# # 851	-0.1941408	2.4543334	-0.3454898
# # 852	-0.1941408	2.4543334	-0.3454898
# # 855	-0.1941408	-0.4073068	-0.3454898
# # 858	-0.1941408	-0.4073068	2.8934769
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# # 860	-0.1941408	-0.4073068	-0.3454898
# # 862	-0.1941408	-0.4073068	2.8934769
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# # 864	-0.1941408	-0.4073068	-0.3454898
# # 866	-0.1941408	2.4543334	-0.3454898
# # 867	-0.1941408	-0.4073068	-0.3454898
# # 868	-0.1941408	-0.4073068	-0.3454898

# # 869	-0.1941408	-0.4073068	2.8934769
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# # 876	-0.1941408	2.4543334	-0.3454898
# # 877	-0.1941408	2.4543334	-0.3454898
# # 878	-0.1941408	-0.4073068	2.8934769
# # 879	-0.1941408	-0.4073068	-0.3454898
# # 880	-0.1941408	2.4543334	-0.3454898
# # 881	-0.1941408	-0.4073068	-0.3454898
# # 886	-0.1941408	-0.4073068	-0.3454898
# # 887	-0.1941408	-0.4073068	-0.3454898
# # 888	5.1491839	-0.4073068	-0.3454898
# # 890	-0.1941408	-0.4073068	-0.3454898
# # 892	-0.1941408	-0.4073068	-0.3454898
# # 893	-0.1941408	2.4543334	-0.3454898
# # 895	-0.1941408	-0.4073068	-0.3454898
# # 897	-0.1941408	-0.4073068	-0.3454898
# # 898	-0.1941408	-0.4073068	-0.3454898
# # 899	-0.1941408	-0.4073068	-0.3454898
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# # 903	-0.1941408	-0.4073068	-0.3454898
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# # 905	-0.1941408	-0.4073068	-0.3454898
# # 906	-0.1941408	-0.4073068	-0.3454898
# # 907	-0.1941408	-0.4073068	-0.3454898
# # 909	-0.1941408	-0.4073068	2.8934769
# # 911	-0.1941408	-0.4073068	-0.3454898
# # 912	-0.1941408	2.4543334	-0.3454898
# # 913	-0.1941408	-0.4073068	-0.3454898
# # 914	-0.1941408	-0.4073068	-0.3454898
# # 915	-0.1941408	2.4543334	-0.3454898
# # 917	-0.1941408	-0.4073068	-0.3454898
# # 919	-0.1941408	-0.4073068	-0.3454898
# # 921	-0.1941408	-0.4073068	-0.3454898

# # 922	-0.1941408	-0.4073068	2.8934769
# # 923	-0.1941408	2.4543334	-0.3454898
# # 924	-0.1941408	-0.4073068	-0.3454898
# # 925	-0.1941408	-0.4073068	-0.3454898
# # 927	-0.1941408	-0.4073068	-0.3454898
# # 928	-0.1941408	-0.4073068	-0.3454898
# # 929	-0.1941408	-0.4073068	-0.3454898
# # 932	-0.1941408	-0.4073068	-0.3454898
# # 933	-0.1941408	2.4543334	-0.3454898
# # 935	-0.1941408	-0.4073068	-0.3454898
# # 936	-0.1941408	-0.4073068	-0.3454898
# # 937	-0.1941408	-0.4073068	-0.3454898
# # 939	-0.1941408	-0.4073068	-0.3454898
# # 940	-0.1941408	-0.4073068	-0.3454898
# # 941	-0.1941408	-0.4073068	-0.3454898
# # 942	5.1491839	-0.4073068	-0.3454898
# # 946	-0.1941408	-0.4073068	-0.3454898
# # 947	-0.1941408	2.4543334	-0.3454898
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# # 950	-0.1941408	-0.4073068	-0.3454898
# # 952	-0.1941408	-0.4073068	-0.3454898
# # 957	-0.1941408	-0.4073068	-0.3454898
# # 958	-0.1941408	-0.4073068	-0.3454898
# # 960	5.1491839	-0.4073068	-0.3454898
# # 961	-0.1941408	-0.4073068	-0.3454898
# # 962	-0.1941408	2.4543334	-0.3454898
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# # 964	-0.1941408	-0.4073068	2.8934769
# # 965	-0.1941408	-0.4073068	-0.3454898
# # 966	-0.1941408	2.4543334	-0.3454898
# # 967	-0.1941408	-0.4073068	-0.3454898
# # 968	-0.1941408	-0.4073068	-0.3454898
# # 969	-0.1941408	-0.4073068	-0.3454898
# # 971	-0.1941408	-0.4073068	-0.3454898

# # 975	-0.1941408	-0.4073068	-0.3454898
# # 977	-0.1941408	2.4543334	-0.3454898
# # 978	-0.1941408	-0.4073068	-0.3454898
# # 979	-0.1941408	-0.4073068	-0.3454898
# # 981	-0.1941408	2.4543334	-0.3454898
# # 982	-0.1941408	-0.4073068	-0.3454898
# # 983	-0.1941408	-0.4073068	-0.3454898
# # 984	-0.1941408	-0.4073068	-0.3454898
# # 985	-0.1941408	-0.4073068	2.8934769
# # 988	-0.1941408	-0.4073068	-0.3454898
# # 989	-0.1941408	-0.4073068	-0.3454898
# # 990	-0.1941408	-0.4073068	-0.3454898
# # 991	-0.1941408	-0.4073068	-0.3454898
# # 992	-0.1941408	-0.4073068	-0.3454898
# # 993	-0.1941408	-0.4073068	-0.3454898
# # 994	-0.1941408	-0.4073068	-0.3454898
# # 995	-0.1941408	-0.4073068	-0.3454898
# # 996	-0.1941408	-0.4073068	-0.3454898
# # 997	-0.1941408	-0.4073068	-0.3454898
# # 999	-0.1941408	2.4543334	-0.3454898
# # 1000	-0.1941408	2.4543334	-0.3454898
# # 1001	-0.1941408	2.4543334	-0.3454898
# # 1002	-0.1941408	-0.4073068	-0.3454898
# # 1004	-0.1941408	-0.4073068	-0.3454898
# # 1006	-0.1941408	-0.4073068	-0.3454898
# # 1007	-0.1941408	-0.4073068	-0.3454898
# # 1008	-0.1941408	-0.4073068	-0.3454898
# # 1009	-0.1941408	-0.4073068	-0.3454898
# # 1010	-0.1941408	-0.4073068	-0.3454898
# # 1011	-0.1941408	-0.4073068	-0.3454898
# # 1012	-0.1941408	-0.4073068	-0.3454898
# # 1013	-0.1941408	2.4543334	-0.3454898
# # 1014	-0.1941408	-0.4073068	-0.3454898
# # 1016	-0.1941408	-0.4073068	2.8934769

# # 1017	-0.1941408	2.4543334	-0.3454898
# # 1018	-0.1941408	-0.4073068	-0.3454898
# # 1020	-0.1941408	-0.4073068	-0.3454898
# # 1023	-0.1941408	-0.4073068	-0.3454898
# # 1024	-0.1941408	-0.4073068	2.8934769
# # 1025	-0.1941408	-0.4073068	-0.3454898
# # 1032	-0.1941408	-0.4073068	-0.3454898
# # 1033	-0.1941408	-0.4073068	2.8934769
# # 1034	-0.1941408	-0.4073068	-0.3454898
# # 1035	-0.1941408	-0.4073068	-0.3454898
# # 1039	-0.1941408	-0.4073068	-0.3454898
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# # 1044	-0.1941408	-0.4073068	-0.3454898
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# # 1046	-0.1941408	-0.4073068	-0.3454898
# # 1049	-0.1941408	-0.4073068	-0.3454898
# # 1050	-0.1941408	2.4543334	-0.3454898
# # 1051	-0.1941408	-0.4073068	-0.3454898
# # 1055	-0.1941408	-0.4073068	-0.3454898
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# # 1057	-0.1941408	-0.4073068	-0.3454898
# # 1058	-0.1941408	-0.4073068	-0.3454898
# # 1059	-0.1941408	-0.4073068	-0.3454898
# # 1061	-0.1941408	-0.4073068	-0.3454898
# # 1062	-0.1941408	2.4543334	-0.3454898
# # 1063	-0.1941408	2.4543334	-0.3454898
# # 1064	-0.1941408	2.4543334	-0.3454898
# # 1065	5.1491839	-0.4073068	-0.3454898
# # 1066	-0.1941408	2.4543334	-0.3454898
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# # 1074	-0.1941408	-0.4073068	-0.3454898
# # 1075	-0.1941408	-0.4073068	-0.3454898
# # 1080	5.1491839	-0.4073068	2.8934769

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## 1082	-0.1941408	2.4543334	-0.3454898
## 1086	-0.1941408	-0.4073068	-0.3454898
## 1087	-0.1941408	2.4543334	-0.3454898
## 1088	5.1491839	-0.4073068	-0.3454898
## 1091	-0.1941408	-0.4073068	-0.3454898
## 1092	-0.1941408	-0.4073068	-0.3454898
## 1093	-0.1941408	-0.4073068	-0.3454898
## 1095	-0.1941408	-0.4073068	-0.3454898
## 1096	-0.1941408	-0.4073068	-0.3454898
## 1098	-0.1941408	-0.4073068	2.8934769
## 1099	-0.1941408	-0.4073068	-0.3454898
## 1100	-0.1941408	-0.4073068	-0.3454898
## 1102	-0.1941408	-0.4073068	-0.3454898
## 1104	-0.1941408	-0.4073068	2.8934769
## 1105	-0.1941408	-0.4073068	-0.3454898
## 1107	-0.1941408	-0.4073068	-0.3454898
## 1108	5.1491839	-0.4073068	-0.3454898
## 1110	-0.1941408	-0.4073068	-0.3454898
## 1111	5.1491839	-0.4073068	-0.3454898
## 1112	-0.1941408	-0.4073068	-0.3454898
## 1113	-0.1941408	-0.4073068	-0.3454898
## 1114	-0.1941408	-0.4073068	-0.3454898
## 1115	-0.1941408	-0.4073068	-0.3454898
## 1117	-0.1941408	-0.4073068	-0.3454898
## 1118	-0.1941408	2.4543334	-0.3454898
## 1119	-0.1941408	-0.4073068	-0.3454898
## 1121	-0.1941408	2.4543334	-0.3454898
## 1122	-0.1941408	2.4543334	-0.3454898
## 1127	-0.1941408	-0.4073068	-0.3454898
## 1129	-0.1941408	-0.4073068	-0.3454898
## 1130	-0.1941408	-0.4073068	2.8934769
## 1131	-0.1941408	-0.4073068	-0.3454898
## 1132	-0.1941408	-0.4073068	2.8934769

## 1134	-0.1941408	-0.4073068	-0.3454898
## 1135	-0.1941408	-0.4073068	-0.3454898
## 1136	-0.1941408	-0.4073068	-0.3454898
## 1137	-0.1941408	-0.4073068	-0.3454898
## 1138	-0.1941408	-0.4073068	-0.3454898
## 1141	-0.1941408	-0.4073068	-0.3454898
## 1142	-0.1941408	-0.4073068	-0.3454898
## 1143	-0.1941408	-0.4073068	-0.3454898
## 1144	-0.1941408	-0.4073068	-0.3454898
## 1145	-0.1941408	-0.4073068	2.8934769
## 1146	-0.1941408	2.4543334	-0.3454898
## 1147	-0.1941408	-0.4073068	-0.3454898
## 1148	-0.1941408	-0.4073068	-0.3454898
## 1150	-0.1941408	-0.4073068	-0.3454898
## 1152	-0.1941408	-0.4073068	-0.3454898
## 1153	-0.1941408	-0.4073068	2.8934769
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## 1641	-0.1941408	-0.4073068	-0.3454898
## 1643	-0.1941408	-0.4073068	-0.3454898
## 1644	-0.1941408	-0.4073068	-0.3454898
## 1645	-0.1941408	2.4543334	-0.3454898
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## 1675	-0.1941408	-0.4073068	-0.3454898
## 1677	-0.1941408	-0.4073068	-0.3454898
## 1679	-0.1941408	-0.4073068	-0.3454898

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## 1691	-0.1941408	2.4543334	-0.3454898
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## 1696	-0.1941408	2.4543334	-0.3454898
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## 1699	-0.1941408	-0.4073068	-0.3454898
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## 1704	-0.1941408	-0.4073068	-0.3454898
## 1705	-0.1941408	-0.4073068	-0.3454898
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## 1727	-0.1941408	-0.4073068	-0.3454898
## 1728	-0.1941408	-0.4073068	2.8934769
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## 1733	-0.1941408	-0.4073068	-0.3454898
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## 1738	-0.1941408	-0.4073068	2.8934769
## 1739	-0.1941408	-0.4073068	-0.3454898
## 1740	-0.1941408	-0.4073068	-0.3454898
## 1741	-0.1941408	-0.4073068	-0.3454898
## 1743	5.1491839	-0.4073068	-0.3454898
## 1745	-0.1941408	2.4543334	-0.3454898
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## 1749	-0.1941408	-0.4073068	-0.3454898
## 1750	-0.1941408	-0.4073068	-0.3454898
## 1751	-0.1941408	-0.4073068	-0.3454898
## 1752	-0.1941408	2.4543334	-0.3454898
## 1753	5.1491839	-0.4073068	-0.3454898
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## 1756	-0.1941408	-0.4073068	-0.3454898
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## 1761	-0.1941408	-0.4073068	-0.3454898
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## 1765	-0.1941408	-0.4073068	-0.3454898
## 1767	-0.1941408	-0.4073068	2.8934769
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# # 1774	-0.1941408	2.4543334	-0.3454898
# # 1775	-0.1941408	-0.4073068	-0.3454898
# # 1777	-0.1941408	2.4543334	-0.3454898
# # 1778	-0.1941408	-0.4073068	-0.3454898
# # 1779	-0.1941408	-0.4073068	-0.3454898
# # 1780	-0.1941408	-0.4073068	-0.3454898
# # 1781	-0.1941408	-0.4073068	2.8934769
# # 1783	-0.1941408	-0.4073068	-0.3454898
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# # 1785	-0.1941408	-0.4073068	-0.3454898
# # 1786	-0.1941408	-0.4073068	-0.3454898
# # 1787	5.1491839	-0.4073068	-0.3454898
# # 1788	-0.1941408	2.4543334	-0.3454898
# # 1789	-0.1941408	-0.4073068	-0.3454898
# # 1791	-0.1941408	-0.4073068	2.8934769
# # 1793	-0.1941408	-0.4073068	-0.3454898
# # 1796	-0.1941408	-0.4073068	-0.3454898
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# # 1799	-0.1941408	-0.4073068	-0.3454898
# # 1800	-0.1941408	-0.4073068	2.8934769
# # 1801	-0.1941408	-0.4073068	-0.3454898
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# # 1803	-0.1941408	-0.4073068	-0.3454898
# # 1804	-0.1941408	-0.4073068	-0.3454898
# # 1805	-0.1941408	-0.4073068	-0.3454898
# # 1806	-0.1941408	2.4543334	-0.3454898
# # 1807	-0.1941408	-0.4073068	-0.3454898
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## 1823	-0.1941408	-0.4073068	-0.3454898
## 1824	-0.1941408	-0.4073068	-0.3454898
## 1825	-0.1941408	-0.4073068	-0.3454898
## 1826	-0.1941408	-0.4073068	-0.3454898
## 1828	-0.1941408	2.4543334	-0.3454898
## 1829	-0.1941408	-0.4073068	2.8934769
## 1830	-0.1941408	2.4543334	-0.3454898
## 1832	-0.1941408	-0.4073068	-0.3454898
## 1834	-0.1941408	-0.4073068	2.8934769
## 1835	5.1491839	-0.4073068	2.8934769
## 1838	-0.1941408	-0.4073068	-0.3454898
## 1839	-0.1941408	-0.4073068	-0.3454898
## 1840	-0.1941408	-0.4073068	-0.3454898
## 1841	-0.1941408	-0.4073068	-0.3454898
## 1842	-0.1941408	-0.4073068	2.8934769
## 1843	-0.1941408	2.4543334	-0.3454898
## 1844	-0.1941408	-0.4073068	-0.3454898
## 1846	-0.1941408	2.4543334	-0.3454898
## 1847	-0.1941408	-0.4073068	-0.3454898
## 1848	-0.1941408	-0.4073068	-0.3454898
## 1850	-0.1941408	2.4543334	-0.3454898
## 1852	-0.1941408	-0.4073068	-0.3454898
## 1853	-0.1941408	-0.4073068	-0.3454898
## 1856	-0.1941408	-0.4073068	2.8934769
## 1858	-0.1941408	-0.4073068	-0.3454898
## 1859	-0.1941408	-0.4073068	2.8934769
## 1861	-0.1941408	-0.4073068	2.8934769
## 1862	-0.1941408	-0.4073068	-0.3454898
## 1863	-0.1941408	-0.4073068	-0.3454898
## 1864	-0.1941408	-0.4073068	-0.3454898

# # 1865	-0.1941408	-0.4073068	-0.3454898
# # 1867	-0.1941408	-0.4073068	-0.3454898
# # 1868	-0.1941408	-0.4073068	-0.3454898
# # 1869	-0.1941408	-0.4073068	-0.3454898
# # 1870	-0.1941408	-0.4073068	-0.3454898
# # 1872	-0.1941408	-0.4073068	-0.3454898
# # 1873	-0.1941408	2.4543334	-0.3454898
# # 1875	-0.1941408	-0.4073068	-0.3454898
# # 1876	-0.1941408	-0.4073068	-0.3454898
# # 1877	-0.1941408	-0.4073068	-0.3454898
# # 1878	-0.1941408	-0.4073068	2.8934769
# # 1879	-0.1941408	-0.4073068	-0.3454898
# # 1880	-0.1941408	-0.4073068	-0.3454898
# # 1881	-0.1941408	-0.4073068	-0.3454898
# # 1885	-0.1941408	-0.4073068	2.8934769
# # 1887	-0.1941408	-0.4073068	2.8934769
# # 1890	-0.1941408	-0.4073068	-0.3454898
# # 1891	-0.1941408	-0.4073068	-0.3454898
# # 1892	-0.1941408	-0.4073068	-0.3454898
# # 1894	-0.1941408	-0.4073068	2.8934769
# # 1895	-0.1941408	-0.4073068	-0.3454898
# # 1896	-0.1941408	-0.4073068	-0.3454898
# # 1897	5.1491839	-0.4073068	2.8934769
# # 1899	-0.1941408	2.4543334	-0.3454898
# # 1900	-0.1941408	-0.4073068	-0.3454898
# # 1901	-0.1941408	2.4543334	-0.3454898
# # 1902	-0.1941408	-0.4073068	-0.3454898
# # 1903	-0.1941408	2.4543334	-0.3454898
# # 1905	-0.1941408	-0.4073068	-0.3454898
# # 1906	-0.1941408	-0.4073068	-0.3454898
# # 1907	-0.1941408	-0.4073068	2.8934769
# # 1908	-0.1941408	-0.4073068	-0.3454898
# # 1909	-0.1941408	-0.4073068	-0.3454898
# # 1910	-0.1941408	-0.4073068	-0.3454898

## 1911	-0.1941408	-0.4073068	-0.3454898
## 1913	-0.1941408	-0.4073068	-0.3454898
## 1915	-0.1941408	-0.4073068	-0.3454898
## 1916	-0.1941408	-0.4073068	-0.3454898
## 1917	-0.1941408	-0.4073068	-0.3454898
## 1918	-0.1941408	-0.4073068	-0.3454898
## 1919	-0.1941408	-0.4073068	-0.3454898
## 1920	-0.1941408	-0.4073068	-0.3454898
## 1921	-0.1941408	-0.4073068	-0.3454898
## 1923	-0.1941408	-0.4073068	-0.3454898
## 1924	-0.1941408	-0.4073068	-0.3454898
## 1925	-0.1941408	-0.4073068	-0.3454898
## 1927	-0.1941408	-0.4073068	-0.3454898
## 1929	-0.1941408	-0.4073068	-0.3454898
## 1930	-0.1941408	-0.4073068	-0.3454898
## 1932	-0.1941408	-0.4073068	-0.3454898
## 1933	-0.1941408	-0.4073068	-0.3454898
## 1934	-0.1941408	-0.4073068	-0.3454898
## 1935	-0.1941408	-0.4073068	-0.3454898
## 1937	-0.1941408	-0.4073068	-0.3454898
## 1938	-0.1941408	-0.4073068	-0.3454898
## 1939	-0.1941408	-0.4073068	-0.3454898
## 1940	-0.1941408	-0.4073068	-0.3454898
## 1943	-0.1941408	-0.4073068	-0.3454898
## 1944	-0.1941408	-0.4073068	-0.3454898
## 1945	-0.1941408	-0.4073068	-0.3454898
## 1949	-0.1941408	-0.4073068	-0.3454898
## 1951	-0.1941408	-0.4073068	-0.3454898
## 1952	-0.1941408	-0.4073068	2.8934769
## 1954	-0.1941408	-0.4073068	-0.3454898
## 1955	-0.1941408	2.4543334	-0.3454898
## 1956	5.1491839	-0.4073068	-0.3454898
## 1957	-0.1941408	-0.4073068	-0.3454898
## 1958	-0.1941408	-0.4073068	-0.3454898

# #	1959	-0.1941408	-0.4073068	-0.3454898
# #	1960	-0.1941408	-0.4073068	-0.3454898
# #	1962	-0.1941408	-0.4073068	-0.3454898
# #	1963	-0.1941408	-0.4073068	-0.3454898
# #	1965	-0.1941408	-0.4073068	-0.3454898
# #	1966	-0.1941408	-0.4073068	2.8934769
# #	1968	-0.1941408	-0.4073068	-0.3454898
# #	1970	-0.1941408	-0.4073068	-0.3454898
# #	1971	-0.1941408	-0.4073068	-0.3454898
# #	1972	-0.1941408	-0.4073068	2.8934769
# #	1973	-0.1941408	-0.4073068	-0.3454898
# #	1975	-0.1941408	-0.4073068	-0.3454898
# #	1978	-0.1941408	-0.4073068	-0.3454898
# #	1979	-0.1941408	2.4543334	-0.3454898
# #	1982	-0.1941408	-0.4073068	-0.3454898
# #	1984	5.1491839	-0.4073068	-0.3454898
# #	1986	-0.1941408	-0.4073068	-0.3454898
# #	1987	-0.1941408	2.4543334	-0.3454898
# #	1988	-0.1941408	-0.4073068	-0.3454898
# #	1989	-0.1941408	-0.4073068	-0.3454898
# #	1990	-0.1941408	-0.4073068	-0.3454898
# #	1991	-0.1941408	-0.4073068	-0.3454898
# #	1994	-0.1941408	-0.4073068	-0.3454898
# #	1995	-0.1941408	-0.4073068	-0.3454898
# #	1997	-0.1941408	-0.4073068	-0.3454898
# #	1998	-0.1941408	2.4543334	-0.3454898
# #	2002	-0.1941408	-0.4073068	-0.3454898
# #	2004	-0.1941408	-0.4073068	-0.3454898
# #	2005	-0.1941408	-0.4073068	-0.3454898
# #	2006	-0.1941408	-0.4073068	2.8934769
# #	2007	-0.1941408	-0.4073068	-0.3454898
# #	2008	-0.1941408	2.4543334	-0.3454898
# #	2009	-0.1941408	-0.4073068	-0.3454898
# #	2010	-0.1941408	2.4543334	-0.3454898

## 2011	5.1491839	-0.4073068	-0.3454898
## 2013	-0.1941408	-0.4073068	-0.3454898
## 2017	-0.1941408	-0.4073068	2.8934769
## 2018	-0.1941408	-0.4073068	-0.3454898
## 2019	-0.1941408	-0.4073068	-0.3454898
## 2020	-0.1941408	2.4543334	-0.3454898
## 2021	-0.1941408	-0.4073068	-0.3454898
## 2022	-0.1941408	-0.4073068	-0.3454898
## 2023	-0.1941408	-0.4073068	-0.3454898
## 2025	-0.1941408	2.4543334	-0.3454898
## 2026	-0.1941408	-0.4073068	-0.3454898
## 2027	-0.1941408	-0.4073068	-0.3454898
## 2028	-0.1941408	-0.4073068	2.8934769
## 2029	-0.1941408	-0.4073068	-0.3454898
## 2030	-0.1941408	-0.4073068	-0.3454898
## 2031	-0.1941408	-0.4073068	-0.3454898
## 2032	-0.1941408	-0.4073068	-0.3454898
## 2033	5.1491839	-0.4073068	-0.3454898
## 2034	-0.1941408	-0.4073068	2.8934769
## 2035	-0.1941408	-0.4073068	-0.3454898
## 2036	-0.1941408	-0.4073068	-0.3454898
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## 2039	-0.1941408	-0.4073068	-0.3454898
## 2041	-0.1941408	-0.4073068	-0.3454898
## 2042	-0.1941408	-0.4073068	-0.3454898
## 2043	-0.1941408	2.4543334	-0.3454898
## 2044	-0.1941408	2.4543334	-0.3454898
## 2046	-0.1941408	-0.4073068	-0.3454898
## 2047	-0.1941408	2.4543334	-0.3454898
## 2048	-0.1941408	-0.4073068	-0.3454898
## 2049	-0.1941408	-0.4073068	-0.3454898
## 2051	-0.1941408	-0.4073068	-0.3454898
## 2053	-0.1941408	-0.4073068	2.8934769

## 2054	-0.1941408	-0.4073068	-0.3454898
## 2055	5.1491839	-0.4073068	-0.3454898
## 2056	-0.1941408	-0.4073068	-0.3454898
## 2058	-0.1941408	-0.4073068	-0.3454898
## 2061	-0.1941408	-0.4073068	-0.3454898
## 2064	-0.1941408	2.4543334	-0.3454898
## 2065	-0.1941408	-0.4073068	-0.3454898
## 2066	-0.1941408	-0.4073068	-0.3454898
## 2067	-0.1941408	-0.4073068	-0.3454898
## 2068	-0.1941408	-0.4073068	-0.3454898
## 2069	-0.1941408	-0.4073068	-0.3454898
## 2070	-0.1941408	-0.4073068	-0.3454898
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## 2072	-0.1941408	2.4543334	-0.3454898
## 2073	-0.1941408	-0.4073068	-0.3454898
## 2074	-0.1941408	-0.4073068	-0.3454898
## 2076	-0.1941408	-0.4073068	2.8934769
## 2077	-0.1941408	-0.4073068	-0.3454898
## 2078	-0.1941408	-0.4073068	-0.3454898
## 2081	-0.1941408	-0.4073068	-0.3454898
## 2082	-0.1941408	2.4543334	-0.3454898
## 2083	-0.1941408	-0.4073068	-0.3454898
## 2084	-0.1941408	-0.4073068	-0.3454898
## 2085	-0.1941408	-0.4073068	-0.3454898
## 2090	-0.1941408	-0.4073068	-0.3454898
## 2091	-0.1941408	-0.4073068	2.8934769
## 2092	5.1491839	-0.4073068	2.8934769
## 2093	-0.1941408	2.4543334	-0.3454898
## 2094	-0.1941408	2.4543334	-0.3454898
## 2095	-0.1941408	-0.4073068	-0.3454898
## 2096	-0.1941408	-0.4073068	-0.3454898
## 2097	-0.1941408	-0.4073068	-0.3454898
## 2098	-0.1941408	-0.4073068	-0.3454898
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## 2101	-0.1941408	-0.4073068	-0.3454898
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## 2105	-0.1941408	2.4543334	-0.3454898
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## 2110	-0.1941408	-0.4073068	2.8934769
## 2112	-0.1941408	-0.4073068	-0.3454898
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## 2119	-0.1941408	-0.4073068	-0.3454898
## 2121	-0.1941408	2.4543334	-0.3454898
## 2122	-0.1941408	-0.4073068	-0.3454898
## 2123	-0.1941408	-0.4073068	2.8934769
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## 2129	-0.1941408	-0.4073068	-0.3454898
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## 2132	-0.1941408	-0.4073068	-0.3454898
## 2137	-0.1941408	-0.4073068	2.8934769
## 2139	-0.1941408	-0.4073068	2.8934769
## 2140	-0.1941408	-0.4073068	-0.3454898
## 2141	-0.1941408	-0.4073068	-0.3454898
## 2142	-0.1941408	-0.4073068	2.8934769
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## 2146	-0.1941408	-0.4073068	-0.3454898
## 2147	-0.1941408	-0.4073068	-0.3454898
## 2149	-0.1941408	-0.4073068	-0.3454898
## 2151	-0.1941408	-0.4073068	-0.3454898
## 2154	-0.1941408	-0.4073068	-0.3454898
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# # 2157	-0.1941408	2.4543334	-0.3454898
# # 2158	-0.1941408	-0.4073068	-0.3454898
# # 2159	-0.1941408	2.4543334	-0.3454898
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# # 2167	-0.1941408	2.4543334	-0.3454898
# # 2168	-0.1941408	-0.4073068	-0.3454898
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# # 2180	-0.1941408	2.4543334	-0.3454898
# # 2182	-0.1941408	-0.4073068	-0.3454898
# # 2183	-0.1941408	-0.4073068	-0.3454898
# # 2184	-0.1941408	-0.4073068	-0.3454898
# # 2185	-0.1941408	-0.4073068	2.8934769
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# # 2189	-0.1941408	-0.4073068	2.8934769
# # 2190	-0.1941408	-0.4073068	-0.3454898
# # 2191	-0.1941408	-0.4073068	-0.3454898
# # 2192	-0.1941408	-0.4073068	-0.3454898
# # 2194	-0.1941408	2.4543334	-0.3454898
# # 2195	-0.1941408	-0.4073068	-0.3454898
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# # 2198	-0.1941408	-0.4073068	2.8934769
# # 2199	-0.1941408	-0.4073068	2.8934769

# # 2200	-0.1941408	-0.4073068	-0.3454898
# # 2201	-0.1941408	-0.4073068	-0.3454898
# # 2203	-0.1941408	-0.4073068	-0.3454898
# # 2207	-0.1941408	2.4543334	-0.3454898
# # 2209	-0.1941408	-0.4073068	-0.3454898
# # 2210	5.1491839	-0.4073068	-0.3454898
# # 2213	-0.1941408	-0.4073068	-0.3454898
# # 2214	-0.1941408	-0.4073068	-0.3454898
# # 2215	-0.1941408	-0.4073068	-0.3454898
# # 2216	-0.1941408	-0.4073068	-0.3454898
# # 2218	-0.1941408	2.4543334	-0.3454898
# # 2219	-0.1941408	-0.4073068	-0.3454898
# # 2220	-0.1941408	-0.4073068	-0.3454898
# # 2221	-0.1941408	-0.4073068	-0.3454898
# # 2222	-0.1941408	-0.4073068	-0.3454898
# # 2223	-0.1941408	-0.4073068	2.8934769
# # 2224	-0.1941408	-0.4073068	-0.3454898
# # 2225	-0.1941408	-0.4073068	-0.3454898
# # 2226	-0.1941408	-0.4073068	-0.3454898
# # 2227	-0.1941408	-0.4073068	2.8934769
# # 2229	-0.1941408	-0.4073068	-0.3454898
# # 2230	-0.1941408	-0.4073068	-0.3454898
# # 2231	-0.1941408	-0.4073068	-0.3454898
# # 2234	-0.1941408	2.4543334	-0.3454898
# # 2235	-0.1941408	-0.4073068	-0.3454898
# # 2236	-0.1941408	-0.4073068	-0.3454898
# # 2237	-0.1941408	-0.4073068	-0.3454898
# # 2238	-0.1941408	-0.4073068	-0.3454898
# # 2241	-0.1941408	-0.4073068	-0.3454898
# # 2242	-0.1941408	-0.4073068	-0.3454898
# # 2245	-0.1941408	-0.4073068	-0.3454898
# # 2246	-0.1941408	-0.4073068	-0.3454898
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# # 2249	-0.1941408	-0.4073068	-0.3454898

# # 2250	-0.1941408	-0.4073068	-0.3454898
# # 2251	-0.1941408	-0.4073068	-0.3454898
# # 2252	-0.1941408	-0.4073068	-0.3454898
# # 2253	-0.1941408	-0.4073068	-0.3454898
# # 2254	-0.1941408	-0.4073068	-0.3454898
# # 2258	-0.1941408	-0.4073068	-0.3454898
# # 2259	-0.1941408	-0.4073068	-0.3454898
# # 2260	-0.1941408	-0.4073068	-0.3454898
# # 2263	-0.1941408	2.4543334	-0.3454898
# # 2266	-0.1941408	-0.4073068	-0.3454898
# # 2269	-0.1941408	-0.4073068	2.8934769
# # 2270	-0.1941408	-0.4073068	-0.3454898
# # 2271	-0.1941408	-0.4073068	-0.3454898
# # 2272	-0.1941408	-0.4073068	-0.3454898
# # 2273	-0.1941408	-0.4073068	-0.3454898
# # 2275	-0.1941408	-0.4073068	-0.3454898
# # 2276	-0.1941408	2.4543334	2.8934769
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# # 2278	-0.1941408	-0.4073068	-0.3454898
# # 2280	-0.1941408	-0.4073068	-0.3454898
# # 2281	-0.1941408	-0.4073068	-0.3454898
# # 2284	-0.1941408	-0.4073068	-0.3454898
# # 2285	-0.1941408	2.4543334	-0.3454898
# # 2286	5.1491839	-0.4073068	2.8934769
# # 2287	-0.1941408	-0.4073068	-0.3454898
# # 2288	-0.1941408	-0.4073068	-0.3454898
# # 2289	-0.1941408	-0.4073068	2.8934769
# # 2290	-0.1941408	-0.4073068	-0.3454898
# # 2293	-0.1941408	-0.4073068	2.8934769
# # 2294	-0.1941408	-0.4073068	-0.3454898
# # 2295	-0.1941408	-0.4073068	-0.3454898
# # 2298	-0.1941408	-0.4073068	-0.3454898
# # 2301	-0.1941408	-0.4073068	-0.3454898
# # 2303	-0.1941408	-0.4073068	-0.3454898

## 2304	-0.1941408	-0.4073068	-0.3454898
## 2306	-0.1941408	2.4543334	-0.3454898
## 2307	-0.1941408	-0.4073068	-0.3454898
## 2308	-0.1941408	-0.4073068	2.8934769
## 2310	-0.1941408	-0.4073068	-0.3454898
## 2312	-0.1941408	-0.4073068	2.8934769
## 2313	-0.1941408	-0.4073068	-0.3454898
## 2314	-0.1941408	-0.4073068	-0.3454898
## 2315	-0.1941408	-0.4073068	-0.3454898
## 2316	-0.1941408	-0.4073068	2.8934769
## 2318	-0.1941408	-0.4073068	-0.3454898
## 2320	-0.1941408	-0.4073068	-0.3454898
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## 2323	-0.1941408	-0.4073068	-0.3454898
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## 2325	-0.1941408	2.4543334	-0.3454898
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## 2335	5.1491839	-0.4073068	-0.3454898
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## 2338	-0.1941408	-0.4073068	-0.3454898
## 2340	-0.1941408	-0.4073068	-0.3454898
## 2341	-0.1941408	-0.4073068	-0.3454898
## 2343	-0.1941408	2.4543334	-0.3454898
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## 2345	-0.1941408	-0.4073068	2.8934769
## 2346	-0.1941408	2.4543334	-0.3454898
## 2348	-0.1941408	-0.4073068	-0.3454898
## 2352	-0.1941408	-0.4073068	-0.3454898

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# # 2355	-0.1941408	-0.4073068	2.8934769
# # 2356	-0.1941408	-0.4073068	-0.3454898
# # 2357	-0.1941408	-0.4073068	-0.3454898
# # 2359	-0.1941408	-0.4073068	-0.3454898
# # 2360	-0.1941408	2.4543334	-0.3454898
# # 2361	-0.1941408	2.4543334	-0.3454898
# # 2362	-0.1941408	2.4543334	-0.3454898
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# # 2364	-0.1941408	-0.4073068	-0.3454898
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# # 2371	-0.1941408	-0.4073068	-0.3454898
# # 2372	-0.1941408	-0.4073068	-0.3454898
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# # 2380	-0.1941408	2.4543334	-0.3454898
# # 2381	-0.1941408	-0.4073068	-0.3454898
# # 2382	-0.1941408	-0.4073068	-0.3454898
# # 2383	-0.1941408	2.4543334	-0.3454898
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# # 2400	-0.1941408	-0.4073068	-0.3454898
# # 2402	-0.1941408	2.4543334	-0.3454898
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# # 2405	-0.1941408	2.4543334	-0.3454898
# # 2406	-0.1941408	2.4543334	-0.3454898
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# # 2418	-0.1941408	-0.4073068	-0.3454898
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# # 2426	-0.1941408	-0.4073068	-0.3454898
# # 2427	-0.1941408	2.4543334	-0.3454898
# # 2428	-0.1941408	-0.4073068	-0.3454898
# # 2430	-0.1941408	-0.4073068	2.8934769
# # 2433	-0.1941408	-0.4073068	-0.3454898
# # 2434	-0.1941408	-0.4073068	-0.3454898
# # 2436	-0.1941408	-0.4073068	-0.3454898
# # 2437	-0.1941408	-0.4073068	2.8934769
# # 2438	-0.1941408	2.4543334	-0.3454898
# # 2439	-0.1941408	-0.4073068	-0.3454898
# # 2441	-0.1941408	-0.4073068	-0.3454898
# # 2443	-0.1941408	-0.4073068	-0.3454898

# # 2444	5.1491839	-0.4073068	-0.3454898
# # 2445	-0.1941408	-0.4073068	-0.3454898
# # 2448	-0.1941408	-0.4073068	-0.3454898
# # 2449	-0.1941408	-0.4073068	2.8934769
# # 2450	-0.1941408	-0.4073068	-0.3454898
# # 2451	-0.1941408	-0.4073068	-0.3454898
# # 2452	-0.1941408	-0.4073068	-0.3454898
# # 2453	-0.1941408	-0.4073068	-0.3454898
# # 2454	-0.1941408	-0.4073068	-0.3454898
# # 2456	-0.1941408	-0.4073068	-0.3454898
# # 2458	-0.1941408	-0.4073068	-0.3454898
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# # 2462	-0.1941408	-0.4073068	2.8934769
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# # 2469	-0.1941408	-0.4073068	-0.3454898
# # 2470	-0.1941408	-0.4073068	-0.3454898
# # 2471	5.1491839	-0.4073068	-0.3454898
# # 2473	-0.1941408	2.4543334	-0.3454898
# # 2474	-0.1941408	2.4543334	-0.3454898
# # 2477	-0.1941408	-0.4073068	-0.3454898
# # 2479	-0.1941408	-0.4073068	-0.3454898
# # 2481	-0.1941408	-0.4073068	-0.3454898
# # 2482	-0.1941408	-0.4073068	2.8934769
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# # 2485	-0.1941408	-0.4073068	2.8934769
# # 2488	-0.1941408	-0.4073068	-0.3454898
# # 2490	-0.1941408	2.4543334	-0.3454898
# # 2491	-0.1941408	-0.4073068	-0.3454898
# # 2492	-0.1941408	-0.4073068	-0.3454898
# # 2495	-0.1941408	2.4543334	-0.3454898
# # 2496	-0.1941408	-0.4073068	-0.3454898
# # 2497	-0.1941408	-0.4073068	-0.3454898
# # 2498	-0.1941408	-0.4073068	-0.3454898

# # 2499	-0.1941408	2.4543334	-0.3454898
# # 2500	5.1491839	-0.4073068	-0.3454898
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## 2696	-0.1941408	2.4543334	-0.3454898
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## 2934	-0.1941408	-0.4073068	-0.3454898
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## 2940	-0.1941408	-0.4073068	-0.3454898
## 2941	-0.1941408	-0.4073068	-0.3454898
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## 2950	-0.1941408	-0.4073068	-0.3454898
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## 2980	-0.1941408	-0.4073068	-0.3454898
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## 1878	-2.1461456	-0.2778013
## 1879	0.4657963	-0.2778013
## 1880	0.4657963	-0.2778013
## 1881	0.4657963	-0.2778013
## 1885	-2.1461456	-0.2778013
## 1887	-2.1461456	-0.2778013
## 1890	0.4657963	-0.2778013
## 1891	0.4657963	-0.2778013
## 1892	0.4657963	-0.2778013
## 1894	-2.1461456	-0.2778013
## 1895	0.4657963	-0.2778013
## 1896	0.4657963	-0.2778013
## 1897	-2.1461456	-0.2778013
## 1899	0.4657963	-0.2778013
## 1900	0.4657963	-0.2778013
## 1901	0.4657963	-0.2778013
## 1902	-2.1461456	3.5984956
## 1903	0.4657963	-0.2778013
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## 1908	0.4657963	-0.2778013
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## 1935	-2.1461456	3.5984956
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## 1949	0.4657963	-0.2778013
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## 1952	-2.1461456	-0.2778013
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## 1958	-2.1461456	3.5984956
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## 1963	0.4657963	-0.2778013
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## 1994	0.4657963	-0.2778013
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## 1997	-2.1461456	3.5984956
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## 2011	-2.1461456	3.5984956
## 2013	0.4657963	-0.2778013
## 2017	-2.1461456	-0.2778013
## 2018	0.4657963	-0.2778013
## 2019	0.4657963	-0.2778013
## 2020	0.4657963	-0.2778013
## 2021	0.4657963	-0.2778013

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## 2027	0.4657963	-0.2778013
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## 2032	0.4657963	-0.2778013
## 2033	0.4657963	-0.2778013
## 2034	-2.1461456	-0.2778013
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## 2529	0.4657963	-0.2778013
## 2531	0.4657963	-0.2778013
## 2532	0.4657963	-0.2778013
## 2533	0.4657963	-0.2778013
## 2535	-2.1461456	-0.2778013
## 2537	0.4657963	-0.2778013
## 2538	0.4657963	-0.2778013
## 2539	0.4657963	-0.2778013
## 2540	0.4657963	-0.2778013
## 2542	0.4657963	-0.2778013
## 2545	0.4657963	-0.2778013
## 2546	0.4657963	-0.2778013
## 2547	0.4657963	-0.2778013
## 2549	0.4657963	-0.2778013
## 2552	0.4657963	-0.2778013
## 2553	0.4657963	-0.2778013
## 2554	0.4657963	-0.2778013
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## 2556	0.4657963	-0.2778013
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## 2560	0.4657963	-0.2778013
## 2562	0.4657963	-0.2778013
## 2564	0.4657963	-0.2778013
## 2567	0.4657963	-0.2778013
## 2569	0.4657963	-0.2778013
## 2570	0.4657963	-0.2778013
## 2571	-2.1461456	-0.2778013
## 2572	0.4657963	-0.2778013
## 2573	0.4657963	-0.2778013
## 2574	0.4657963	-0.2778013
## 2576	0.4657963	-0.2778013
## 2577	-2.1461456	-0.2778013
## 2578	-2.1461456	-0.2778013
## 2579	0.4657963	-0.2778013
## 2580	0.4657963	-0.2778013
## 2581	0.4657963	-0.2778013
## 2582	0.4657963	-0.2778013
## 2584	0.4657963	-0.2778013
## 2585	-2.1461456	-0.2778013
## 2588	-2.1461456	3.5984956
## 2589	-2.1461456	3.5984956
## 2591	0.4657963	-0.2778013
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## 2594	-2.1461456	3.5984956
## 2596	-2.1461456	3.5984956
## 2597	0.4657963	-0.2778013
## 2598	0.4657963	-0.2778013
## 2601	0.4657963	-0.2778013
## 2602	0.4657963	-0.2778013
## 2603	0.4657963	-0.2778013

## 2604	-2.1461456	-0.2778013
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## 2606	0.4657963	-0.2778013
## 2607	0.4657963	-0.2778013
## 2608	0.4657963	-0.2778013
## 2610	-2.1461456	-0.2778013
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## 2613	0.4657963	-0.2778013
## 2614	0.4657963	-0.2778013
## 2615	0.4657963	-0.2778013
## 2616	0.4657963	-0.2778013
## 2617	0.4657963	-0.2778013
## 2619	0.4657963	-0.2778013
## 2620	0.4657963	-0.2778013
## 2621	0.4657963	-0.2778013
## 2622	0.4657963	-0.2778013
## 2624	-2.1461456	3.5984956
## 2628	-2.1461456	3.5984956
## 2629	0.4657963	-0.2778013
## 2630	-2.1461456	3.5984956
## 2631	0.4657963	-0.2778013
## 2634	-2.1461456	3.5984956
## 2635	-2.1461456	-0.2778013
## 2636	-2.1461456	3.5984956
## 2637	0.4657963	-0.2778013
## 2638	0.4657963	-0.2778013
## 2639	0.4657963	-0.2778013
## 2643	-2.1461456	3.5984956
## 2644	0.4657963	-0.2778013
## 2645	0.4657963	-0.2778013
## 2646	0.4657963	-0.2778013
## 2647	0.4657963	-0.2778013
## 2648	0.4657963	-0.2778013

## 2649	0.4657963	-0.2778013
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## 2652	0.4657963	-0.2778013
## 2653	0.4657963	-0.2778013
## 2654	0.4657963	-0.2778013
## 2655	0.4657963	-0.2778013
## 2656	0.4657963	-0.2778013
## 2657	0.4657963	-0.2778013
## 2658	-2.1461456	-0.2778013
## 2659	0.4657963	-0.2778013
## 2660	0.4657963	-0.2778013
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## 2663	0.4657963	-0.2778013
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## 2679	0.4657963	-0.2778013
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## 2687	0.4657963	-0.2778013
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## 2714	0.4657963	-0.2778013
## 2715	-2.1461456	3.5984956
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## 2722	0.4657963	-0.2778013
## 2724	0.4657963	-0.2778013
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## 2726	0.4657963	-0.2778013
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## 2728	0.4657963	-0.2778013
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## 2732	0.4657963	-0.2778013
## 2733	0.4657963	-0.2778013
## 2734	-2.1461456	-0.2778013
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## 2737	0.4657963	-0.2778013
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## 2746	0.4657963	-0.2778013
## 2747	0.4657963	-0.2778013
## 2749	-2.1461456	-0.2778013
## 2750	0.4657963	-0.2778013

# #	2751	0.4657963	-0.2778013
# #	2752	0.4657963	-0.2778013
# #	2754	0.4657963	-0.2778013
# #	2756	-2.1461456	-0.2778013
# #	2757	0.4657963	-0.2778013
# #	2758	0.4657963	-0.2778013
# #	2760	0.4657963	-0.2778013
# #	2761	0.4657963	-0.2778013
# #	2763	0.4657963	-0.2778013
# #	2764	0.4657963	-0.2778013
# #	2765	0.4657963	-0.2778013
# #	2767	0.4657963	-0.2778013
# #	2768	0.4657963	-0.2778013
# #	2769	-2.1461456	-0.2778013
# #	2770	-2.1461456	-0.2778013
# #	2771	-2.1461456	-0.2778013
# #	2773	0.4657963	-0.2778013
# #	2774	-2.1461456	3.5984956
# #	2776	0.4657963	-0.2778013
# #	2777	0.4657963	-0.2778013
# #	2778	0.4657963	-0.2778013
# #	2779	-2.1461456	-0.2778013
# #	2781	0.4657963	-0.2778013
# #	2782	-2.1461456	-0.2778013
# #	2784	-2.1461456	3.5984956
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# #	2795	0.4657963	-0.2778013
# #	2798	0.4657963	-0.2778013

## 2799	0.4657963	-0.2778013
## 2800	0.4657963	-0.2778013
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## 2813	0.4657963	-0.2778013
## 2814	0.4657963	-0.2778013
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## 2829	0.4657963	-0.2778013
## 2831	0.4657963	-0.2778013
## 2832	0.4657963	-0.2778013
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## 2839	0.4657963	-0.2778013
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## 2869	0.4657963	-0.2778013
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## 2873	0.4657963	-0.2778013
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## 2878	0.4657963	-0.2778013
## 2879	0.4657963	-0.2778013
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## 2881	0.4657963	-0.2778013
## 2883	-2.1461456	-0.2778013
## 2884	-2.1461456	-0.2778013
## 2885	0.4657963	-0.2778013
## 2887	0.4657963	-0.2778013
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## 2890	-2.1461456	-0.2778013
## 2891	0.4657963	-0.2778013

## 2892	-2.1461456	-0.2778013
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## 2908	0.4657963	-0.2778013
## 2909	0.4657963	-0.2778013
## 2910	-2.1461456	3.5984956
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## 2913	0.4657963	-0.2778013
## 2914	0.4657963	-0.2778013
## 2916	0.4657963	-0.2778013
## 2918	0.4657963	-0.2778013
## 2920	-2.1461456	-0.2778013
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## 2922	0.4657963	-0.2778013
## 2923	0.4657963	-0.2778013
## 2924	0.4657963	-0.2778013
## 2925	0.4657963	-0.2778013
## 2926	0.4657963	-0.2778013
## 2927	-2.1461456	-0.2778013
## 2928	0.4657963	-0.2778013
## 2929	-2.1461456	3.5984956
## 2930	0.4657963	-0.2778013
## 2931	0.4657963	-0.2778013
## 2933	0.4657963	-0.2778013

## 2934	0.4657963	-0.2778013
## 2935	0.4657963	-0.2778013
## 2936	0.4657963	-0.2778013
## 2938	0.4657963	-0.2778013
## 2939	0.4657963	-0.2778013
## 2940	0.4657963	-0.2778013
## 2941	0.4657963	-0.2778013
## 2943	-2.1461456	-0.2778013
## 2945	-2.1461456	-0.2778013
## 2946	0.4657963	-0.2778013
## 2947	0.4657963	-0.2778013
## 2948	0.4657963	-0.2778013
## 2950	0.4657963	-0.2778013
## 2954	0.4657963	-0.2778013
## 2955	0.4657963	-0.2778013
## 2956	0.4657963	-0.2778013
## 2957	0.4657963	-0.2778013
## 2959	0.4657963	-0.2778013
## 2961	0.4657963	-0.2778013
## 2962	0.4657963	-0.2778013
## 2964	0.4657963	-0.2778013
## 2965	0.4657963	-0.2778013
## 2966	0.4657963	-0.2778013
## 2967	0.4657963	-0.2778013
## 2968	-2.1461456	-0.2778013
## 2969	-2.1461456	-0.2778013
## 2970	0.4657963	-0.2778013
## 2974	0.4657963	-0.2778013
## 2976	0.4657963	-0.2778013
## 2977	0.4657963	-0.2778013
## 2979	0.4657963	-0.2778013
## 2980	0.4657963	-0.2778013
## 2981	-2.1461456	-0.2778013
## 2982	0.4657963	-0.2778013

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## 2985      0.4657963      -0.2778013
## 2986      0.4657963      -0.2778013
## 2987     -2.1461456      3.5984956
## 2988      0.4657963      -0.2778013
## 2989      0.4657963      -0.2778013
## 2992      0.4657963      -0.2778013
## 2994      0.4657963      -0.2778013
## 2995      0.4657963      -0.2778013
## 2996     -2.1461456      -0.2778013
## 2997      0.4657963      -0.2778013
## 2998      0.4657963      -0.2778013
##
## $model.list
## $model.list$response
## [1] "0" "1"
##
## $model.list$variables
## [1] "Age"                      "Agency_CodeC2B"
## [3] "Agency_CodeCWT"            "Agency_CodeEPX"
## [5] "Agency_CodeJZI"            "TypeAirlines"
## [7] "TypeTravel_Agency"         "Commision"
## [9] "ChannelOffline"            "ChannelOnline"
## [11] "Duration"                  "Sales"
## [13] "Product.NameBronze_Plan"   "Product.NameCancellation_Plan"
## [15] "Product.NameCustomised_Plan" "Product.NameGold_Plan"
## [17] "Product.NameSilver_Plan"    "DestinationAmericas"
## [19] "DestinationASIA"           "DestinationEUROPE"
##
## $err.fct
## function (x, y)
## {
##   1/2 * (y - x)^2
## }

```

```

## <bytecode: 0x00000000243bd080>
## <environment: 0x00000000243bf630>
## attr(,"type")
## [1] "sse"
##
## $act.fct
## function (x)
## {
##   1/(1 + exp(-x))
## }
## <bytecode: 0x00000000243bbf48>
## <environment: 0x00000000243bb650>
## attr(,"type")
## [1] "logistic"
##
## $linear.output
## [1] FALSE
##
## $data
##      Claimed        Age Agency_CodeC2B Agency_CodeCWT Agency_CodeEPX
## 3          0 0.086873266     -0.667037      2.3139030     -0.9135557
## 4          0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 6          1 0.660294161     -0.667037     -0.4320262     -0.9135557
## 7          0 2.189416548     -0.667037      2.3139030     -0.9135557
## 8          0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 9          0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 10         0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 11         1 -0.104267033     1.498668     -0.4320262     -0.9135557
## 13         0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 15         0 -0.677687928     -0.667037      2.3139030     -0.9135557
## 16         1 0.086873266     1.498668     -0.4320262     -0.9135557
## 18         0 0.660294161     -0.667037      2.3139030     -0.9135557
## 21         0 -0.199837182     -0.667037     -0.4320262      1.0942591
## 22         0 -0.964398376     1.498668     -0.4320262     -0.9135557

```

## 23	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 24	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 25	0	0.564724012	-0.667037	-0.4320262	-0.9135557
## 26	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 27	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 28	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 29	0	0.755864310	-0.667037	-0.4320262	-0.9135557
## 30	0	-1.251108823	-0.667037	-0.4320262	-0.9135557
## 31	0	2.093846399	-0.667037	-0.4320262	-0.9135557
## 32	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 35	1	-1.251108823	-0.667037	-0.4320262	1.0942591
## 36	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 38	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 39	0	-0.868828226	-0.667037	-0.4320262	-0.9135557
## 40	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 41	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 44	1	0.086873266	-0.667037	-0.4320262	1.0942591
## 45	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 47	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 49	0	1.329285205	-0.667037	-0.4320262	-0.9135557
## 50	0	-0.199837182	-0.667037	-0.4320262	-0.9135557
## 52	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 53	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 55	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 56	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 57	1	-0.486547630	-0.667037	2.3139030	-0.9135557
## 58	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 59	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 60	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 63	0	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 65	1	0.373583713	-0.667037	-0.4320262	1.0942591
## 66	1	-0.773258077	-0.667037	-0.4320262	1.0942591
## 67	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 69	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 71	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 76	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 77	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 78	1	1.998276250	1.498668	-0.4320262	-0.9135557
## 79	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 80	0	0.182443415	-0.667037	-0.4320262	1.0942591
## 81	0	1.233715056	-0.667037	-0.4320262	1.0942591
## 82	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 83	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 87	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 90	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 93	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 94	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 95	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 96	0	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 97	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 98	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 99	0	0.851434459	-0.667037	-0.4320262	1.0942591
## 100	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 102	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 103	1	1.329285205	1.498668	-0.4320262	-0.9135557
## 104	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 105	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 106	1	-0.008696884	-0.667037	2.3139030	-0.9135557
## 107	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 108	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 109	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 110	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 111	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 112	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 113	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 115	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 118	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 119	0	-1.537819271	-0.667037	2.3139030	-0.9135557

## 120	0	0.373583713	-0.667037	-0.4320262	-0.9135557
## 121	1	-0.582117779	-0.667037	2.3139030	-0.9135557
## 122	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 124	0	-1.728959569	-0.667037	-0.4320262	1.0942591
## 125	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 126	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 127	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 128	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 130	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 131	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 133	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 134	1	0.564724012	-0.667037	2.3139030	-0.9135557
## 135	0	-0.868828226	-0.667037	-0.4320262	-0.9135557
## 136	1	-0.008696884	-0.667037	-0.4320262	1.0942591
## 137	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 138	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 141	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 143	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 144	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 146	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 147	0	1.424855355	-0.667037	2.3139030	-0.9135557
## 148	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 149	0	-1.537819271	-0.667037	2.3139030	-0.9135557
## 150	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 151	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 153	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 154	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 155	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 157	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 158	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 159	0	3.909679234	-0.667037	2.3139030	-0.9135557
## 162	0	0.851434459	-0.667037	2.3139030	-0.9135557
## 163	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 164	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 165	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 166	1	0.564724012	-0.667037	2.3139030	-0.9135557
## 167	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 168	0	-1.824529719	-0.667037	2.3139030	-0.9135557
## 169	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 171	0	0.182443415	1.498668	-0.4320262	-0.9135557
## 172	0	-1.633389420	-0.667037	-0.4320262	1.0942591
## 174	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 175	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 176	0	1.138144907	1.498668	-0.4320262	-0.9135557
## 177	1	-1.251108823	1.498668	-0.4320262	-0.9135557
## 178	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 179	0	2.667267294	-0.667037	2.3139030	-0.9135557
## 180	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 182	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 183	0	-1.251108823	-0.667037	2.3139030	-0.9135557
## 185	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 186	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 188	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 189	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 190	0	2.093846399	-0.667037	-0.4320262	-0.9135557
## 192	0	0.182443415	-0.667037	2.3139030	-0.9135557
## 194	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 195	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 196	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 197	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 199	0	-0.104267033	-0.667037	-0.4320262	1.0942591
## 200	0	-1.346678973	-0.667037	2.3139030	-0.9135557
## 201	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 203	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 204	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 208	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 209	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 210	0	-0.199837182	-0.667037	-0.4320262	1.0942591

#	211	0	-0.295407331	-0.667037	-0.4320262	-0.9135557
#	212	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	214	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	215	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	219	1	1.233715056	1.498668	-0.4320262	-0.9135557
#	220	0	2.858407593	-0.667037	-0.4320262	1.0942591
#	222	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	223	0	0.947004609	1.498668	-0.4320262	-0.9135557
#	224	0	0.755864310	-0.667037	2.3139030	-0.9135557
#	226	0	0.851434459	-0.667037	-0.4320262	1.0942591
#	228	1	-1.251108823	1.498668	-0.4320262	-0.9135557
#	230	1	-0.677687928	1.498668	-0.4320262	-0.9135557
#	231	0	-1.633389420	1.498668	-0.4320262	-0.9135557
#	232	0	-1.059968525	-0.667037	2.3139030	-0.9135557
#	233	0	1.329285205	-0.667037	-0.4320262	-0.9135557
#	235	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	237	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	238	0	0.469153862	-0.667037	-0.4320262	1.0942591
#	239	1	0.660294161	1.498668	-0.4320262	-0.9135557
#	242	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	244	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	246	1	-0.199837182	-0.667037	-0.4320262	1.0942591
#	247	1	0.086873266	-0.667037	2.3139030	-0.9135557
#	248	1	-0.390977480	1.498668	-0.4320262	-0.9135557
#	249	0	0.660294161	-0.667037	-0.4320262	-0.9135557
#	250	0	1.138144907	-0.667037	-0.4320262	1.0942591
#	252	0	-0.868828226	-0.667037	2.3139030	-0.9135557
#	253	0	0.660294161	-0.667037	-0.4320262	-0.9135557
#	254	0	-0.582117779	1.498668	-0.4320262	-0.9135557
#	255	1	0.278013564	-0.667037	-0.4320262	1.0942591
#	256	0	-0.486547630	1.498668	-0.4320262	-0.9135557
#	258	1	1.807135951	-0.667037	-0.4320262	-0.9135557
#	259	1	-0.295407331	1.498668	-0.4320262	-0.9135557
#	260	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 261	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 266	0	0.660294161	1.498668	-0.4320262	-0.9135557
## 267	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 268	1	1.424855355	1.498668	-0.4320262	-0.9135557
## 269	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 270	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 271	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 273	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 274	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 275	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 276	0	1.998276250	-0.667037	-0.4320262	1.0942591
## 277	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 278	0	0.278013564	-0.667037	-0.4320262	-0.9135557
## 279	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 280	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 281	1	-1.059968525	-0.667037	-0.4320262	1.0942591
## 283	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 284	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 286	0	2.380556847	-0.667037	-0.4320262	-0.9135557
## 287	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 288	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 289	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 292	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 295	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 296	0	0.564724012	-0.667037	-0.4320262	-0.9135557
## 297	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 298	0	0.086873266	1.498668	-0.4320262	-0.9135557
## 299	0	-1.442249122	1.498668	-0.4320262	-0.9135557
## 300	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 301	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 302	1	1.711565802	-0.667037	2.3139030	-0.9135557
## 303	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 305	0	0.851434459	1.498668	-0.4320262	-0.9135557
## 306	0	0.851434459	-0.667037	-0.4320262	1.0942591

## 308	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 310	1	1.424855355	1.498668	-0.4320262	-0.9135557
## 311	1	0.373583713	1.498668	-0.4320262	-0.9135557
## 312	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 314	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 315	1	-0.773258077	-0.667037	-0.4320262	1.0942591
## 316	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 317	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 318	1	0.564724012	1.498668	-0.4320262	-0.9135557
## 320	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 321	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 322	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 323	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 324	0	1.520425504	-0.667037	2.3139030	-0.9135557
## 325	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 328	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 329	1	0.755864310	-0.667037	-0.4320262	-0.9135557
## 330	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 332	0	-0.486547630	1.498668	-0.4320262	-0.9135557
## 334	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 335	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 336	0	2.476126996	-0.667037	2.3139030	-0.9135557
## 338	1	0.373583713	1.498668	-0.4320262	-0.9135557
## 340	0	0.755864310	-0.667037	-0.4320262	-0.9135557
## 341	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 342	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 344	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 345	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 346	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 349	1	-1.728959569	-0.667037	-0.4320262	1.0942591
## 351	1	0.564724012	-0.667037	-0.4320262	-0.9135557
## 352	0	0.278013564	-0.667037	2.3139030	-0.9135557
## 353	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 354	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 358	0	1.233715056	-0.667037	-0.4320262	-0.9135557
## 359	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 361	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 362	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 364	0	0.564724012	-0.667037	2.3139030	-0.9135557
## 367	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 368	1	3.145118040	1.498668	-0.4320262	-0.9135557
## 370	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 372	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 373	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 375	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 377	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 378	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 379	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 380	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 381	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 382	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 383	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 386	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 388	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 389	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 391	1	-1.633389420	-0.667037	2.3139030	-0.9135557
## 392	0	2.284986698	-0.667037	2.3139030	-0.9135557
## 393	0	0.947004609	-0.667037	-0.4320262	-0.9135557
## 395	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 396	0	-1.537819271	-0.667037	-0.4320262	-0.9135557
## 397	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 398	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 402	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 403	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 404	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 405	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 406	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 407	0	-0.199837182	-0.667037	-0.4320262	1.0942591

# #	408	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	410	0	0.660294161	-0.667037	-0.4320262	-0.9135557
# #	411	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	412	0	-0.295407331	-0.667037	-0.4320262	1.0942591
# #	414	0	0.564724012	1.498668	-0.4320262	-0.9135557
# #	415	1	-1.251108823	1.498668	-0.4320262	-0.9135557
# #	416	0	1.138144907	-0.667037	-0.4320262	1.0942591
# #	417	0	-0.390977480	-0.667037	-0.4320262	-0.9135557
# #	418	1	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	419	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	420	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	421	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	422	0	-1.346678973	-0.667037	-0.4320262	1.0942591
# #	423	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	424	0	-0.486547630	-0.667037	-0.4320262	-0.9135557
# #	425	1	0.947004609	1.498668	-0.4320262	-0.9135557
# #	426	0	-0.677687928	-0.667037	-0.4320262	1.0942591
# #	428	0	0.564724012	-0.667037	-0.4320262	1.0942591
# #	429	1	-0.677687928	-0.667037	2.3139030	-0.9135557
# #	430	1	-1.633389420	1.498668	-0.4320262	-0.9135557
# #	431	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	434	0	-0.008696884	-0.667037	-0.4320262	1.0942591
# #	435	1	1.902706101	1.498668	-0.4320262	-0.9135557
# #	436	0	-0.295407331	1.498668	-0.4320262	-0.9135557
# #	437	1	-0.199837182	1.498668	-0.4320262	-0.9135557
# #	438	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	439	1	-1.251108823	1.498668	-0.4320262	-0.9135557
# #	442	1	-0.295407331	-0.667037	-0.4320262	1.0942591
# #	444	0	0.947004609	-0.667037	2.3139030	-0.9135557
# #	447	0	-0.008696884	-0.667037	-0.4320262	1.0942591
# #	448	0	-1.442249122	1.498668	-0.4320262	-0.9135557
# #	450	0	-0.199837182	-0.667037	-0.4320262	1.0942591
# #	451	0	1.424855355	-0.667037	2.3139030	-0.9135557
# #	452	1	-0.199837182	-0.667037	-0.4320262	1.0942591

## 455	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
## 456	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 457	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 458	1	2.476126996	-0.667037	2.3139030	-0.9135557
## 460	0	1.711565802	-0.667037	-0.4320262	-0.9135557
## 462	1	1.520425504	1.498668	-0.4320262	-0.9135557
## 464	1	2.476126996	1.498668	-0.4320262	-0.9135557
## 465	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 466	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 467	1	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 468	0	-0.295407331	-0.667037	-0.4320262	-0.9135557
## 469	0	-1.537819271	1.498668	-0.4320262	-0.9135557
## 470	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 473	0	4.387529980	-0.667037	2.3139030	-0.9135557
## 474	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 475	0	1.138144907	-0.667037	-0.4320262	1.0942591
## 476	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 477	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 478	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 479	1	-0.199837182	-0.667037	2.3139030	-0.9135557
## 480	0	-0.295407331	-0.667037	2.3139030	-0.9135557
## 481	0	-2.015670017	1.498668	-0.4320262	-0.9135557
## 482	0	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 485	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 487	0	-1.059968525	-0.667037	-0.4320262	-0.9135557
## 488	0	1.902706101	-0.667037	-0.4320262	1.0942591
## 489	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 490	0	1.615995653	-0.667037	-0.4320262	1.0942591
## 491	0	0.373583713	1.498668	-0.4320262	-0.9135557
## 493	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 495	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 496	0	0.755864310	-0.667037	-0.4320262	1.0942591
## 497	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 500	0	-1.251108823	1.498668	-0.4320262	-0.9135557

## 502	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 503	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 504	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 506	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 507	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 508	1	-1.059968525	-0.667037	-0.4320262	1.0942591
## 509	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 510	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 512	1	1.329285205	1.498668	-0.4320262	-0.9135557
## 514	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 515	0	-0.486547630	-0.667037	-0.4320262	1.0942591
## 516	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 517	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 519	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 520	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 521	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 522	0	1.807135951	-0.667037	-0.4320262	1.0942591
## 523	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 524	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 526	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 527	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 529	0	3.622968787	-0.667037	-0.4320262	1.0942591
## 531	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 532	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 533	0	1.424855355	-0.667037	-0.4320262	1.0942591
## 535	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 536	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 537	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 538	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 541	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 542	1	1.138144907	-0.667037	-0.4320262	1.0942591
## 544	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 545	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 546	1	1.042574758	1.498668	-0.4320262	-0.9135557

## 547	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 548	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 550	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 551	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 552	0	0.469153862	-0.667037	2.3139030	-0.9135557
## 553	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 554	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 555	0	-0.677687928	-0.667037	-0.4320262	-0.9135557
## 556	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 557	0	-0.199837182	-0.667037	-0.4320262	-0.9135557
## 558	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 560	0	-0.008696884	-0.667037	-0.4320262	1.0942591
## 561	0	2.953977742	-0.667037	-0.4320262	1.0942591
## 562	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 563	0	3.240688190	1.498668	-0.4320262	-0.9135557
## 564	0	2.380556847	-0.667037	2.3139030	-0.9135557
## 565	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 566	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 570	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 571	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 573	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 574	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 575	1	-0.104267033	-0.667037	2.3139030	-0.9135557
## 578	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 582	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 583	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 584	0	-0.486547630	1.498668	-0.4320262	-0.9135557
## 585	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 586	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 587	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 588	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 589	0	-0.390977480	1.498668	-0.4320262	-0.9135557
## 590	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 591	1	0.469153862	1.498668	-0.4320262	-0.9135557

## 592	0	1.520425504	-0.667037	-0.4320262	-0.9135557
## 594	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 595	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 597	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 598	1	2.571697145	1.498668	-0.4320262	-0.9135557
## 599	0	-1.059968525	-0.667037	-0.4320262	-0.9135557
## 601	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 602	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 606	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 608	0	3.145118040	1.498668	-0.4320262	-0.9135557
## 609	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 610	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 612	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 613	0	-0.486547630	-0.667037	2.3139030	-0.9135557
## 614	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 615	0	0.755864310	-0.667037	-0.4320262	-0.9135557
## 616	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 618	1	-0.390977480	-0.667037	2.3139030	-0.9135557
## 620	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 621	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 622	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 623	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 624	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 625	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 627	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 628	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 629	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 631	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 632	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 633	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 634	0	0.182443415	-0.667037	2.3139030	-0.9135557
## 637	0	0.947004609	-0.667037	-0.4320262	1.0942591
## 639	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 641	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 642	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 644	0	2.189416548	-0.667037	-0.4320262	1.0942591
## 645	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 646	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 647	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 649	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 650	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 651	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 653	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 654	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 656	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 657	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 658	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 659	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 660	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 661	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 662	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 663	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 664	0	2.667267294	-0.667037	-0.4320262	1.0942591
## 665	0	1.138144907	-0.667037	-0.4320262	-0.9135557
## 666	0	-1.633389420	1.498668	-0.4320262	-0.9135557
## 668	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 669	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 672	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 673	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 678	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 679	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 681	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 683	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 684	1	2.953977742	1.498668	-0.4320262	-0.9135557
## 685	0	-1.824529719	1.498668	-0.4320262	-0.9135557
## 687	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 688	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 689	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 690	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 691	0	0.373583713	-0.667037	-0.4320262	1.0942591
## 693	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 695	1	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 696	1	-0.295407331	-0.667037	-0.4320262	1.0942591
## 697	1	-0.008696884	-0.667037	-0.4320262	1.0942591
## 698	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 699	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 700	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 701	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 702	0	1.520425504	1.498668	-0.4320262	-0.9135557
## 704	0	-0.773258077	-0.667037	-0.4320262	-0.9135557
## 705	0	2.189416548	-0.667037	-0.4320262	-0.9135557
## 706	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 707	1	1.329285205	1.498668	-0.4320262	-0.9135557
## 711	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 712	0	0.278013564	-0.667037	-0.4320262	1.0942591
## 713	0	1.902706101	-0.667037	-0.4320262	-0.9135557
## 714	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 715	0	-0.008696884	-0.667037	-0.4320262	1.0942591
## 716	0	0.182443415	-0.667037	2.3139030	-0.9135557
## 718	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 719	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 720	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 721	0	2.189416548	-0.667037	-0.4320262	-0.9135557
## 722	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 723	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 724	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 725	1	2.476126996	1.498668	-0.4320262	-0.9135557
## 726	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 727	1	-1.251108823	-0.667037	-0.4320262	1.0942591
## 729	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 730	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 732	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 733	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 738	0	-0.390977480	1.498668	-0.4320262	-0.9135557
## 739	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 740	0	1.711565802	1.498668	-0.4320262	-0.9135557
## 742	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 743	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 744	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 747	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 748	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 749	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 750	1	2.953977742	-0.667037	2.3139030	-0.9135557
## 751	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 752	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 753	0	0.755864310	-0.667037	-0.4320262	1.0942591
## 754	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 755	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 757	0	-1.059968525	-0.667037	-0.4320262	-0.9135557
## 758	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 759	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 761	0	0.947004609	-0.667037	-0.4320262	1.0942591
## 762	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 763	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 764	0	1.329285205	1.498668	-0.4320262	-0.9135557
## 765	0	1.998276250	-0.667037	-0.4320262	-0.9135557
## 769	0	-1.633389420	-0.667037	-0.4320262	1.0942591
## 770	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 772	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 773	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 774	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 775	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 777	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 778	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
## 779	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 780	1	-1.251108823	-0.667037	2.3139030	-0.9135557

## 781	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 782	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 783	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 784	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 785	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 788	1	0.755864310	-0.667037	2.3139030	-0.9135557
## 789	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 790	1	1.424855355	1.498668	-0.4320262	-0.9135557
## 791	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 792	0	1.520425504	-0.667037	-0.4320262	1.0942591
## 793	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 794	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 795	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 796	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 797	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 798	1	-0.964398376	-0.667037	2.3139030	-0.9135557
## 799	0	2.571697145	-0.667037	2.3139030	-0.9135557
## 800	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 803	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 804	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 806	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 807	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 810	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 811	0	2.858407593	1.498668	-0.4320262	-0.9135557
## 814	1	0.947004609	-0.667037	2.3139030	-0.9135557
## 815	0	-0.868828226	1.498668	-0.4320262	-0.9135557
## 816	0	0.373583713	-0.667037	2.3139030	-0.9135557
## 817	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 819	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 820	1	1.138144907	1.498668	-0.4320262	-0.9135557
## 822	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 823	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 825	1	3.527398637	1.498668	-0.4320262	-0.9135557
## 826	0	-0.104267033	-0.667037	-0.4320262	-0.9135557

## 827	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 830	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 831	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 832	0	3.049547891	-0.667037	2.3139030	-0.9135557
## 833	0	0.278013564	-0.667037	2.3139030	-0.9135557
## 834	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 835	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 837	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 842	0	1.424855355	1.498668	-0.4320262	-0.9135557
## 843	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 844	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 845	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 846	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 847	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 848	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 849	1	1.902706101	1.498668	-0.4320262	-0.9135557
## 851	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 852	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 855	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 858	0	-0.390977480	-0.667037	-0.4320262	1.0942591
## 859	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 860	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 862	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 863	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 864	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 866	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 867	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 868	0	2.380556847	-0.667037	-0.4320262	1.0942591
## 869	0	0.564724012	-0.667037	-0.4320262	-0.9135557
## 872	0	-0.008696884	-0.667037	-0.4320262	1.0942591
## 873	0	-0.104267033	-0.667037	-0.4320262	1.0942591
## 876	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 877	1	2.093846399	1.498668	-0.4320262	-0.9135557
## 878	0	-0.868828226	-0.667037	-0.4320262	1.0942591

## 879	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 880	0	0.469153862	1.498668	-0.4320262	-0.9135557
## 881	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 886	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 887	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 888	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 890	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 892	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 893	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 895	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
## 897	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 898	1	0.182443415	-0.667037	2.3139030	-0.9135557
## 899	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 902	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 903	0	1.711565802	-0.667037	-0.4320262	-0.9135557
## 904	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 905	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 906	0	0.278013564	1.498668	-0.4320262	-0.9135557
## 907	1	-1.442249122	-0.667037	-0.4320262	-0.9135557
## 909	0	1.424855355	-0.667037	-0.4320262	1.0942591
## 911	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 912	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 913	0	2.571697145	-0.667037	-0.4320262	1.0942591
## 914	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 915	0	0.755864310	1.498668	-0.4320262	-0.9135557
## 917	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 919	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 921	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 922	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 923	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 924	0	0.278013564	-0.667037	-0.4320262	1.0942591
## 925	1	0.278013564	-0.667037	2.3139030	-0.9135557
## 927	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 928	1	-1.251108823	-0.667037	2.3139030	-0.9135557

## 929	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 932	0	-0.008696884	1.498668	-0.4320262	-0.9135557
## 933	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 935	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 936	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 937	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 939	0	3.527398637	-0.667037	-0.4320262	-0.9135557
## 940	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 941	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 942	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 946	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 947	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 949	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 950	0	2.380556847	-0.667037	-0.4320262	1.0942591
## 952	0	1.520425504	-0.667037	-0.4320262	-0.9135557
## 957	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 958	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 960	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 961	1	-0.008696884	-0.667037	2.3139030	-0.9135557
## 962	1	-1.920099868	1.498668	-0.4320262	-0.9135557
## 963	0	0.564724012	-0.667037	2.3139030	-0.9135557
## 964	0	-0.964398376	-0.667037	2.3139030	-0.9135557
## 965	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 966	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 967	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 968	0	0.278013564	-0.667037	-0.4320262	1.0942591
## 969	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 971	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 975	0	2.476126996	-0.667037	-0.4320262	1.0942591
## 977	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 978	1	2.858407593	1.498668	-0.4320262	-0.9135557
## 979	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 981	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 982	0	-0.199837182	-0.667037	2.3139030	-0.9135557

## 983	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 984	0	1.998276250	-0.667037	2.3139030	-0.9135557
## 985	0	-1.728959569	-0.667037	-0.4320262	1.0942591
## 988	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 989	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 990	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 991	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 992	0	0.278013564	-0.667037	2.3139030	-0.9135557
## 993	0	1.520425504	1.498668	-0.4320262	-0.9135557
## 994	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 995	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 996	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 997	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 999	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1000	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 1001	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1002	1	2.093846399	-0.667037	2.3139030	-0.9135557
## 1004	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1006	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1007	0	1.042574758	-0.667037	-0.4320262	1.0942591
## 1008	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1009	1	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 1010	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 1011	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1012	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1013	1	-1.728959569	1.498668	-0.4320262	-0.9135557
## 1014	1	0.278013564	-0.667037	2.3139030	-0.9135557
## 1016	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 1017	1	3.718538936	-0.667037	2.3139030	-0.9135557
## 1018	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1020	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1023	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1024	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1025	0	0.660294161	-0.667037	2.3139030	-0.9135557

## 1032	0	2.953977742	1.498668	-0.4320262	-0.9135557
## 1033	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1034	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1035	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 1039	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1041	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1044	1	1.902706101	1.498668	-0.4320262	-0.9135557
## 1045	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1046	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1049	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 1050	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1051	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 1055	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 1056	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1057	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1058	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1059	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1061	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1062	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1063	0	-0.008696884	1.498668	-0.4320262	-0.9135557
## 1064	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 1065	1	-2.015670017	1.498668	-0.4320262	-0.9135557
## 1066	1	0.564724012	1.498668	-0.4320262	-0.9135557
## 1067	0	0.755864310	-0.667037	-0.4320262	1.0942591
## 1070	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1074	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1075	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1080	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1081	0	2.093846399	1.498668	-0.4320262	-0.9135557
## 1082	0	0.373583713	1.498668	-0.4320262	-0.9135557
## 1086	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1087	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 1088	1	2.189416548	1.498668	-0.4320262	-0.9135557
## 1091	0	-0.199837182	-0.667037	-0.4320262	1.0942591

#	1092	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1093	0	0.373583713	-0.667037	2.3139030	-0.9135557
#	1095	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1096	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1098	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1099	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1100	1	-0.295407331	1.498668	-0.4320262	-0.9135557
#	1102	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1104	0	1.138144907	-0.667037	-0.4320262	1.0942591
#	1105	0	0.851434459	-0.667037	-0.4320262	-0.9135557
#	1107	0	-1.059968525	-0.667037	-0.4320262	1.0942591
#	1108	0	0.947004609	1.498668	-0.4320262	-0.9135557
#	1110	1	-0.868828226	1.498668	-0.4320262	-0.9135557
#	1111	1	-0.486547630	-0.667037	2.3139030	-0.9135557
#	1112	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1113	0	0.182443415	-0.667037	2.3139030	-0.9135557
#	1114	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1115	0	1.902706101	-0.667037	-0.4320262	1.0942591
#	1117	0	-0.677687928	-0.667037	2.3139030	-0.9135557
#	1118	1	-0.677687928	1.498668	-0.4320262	-0.9135557
#	1119	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1121	1	2.571697145	1.498668	-0.4320262	-0.9135557
#	1122	1	-1.728959569	1.498668	-0.4320262	-0.9135557
#	1127	1	-0.868828226	1.498668	-0.4320262	-0.9135557
#	1129	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1130	0	-0.390977480	-0.667037	2.3139030	-0.9135557
#	1131	0	-0.964398376	-0.667037	-0.4320262	-0.9135557
#	1132	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1134	0	-0.104267033	-0.667037	2.3139030	-0.9135557
#	1135	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1136	0	-0.677687928	-0.667037	-0.4320262	1.0942591
#	1137	1	-0.964398376	1.498668	-0.4320262	-0.9135557
#	1138	0	-0.964398376	-0.667037	2.3139030	-0.9135557
#	1141	1	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1142	1	-1.633389420	1.498668	-0.4320262	-0.9135557
## 1143	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1144	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1145	1	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1146	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1147	0	1.042574758	-0.667037	-0.4320262	1.0942591
## 1148	1	1.615995653	1.498668	-0.4320262	-0.9135557
## 1150	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1152	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1153	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1156	0	0.564724012	-0.667037	2.3139030	-0.9135557
## 1157	0	3.909679234	-0.667037	-0.4320262	1.0942591
## 1158	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1159	1	0.947004609	-0.667037	2.3139030	-0.9135557
## 1160	0	0.182443415	-0.667037	-0.4320262	1.0942591
## 1161	1	-0.295407331	-0.667037	-0.4320262	-0.9135557
## 1163	0	1.807135951	1.498668	-0.4320262	-0.9135557
## 1166	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1167	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1168	0	0.373583713	-0.667037	2.3139030	-0.9135557
## 1169	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1172	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 1175	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1176	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1177	1	0.851434459	1.498668	-0.4320262	-0.9135557
## 1178	1	2.189416548	-0.667037	-0.4320262	1.0942591
## 1179	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1181	0	2.762837444	-0.667037	-0.4320262	1.0942591
## 1182	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1184	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1185	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1186	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1187	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1188	1	-0.868828226	1.498668	-0.4320262	-0.9135557

## 1189	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1190	0	0.660294161	-0.667037	-0.4320262	-0.9135557
## 1191	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1194	1	0.182443415	-0.667037	-0.4320262	1.0942591
## 1195	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1197	1	2.189416548	1.498668	-0.4320262	-0.9135557
## 1198	1	-0.964398376	-0.667037	-0.4320262	-0.9135557
## 1201	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 1203	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1205	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1206	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1207	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1208	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1211	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 1212	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1216	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1217	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1218	1	0.851434459	1.498668	-0.4320262	-0.9135557
## 1219	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1220	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1221	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1224	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 1225	1	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 1226	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 1227	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1229	0	1.424855355	-0.667037	2.3139030	-0.9135557
## 1230	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1231	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1233	1	0.851434459	1.498668	-0.4320262	-0.9135557
## 1234	0	0.851434459	1.498668	-0.4320262	-0.9135557
## 1235	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1236	0	1.902706101	-0.667037	2.3139030	-0.9135557
## 1238	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1242	0	-1.537819271	-0.667037	-0.4320262	1.0942591

## 1247	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1249	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1251	0	0.373583713	1.498668	-0.4320262	-0.9135557
## 1252	1	1.138144907	-0.667037	2.3139030	-0.9135557
## 1253	1	2.476126996	-0.667037	2.3139030	-0.9135557
## 1256	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1258	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1259	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1263	1	1.424855355	-0.667037	2.3139030	-0.9135557
## 1264	0	-1.633389420	-0.667037	-0.4320262	-0.9135557
## 1265	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1266	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1269	1	1.615995653	1.498668	-0.4320262	-0.9135557
## 1270	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1271	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1272	1	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1273	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 1274	1	-2.302380465	-0.667037	2.3139030	-0.9135557
## 1276	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1282	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1283	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1284	0	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 1285	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1286	0	1.042574758	-0.667037	-0.4320262	-0.9135557
## 1287	1	1.807135951	1.498668	-0.4320262	-0.9135557
## 1288	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1289	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 1290	1	1.902706101	1.498668	-0.4320262	-0.9135557
## 1291	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1293	0	1.520425504	-0.667037	-0.4320262	1.0942591
## 1294	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 1296	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1298	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1299	1	0.947004609	1.498668	-0.4320262	-0.9135557

## 1301	1	2.953977742	1.498668	-0.4320262	-0.9135557
## 1302	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1304	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 1305	0	-0.390977480	-0.667037	-0.4320262	1.0942591
## 1306	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1308	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 1309	1	1.424855355	1.498668	-0.4320262	-0.9135557
## 1311	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 1312	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 1315	0	-1.537819271	-0.667037	-0.4320262	1.0942591
## 1317	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1318	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 1320	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1321	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1323	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1324	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1325	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 1326	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1327	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1328	0	1.902706101	-0.667037	-0.4320262	1.0942591
## 1329	0	0.086873266	-0.667037	2.3139030	-0.9135557
## 1330	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1331	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1332	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 1334	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 1335	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 1340	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1341	0	1.902706101	-0.667037	-0.4320262	-0.9135557
## 1343	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1347	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1348	0	-1.633389420	-0.667037	-0.4320262	-0.9135557
## 1350	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1352	0	-1.537819271	1.498668	-0.4320262	-0.9135557
## 1354	0	1.424855355	-0.667037	-0.4320262	-0.9135557

## 1355	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1356	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1357	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 1358	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1359	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1360	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1363	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 1364	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1368	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1369	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1370	0	1.424855355	-0.667037	-0.4320262	-0.9135557
## 1372	0	-0.390977480	-0.667037	-0.4320262	-0.9135557
## 1374	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1375	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1376	0	-0.104267033	-0.667037	-0.4320262	1.0942591
## 1377	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1378	0	-1.251108823	-0.667037	-0.4320262	-0.9135557
## 1379	0	0.755864310	-0.667037	-0.4320262	-0.9135557
## 1383	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1384	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1385	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 1386	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1387	0	0.469153862	1.498668	-0.4320262	-0.9135557
## 1388	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1389	0	1.615995653	-0.667037	-0.4320262	1.0942591
## 1390	0	-1.537819271	-0.667037	2.3139030	-0.9135557
## 1391	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1393	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 1395	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 1397	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 1399	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1400	0	1.424855355	-0.667037	2.3139030	-0.9135557
## 1403	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 1404	0	0.660294161	-0.667037	-0.4320262	1.0942591

## 1405	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 1406	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1408	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1409	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 1410	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1412	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1413	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1414	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1415	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1417	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1418	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 1420	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1421	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1422	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 1423	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1424	1	3.431828488	1.498668	-0.4320262	-0.9135557
## 1425	0	0.851434459	-0.667037	2.3139030	-0.9135557
## 1426	1	2.762837444	1.498668	-0.4320262	-0.9135557
## 1427	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 1429	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1430	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1431	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1432	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1434	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1436	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1437	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1438	0	1.042574758	-0.667037	-0.4320262	-0.9135557
## 1439	1	1.520425504	1.498668	-0.4320262	-0.9135557
## 1443	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1445	0	1.615995653	-0.667037	2.3139030	-0.9135557
## 1446	1	-0.295407331	-0.667037	-0.4320262	-0.9135557
## 1447	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1449	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1450	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1452	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 1454	1	0.278013564	-0.667037	2.3139030	-0.9135557
## 1455	0	0.086873266	1.498668	-0.4320262	-0.9135557
## 1456	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 1457	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 1458	0	0.373583713	-0.667037	-0.4320262	-0.9135557
## 1459	0	0.469153862	-0.667037	-0.4320262	1.0942591
## 1462	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1463	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1464	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1465	0	1.711565802	-0.667037	2.3139030	-0.9135557
## 1466	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1468	1	0.182443415	1.498668	-0.4320262	-0.9135557
## 1470	0	1.138144907	-0.667037	-0.4320262	1.0942591
## 1472	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 1474	0	-0.486547630	1.498668	-0.4320262	-0.9135557
## 1475	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1477	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1478	1	1.042574758	1.498668	-0.4320262	-0.9135557
## 1479	1	2.189416548	1.498668	-0.4320262	-0.9135557
## 1480	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1481	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1482	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 1483	0	-0.008696884	-0.667037	-0.4320262	1.0942591
## 1484	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1485	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1486	1	0.373583713	1.498668	-0.4320262	-0.9135557
## 1487	0	0.564724012	-0.667037	-0.4320262	-0.9135557
## 1489	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 1494	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1496	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1498	0	0.373583713	-0.667037	-0.4320262	1.0942591
## 1500	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1501	1	-1.346678973	1.498668	-0.4320262	-0.9135557

## 1503	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 1504	0	2.284986698	-0.667037	-0.4320262	-0.9135557
## 1505	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1507	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 1508	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1509	0	-1.251108823	-0.667037	-0.4320262	-0.9135557
## 1510	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
## 1511	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1513	0	1.233715056	1.498668	-0.4320262	-0.9135557
## 1517	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1518	1	2.571697145	-0.667037	2.3139030	-0.9135557
## 1519	0	-0.486547630	-0.667037	-0.4320262	1.0942591
## 1520	0	1.424855355	-0.667037	2.3139030	-0.9135557
## 1521	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1522	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1523	1	-0.964398376	-0.667037	-0.4320262	1.0942591
## 1525	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1526	0	-1.346678973	-0.667037	2.3139030	-0.9135557
## 1527	0	-0.199837182	-0.667037	-0.4320262	-0.9135557
## 1528	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1529	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1531	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1532	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1535	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 1536	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1537	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1538	0	1.424855355	-0.667037	-0.4320262	1.0942591
## 1539	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1540	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1542	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1543	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1544	1	0.851434459	-0.667037	2.3139030	-0.9135557
## 1548	0	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1551	0	0.755864310	-0.667037	2.3139030	-0.9135557

## 1553	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1556	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1558	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1559	0	-2.875801360	-0.667037	2.3139030	-0.9135557
## 1560	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1561	0	0.851434459	-0.667037	-0.4320262	-0.9135557
## 1562	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1563	1	1.807135951	1.498668	-0.4320262	-0.9135557
## 1565	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1566	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1568	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1569	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1570	1	1.138144907	1.498668	-0.4320262	-0.9135557
## 1571	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1572	0	1.138144907	-0.667037	-0.4320262	1.0942591
## 1573	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1574	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1575	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1577	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1578	1	-1.346678973	-0.667037	2.3139030	-0.9135557
## 1579	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1580	0	1.424855355	1.498668	-0.4320262	-0.9135557
## 1581	0	2.189416548	1.498668	-0.4320262	-0.9135557
## 1582	0	-1.251108823	-0.667037	-0.4320262	-0.9135557
## 1584	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 1585	0	1.138144907	-0.667037	2.3139030	-0.9135557
## 1586	0	2.762837444	1.498668	-0.4320262	-0.9135557
## 1587	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 1588	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 1590	1	1.902706101	-0.667037	-0.4320262	1.0942591
## 1591	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 1592	0	1.520425504	-0.667037	-0.4320262	1.0942591
## 1593	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1595	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1596	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1597	0	0.086873266	1.498668	-0.4320262	-0.9135557
## 1598	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1599	1	0.564724012	1.498668	-0.4320262	-0.9135557
## 1600	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1601	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1602	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1604	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 1605	1	2.762837444	-0.667037	-0.4320262	-0.9135557
## 1606	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 1607	0	2.284986698	1.498668	-0.4320262	-0.9135557
## 1608	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 1609	0	0.278013564	-0.667037	2.3139030	-0.9135557
## 1610	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 1611	0	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 1612	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1614	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1616	1	-0.295407331	-0.667037	2.3139030	-0.9135557
## 1617	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1618	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 1619	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1621	1	1.138144907	1.498668	-0.4320262	-0.9135557
## 1622	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1623	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1625	0	0.564724012	1.498668	-0.4320262	-0.9135557
## 1627	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1629	0	0.851434459	-0.667037	2.3139030	-0.9135557
## 1630	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 1631	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 1632	0	-1.346678973	-0.667037	-0.4320262	1.0942591
## 1634	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 1635	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1636	1	2.189416548	1.498668	-0.4320262	-0.9135557
## 1637	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1639	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 1640	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1641	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 1643	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 1644	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1645	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1646	1	1.329285205	1.498668	-0.4320262	-0.9135557
## 1650	0	2.093846399	-0.667037	2.3139030	-0.9135557
## 1651	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 1652	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1654	0	-0.486547630	-0.667037	-0.4320262	-0.9135557
## 1656	0	0.469153862	-0.667037	-0.4320262	1.0942591
## 1657	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1658	0	0.469153862	-0.667037	-0.4320262	1.0942591
## 1659	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 1661	0	-1.633389420	-0.667037	-0.4320262	1.0942591
## 1662	1	1.138144907	-0.667037	-0.4320262	-0.9135557
## 1663	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1665	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1668	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 1669	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1670	1	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1671	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1673	0	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1674	1	-2.111240166	1.498668	-0.4320262	-0.9135557
## 1675	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 1677	0	0.851434459	-0.667037	-0.4320262	-0.9135557
## 1679	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1680	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1683	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1685	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1687	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 1689	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1690	0	-1.537819271	-0.667037	-0.4320262	1.0942591

## 1691	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 1692	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 1693	1	1.233715056	1.498668	-0.4320262	-0.9135557
## 1694	0	3.431828488	-0.667037	-0.4320262	-0.9135557
## 1695	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1696	1	1.042574758	1.498668	-0.4320262	-0.9135557
## 1697	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1698	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1699	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1701	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1704	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 1705	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1706	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 1707	0	0.660294161	-0.667037	2.3139030	-0.9135557
## 1708	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 1710	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1711	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1713	1	-1.155538674	-0.667037	2.3139030	-0.9135557
## 1716	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1717	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1718	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 1719	0	0.851434459	1.498668	-0.4320262	-0.9135557
## 1720	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1722	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1723	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1724	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1725	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1726	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1727	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1728	0	0.469153862	-0.667037	2.3139030	-0.9135557
## 1729	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1730	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1732	0	1.902706101	-0.667037	-0.4320262	1.0942591
## 1733	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1735	1	-1.059968525	-0.667037	-0.4320262	1.0942591
## 1737	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1738	1	1.615995653	-0.667037	-0.4320262	1.0942591
## 1739	0	1.424855355	-0.667037	-0.4320262	1.0942591
## 1740	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1741	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1743	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 1745	0	0.278013564	1.498668	-0.4320262	-0.9135557
## 1746	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 1748	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1749	1	3.145118040	1.498668	-0.4320262	-0.9135557
## 1750	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1751	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 1752	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 1753	0	1.998276250	1.498668	-0.4320262	-0.9135557
## 1754	1	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1755	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 1756	0	1.998276250	-0.667037	-0.4320262	1.0942591
## 1758	0	1.233715056	-0.667037	-0.4320262	-0.9135557
## 1759	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1760	0	-0.868828226	-0.667037	-0.4320262	-0.9135557
## 1761	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1762	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 1763	0	1.042574758	-0.667037	2.3139030	-0.9135557
## 1764	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1765	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1767	0	2.476126996	-0.667037	2.3139030	-0.9135557
## 1770	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 1771	0	0.278013564	1.498668	-0.4320262	-0.9135557
## 1772	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 1774	1	3.431828488	1.498668	-0.4320262	-0.9135557
## 1775	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1777	0	0.469153862	1.498668	-0.4320262	-0.9135557
## 1778	0	-0.199837182	-0.667037	-0.4320262	1.0942591

#	1779	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1780	1	-0.486547630	-0.667037	2.3139030	-0.9135557
#	1781	0	2.093846399	-0.667037	2.3139030	-0.9135557
#	1783	0	0.373583713	-0.667037	-0.4320262	1.0942591
#	1784	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1785	1	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1786	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
#	1787	1	4.291959831	1.498668	-0.4320262	-0.9135557
#	1788	0	-1.155538674	1.498668	-0.4320262	-0.9135557
#	1789	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1791	0	2.380556847	-0.667037	-0.4320262	1.0942591
#	1793	1	0.947004609	-0.667037	2.3139030	-0.9135557
#	1796	1	-0.295407331	-0.667037	2.3139030	-0.9135557
#	1797	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1799	0	0.947004609	1.498668	-0.4320262	-0.9135557
#	1800	1	-0.199837182	-0.667037	2.3139030	-0.9135557
#	1801	1	-0.390977480	1.498668	-0.4320262	-0.9135557
#	1802	1	-1.442249122	1.498668	-0.4320262	-0.9135557
#	1803	0	-1.155538674	-0.667037	2.3139030	-0.9135557
#	1804	0	-0.295407331	-0.667037	-0.4320262	1.0942591
#	1805	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1806	1	1.998276250	1.498668	-0.4320262	-0.9135557
#	1807	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1809	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1810	0	-1.155538674	-0.667037	-0.4320262	1.0942591
#	1813	0	0.564724012	-0.667037	-0.4320262	-0.9135557
#	1814	0	-1.059968525	-0.667037	-0.4320262	1.0942591
#	1815	1	-0.486547630	1.498668	-0.4320262	-0.9135557
#	1818	1	-0.199837182	-0.667037	-0.4320262	1.0942591
#	1819	1	-1.346678973	1.498668	-0.4320262	-0.9135557
#	1820	0	-0.582117779	-0.667037	-0.4320262	1.0942591
#	1821	0	-0.677687928	-0.667037	2.3139030	-0.9135557
#	1823	0	-0.295407331	-0.667037	-0.4320262	1.0942591
#	1824	1	-0.199837182	-0.667037	-0.4320262	1.0942591

## 1825	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1826	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1828	1	3.049547891	1.498668	-0.4320262	-0.9135557
## 1829	1	-0.104267033	-0.667037	2.3139030	-0.9135557
## 1830	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 1832	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1834	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1835	1	2.189416548	-0.667037	2.3139030	-0.9135557
## 1838	0	-0.390977480	-0.667037	-0.4320262	1.0942591
## 1839	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1840	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1841	1	2.762837444	1.498668	-0.4320262	-0.9135557
## 1842	0	0.086873266	-0.667037	2.3139030	-0.9135557
## 1843	0	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1844	0	1.329285205	-0.667037	2.3139030	-0.9135557
## 1846	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 1847	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1848	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1850	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 1852	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1853	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1856	1	1.424855355	-0.667037	-0.4320262	1.0942591
## 1858	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1859	1	-1.251108823	-0.667037	-0.4320262	1.0942591
## 1861	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1862	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1863	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1864	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1865	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1867	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1868	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 1869	0	2.571697145	-0.667037	-0.4320262	1.0942591
## 1870	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1872	0	-0.390977480	-0.667037	-0.4320262	1.0942591

## 1873	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1875	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1876	0	1.902706101	-0.667037	-0.4320262	1.0942591
## 1877	1	-1.059968525	-0.667037	2.3139030	-0.9135557
## 1878	0	0.278013564	-0.667037	2.3139030	-0.9135557
## 1879	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 1880	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 1881	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1885	1	-0.582117779	-0.667037	2.3139030	-0.9135557
## 1887	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1890	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1891	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1892	0	2.093846399	-0.667037	-0.4320262	1.0942591
## 1894	1	-0.582117779	-0.667037	-0.4320262	1.0942591
## 1895	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 1896	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1897	0	-0.964398376	-0.667037	2.3139030	-0.9135557
## 1899	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 1900	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1901	1	2.858407593	1.498668	-0.4320262	-0.9135557
## 1902	0	1.329285205	-0.667037	2.3139030	-0.9135557
## 1903	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1905	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1906	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 1907	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 1908	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 1909	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1910	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 1911	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1913	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1915	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1916	1	1.902706101	1.498668	-0.4320262	-0.9135557
## 1917	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1918	1	-1.346678973	1.498668	-0.4320262	-0.9135557

## 1919	0	1.042574758	-0.667037	-0.4320262	-0.9135557
## 1920	1	0.278013564	-0.667037	-0.4320262	1.0942591
## 1921	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1923	0	-1.059968525	-0.667037	2.3139030	-0.9135557
## 1924	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 1925	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1927	0	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 1929	0	1.807135951	-0.667037	-0.4320262	1.0942591
## 1930	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 1932	0	-0.868828226	1.498668	-0.4320262	-0.9135557
## 1933	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 1934	0	1.520425504	-0.667037	-0.4320262	-0.9135557
## 1935	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 1937	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 1938	0	2.476126996	-0.667037	2.3139030	-0.9135557
## 1939	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 1940	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1943	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1944	0	3.431828488	-0.667037	-0.4320262	1.0942591
## 1945	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1949	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 1951	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1952	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 1954	0	0.086873266	-0.667037	-0.4320262	1.0942591
## 1955	0	-0.008696884	1.498668	-0.4320262	-0.9135557
## 1956	0	4.100819533	1.498668	-0.4320262	-0.9135557
## 1957	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1958	0	-1.537819271	-0.667037	2.3139030	-0.9135557
## 1959	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 1960	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 1962	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1963	1	-2.015670017	1.498668	-0.4320262	-0.9135557
## 1965	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1966	0	-0.008696884	-0.667037	2.3139030	-0.9135557

## 1968	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1970	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1971	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1972	0	0.564724012	-0.667037	2.3139030	-0.9135557
## 1973	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 1975	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 1978	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 1979	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 1982	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 1984	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 1986	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1987	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 1988	0	1.042574758	-0.667037	-0.4320262	1.0942591
## 1989	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1990	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1991	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 1994	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1995	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 1997	1	-0.773258077	-0.667037	2.3139030	-0.9135557
## 1998	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2002	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 2004	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2005	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2006	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2007	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2008	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2009	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2010	0	1.233715056	1.498668	-0.4320262	-0.9135557
## 2011	0	-1.537819271	-0.667037	2.3139030	-0.9135557
## 2013	0	-0.582117779	-0.667037	-0.4320262	-0.9135557
## 2017	1	0.182443415	-0.667037	2.3139030	-0.9135557
## 2018	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2019	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2020	1	2.571697145	1.498668	-0.4320262	-0.9135557

## 2021	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2022	0	1.711565802	-0.667037	-0.4320262	-0.9135557
## 2023	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2025	1	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2026	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 2027	0	1.329285205	-0.667037	-0.4320262	-0.9135557
## 2028	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 2029	0	0.564724012	-0.667037	-0.4320262	1.0942591
## 2030	0	0.469153862	-0.667037	2.3139030	-0.9135557
## 2031	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 2032	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2033	0	0.086873266	-0.667037	2.3139030	-0.9135557
## 2034	0	-0.582117779	-0.667037	2.3139030	-0.9135557
## 2035	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2036	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 2037	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2038	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2039	0	0.469153862	-0.667037	-0.4320262	1.0942591
## 2041	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2042	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 2043	1	3.336258339	1.498668	-0.4320262	-0.9135557
## 2044	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2046	0	-1.346678973	-0.667037	-0.4320262	1.0942591
## 2047	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2048	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2049	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2051	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 2053	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2054	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2055	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2056	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2058	0	-0.964398376	-0.667037	-0.4320262	-0.9135557
## 2061	1	-0.677687928	-0.667037	-0.4320262	1.0942591
## 2064	1	-0.677687928	1.498668	-0.4320262	-0.9135557

## 2065	0 -0.486547630	-0.667037	-0.4320262	-0.9135557
## 2066	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2067	0 -0.868828226	-0.667037	-0.4320262	1.0942591
## 2068	1 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2069	1 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2070	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2071	0 1.711565802	-0.667037	-0.4320262	1.0942591
## 2072	1 -0.773258077	1.498668	-0.4320262	-0.9135557
## 2073	0 1.138144907	-0.667037	2.3139030	-0.9135557
## 2074	1 -0.868828226	1.498668	-0.4320262	-0.9135557
## 2076	0 -0.677687928	-0.667037	2.3139030	-0.9135557
## 2077	1 0.564724012	1.498668	-0.4320262	-0.9135557
## 2078	1 -1.537819271	1.498668	-0.4320262	-0.9135557
## 2081	0 -0.295407331	-0.667037	-0.4320262	1.0942591
## 2082	1 -0.773258077	1.498668	-0.4320262	-0.9135557
## 2083	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2084	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2085	0 -1.059968525	1.498668	-0.4320262	-0.9135557
## 2090	1 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2091	1 2.953977742	-0.667037	-0.4320262	1.0942591
## 2092	1 -0.486547630	-0.667037	2.3139030	-0.9135557
## 2093	1 1.998276250	1.498668	-0.4320262	-0.9135557
## 2094	1 -1.059968525	1.498668	-0.4320262	-0.9135557
## 2095	1 -0.199837182	1.498668	-0.4320262	-0.9135557
## 2096	0 -1.920099868	-0.667037	-0.4320262	-0.9135557
## 2097	0 -0.677687928	-0.667037	2.3139030	-0.9135557
## 2098	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2100	1 -0.390977480	1.498668	-0.4320262	-0.9135557
## 2101	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2104	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2105	1 -0.868828226	1.498668	-0.4320262	-0.9135557
## 2107	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2110	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2112	1 -0.582117779	1.498668	-0.4320262	-0.9135557

## 2113	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2114	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2116	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2117	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 2118	1	-0.295407331	-0.667037	-0.4320262	-0.9135557
## 2119	0	0.373583713	-0.667037	-0.4320262	-0.9135557
## 2121	0	0.278013564	1.498668	-0.4320262	-0.9135557
## 2122	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2123	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2124	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
## 2127	1	1.329285205	-0.667037	2.3139030	-0.9135557
## 2128	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2129	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2130	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 2132	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2137	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 2139	0	2.476126996	-0.667037	-0.4320262	1.0942591
## 2140	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2141	0	0.182443415	-0.667037	-0.4320262	1.0942591
## 2142	1	1.138144907	-0.667037	-0.4320262	-0.9135557
## 2145	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2146	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2147	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 2149	0	1.042574758	-0.667037	-0.4320262	1.0942591
## 2151	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2154	0	-0.486547630	1.498668	-0.4320262	-0.9135557
## 2155	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 2156	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2157	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2158	0	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 2159	0	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2161	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2163	0	-1.155538674	-0.667037	-0.4320262	1.0942591
## 2164	0	0.469153862	-0.667037	-0.4320262	-0.9135557

## 2166	1	0.564724012	-0.667037	-0.4320262	-0.9135557
## 2167	0	2.476126996	1.498668	-0.4320262	-0.9135557
## 2168	0	-0.868828226	1.498668	-0.4320262	-0.9135557
## 2169	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2170	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2171	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2172	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2173	0	1.520425504	-0.667037	-0.4320262	-0.9135557
## 2174	0	0.086873266	-0.667037	2.3139030	-0.9135557
## 2176	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2177	0	2.762837444	1.498668	-0.4320262	-0.9135557
## 2179	0	-1.824529719	1.498668	-0.4320262	-0.9135557
## 2180	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 2182	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2183	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2184	0	0.373583713	-0.667037	2.3139030	-0.9135557
## 2185	1	1.711565802	-0.667037	-0.4320262	-0.9135557
## 2186	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2189	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2190	0	1.329285205	-0.667037	2.3139030	-0.9135557
## 2191	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2192	0	-0.964398376	-0.667037	2.3139030	-0.9135557
## 2194	1	0.947004609	1.498668	-0.4320262	-0.9135557
## 2195	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2196	1	2.953977742	-0.667037	-0.4320262	1.0942591
## 2197	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2198	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 2199	0	0.182443415	-0.667037	-0.4320262	1.0942591
## 2200	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2201	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2203	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2207	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 2209	0	0.851434459	-0.667037	-0.4320262	1.0942591
## 2210	1	0.086873266	-0.667037	2.3139030	-0.9135557

#	2213	1	2.380556847	-0.667037	-0.4320262	-0.9135557
#	2214	0	1.711565802	-0.667037	2.3139030	-0.9135557
#	2215	0	0.564724012	-0.667037	-0.4320262	-0.9135557
#	2216	0	-1.633389420	-0.667037	-0.4320262	1.0942591
#	2218	0	-0.773258077	1.498668	-0.4320262	-0.9135557
#	2219	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2220	0	-1.059968525	-0.667037	-0.4320262	-0.9135557
#	2221	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2222	1	0.851434459	-0.667037	2.3139030	-0.9135557
#	2223	0	0.182443415	-0.667037	2.3139030	-0.9135557
#	2224	0	-1.442249122	-0.667037	-0.4320262	1.0942591
#	2225	1	0.660294161	1.498668	-0.4320262	-0.9135557
#	2226	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2227	1	-0.868828226	-0.667037	-0.4320262	1.0942591
#	2229	0	-1.346678973	1.498668	-0.4320262	-0.9135557
#	2230	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2231	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2234	1	-0.486547630	1.498668	-0.4320262	-0.9135557
#	2235	1	1.615995653	-0.667037	-0.4320262	1.0942591
#	2236	0	1.042574758	-0.667037	-0.4320262	1.0942591
#	2237	0	2.953977742	1.498668	-0.4320262	-0.9135557
#	2238	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2241	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2242	0	1.711565802	-0.667037	2.3139030	-0.9135557
#	2245	0	-0.868828226	-0.667037	-0.4320262	1.0942591
#	2246	0	0.278013564	-0.667037	-0.4320262	1.0942591
#	2248	0	-1.346678973	1.498668	-0.4320262	-0.9135557
#	2249	1	-1.442249122	1.498668	-0.4320262	-0.9135557
#	2250	0	0.660294161	-0.667037	2.3139030	-0.9135557
#	2251	0	-0.295407331	-0.667037	-0.4320262	-0.9135557
#	2252	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2253	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2254	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2258	1	2.093846399	-0.667037	-0.4320262	-0.9135557

## 2259	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2260	0	0.086873266	-0.667037	-0.4320262	1.0942591
## 2263	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2266	0	1.807135951	1.498668	-0.4320262	-0.9135557
## 2269	0	0.182443415	-0.667037	2.3139030	-0.9135557
## 2270	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2271	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2272	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2273	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2275	0	1.042574758	-0.667037	-0.4320262	1.0942591
## 2276	1	-0.964398376	-0.667037	2.3139030	-0.9135557
## 2277	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 2278	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2280	0	1.998276250	1.498668	-0.4320262	-0.9135557
## 2281	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2284	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2285	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 2286	0	-0.390977480	-0.667037	2.3139030	-0.9135557
## 2287	0	2.858407593	-0.667037	-0.4320262	1.0942591
## 2288	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 2289	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 2290	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2293	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 2294	0	-1.155538674	-0.667037	2.3139030	-0.9135557
## 2295	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2298	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2301	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2303	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2304	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2306	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 2307	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2308	0	0.851434459	-0.667037	-0.4320262	1.0942591
## 2310	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2312	0	-0.773258077	-0.667037	-0.4320262	1.0942591

## 2313	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2314	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2315	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2316	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2318	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2320	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2321	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2322	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2323	0	0.755864310	-0.667037	-0.4320262	-0.9135557
## 2324	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2325	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2329	0	0.564724012	-0.667037	2.3139030	-0.9135557
## 2330	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2331	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2332	0	-0.008696884	-0.667037	-0.4320262	1.0942591
## 2334	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2335	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 2336	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2337	0	3.049547891	-0.667037	2.3139030	-0.9135557
## 2338	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2340	0	-1.633389420	-0.667037	-0.4320262	-0.9135557
## 2341	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 2343	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2344	0	1.424855355	-0.667037	2.3139030	-0.9135557
## 2345	1	-1.155538674	-0.667037	2.3139030	-0.9135557
## 2346	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2348	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2352	0	1.233715056	-0.667037	-0.4320262	1.0942591
## 2353	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 2354	0	-1.059968525	-0.667037	2.3139030	-0.9135557
## 2355	0	0.851434459	-0.667037	2.3139030	-0.9135557
## 2356	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2357	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2359	0	2.093846399	-0.667037	-0.4320262	-0.9135557

## 2360	1	0.373583713	1.498668	-0.4320262	-0.9135557
## 2361	0	-1.537819271	1.498668	-0.4320262	-0.9135557
## 2362	1	0.564724012	1.498668	-0.4320262	-0.9135557
## 2363	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2364	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2365	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2366	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2367	0	0.373583713	-0.667037	-0.4320262	-0.9135557
## 2368	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2370	0	-0.199837182	-0.667037	2.3139030	-0.9135557
## 2371	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2372	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2374	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2376	0	0.086873266	-0.667037	-0.4320262	1.0942591
## 2377	0	1.329285205	-0.667037	-0.4320262	-0.9135557
## 2379	0	0.182443415	-0.667037	2.3139030	-0.9135557
## 2380	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2381	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2382	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2383	1	-0.582117779	1.498668	-0.4320262	-0.9135557
## 2384	0	1.042574758	-0.667037	-0.4320262	-0.9135557
## 2385	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2387	0	1.998276250	1.498668	-0.4320262	-0.9135557
## 2388	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2389	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2390	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2392	0	0.086873266	-0.667037	-0.4320262	-0.9135557
## 2394	0	-0.582117779	-0.667037	-0.4320262	1.0942591
## 2396	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2397	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2400	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2402	1	0.660294161	1.498668	-0.4320262	-0.9135557
## 2404	1	1.329285205	-0.667037	-0.4320262	1.0942591
## 2405	1	-0.964398376	1.498668	-0.4320262	-0.9135557

## 2406	0	-1.251108823	-0.667037	2.3139030	-0.9135557
## 2407	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2408	0	-1.442249122	1.498668	-0.4320262	-0.9135557
## 2410	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2411	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2413	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2414	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2415	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2416	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2417	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2418	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2419	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 2420	1	2.476126996	-0.667037	-0.4320262	1.0942591
## 2422	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2423	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2424	0	0.660294161	-0.667037	-0.4320262	1.0942591
## 2426	0	1.520425504	-0.667037	2.3139030	-0.9135557
## 2427	1	2.189416548	1.498668	-0.4320262	-0.9135557
## 2428	1	1.424855355	-0.667037	-0.4320262	-0.9135557
## 2430	0	-0.486547630	-0.667037	2.3139030	-0.9135557
## 2433	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2434	1	-1.346678973	1.498668	-0.4320262	-0.9135557
## 2436	1	-1.633389420	1.498668	-0.4320262	-0.9135557
## 2437	1	-0.868828226	-0.667037	-0.4320262	1.0942591
## 2438	1	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2439	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2441	1	0.182443415	-0.667037	-0.4320262	-0.9135557
## 2443	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2444	1	1.520425504	-0.667037	2.3139030	-0.9135557
## 2445	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2448	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2449	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2450	1	-1.155538674	-0.667037	-0.4320262	1.0942591
## 2451	1	-0.964398376	1.498668	-0.4320262	-0.9135557

## 2452	0 -1.155538674	-0.667037	-0.4320262	-0.9135557
## 2453	0 0.851434459	1.498668	-0.4320262	-0.9135557
## 2454	1 -0.582117779	1.498668	-0.4320262	-0.9135557
## 2456	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2458	1 -0.868828226	-0.667037	2.3139030	-0.9135557
## 2460	0 2.571697145	-0.667037	-0.4320262	-0.9135557
## 2461	0 -0.582117779	1.498668	-0.4320262	-0.9135557
## 2462	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2463	0 0.660294161	-0.667037	-0.4320262	-0.9135557
## 2469	1 0.086873266	-0.667037	2.3139030	-0.9135557
## 2470	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2471	1 1.233715056	1.498668	-0.4320262	-0.9135557
## 2473	1 -0.773258077	1.498668	-0.4320262	-0.9135557
## 2474	1 -0.582117779	1.498668	-0.4320262	-0.9135557
## 2477	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2479	0 2.667267294	-0.667037	-0.4320262	1.0942591
## 2481	0 -0.486547630	-0.667037	-0.4320262	-0.9135557
## 2482	0 0.851434459	-0.667037	-0.4320262	1.0942591
## 2483	1 -1.059968525	-0.667037	2.3139030	-0.9135557
## 2485	0 1.329285205	-0.667037	-0.4320262	1.0942591
## 2488	0 1.520425504	1.498668	-0.4320262	-0.9135557
## 2490	1 1.711565802	1.498668	-0.4320262	-0.9135557
## 2491	0 0.086873266	-0.667037	-0.4320262	1.0942591
## 2492	1 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2495	1 -0.677687928	1.498668	-0.4320262	-0.9135557
## 2496	0 -0.773258077	-0.667037	-0.4320262	-0.9135557
## 2497	1 -0.773258077	1.498668	-0.4320262	-0.9135557
## 2498	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2499	1 -0.677687928	1.498668	-0.4320262	-0.9135557
## 2500	1 1.138144907	1.498668	-0.4320262	-0.9135557
## 2501	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2503	0 -0.199837182	-0.667037	-0.4320262	1.0942591
## 2506	1 -0.964398376	1.498668	-0.4320262	-0.9135557
## 2508	0 -1.537819271	-0.667037	-0.4320262	1.0942591

## 2509	0	-0.868828226	1.498668	-0.4320262	-0.9135557
## 2510	0	-1.155538674	-0.667037	-0.4320262	-0.9135557
## 2511	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2513	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2514	1	-1.537819271	1.498668	-0.4320262	-0.9135557
## 2515	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 2516	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 2517	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 2518	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2520	0	0.851434459	-0.667037	2.3139030	-0.9135557
## 2521	0	1.902706101	-0.667037	-0.4320262	1.0942591
## 2522	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2523	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2524	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2525	0	-0.008696884	-0.667037	-0.4320262	-0.9135557
## 2526	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 2528	1	1.042574758	-0.667037	-0.4320262	-0.9135557
## 2529	0	-0.964398376	-0.667037	-0.4320262	1.0942591
## 2531	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 2532	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2533	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2535	0	0.755864310	-0.667037	2.3139030	-0.9135557
## 2537	0	1.520425504	1.498668	-0.4320262	-0.9135557
## 2538	0	1.424855355	-0.667037	-0.4320262	-0.9135557
## 2539	0	-0.008696884	1.498668	-0.4320262	-0.9135557
## 2540	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2542	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2545	1	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2546	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2547	0	-0.486547630	1.498668	-0.4320262	-0.9135557
## 2549	1	0.755864310	1.498668	-0.4320262	-0.9135557
## 2552	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2553	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2554	0	0.086873266	-0.667037	-0.4320262	1.0942591

## 2555	0	0.755864310	1.498668	-0.4320262	-0.9135557
## 2556	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2558	0	1.138144907	-0.667037	-0.4320262	1.0942591
## 2559	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 2560	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2562	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 2564	1	0.373583713	1.498668	-0.4320262	-0.9135557
## 2567	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2569	1	-0.486547630	1.498668	-0.4320262	-0.9135557
## 2570	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2571	0	1.042574758	-0.667037	-0.4320262	-0.9135557
## 2572	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2573	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2574	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2576	0	3.431828488	1.498668	-0.4320262	-0.9135557
## 2577	0	-0.868828226	-0.667037	2.3139030	-0.9135557
## 2578	1	-0.104267033	-0.667037	2.3139030	-0.9135557
## 2579	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2580	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2581	0	-0.199837182	-0.667037	-0.4320262	-0.9135557
## 2582	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2584	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2585	1	1.138144907	-0.667037	2.3139030	-0.9135557
## 2588	0	2.476126996	-0.667037	2.3139030	-0.9135557
## 2589	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2591	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2592	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2593	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2594	1	1.615995653	-0.667037	2.3139030	-0.9135557
## 2596	1	1.902706101	-0.667037	2.3139030	-0.9135557
## 2597	1	2.093846399	1.498668	-0.4320262	-0.9135557
## 2598	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2601	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2602	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 2603	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2604	1	-1.155538674	-0.667037	2.3139030	-0.9135557
## 2605	0	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2606	1	1.711565802	1.498668	-0.4320262	-0.9135557
## 2607	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2608	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2610	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2611	0	0.182443415	-0.667037	-0.4320262	1.0942591
## 2612	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 2613	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2614	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2615	0	2.189416548	-0.667037	-0.4320262	-0.9135557
## 2616	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2617	1	-0.582117779	-0.667037	-0.4320262	1.0942591
## 2619	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2620	1	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2621	0	2.093846399	-0.667037	-0.4320262	-0.9135557
## 2622	0	-1.442249122	1.498668	-0.4320262	-0.9135557
## 2624	0	0.564724012	-0.667037	-0.4320262	-0.9135557
## 2628	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2629	0	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2630	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2631	0	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2634	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2635	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2636	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2637	1	0.086873266	1.498668	-0.4320262	-0.9135557
## 2638	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 2639	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2643	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2644	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2645	0	1.424855355	1.498668	-0.4320262	-0.9135557
## 2646	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2647	1	1.520425504	-0.667037	2.3139030	-0.9135557

## 2648	0	1.615995653	1.498668	-0.4320262	-0.9135557
## 2649	1	3.240688190	1.498668	-0.4320262	-0.9135557
## 2650	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2651	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2652	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2653	0	0.469153862	-0.667037	-0.4320262	-0.9135557
## 2654	1	-1.442249122	1.498668	-0.4320262	-0.9135557
## 2655	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2656	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2657	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2658	1	3.145118040	-0.667037	2.3139030	-0.9135557
## 2659	0	1.042574758	1.498668	-0.4320262	-0.9135557
## 2660	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2661	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2662	0	1.902706101	-0.667037	2.3139030	-0.9135557
## 2663	0	1.520425504	-0.667037	-0.4320262	-0.9135557
## 2665	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2667	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2670	1	0.469153862	1.498668	-0.4320262	-0.9135557
## 2671	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2672	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2673	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2675	0	2.380556847	-0.667037	-0.4320262	-0.9135557
## 2679	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2681	1	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2683	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 2685	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2687	0	2.571697145	-0.667037	2.3139030	-0.9135557
## 2688	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2690	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2692	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2695	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2696	0	-1.728959569	1.498668	-0.4320262	-0.9135557
## 2698	0	-0.390977480	-0.667037	-0.4320262	-0.9135557

## 2700	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2703	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2708	0	0.851434459	-0.667037	-0.4320262	1.0942591
## 2709	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2710	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2713	0	-0.964398376	-0.667037	2.3139030	-0.9135557
## 2714	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2715	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2716	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 2717	1	-0.008696884	-0.667037	2.3139030	-0.9135557
## 2719	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 2721	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2722	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 2724	0	1.042574758	1.498668	-0.4320262	-0.9135557
## 2725	0	-2.589090912	1.498668	-0.4320262	-0.9135557
## 2726	0	2.380556847	-0.667037	-0.4320262	1.0942591
## 2727	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2728	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2729	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2730	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2731	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2732	1	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2733	0	-1.346678973	-0.667037	-0.4320262	1.0942591
## 2734	0	0.373583713	-0.667037	-0.4320262	1.0942591
## 2735	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2736	1	0.278013564	1.498668	-0.4320262	-0.9135557
## 2737	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2741	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2742	0	2.476126996	-0.667037	2.3139030	-0.9135557
## 2743	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2744	1	-0.964398376	-0.667037	-0.4320262	1.0942591
## 2746	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2747	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2749	0	-0.199837182	-0.667037	-0.4320262	1.0942591

#	2750	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2751	0	0.182443415	1.498668	-0.4320262	-0.9135557
#	2752	0	-0.773258077	-0.667037	-0.4320262	1.0942591
#	2754	0	-0.390977480	-0.667037	-0.4320262	1.0942591
#	2756	0	-0.964398376	-0.667037	-0.4320262	1.0942591
#	2757	0	2.953977742	-0.667037	-0.4320262	-0.9135557
#	2758	0	-0.390977480	-0.667037	2.3139030	-0.9135557
#	2760	1	0.755864310	1.498668	-0.4320262	-0.9135557
#	2761	0	-0.868828226	1.498668	-0.4320262	-0.9135557
#	2763	1	-1.155538674	1.498668	-0.4320262	-0.9135557
#	2764	0	0.086873266	1.498668	-0.4320262	-0.9135557
#	2765	1	-0.964398376	1.498668	-0.4320262	-0.9135557
#	2767	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2768	1	1.902706101	-0.667037	2.3139030	-0.9135557
#	2769	1	-1.251108823	-0.667037	-0.4320262	1.0942591
#	2770	0	-0.964398376	-0.667037	-0.4320262	1.0942591
#	2771	0	-0.964398376	-0.667037	-0.4320262	1.0942591
#	2773	1	-1.346678973	1.498668	-0.4320262	-0.9135557
#	2774	1	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2776	0	-0.104267033	-0.667037	-0.4320262	1.0942591
#	2777	0	-1.537819271	-0.667037	2.3139030	-0.9135557
#	2778	0	-1.346678973	-0.667037	-0.4320262	1.0942591
#	2779	0	-0.199837182	-0.667037	2.3139030	-0.9135557
#	2781	0	-0.295407331	-0.667037	-0.4320262	1.0942591
#	2782	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2784	0	-0.295407331	-0.667037	2.3139030	-0.9135557
#	2787	1	1.233715056	-0.667037	2.3139030	-0.9135557
#	2788	1	-1.537819271	1.498668	-0.4320262	-0.9135557
#	2790	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2791	0	-0.104267033	-0.667037	-0.4320262	-0.9135557
#	2792	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2793	1	-0.582117779	1.498668	-0.4320262	-0.9135557
#	2794	0	0.564724012	-0.667037	-0.4320262	-0.9135557
#	2795	0	-0.199837182	-0.667037	-0.4320262	1.0942591

## 2798	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2799	0	1.329285205	-0.667037	2.3139030	-0.9135557
## 2800	0	-0.868828226	1.498668	-0.4320262	-0.9135557
## 2802	1	-0.008696884	1.498668	-0.4320262	-0.9135557
## 2807	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2811	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2812	1	-0.104267033	1.498668	-0.4320262	-0.9135557
## 2813	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2814	1	0.564724012	1.498668	-0.4320262	-0.9135557
## 2815	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2816	0	0.182443415	-0.667037	-0.4320262	-0.9135557
## 2817	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 2818	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2820	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2821	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2822	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2823	1	2.284986698	1.498668	-0.4320262	-0.9135557
## 2824	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2826	0	-1.251108823	-0.667037	-0.4320262	1.0942591
## 2827	0	-0.773258077	-0.667037	-0.4320262	1.0942591
## 2828	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 2829	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2831	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2832	1	0.947004609	-0.667037	2.3139030	-0.9135557
## 2833	0	1.233715056	-0.667037	2.3139030	-0.9135557
## 2834	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2835	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2837	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2838	0	1.042574758	1.498668	-0.4320262	-0.9135557
## 2839	0	-1.442249122	-0.667037	-0.4320262	1.0942591
## 2840	0	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2843	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2845	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2846	0	0.947004609	1.498668	-0.4320262	-0.9135557

## 2847	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2848	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2850	1	-0.295407331	-0.667037	2.3139030	-0.9135557
## 2852	0	0.660294161	-0.667037	-0.4320262	-0.9135557
## 2853	0	-0.773258077	-0.667037	2.3139030	-0.9135557
## 2855	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2856	1	1.329285205	1.498668	-0.4320262	-0.9135557
## 2857	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2860	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2861	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2862	0	2.571697145	-0.667037	-0.4320262	1.0942591
## 2864	0	-0.582117779	1.498668	-0.4320262	-0.9135557
## 2865	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2866	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2867	0	-1.155538674	1.498668	-0.4320262	-0.9135557
## 2868	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2869	0	2.571697145	-0.667037	-0.4320262	1.0942591
## 2870	1	3.431828488	1.498668	-0.4320262	-0.9135557
## 2871	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2872	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2873	1	-0.199837182	1.498668	-0.4320262	-0.9135557
## 2875	0	-1.537819271	-0.667037	-0.4320262	1.0942591
## 2877	0	0.947004609	-0.667037	-0.4320262	1.0942591
## 2878	0	0.947004609	-0.667037	2.3139030	-0.9135557
## 2879	1	-1.251108823	-0.667037	2.3139030	-0.9135557
## 2880	0	1.615995653	-0.667037	-0.4320262	-0.9135557
## 2881	0	2.571697145	-0.667037	2.3139030	-0.9135557
## 2883	0	0.373583713	-0.667037	2.3139030	-0.9135557
## 2884	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2885	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2887	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2888	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2889	0	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2890	0	0.086873266	-0.667037	2.3139030	-0.9135557

## 2891	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2892	0	-1.346678973	-0.667037	2.3139030	-0.9135557
## 2893	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2894	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2895	0	-1.059968525	-0.667037	-0.4320262	1.0942591
## 2896	0	-0.295407331	-0.667037	-0.4320262	1.0942591
## 2898	0	0.278013564	-0.667037	-0.4320262	1.0942591
## 2901	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2903	1	1.520425504	1.498668	-0.4320262	-0.9135557
## 2904	0	0.086873266	1.498668	-0.4320262	-0.9135557
## 2905	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2906	0	-0.677687928	-0.667037	-0.4320262	1.0942591
## 2907	1	-0.677687928	1.498668	-0.4320262	-0.9135557
## 2908	1	3.240688190	1.498668	-0.4320262	-0.9135557
## 2909	0	-0.582117779	-0.667037	2.3139030	-0.9135557
## 2910	0	-0.008696884	-0.667037	2.3139030	-0.9135557
## 2911	1	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2912	0	-1.346678973	1.498668	-0.4320262	-0.9135557
## 2913	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2914	1	-0.964398376	1.498668	-0.4320262	-0.9135557
## 2916	0	0.947004609	1.498668	-0.4320262	-0.9135557
## 2918	0	2.953977742	-0.667037	2.3139030	-0.9135557
## 2920	0	-1.059968525	-0.667037	2.3139030	-0.9135557
## 2921	0	-1.251108823	1.498668	-0.4320262	-0.9135557
## 2922	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2923	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2924	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2925	1	0.851434459	1.498668	-0.4320262	-0.9135557
## 2926	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2927	0	-0.868828226	-0.667037	-0.4320262	1.0942591
## 2928	1	1.138144907	1.498668	-0.4320262	-0.9135557
## 2929	0	-0.677687928	-0.667037	2.3139030	-0.9135557
## 2930	0	-0.773258077	1.498668	-0.4320262	-0.9135557
## 2931	0	-0.199837182	-0.667037	-0.4320262	1.0942591

#	2933	1	1.329285205	1.498668	-0.4320262	-0.9135557
#	2934	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2935	0	1.329285205	1.498668	-0.4320262	-0.9135557
#	2936	0	2.762837444	-0.667037	-0.4320262	1.0942591
#	2938	1	-0.295407331	1.498668	-0.4320262	-0.9135557
#	2939	0	-0.964398376	1.498668	-0.4320262	-0.9135557
#	2940	1	1.807135951	1.498668	-0.4320262	-0.9135557
#	2941	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2943	1	-0.868828226	-0.667037	2.3139030	-0.9135557
#	2945	0	0.182443415	-0.667037	2.3139030	-0.9135557
#	2946	1	2.3805556847	1.498668	-0.4320262	-0.9135557
#	2947	1	-0.104267033	1.498668	-0.4320262	-0.9135557
#	2948	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2950	0	-0.295407331	1.498668	-0.4320262	-0.9135557
#	2954	0	0.086873266	-0.667037	-0.4320262	-0.9135557
#	2955	1	-1.155538674	1.498668	-0.4320262	-0.9135557
#	2956	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2957	1	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2959	1	-0.964398376	1.498668	-0.4320262	-0.9135557
#	2961	0	-0.008696884	1.498668	-0.4320262	-0.9135557
#	2962	1	-1.728959569	1.498668	-0.4320262	-0.9135557
#	2964	0	-0.486547630	1.498668	-0.4320262	-0.9135557
#	2965	0	1.424855355	-0.667037	-0.4320262	1.0942591
#	2966	0	-0.199837182	-0.667037	-0.4320262	1.0942591
#	2967	0	-0.773258077	-0.667037	2.3139030	-0.9135557
#	2968	0	-0.964398376	-0.667037	-0.4320262	1.0942591
#	2969	0	1.520425504	-0.667037	-0.4320262	-0.9135557
#	2970	0	2.093846399	-0.667037	-0.4320262	-0.9135557
#	2974	1	-0.773258077	-0.667037	-0.4320262	1.0942591
#	2976	0	-1.442249122	1.498668	-0.4320262	-0.9135557
#	2977	1	-1.059968525	1.498668	-0.4320262	-0.9135557
#	2979	1	0.660294161	1.498668	-0.4320262	-0.9135557
#	2980	0	-0.677687928	-0.667037	2.3139030	-0.9135557
#	2981	0	1.615995653	-0.667037	2.3139030	-0.9135557

## 2982	1	-0.390977480	1.498668	-0.4320262	-0.9135557
## 2985	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2986	1	-0.390977480	-0.667037	-0.4320262	1.0942591
## 2987	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2988	1	-2.111240166	1.498668	-0.4320262	-0.9135557
## 2989	1	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2992	1	-0.868828226	1.498668	-0.4320262	-0.9135557
## 2994	0	-0.199837182	-0.667037	-0.4320262	1.0942591
## 2995	1	-1.059968525	1.498668	-0.4320262	-0.9135557
## 2996	1	-0.964398376	-0.667037	2.3139030	-0.9135557
## 2997	0	-0.295407331	1.498668	-0.4320262	-0.9135557
## 2998	0	-0.199837182	-0.667037	-0.4320262	1.0942591
##	Agency_Code	JZI	TypeAirlines	TypeTravel_Agency	Commision ChannelOff
line					
## 3 7674	-0.2941666	-0.7955416		0.7955416 -0.337076650	-0.124
## 4 7674	-0.2941666	-0.7955416		0.7955416 -0.570187362	-0.124
## 6 7674	3.3983011	1.2565863		-1.2565863 0.047909222	-0.124
## 7 7674	-0.2941666	-0.7955416		0.7955416 0.828476909	-0.124
## 8 7674	-0.2941666	-0.7955416		0.7955416 -0.570187362	-0.124
## 9 7674	-0.2941666	-0.7955416		0.7955416 -0.570187362	-0.124
## 10 7674	-0.2941666	-0.7955416		0.7955416 -0.570187362	-0.124
## 11 7674	-0.2941666	1.2565863		-1.2565863 1.272721565	-0.124
## 13 7674	-0.2941666	-0.7955416		0.7955416 -0.570187362	-0.124
## 15 7674	-0.2941666	-0.7955416		0.7955416 0.362255485	-0.124
## 16 7674	-0.2941666	1.2565863		-1.2565863 1.549000928	-0.124
## 18 7674	-0.2941666	-0.7955416		0.7955416 1.760919757	-0.124

## 21 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 22 7674	-0.2941666	1.2565863	-1.2565863	0.106775564	-0.124
## 23 7674	-0.2941666	1.2565863	-1.2565863	-0.324910940	-0.124
## 24 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 25 7674	3.3983011	1.2565863	-1.2565863	-0.020768176	-0.124
## 26 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 27 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 28 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 29 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 30 7674	3.3983011	1.2565863	-1.2565863	0.432502653	-0.124
## 31 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 32 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
## 35 2397	-0.2941666	-0.7955416	0.7955416	-0.570187362	8.012
## 36 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 38 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 39 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 40 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 41 7674	-0.2941666	-0.7955416	0.7955416	0.067531336	-0.124
## 44 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 45 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 47 7674	-0.2941666	1.2565863	-1.2565863	1.009392798	-0.124

## 49 7674	3.3983011	1.2565863	-1.2565863 -0.116916534	-0.124
## 50 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 52 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124
## 53 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
## 55 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 56 7674	-0.2941666	1.2565863	-1.2565863 -0.280564963	-0.124
## 57 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
## 58 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 59 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 60 7674	-0.2941666	1.2565863	-1.2565863 -0.270361464	-0.124
## 63 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 65 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 66 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 67 7674	-0.2941666	1.2565863	-1.2565863 0.352051986	-0.124
## 69 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 71 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 76 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 77 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 78 7674	-0.2941666	1.2565863	-1.2565863 -0.187556143	-0.124
## 79 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124
## 80 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 81 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 82 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 83 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 87 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 90 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 93 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 94 7674	-0.2941666	1.2565863	-1.2565863 2.696894585	-0.124
## 95 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 96 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 97 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 98 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 99 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 100 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 102 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 103 7674	-0.2941666	1.2565863	-1.2565863 0.474886418	-0.124
## 104 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
## 105 7674	-0.2941666	1.2565863	-1.2565863 -0.539969307	-0.124
## 106 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
## 107 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 108 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 109 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 110 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 111 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
## 112 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 113 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 115 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 118 7674	-0.2941666	1.2565863	-1.2565863 -0.364155167	-0.124
## 119 7674	-0.2941666	-0.7955416	0.7955416 1.527809045	-0.124
## 120 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 121 7674	-0.2941666	-0.7955416	0.7955416 0.118548832	-0.124
## 122 7674	-0.2941666	1.2565863	-1.2565863 0.214697189	-0.124
## 124 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 125 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 126 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 127 7674	-0.2941666	-0.7955416	0.7955416 2.460251892	-0.124
## 128 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
## 130 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
## 131 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 133 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 134 7674	-0.2941666	-0.7955416	0.7955416 5.291722913	-0.124
## 135 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 136 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 137 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 138 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 141 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 143 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 144 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 146 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 147 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 148 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 149 7674	-0.2941666	-0.7955416	0.7955416	0.548273124	-0.124
## 150 7674	-0.2941666	1.2565863	-1.2565863	-0.393588338	-0.124
## 151 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 153 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 154 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 155 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 157 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 158 7674	-0.2941666	-0.7955416	0.7955416	1.055308544	-0.124
## 159 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 162 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 163 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 164 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 165 7674	-0.2941666	1.2565863	-1.2565863	0.219798939	-0.124

## 166 7674	-0.2941666	-0.7955416	0.7955416	1.381428076	-0.124
## 167 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 168 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 169 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 171 7674	-0.2941666	1.2565863	-1.2565863	-0.403399395	-0.124
## 172 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 174 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 175 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 176 7674	-0.2941666	1.2565863	-1.2565863	-0.359053418	-0.124
## 177 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
## 178 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 179 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 180 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 182 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 183 7674	-0.2941666	-0.7955416	0.7955416	1.527809045	-0.124
## 185 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 186 7674	-0.2941666	1.2565863	-1.2565863	0.293185645	-0.124
## 188 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 189 7674	-0.2941666	-0.7955416	0.7955416	2.693362604	-0.124
## 190 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 192 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124

## 194 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 195 7674	-0.2941666	1.2565863	-1.2565863	2.165527743	-0.124
## 196 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 197 7674	-0.2941666	1.2565863	-1.2565863	1.972838586	-0.124
## 199 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 200 7674	-0.2941666	-0.7955416	0.7955416	0.858302522	-0.124
## 201 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 203 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 204 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 208 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 209 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 210 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 211 7674	3.3983011	1.2565863	-1.2565863	0.034173743	-0.124
## 212 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 214 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 215 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 219 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 220 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 222 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 223 7674	-0.2941666	1.2565863	-1.2565863	-0.421059297	-0.124
## 224 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124

## 226 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 228 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 230 7674	-0.2941666	1.2565863	-1.2565863	-0.094154882	-0.124
## 231 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 232 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 233 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 235 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 237 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 238 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 239 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 242 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 244 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 246 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 247 7674	-0.2941666	-0.7955416	0.7955416	7.679341720	-0.124
## 248 7674	-0.2941666	1.2565863	-1.2565863	-0.221698621	-0.124
## 249 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 250 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 252 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 253 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 254 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 255 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 256 7674	-0.2941666	1.2565863	-1.2565863	-0.373966224	-0.124
# # 258 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
# # 259 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
# # 260 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 261 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 266 7674	-0.2941666	1.2565863	-1.2565863	-0.162832280	-0.124
# # 267 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
# # 268 7674	-0.2941666	1.2565863	-1.2565863	2.292286598	-0.124
# # 269 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
# # 270 7674	-0.2941666	1.2565863	-1.2565863	-0.558806536	-0.124
# # 271 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 273 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 275 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 276 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 277 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 279 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 283 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

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## 287 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 288 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 289 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 292 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 295 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 296 7674	3.3983011	1.2565863	-1.2565863	0.034173743	-0.124
## 297 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 298 7674	-0.2941666	1.2565863	-1.2565863	1.009392798	-0.124
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## 300 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 301 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 302 7674	-0.2941666	-0.7955416	0.7955416	1.760919757	-0.124
## 303 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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## 306 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 308 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 310 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
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## 312 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 314 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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## 317 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 318 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 320 7674	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
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## 323 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 324 7674	-0.2941666	-0.7955416	0.7955416	3.392694740	-0.124
## 325 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 328 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 329 7674	3.3983011	1.2565863	-1.2565863	1.325308830	-0.124
## 330 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 332 7674	-0.2941666	1.2565863	-1.2565863	-0.329620247	-0.124
## 334 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 335 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 336 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
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## 344 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 345 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 346 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 349 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 351 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 352 7674	-0.2941666	-0.7955416	0.7955416 1.294698333	-0.124
## 353 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 354 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 358 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 359 7674	-0.2941666	1.2565863	-1.2565863 0.136208734	-0.124
## 361 7674	-0.2941666	1.2565863	-1.2565863 -0.335506881	-0.124
## 362 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 364 7674	-0.2941666	-0.7955416	0.7955416 1.294698333	-0.124
## 367 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 368 7674	-0.2941666	1.2565863	-1.2565863 -0.074532768	-0.124
## 370 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 372 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 373 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 375 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 377 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 378 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 379 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 380 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 381 7674	-0.2941666	-0.7955416	0.7955416	0.294755414	-0.124
## 382 7674	-0.2941666	1.2565863	-1.2565863	2.344088979	-0.124
## 383 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 386 7674	-0.2941666	1.2565863	-1.2565863	-0.324910940	-0.124
## 388 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 389 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 391 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 392 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 393 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 395 7674	-0.2941666	1.2565863	-1.2565863	-0.309998133	-0.124
## 396 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 397 7674	-0.2941666	1.2565863	-1.2565863	-0.329620247	-0.124
## 398 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 402 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 403 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 404 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 405 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 406 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124

# # 407 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 408 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 410 7674	3.3983011	1.2565863	-1.2565863	0.569857449	-0.124
# # 411 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 412 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 414 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
# # 415 7674	-0.2941666	1.2565863	-1.2565863	0.654232539	-0.124
# # 416 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 417 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
# # 418 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 419 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 420 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 421 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 422 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 423 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 424 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
# # 425 7674	-0.2941666	1.2565863	-1.2565863	-0.335506881	-0.124
# # 426 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 428 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 429 7674	-0.2941666	-0.7955416	0.7955416	1.760919757	-0.124
# # 430 7674	-0.2941666	1.2565863	-1.2565863	0.042022588	-0.124

# # 431	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 435	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
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# # 436	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
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# # 437	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
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# # 438	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 439	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
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# # 442	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 444	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
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# # 447	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 448	-0.2941666	1.2565863	-1.2565863	-0.550957691	-0.124
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# # 450	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 451	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
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# # 452	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 455	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
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# # 456	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 457	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
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# # 458	-0.2941666	-0.7955416	0.7955416	0.067531336	-0.124
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# # 460	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
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# # 462	-0.2941666	1.2565863	-1.2565863	0.047909222	-0.124
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# # 464	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
7674					

# # 465 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 466 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 467 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
# # 468 7674	3.3983011	1.2565863	-1.2565863 0.047909222	-0.124
# # 469 7674	-0.2941666	1.2565863	-1.2565863 -0.187556143	-0.124
# # 470 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 473 7674	-0.2941666	-0.7955416	0.7955416 0.169566328	-0.124
# # 474 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 475 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 476 7674	-0.2941666	-0.7955416	0.7955416 0.361078158	-0.124
# # 477 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 478 7674	-0.2941666	1.2565863	-1.2565863 2.292286598	-0.124
# # 479 7674	-0.2941666	-0.7955416	0.7955416 0.067531336	-0.124
# # 480 7674	-0.2941666	-0.7955416	0.7955416 2.227141180	-0.124
# # 481 7674	-0.2941666	1.2565863	-1.2565863 0.229609996	-0.124
# # 482 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 485 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 487 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 488 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 489 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
# # 490 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

# # 491	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
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# # 493	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 495	-0.2941666	1.2565863	-1.2565863	-0.109067688	-0.124
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# # 496	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 497	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 500	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
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# # 502	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 503	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 504	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 506	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 507	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 508	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 509	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 510	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 514	-0.2941666	-0.7955416	0.7955416	2.693362604	-0.124
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# # 515	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 516	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
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# # 517	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
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# # 519	-0.2941666	1.2565863	-1.2565863	0.357153736	-0.124
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## 521 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
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## 523 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 524 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 526 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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## 529 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 531 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
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## 535 7674	-0.2941666	-0.7955416	0.7955416	0.548273124	-0.124
## 536 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 537 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 538 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 541 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 542 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 544 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 545 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 546 7674	-0.2941666	1.2565863	-1.2565863	-0.045099597	-0.124
## 547 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 548 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124

## 550 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 551 7674	-0.2941666	1.2565863	-1.2565863 -0.413210452	-0.124
## 552 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
## 553 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 554 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 555 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 556 7674	-0.2941666	-0.7955416	0.7955416 -0.337076650	-0.124
## 557 7674	3.3983011	1.2565863	-1.2565863 -0.020768176	-0.124
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## 560 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 561 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 562 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 563 7674	-0.2941666	1.2565863	-1.2565863 0.214697189	-0.124
## 564 2397	-0.2941666	-0.7955416	0.7955416 -0.194620104	8.012
## 565 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 566 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 570 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 571 7674	-0.2941666	1.2565863	-1.2565863 2.696894585	-0.124
## 573 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 574 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 575 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124

## 578	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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## 582	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
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## 590	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
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## 594	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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## 595	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
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## 598	-0.2941666	1.2565863	-1.2565863	1.696166781	-0.124
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## 599	3.3983011	1.2565863	-1.2565863	0.047909222	-0.124
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## 601	-0.2941666	1.2565863	-1.2565863	-0.496408214	-0.124
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## 602	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
## 606	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
## 608	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
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## 612 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 613 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 614 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 615 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 616 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 618 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 620 7674	-0.2941666	1.2565863	-1.2565863	2.292286598	-0.124
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## 622 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 623 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 624 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 625 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 627 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 628 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 629 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 631 7674	-0.2941666	1.2565863	-1.2565863	-0.532512904	-0.124
## 632 7674	-0.2941666	-0.7955416	0.7955416	3.858916164	-0.124
## 633 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 634 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124

#	637	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	639	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	641	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	642	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
7	674					
#	644	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	645	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	646	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	647	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
7	674					
#	649	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	650	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	651	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124
7	674					
#	653	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	654	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	656	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	657	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	658	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	659	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	660	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7	674					
#	661	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7	674					
#	662	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
7	674					
#	663	-0.2941666	1.2565863	-1.2565863	0.277487954	-0.124
7	674					

# # 664 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 665 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
# # 666 7674	-0.2941666	1.2565863	-1.2565863 -0.083558940	-0.124
# # 668 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 669 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
# # 672 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 673 7674	-0.2941666	1.2565863	-1.2565863 -0.340608631	-0.124
# # 678 2397	-0.2941666	-0.7955416	0.7955416 -0.158122973	8.012
# # 679 7674	-0.2941666	1.2565863	-1.2565863 -0.285666712	-0.124
# # 681 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 683 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 684 7674	-0.2941666	1.2565863	-1.2565863 -0.340608631	-0.124
# # 685 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
# # 687 7674	-0.2941666	1.2565863	-1.2565863 -0.353166784	-0.124
# # 688 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 689 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 690 7674	-0.2941666	1.2565863	-1.2565863 0.405424136	-0.124
# # 691 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 693 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 695 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
# # 696 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

# # 697 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 698 7674	-0.2941666	1.2565863	-1.2565863 0.053010972	-0.124
# # 699 7674	-0.2941666	1.2565863	-1.2565863 0.106775564	-0.124
# # 700 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 701 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
# # 702 7674	-0.2941666	1.2565863	-1.2565863 -0.437541873	-0.124
# # 704 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 705 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
# # 706 7674	-0.2941666	-0.7955416	0.7955416 0.828476909	-0.124
# # 707 7674	-0.2941666	1.2565863	-1.2565863 -0.158122973	-0.124
# # 711 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 712 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 713 7674	3.3983011	1.2565863	-1.2565863 -0.158122973	-0.124
# # 714 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 715 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 716 7674	-0.2941666	-0.7955416	0.7955416 1.994030468	-0.124
# # 718 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 719 7674	-0.2941666	-0.7955416	0.7955416 -0.337076650	-0.124
# # 720 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 721 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 722 7674	-0.2941666	1.2565863	-1.2565863 0.259043167	-0.124

## 723 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 724 7674	-0.2941666	1.2565863	-1.2565863	-0.388486589	-0.124
## 725 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 726 7674	-0.2941666	1.2565863	-1.2565863	1.764844179	-0.124
## 727 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 729 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 730 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 732 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 733 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 738 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 739 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 740 7674	-0.2941666	1.2565863	-1.2565863	0.042022588	-0.124
## 742 7674	-0.2941666	1.2565863	-1.2565863	-0.397905203	-0.124
## 743 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 744 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 747 7674	-0.2941666	1.2565863	-1.2565863	-0.277032982	-0.124
## 748 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 749 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 750 2397	-0.2941666	-0.7955416	0.7955416	-0.194620104	8.012
## 751 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
## 752 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124

# #	753	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	754	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	755	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	757	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
	7674					
# #	758	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
	7674					
# #	759	-0.2941666	1.2565863	-1.2565863	-0.532512904	-0.124
	7674					
# #	761	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	762	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	763	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	764	-0.2941666	1.2565863	-1.2565863	-0.209140468	-0.124
	7674					
# #	765	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
	7674					
# #	769	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	770	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
	7674					
# #	772	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
	7674					
# #	773	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	774	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
	7674					
# #	775	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	777	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	778	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
	7674					
# #	779	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	780	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
	7674					

## 781 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 782 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 783 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 784 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 785 7674	-0.2941666	1.2565863	-1.2565863	-0.373966224	-0.124
## 788 7674	-0.2941666	-0.7955416	0.7955416	0.501180051	-0.124
## 789 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 790 7674	-0.2941666	1.2565863	-1.2565863	2.292286598	-0.124
## 791 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 792 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 793 7674	-0.2941666	1.2565863	-1.2565863	-0.285666712	-0.124
## 794 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 795 7674	-0.2941666	1.2565863	-1.2565863	-0.045099597	-0.124
## 796 7674	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
## 797 7674	-0.2941666	1.2565863	-1.2565863	3.837331838	-0.124
## 798 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 799 7674	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
## 800 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 803 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 804 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 806 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 807 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 810 7674	-0.2941666	1.2565863	-1.2565863	-0.467367486	-0.124
## 811 7674	-0.2941666	1.2565863	-1.2565863	3.249845751	-0.124
## 814 7674	-0.2941666	-0.7955416	0.7955416	-0.152628781	-0.124
## 815 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
## 816 7674	-0.2941666	-0.7955416	0.7955416	1.994030468	-0.124
## 817 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 819 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 820 7674	-0.2941666	1.2565863	-1.2565863	0.111877313	-0.124
## 822 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 823 7674	-0.2941666	1.2565863	-1.2565863	2.292286598	-0.124
## 825 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
## 826 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 827 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 830 7674	-0.2941666	1.2565863	-1.2565863	1.029014912	-0.124
## 831 7674	-0.2941666	1.2565863	-1.2565863	2.396676244	-0.124
## 832 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 833 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 834 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 835 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 837 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 842 7674	-0.2941666	1.2565863	-1.2565863	-0.285666712	-0.124
# # 843 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
# # 844 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 845 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 846 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
# # 847 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
# # 848 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 849 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
# # 851 7674	-0.2941666	1.2565863	-1.2565863	1.009392798	-0.124
# # 852 7674	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124
# # 855 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 858 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 859 7674	-0.2941666	1.2565863	-1.2565863	-0.469722140	-0.124
# # 860 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 862 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
# # 863 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 864 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 866 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
# # 867 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 868 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 869 7674	3.3983011	1.2565863	-1.2565863	0.748418685	-0.124

## 872 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 873 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 876 7674	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124
## 877 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
## 878 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 879 7674	-0.2941666	1.2565863	-1.2565863	-0.340608631	-0.124
## 880 7674	-0.2941666	1.2565863	-1.2565863	-0.158122973	-0.124
## 881 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 886 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 887 7674	-0.2941666	1.2565863	-1.2565863	-0.393588338	-0.124
## 888 7674	-0.2941666	1.2565863	-1.2565863	3.837331838	-0.124
## 890 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 892 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 893 7674	-0.2941666	1.2565863	-1.2565863	2.184757415	-0.124
## 895 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 897 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 898 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 899 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 902 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 903 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 904 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124

# #	905	-0.2941666	1.2565863	-1.2565863	-0.270361464	-0.124
	7674					
# #	906	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
	7674					
# #	907	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
	7674					
# #	909	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	911	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	912	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
	7674					
# #	913	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	914	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	915	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
	7674					
# #	917	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	919	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	921	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	922	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	923	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
	7674					
# #	924	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	925	-0.2941666	-0.7955416	0.7955416	-0.570187362	8.012
	2397					
# #	927	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	928	-0.2941666	-0.7955416	0.7955416	-0.194620104	8.012
	2397					
# #	929	-0.2941666	1.2565863	-1.2565863	0.803360603	-0.124
	7674					
# #	932	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
	7674					
# #	933	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
	7674					

# # 935	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 936	-0.2941666	1.2565863	-1.2565863	-0.237003870	-0.124
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# # 937	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 939	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
7674					
# # 940	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 941	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 942	-0.2941666	-0.7955416	0.7955416	-0.137715974	-0.124
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# # 946	-0.2941666	1.2565863	-1.2565863	0.420729384	-0.124
7674					
# # 947	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
7674					
# # 949	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
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# # 950	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 952	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
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# # 957	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 958	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 960	-0.2941666	-0.7955416	0.7955416	0.160540155	-0.124
7674					
# # 961	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
7674					
# # 962	-0.2941666	1.2565863	-1.2565863	-0.015666426	-0.124
7674					
# # 963	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
7674					
# # 964	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
7674					
# # 965	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 966	-0.2941666	1.2565863	-1.2565863	2.382940764	-0.124
7674					

## 967 7674	-0.2941666	1.2565863	-1.2565863	0.881849059	-0.124
## 968 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 969 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 971 7674	-0.2941666	1.2565863	-1.2565863	-0.344533054	-0.124
## 975 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 977 7674	-0.2941666	1.2565863	-1.2565863	-0.202076508	-0.124
## 978 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 979 7674	-0.2941666	1.2565863	-1.2565863	-0.221698621	-0.124
## 981 7674	-0.2941666	1.2565863	-1.2565863	-0.111029900	-0.124
## 982 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 983 7674	-0.2941666	1.2565863	-1.2565863	0.087153450	-0.124
## 984 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 985 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 988 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 989 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 990 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 991 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 992 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 993 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 994 7674	-0.2941666	1.2565863	-1.2565863	0.691906997	-0.124
## 995 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 996 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 997 7674	3.3983011	1.2565863	-1.2565863	0.047909222	-0.124
## 999 7674	-0.2941666	1.2565863	-1.2565863	-0.334329555	-0.124
## 1000 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 1001 7674	-0.2941666	1.2565863	-1.2565863	1.483463067	-0.124
## 1002 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 1004 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1006 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1007 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1008 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1009 7674	3.3983011	1.2565863	-1.2565863	-0.020768176	-0.124
## 1010 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1011 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1012 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1013 7674	-0.2941666	1.2565863	-1.2565863	-0.015666426	-0.124
## 1014 7674	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
## 1016 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1017 7674	-0.2941666	-0.7955416	0.7955416	0.105990679	-0.124
## 1018 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1020 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1023 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1024 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1025 2397	-0.2941666	-0.7955416	0.7955416 -0.194620104	8.012
## 1032 7674	-0.2941666	1.2565863	-1.2565863 -0.437541873	-0.124
## 1033 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1034 7674	-0.2941666	1.2565863	-1.2565863 -0.548210595	-0.124
## 1035 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 1039 7674	-0.2941666	1.2565863	-1.2565863 -0.568225151	-0.124
## 1041 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1044 7674	-0.2941666	1.2565863	-1.2565863 -0.413210452	-0.124
## 1045 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1046 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1049 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1050 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
## 1051 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124
## 1055 7674	-0.2941666	-0.7955416	0.7955416 -0.152628781	-0.124
## 1056 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1057 7674	-0.2941666	1.2565863	-1.2565863 -0.083558940	-0.124
## 1058 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1059 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1061 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1062 7674	-0.2941666	1.2565863	-1.2565863 -0.349242361	-0.124

## 1063 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 1064 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1065 7674	-0.2941666	1.2565863	-1.2565863	1.460701415	-0.124
## 1066 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1067 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1070 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1074 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1075 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1080 7674	-0.2941666	-0.7955416	0.7955416	7.679341720	-0.124
## 1081 7674	-0.2941666	1.2565863	-1.2565863	0.102066256	-0.124
## 1082 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1086 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
## 1087 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1088 7674	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
## 1091 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1092 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1093 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
## 1095 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1096 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1098 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1099 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1100 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
## 1102 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1104 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1105 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 1107 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1108 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 1110 7674	-0.2941666	1.2565863	-1.2565863	-0.045099597	-0.124
## 1111 7674	-0.2941666	-0.7955416	0.7955416	0.361078158	-0.124
## 1112 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1113 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 1114 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1115 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1117 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1118 7674	-0.2941666	1.2565863	-1.2565863	2.292286598	-0.124
## 1119 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1121 7674	-0.2941666	1.2565863	-1.2565863	-0.388486589	-0.124
## 1122 7674	-0.2941666	1.2565863	-1.2565863	-0.158122973	-0.124
## 1127 7674	-0.2941666	1.2565863	-1.2565863	-0.403399395	-0.124
## 1129 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1130 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1131 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124

## 1132 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1134 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1135 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1136 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1137 7674	-0.2941666	1.2565863	-1.2565863	-0.339431304	-0.124
## 1138 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1141 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1142 7674	-0.2941666	1.2565863	-1.2565863	0.273563531	-0.124
## 1143 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1144 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1145 7674	-0.2941666	-0.7955416	0.7955416	3.159584028	-0.124
## 1146 7674	-0.2941666	1.2565863	-1.2565863	0.259043167	-0.124
## 1147 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1148 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1150 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1152 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1153 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1156 7674	-0.2941666	-0.7955416	0.7955416	5.024469723	-0.124
## 1157 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1158 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1159 7674	-0.2941666	-0.7955416	0.7955416	-0.152628781	-0.124

## 1160 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1161 7674	3.3983011	1.2565863	-1.2565863	0.748418685	-0.124
## 1163 7674	-0.2941666	1.2565863	-1.2565863	-0.373966224	-0.124
## 1166 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1167 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1168 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 1169 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1172 7674	-0.2941666	1.2565863	-1.2565863	1.784466293	-0.124
## 1175 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1176 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1177 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1178 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1179 7674	-0.2941666	1.2565863	-1.2565863	0.357153736	-0.124
## 1181 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1182 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1184 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1185 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1186 7674	-0.2941666	1.2565863	-1.2565863	1.244858164	-0.124
## 1187 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1188 7674	-0.2941666	1.2565863	-1.2565863	-0.339431304	-0.124
## 1189 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124

## 1190 7674	3.3983011	1.2565863	-1.2565863	-0.061974615	-0.124
## 1191 7674	-0.2941666	-0.7955416	0.7955416	1.036863758	-0.124
## 1194 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1195 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1197 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1198 7674	3.3983011	1.2565863	-1.2565863	-0.020768176	-0.124
## 1201 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 1203 7674	-0.2941666	1.2565863	-1.2565863	4.717972306	-0.124
## 1205 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1206 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1207 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1208 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1211 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1212 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1216 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1217 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1218 7674	-0.2941666	1.2565863	-1.2565863	3.249845751	-0.124
## 1219 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1220 7674	-0.2941666	1.2565863	-1.2565863	-0.322948729	-0.124
## 1221 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1224 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1225 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 1226 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1227 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1229 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 1230 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1231 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1233 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1234 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 1235 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1236 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 1238 7674	-0.2941666	1.2565863	-1.2565863	-0.563123401	-0.124
## 1242 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1247 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1249 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1251 7674	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
## 1252 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1253 7674	-0.2941666	-0.7955416	0.7955416	1.760919757	-0.124
## 1256 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1258 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1259 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1263 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124

# # 1264 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
# # 1265 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1266 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1269 7674	-0.2941666	1.2565863	-1.2565863 1.272721565	-0.124
# # 1270 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1271 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1272 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 1273 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1274 2397	-0.2941666	-0.7955416	0.7955416 -0.158122973	8.012
# # 1276 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1282 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1283 7674	-0.2941666	1.2565863	-1.2565863 -0.315099883	-0.124
# # 1284 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
# # 1285 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1286 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 1287 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
# # 1288 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1289 7674	-0.2941666	1.2565863	-1.2565863 0.401107271	-0.124
# # 1290 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 1291 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 1293 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 1294 7674	-0.2941666	1.2565863	-1.2565863	0.126397677	-0.124
## 1296 7674	-0.2941666	1.2565863	-1.2565863	-0.388486589	-0.124
## 1298 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1299 7674	-0.2941666	1.2565863	-1.2565863	2.382940764	-0.124
## 1301 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 1302 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1304 7674	-0.2941666	-0.7955416	0.7955416	1.527809045	-0.124
## 1305 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1306 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1308 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1309 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 1311 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
## 1312 7674	-0.2941666	1.2565863	-1.2565863	0.465860246	-0.124
## 1315 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1317 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1318 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1320 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1321 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1323 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1324 7674	-0.2941666	1.2565863	-1.2565863	-0.548210595	-0.124
## 1325 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124

## 1326 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 1327 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1328 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1329 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 1330 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1331 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1332 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1334 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1335 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1340 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 1341 7674	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
## 1343 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1347 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1348 7674	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
## 1350 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1352 7674	-0.2941666	1.2565863	-1.2565863	-0.172643337	-0.124
## 1354 7674	3.3983011	1.2565863	-1.2565863	0.034173743	-0.124
## 1355 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 1356 7674	-0.2941666	1.2565863	-1.2565863	-0.556059440	-0.124
## 1357 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1358 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1359 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1360 7674	-0.2941666	1.2565863	-1.2565863 0.073810412	-0.124
## 1363 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1364 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1368 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1369 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1370 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
## 1372 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
## 1374 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1375 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1376 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1377 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1378 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 1379 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 1383 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 1384 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1385 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
## 1386 7674	-0.2941666	1.2565863	-1.2565863 -0.083558940	-0.124
## 1387 7674	-0.2941666	1.2565863	-1.2565863 -0.349242361	-0.124
## 1388 7674	-0.2941666	1.2565863	-1.2565863 -0.373966224	-0.124
## 1389 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 1390 7674	-0.2941666	-0.7955416	0.7955416	1.368477481	-0.124
## 1391 7674	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124
## 1393 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1395 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1397 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1399 7674	-0.2941666	1.2565863	-1.2565863	2.101559652	-0.124
## 1400 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1403 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 1404 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1405 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1406 7674	-0.2941666	-0.7955416	0.7955416	1.994030468	-0.124
## 1408 7674	-0.2941666	1.2565863	-1.2565863	-0.373966224	-0.124
## 1409 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1410 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 1412 7674	-0.2941666	1.2565863	-1.2565863	-0.388486589	-0.124
## 1413 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1414 7674	-0.2941666	1.2565863	-1.2565863	-0.228762582	-0.124
## 1415 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1417 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1418 7674	-0.2941666	1.2565863	-1.2565863	-0.221698621	-0.124
## 1420 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1421 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1422 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 1423 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1424 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1425 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1426 7674	-0.2941666	1.2565863	-1.2565863	-0.045099597	-0.124
## 1427 7674	-0.2941666	1.2565863	-1.2565863	0.040452819	-0.124
## 1429 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1430 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1431 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1432 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1434 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1436 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1437 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1438 7674	3.3983011	1.2565863	-1.2565863	0.102851141	-0.124
## 1439 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 1443 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1445 7674	-0.2941666	-0.7955416	0.7955416	3.625805452	-0.124
## 1446 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 1447 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 1449 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# #	1450	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1452	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7674						
# #	1454	-0.2941666	-0.7955416	0.7955416	-0.570187362	8.012
2397						
# #	1455	-0.2941666	1.2565863	-1.2565863	0.391296214	-0.124
7674						
# #	1456	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
7674						
# #	1457	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1458	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7674						
# #	1459	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1462	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1463	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
7674						
# #	1464	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1465	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
7674						
# #	1466	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1468	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
7674						
# #	1470	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1472	-0.2941666	1.2565863	-1.2565863	-0.381815070	-0.124
7674						
# #	1474	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
7674						
# #	1475	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1477	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1478	-0.2941666	1.2565863	-1.2565863	-0.222875948	-0.124
7674						
# #	1479	-0.2941666	1.2565863	-1.2565863	3.350310974	-0.124
7674						

## 1480 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1481 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1482 7674	-0.2941666	-0.7955416	0.7955416	4.325137587	-0.124
## 1483 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1484 7674	-0.2941666	1.2565863	-1.2565863	0.560046392	-0.124
## 1485 7674	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
## 1486 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1487 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 1489 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
## 1494 7674	-0.2941666	1.2565863	-1.2565863	-0.109067688	-0.124
## 1496 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1498 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1500 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1501 7674	-0.2941666	1.2565863	-1.2565863	-0.397905203	-0.124
## 1503 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1504 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 1505 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1507 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1508 7674	-0.2941666	1.2565863	-1.2565863	-0.319809190	-0.124
## 1509 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 1510 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124

## 1511 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1513 7674	-0.2941666	1.2565863	-1.2565863 -0.388486589	-0.124
## 1517 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1518 7674	-0.2941666	-0.7955416	0.7955416 0.361078158	-0.124
## 1519 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1520 2397	-0.2941666	-0.7955416	0.7955416 -0.158122973	8.012
## 1521 7674	-0.2941666	1.2565863	-1.2565863 0.053010972	-0.124
## 1522 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1523 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1525 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
## 1526 7674	-0.2941666	-0.7955416	0.7955416 4.325137587	-0.124
## 1527 7674	3.3983011	1.2565863	-1.2565863 0.432502653	-0.124
## 1528 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1529 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1531 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1532 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1535 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1536 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1537 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1538 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1539 7674	-0.2941666	1.2565863	-1.2565863 0.053010972	-0.124

## 1540 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1542 7674	-0.2941666	1.2565863	-1.2565863	0.538462067	-0.124
## 1543 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1544 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 1548 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1551 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1553 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1556 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 1558 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1559 2397	-0.2941666	-0.7955416	0.7955416	-0.194620104	8.012
## 1560 7674	-0.2941666	1.2565863	-1.2565863	0.068316221	-0.124
## 1561 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 1562 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1563 7674	-0.2941666	1.2565863	-1.2565863	1.972838586	-0.124
## 1565 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1566 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1568 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1569 7674	-0.2941666	1.2565863	-1.2565863	-0.561161190	-0.124
## 1570 7674	-0.2941666	1.2565863	-1.2565863	-0.079634517	-0.124
## 1571 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1572 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1573 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1574 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1575 7674	-0.2941666	1.2565863	-1.2565863 -0.083558940	-0.124
## 1577 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1578 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 1579 7674	-0.2941666	1.2565863	-1.2565863 -0.413210452	-0.124
## 1580 7674	-0.2941666	1.2565863	-1.2565863 -0.209140468	-0.124
## 1581 7674	-0.2941666	1.2565863	-1.2565863 1.972838586	-0.124
## 1582 7674	3.3983011	1.2565863	-1.2565863 1.915934456	-0.124
## 1584 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1585 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1586 7674	-0.2941666	1.2565863	-1.2565863 -0.187556143	-0.124
## 1587 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1588 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 1590 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1591 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1592 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1593 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1595 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1596 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1597 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124

## 1598 7674	-0.2941666	1.2565863	-1.2565863	-0.207178257	-0.124
## 1599 7674	-0.2941666	1.2565863	-1.2565863	-0.103965939	-0.124
## 1600 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1601 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1602 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1604 7674	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
## 1605 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 1606 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1607 7674	-0.2941666	1.2565863	-1.2565863	-0.172643337	-0.124
## 1608 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1609 7674	-0.2941666	-0.7955416	0.7955416	2.926473316	-0.124
## 1610 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1611 7674	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
## 1612 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1614 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1616 7674	-0.2941666	-0.7955416	0.7955416	1.760919757	-0.124
## 1617 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1618 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1619 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 1621 7674	-0.2941666	1.2565863	-1.2565863	0.273563531	-0.124
## 1622 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124

## 1623 7674	-0.2941666	1.2565863	-1.2565863	1.009392798	-0.124
## 1625 7674	-0.2941666	1.2565863	-1.2565863	-0.397905203	-0.124
## 1627 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1629 7674	-0.2941666	-0.7955416	0.7955416	1.527809045	-0.124
## 1630 7674	-0.2941666	1.2565863	-1.2565863	-0.403399395	-0.124
## 1631 7674	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
## 1632 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1634 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 1635 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1636 7674	-0.2941666	1.2565863	-1.2565863	0.298287394	-0.124
## 1637 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1639 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 1640 7674	-0.2941666	1.2565863	-1.2565863	-0.522309405	-0.124
## 1641 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1643 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1644 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1645 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
## 1646 7674	-0.2941666	1.2565863	-1.2565863	-0.403399395	-0.124
## 1650 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 1651 7674	-0.2941666	1.2565863	-1.2565863	-0.529765808	-0.124
## 1652 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 1654 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 1656 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1657 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1658 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1659 7674	-0.2941666	-0.7955416	0.7955416 1.527809045	-0.124
## 1661 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1662 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 1663 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
## 1665 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1668 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
## 1669 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1670 7674	-0.2941666	1.2565863	-1.2565863 0.416020077	-0.124
## 1671 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1673 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1674 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
## 1675 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124
## 1677 7674	3.3983011	1.2565863	-1.2565863 -0.116916534	-0.124
## 1679 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1680 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1683 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1685 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

# #	1687	-0.2941666	-0.7955416	0.7955416	0.548273124	-0.124
	7674					
# #	1689	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1690	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1691	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
	7674					
# #	1692	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
	7674					
# #	1693	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
	7674					
# #	1694	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
	7674					
# #	1695	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1696	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
	7674					
# #	1697	-0.2941666	1.2565863	-1.2565863	-0.548995479	-0.124
	7674					
# #	1698	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1699	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1701	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1704	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1705	-0.2941666	1.2565863	-1.2565863	0.287299011	-0.124
	7674					
# #	1706	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1707	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
	7674					
# #	1708	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
	7674					
# #	1710	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1711	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
	7674					
# #	1713	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
	7674					

## 1716 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1717 7674	-0.2941666	1.2565863	-1.2565863	0.159755271	-0.124
## 1718 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 1719 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 1720 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1722 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
## 1723 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1724 7674	-0.2941666	1.2565863	-1.2565863	-0.231509678	-0.124
## 1725 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1726 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1727 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 1728 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
## 1729 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1730 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 1732 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1733 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1735 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1737 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1738 2397	-0.2941666	-0.7955416	0.7955416	-0.570187362	8.012
## 1739 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1740 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# #	1741	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# #	1743	-0.2941666	-0.7955416	0.7955416	0.180947154	8.012
2397						
# #	1745	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
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# #	1746	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# #	1748	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
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# #	1750	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# #	1751	-0.2941666	1.2565863	-1.2565863	-0.015666426	-0.124
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# #	1753	-0.2941666	1.2565863	-1.2565863	-0.052163558	-0.124
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# #	1754	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
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# #	1755	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
7674						
# #	1756	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1758	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7674						
# #	1759	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1760	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7674						
# #	1761	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1762	-0.2941666	1.2565863	-1.2565863	0.178200058	-0.124
7674						
# #	1763	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
7674						
# #	1764	-0.2941666	1.2565863	-1.2565863	-0.014489100	-0.124
7674						
# #	1765	-0.2941666	1.2565863	-1.2565863	-0.550565249	-0.124
7674						

## 1767 7674	-0.2941666	-0.7955416	0.7955416	4.325137587	-0.124
## 1770 7674	-0.2941666	1.2565863	-1.2565863	-0.103965939	-0.124
## 1771 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 1772 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1774 7674	-0.2941666	1.2565863	-1.2565863	0.533752760	-0.124
## 1775 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1777 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
## 1778 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1779 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1780 7674	-0.2941666	-0.7955416	0.7955416	2.926473316	-0.124
## 1781 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1783 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1784 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1785 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1786 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 1787 7674	-0.2941666	1.2565863	-1.2565863	0.111877313	-0.124
## 1788 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 1789 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1791 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1793 7674	-0.2941666	-0.7955416	0.7955416	0.846529254	-0.124
## 1796 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124

## 1797 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1799 7674	-0.2941666	1.2565863	-1.2565863	-0.560376305	-0.124
## 1800 7674	-0.2941666	-0.7955416	0.7955416	3.625805452	-0.124
## 1801 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 1802 7674	-0.2941666	1.2565863	-1.2565863	1.183637169	-0.124
## 1803 2397	-0.2941666	-0.7955416	0.7955416	-0.194620104	8.012
## 1804 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1805 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1806 7674	-0.2941666	1.2565863	-1.2565863	1.325308830	-0.124
## 1807 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1809 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1810 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1813 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 1814 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1815 7674	-0.2941666	1.2565863	-1.2565863	-0.177745086	-0.124
## 1818 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1819 7674	-0.2941666	1.2565863	-1.2565863	0.361863043	-0.124
## 1820 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1821 7674	-0.2941666	-0.7955416	0.7955416	1.527809045	-0.124
## 1823 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1824 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# #	1825	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1826	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1828	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
7674						
# #	1829	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
7674						
# #	1830	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
7674						
# #	1832	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1834	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
7674						
# #	1835	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
7674						
# #	1838	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1839	-0.2941666	1.2565863	-1.2565863	-0.353166784	-0.124
7674						
# #	1840	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1841	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
7674						
# #	1842	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
7674						
# #	1843	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124
7674						
# #	1844	-0.2941666	-0.7955416	0.7955416	1.994030468	-0.124
7674						
# #	1846	-0.2941666	1.2565863	-1.2565863	-0.324910940	-0.124
7674						
# #	1847	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1848	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1850	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
7674						
# #	1852	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	1853	-0.2941666	1.2565863	-1.2565863	-0.339431304	-0.124
7674						

## 1856 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1858 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124
## 1859 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1861 7674	-0.2941666	-0.7955416	0.7955416 0.828476909	-0.124
## 1862 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1863 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
## 1864 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1865 7674	-0.2941666	1.2565863	-1.2565863 -0.561946075	-0.124
## 1867 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1868 7674	-0.2941666	1.2565863	-1.2565863 0.018476052	-0.124
## 1869 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1870 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1872 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1873 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
## 1875 7674	-0.2941666	1.2565863	-1.2565863 -0.493268676	-0.124
## 1876 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1877 7674	-0.2941666	-0.7955416	0.7955416 2.227141180	-0.124
## 1878 7674	-0.2941666	-0.7955416	0.7955416 1.294698333	-0.124
## 1879 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1880 7674	-0.2941666	-0.7955416	0.7955416 -0.078064748	-0.124
## 1881 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 1885 7674	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
## 1887 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1890 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1891 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1892 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1894 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1895 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1896 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1897 7674	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
## 1899 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1900 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1901 7674	-0.2941666	1.2565863	-1.2565863	2.184757415	-0.124
## 1902 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1903 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
## 1905 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1906 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1907 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1908 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 1909 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1910 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1911 7674	-0.2941666	1.2565863	-1.2565863	-0.538399538	-0.124

## 1913 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1915 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1916 7674	-0.2941666	1.2565863	-1.2565863 -0.045099597	-0.124
## 1917 7674	-0.2941666	1.2565863	-1.2565863 0.352051986	-0.124
## 1918 7674	-0.2941666	1.2565863	-1.2565863 -0.045099597	-0.124
## 1919 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 1920 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1921 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1923 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 1924 7674	-0.2941666	1.2565863	-1.2565863 -0.045099597	-0.124
## 1925 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1927 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
## 1929 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1930 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 1932 7674	-0.2941666	1.2565863	-1.2565863 -0.280564963	-0.124
## 1933 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1934 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 1935 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1937 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
## 1938 2397	-0.2941666	-0.7955416	0.7955416 -0.158122973	8.012
## 1939 7674	-0.2941666	1.2565863	-1.2565863 -0.437541873	-0.124

## 1940 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1943 7674	-0.2941666	1.2565863	-1.2565863 -0.397905203	-0.124
## 1944 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1945 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1949 7674	-0.2941666	1.2565863	-1.2565863 -0.109067688	-0.124
## 1951 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1952 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1954 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1955 7674	-0.2941666	1.2565863	-1.2565863 -0.281742290	-0.124
## 1956 7674	-0.2941666	1.2565863	-1.2565863 1.671835360	-0.124
## 1957 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1958 7674	-0.2941666	-0.7955416	0.7955416 0.548273124	-0.124
## 1959 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1960 7674	-0.2941666	1.2565863	-1.2565863 -0.364155167	-0.124
## 1962 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1963 7674	-0.2941666	1.2565863	-1.2565863 -0.373966224	-0.124
## 1965 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1966 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
## 1968 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1970 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 1971 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 1972 7674	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
## 1973 7674	-0.2941666	1.2565863	-1.2565863	1.266442489	-0.124
## 1975 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 1978 7674	-0.2941666	1.2565863	-1.2565863	-0.221698621	-0.124
## 1979 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 1982 7674	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
## 1984 7674	-0.2941666	1.2565863	-1.2565863	3.249845751	-0.124
## 1986 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 1987 7674	-0.2941666	1.2565863	-1.2565863	-0.103965939	-0.124
## 1988 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1989 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1990 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1991 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 1994 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1995 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 1997 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 1998 7674	-0.2941666	1.2565863	-1.2565863	0.675816864	-0.124
## 2002 7674	-0.2941666	1.2565863	-1.2565863	-0.096509535	-0.124
## 2004 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2005 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 2006 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 2007 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2008 7674	-0.2941666	1.2565863	-1.2565863	-0.103965939	-0.124
## 2009 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 2010 7674	-0.2941666	1.2565863	-1.2565863	-0.228762582	-0.124
## 2011 7674	-0.2941666	-0.7955416	0.7955416	0.712313995	-0.124
## 2013 7674	3.3983011	1.2565863	-1.2565863	-0.061974615	-0.124
## 2017 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 2018 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2019 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2020 7674	-0.2941666	1.2565863	-1.2565863	0.348127563	-0.124
## 2021 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 2022 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 2023 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2025 7674	-0.2941666	1.2565863	-1.2565863	1.972838586	-0.124
## 2026 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
## 2027 7674	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
## 2028 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2029 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2030 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2031 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 2032 7674	-0.2941666	1.2565863	-1.2565863	-0.568225151	-0.124

## 2033 7674	-0.2941666	-0.7955416	0.7955416	4.648902465	-0.124
## 2034 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 2035 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2036 7674	-0.2941666	1.2565863	-1.2565863	-0.050201347	-0.124
## 2037 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2038 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2039 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2041 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2042 7674	-0.2941666	1.2565863	-1.2565863	-0.381815070	-0.124
## 2043 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 2044 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
## 2046 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2047 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 2048 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2049 7674	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
## 2051 7674	-0.2941666	-0.7955416	0.7955416	5.723801859	-0.124
## 2053 7674	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
## 2054 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2055 7674	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
## 2056 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2058 7674	3.3983011	1.2565863	-1.2565863	0.034173743	-0.124

## 2061 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2064 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2065 7674	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
## 2066 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2067 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2068 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2069 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2070 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2071 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2072 7674	-0.2941666	1.2565863	-1.2565863	-0.035288540	-0.124
## 2073 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 2074 7674	-0.2941666	1.2565863	-1.2565863	1.176180765	-0.124
## 2076 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 2077 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 2078 7674	-0.2941666	1.2565863	-1.2565863	-0.171858452	-0.124
## 2081 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2082 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2083 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2084 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2085 7674	-0.2941666	1.2565863	-1.2565863	-0.224445717	-0.124
## 2090 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 2091 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2092 7674	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
## 2093 7674	-0.2941666	1.2565863	-1.2565863	0.779029182	-0.124
## 2094 7674	-0.2941666	1.2565863	-1.2565863	0.158185502	-0.124
## 2095 7674	-0.2941666	1.2565863	-1.2565863	-0.002715831	-0.124
## 2096 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 2097 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2098 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2100 7674	-0.2941666	1.2565863	-1.2565863	0.675816864	-0.124
## 2101 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2104 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2105 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2107 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2110 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2112 7674	-0.2941666	1.2565863	-1.2565863	0.219798939	-0.124
## 2113 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2114 7674	-0.2941666	1.2565863	-1.2565863	0.528651010	-0.124
## 2116 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2117 7674	-0.2941666	1.2565863	-1.2565863	3.249845751	-0.124
## 2118 7674	3.3983011	1.2565863	-1.2565863	1.682431301	-0.124
## 2119 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124

## 2121 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 2122 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2123 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2124 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 2127 7674	-0.2941666	-0.7955416	0.7955416	1.760919757	-0.124
## 2128 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2129 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2130 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2132 7674	-0.2941666	1.2565863	-1.2565863	-0.193835220	-0.124
## 2137 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2139 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2140 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2141 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2142 7674	3.3983011	1.2565863	-1.2565863	0.034173743	-0.124
## 2145 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2146 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2147 7674	-0.2941666	1.2565863	-1.2565863	-0.339431304	-0.124
## 2149 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2151 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2154 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 2155 7674	-0.2941666	1.2565863	-1.2565863	1.779756986	-0.124

## 2156 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2157 7674	-0.2941666	1.2565863	-1.2565863 -0.349242361	-0.124
## 2158 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
## 2159 7674	-0.2941666	1.2565863	-1.2565863 -0.388486589	-0.124
## 2161 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2163 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2164 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 2166 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
## 2167 7674	-0.2941666	1.2565863	-1.2565863 1.009392798	-0.124
## 2168 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
## 2169 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2170 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2171 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2172 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2173 7674	3.3983011	1.2565863	-1.2565863 -0.213064891	-0.124
## 2174 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
## 2176 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2177 7674	-0.2941666	1.2565863	-1.2565863 -0.045099597	-0.124
## 2179 7674	-0.2941666	1.2565863	-1.2565863 -0.334329555	-0.124
## 2180 7674	-0.2941666	1.2565863	-1.2565863 1.009392798	-0.124
## 2182 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 2183 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2184 7674	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
## 2185 7674	3.3983011	1.2565863	-1.2565863	1.325308830	-0.124
## 2186 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2189 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2190 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2191 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2192 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 2194 7674	-0.2941666	1.2565863	-1.2565863	2.184757415	-0.124
## 2195 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2196 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2197 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2198 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2199 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2200 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2201 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2203 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2207 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 2209 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2210 7674	-0.2941666	-0.7955416	0.7955416	0.567895238	-0.124
## 2213 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124

## 2214 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 2215 7674	3.3983011	1.2565863	-1.2565863	0.198999498	-0.124
## 2216 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2218 7674	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
## 2219 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2220 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 2221 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2222 7674	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
## 2223 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
## 2224 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2225 7674	-0.2941666	1.2565863	-1.2565863	0.217051843	-0.124
## 2226 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2227 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2229 7674	-0.2941666	1.2565863	-1.2565863	-0.339431304	-0.124
## 2230 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2231 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2234 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
## 2235 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2236 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2237 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 2238 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2241 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2242 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
# # 2245 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2246 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2248 7674	-0.2941666	1.2565863	-1.2565863	-0.403399395	-0.124
# # 2249 7674	-0.2941666	1.2565863	-1.2565863	-0.069823461	-0.124
# # 2250 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
# # 2251 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
# # 2252 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2253 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2254 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2258 7674	3.3983011	1.2565863	-1.2565863	-0.020768176	-0.124
# # 2259 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
# # 2260 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2263 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
# # 2266 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
# # 2269 7674	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
# # 2270 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2271 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2272 7674	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
# # 2273 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2275 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2276 7674	-0.2941666	-0.7955416	0.7955416 5.291722913	-0.124
# # 2277 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2278 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2280 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124
# # 2281 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2284 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2285 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
# # 2286 7674	-0.2941666	-0.7955416	0.7955416 5.965153858	-0.124
# # 2287 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2288 7674	-0.2941666	-0.7955416	0.7955416 -0.337076650	-0.124
# # 2289 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
# # 2290 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2293 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2294 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
# # 2295 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2298 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2301 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2303 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2304 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2306 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124

# # 2307 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2308 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2310 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2312 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2313 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2314 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2315 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2316 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2318 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2320 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2321 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2322 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 2323 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 2324 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2325 7674	-0.2941666	1.2565863	-1.2565863 -0.280564963	-0.124
# # 2329 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
# # 2330 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2331 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2332 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2334 7674	-0.2941666	1.2565863	-1.2565863 -0.349242361	-0.124
# # 2335 7674	-0.2941666	1.2565863	-1.2565863 -0.211887564	-0.124

# # 2336	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 2337	-0.2941666	-0.7955416	0.7955416	-0.194620104	8.012
2397					
# # 2338	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 2340	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
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# # 2341	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
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# # 2343	-0.2941666	1.2565863	-1.2565863	0.053010972	-0.124
7674					
# # 2344	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
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# # 2345	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
7674					
# # 2346	-0.2941666	1.2565863	-1.2565863	0.259043167	-0.124
7674					
# # 2348	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 2352	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 2353	-0.2941666	1.2565863	-1.2565863	-0.297832423	-0.124
7674					
# # 2354	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
7674					
# # 2355	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
7674					
# # 2356	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674					
# # 2357	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
7674					
# # 2359	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
7674					
# # 2360	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
7674					
# # 2361	-0.2941666	1.2565863	-1.2565863	0.087153450	-0.124
7674					
# # 2362	-0.2941666	1.2565863	-1.2565863	-0.423021509	-0.124
7674					
# # 2363	-0.2941666	1.2565863	-1.2565863	0.042022588	-0.124
7674					

# # 2364 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2365 7674	-0.2941666	-0.7955416	0.7955416 0.828476909	-0.124
# # 2366 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2367 7674	3.3983011	1.2565863	-1.2565863 -0.158122973	-0.124
# # 2368 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2370 7674	-0.2941666	-0.7955416	0.7955416 1.294698333	-0.124
# # 2371 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2372 7674	-0.2941666	1.2565863	-1.2565863 -0.309998133	-0.124
# # 2374 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
# # 2376 7674	-0.2941666	-0.7955416	0.7955416 0.607139465	-0.124
# # 2377 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 2379 7674	-0.2941666	-0.7955416	0.7955416 -0.337076650	-0.124
# # 2380 7674	-0.2941666	1.2565863	-1.2565863 -0.084343825	-0.124
# # 2381 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2382 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2383 7674	-0.2941666	1.2565863	-1.2565863 -0.349242361	-0.124
# # 2384 7674	3.3983011	1.2565863	-1.2565863 -0.158122973	-0.124
# # 2385 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124
# # 2387 7674	-0.2941666	1.2565863	-1.2565863 -0.297832423	-0.124
# # 2388 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2389 7674	-0.2941666	1.2565863	-1.2565863 -0.397905203	-0.124

## 2390 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2392 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
## 2394 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2396 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2397 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2400 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2402 7674	-0.2941666	1.2565863	-1.2565863 -0.142817724	-0.124
## 2404 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2405 7674	-0.2941666	1.2565863	-1.2565863 0.685627921	-0.124
## 2406 7674	-0.2941666	-0.7955416	0.7955416 0.105990679	-0.124
## 2407 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2408 7674	-0.2941666	1.2565863	-1.2565863 -0.277032982	-0.124
## 2410 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2411 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2413 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124
## 2414 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2415 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2416 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2417 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2418 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
## 2419 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 2420 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2422 7674	-0.2941666	-0.7955416	0.7955416	0.489406783	-0.124
## 2423 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2424 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2426 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 2427 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 2428 7674	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
## 2430 7674	-0.2941666	-0.7955416	0.7955416	2.460251892	-0.124
## 2433 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2434 7674	-0.2941666	1.2565863	-1.2565863	-0.437541873	-0.124
## 2436 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
## 2437 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2438 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 2439 7674	-0.2941666	1.2565863	-1.2565863	0.141310484	-0.124
## 2441 7674	3.3983011	1.2565863	-1.2565863	0.267676897	-0.124
## 2443 7674	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
## 2444 7674	-0.2941666	-0.7955416	0.7955416	0.501180051	-0.124
## 2445 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2448 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2449 7674	-0.2941666	-0.7955416	0.7955416	1.527809045	-0.124
## 2450 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2451 7674	-0.2941666	1.2565863	-1.2565863	-0.231509678	-0.124
# # 2452 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
# # 2453 7674	-0.2941666	1.2565863	-1.2565863	-0.371611571	-0.124
# # 2454 7674	-0.2941666	1.2565863	-1.2565863	-0.413210452	-0.124
# # 2456 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2458 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
# # 2460 7674	3.3983011	1.2565863	-1.2565863	0.226470458	-0.124
# # 2461 7674	-0.2941666	1.2565863	-1.2565863	-0.251131792	-0.124
# # 2462 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2463 7674	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
# # 2469 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
# # 2470 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2471 7674	-0.2941666	1.2565863	-1.2565863	0.180554711	-0.124
# # 2473 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
# # 2474 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
# # 2477 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2479 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2481 7674	3.3983011	1.2565863	-1.2565863	0.371674100	-0.124
# # 2482 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2483 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
# # 2485 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 2488 7674	-0.2941666	1.2565863	-1.2565863	0.042022588	-0.124
## 2490 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
## 2491 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2492 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2495 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 2496 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 2497 7674	-0.2941666	1.2565863	-1.2565863	0.111877313	-0.124
## 2498 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2499 7674	-0.2941666	1.2565863	-1.2565863	0.053010972	-0.124
## 2500 7674	-0.2941666	1.2565863	-1.2565863	-0.241320735	-0.124
## 2501 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2503 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2506 7674	-0.2941666	1.2565863	-1.2565863	-0.309998133	-0.124
## 2508 2397	-0.2941666	-0.7955416	0.7955416	-0.570187362	8.012
## 2509 7674	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
## 2510 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 2511 7674	-0.2941666	1.2565863	-1.2565863	0.053010972	-0.124
## 2513 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2514 7674	-0.2941666	1.2565863	-1.2565863	2.731429505	-0.124
## 2515 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
## 2516 7674	-0.2941666	1.2565863	-1.2565863	0.038098165	-0.124

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# #	2518	-0.2941666	1.2565863	-1.2565863	0.410918327	-0.124
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# #	2520	-0.2941666	-0.7955416	0.7955416	1.994030468	-0.124
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# #	2521	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2522	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2523	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2524	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
7674						
# #	2525	3.3983011	1.2565863	-1.2565863	-0.158122973	-0.124
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# #	2526	-0.2941666	1.2565863	-1.2565863	1.917111782	-0.124
7674						
# #	2528	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
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# #	2529	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2531	-0.2941666	1.2565863	-1.2565863	-0.231509678	-0.124
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# #	2532	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2533	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
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# #	2537	-0.2941666	1.2565863	-1.2565863	2.382940764	-0.124
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# #	2538	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
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# #	2539	-0.2941666	1.2565863	-1.2565863	1.215424993	-0.124
7674						
# #	2540	-0.2941666	1.2565863	-1.2565863	-0.187556143	-0.124
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7674						
# #	2545	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						

## 2546 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2547 7674	-0.2941666	1.2565863	-1.2565863	0.124827908	-0.124
## 2549 7674	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
## 2552 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2553 7674	-0.2941666	1.2565863	-1.2565863	-0.050201347	-0.124
## 2554 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2555 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 2556 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2558 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2559 7674	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
## 2560 7674	-0.2941666	1.2565863	-1.2565863	-0.221698621	-0.124
## 2562 7674	-0.2941666	1.2565863	-1.2565863	-0.322948729	-0.124
## 2564 7674	-0.2941666	1.2565863	-1.2565863	0.572996987	-0.124
## 2567 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2569 7674	-0.2941666	1.2565863	-1.2565863	-0.089445574	-0.124
## 2570 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2571 7674	3.3983011	1.2565863	-1.2565863	0.047909222	-0.124
## 2572 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2573 7674	-0.2941666	1.2565863	-1.2565863	-0.423021509	-0.124
## 2574 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2576 7674	-0.2941666	1.2565863	-1.2565863	1.401835074	-0.124

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7674						
# #	2579	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
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7674						
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7674						
# #	2584	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2585	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
7674						
# #	2588	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
7674						
# #	2589	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
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7674						
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7674						
# #	2593	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2594	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
7674						
# #	2596	-0.2941666	-0.7955416	0.7955416	1.294698333	-0.124
7674						
# #	2597	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
7674						
# #	2598	-0.2941666	-0.7955416	0.7955416	0.595366197	-0.124
7674						
# #	2601	-0.2941666	1.2565863	-1.2565863	-0.466582601	-0.124
7674						
# #	2602	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2603	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2604	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
7674						

# #	2605	-0.2941666	1.2565863	-1.2565863	-0.109067688	-0.124
7674						
# #	2606	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
7674						
# #	2607	-0.2941666	1.2565863	-1.2565863	1.244858164	-0.124
7674						
# #	2608	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2610	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
7674						
# #	2611	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2612	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
7674						
# #	2613	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2614	-0.2941666	1.2565863	-1.2565863	0.136208734	-0.124
7674						
# #	2615	3.3983011	1.2565863	-1.2565863	-0.116916534	-0.124
7674						
# #	2616	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2617	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2619	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2620	-0.2941666	1.2565863	-1.2565863	1.549000928	-0.124
7674						
# #	2621	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
7674						
# #	2622	-0.2941666	1.2565863	-1.2565863	-0.104750823	-0.124
7674						
# #	2624	3.3983011	1.2565863	-1.2565863	1.723637740	-0.124
7674						
# #	2628	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2629	-0.2941666	1.2565863	-1.2565863	1.376326326	-0.124
7674						
# #	2630	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
7674						
# #	2631	-0.2941666	1.2565863	-1.2565863	-0.209140468	-0.124
7674						

# # 2634 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2635 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2636 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2637 7674	-0.2941666	1.2565863	-1.2565863	2.696894585	-0.124
# # 2638 7674	-0.2941666	1.2565863	-1.2565863	-0.373966224	-0.124
# # 2639 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2643 7674	-0.2941666	-0.7955416	0.7955416	2.227141180	-0.124
# # 2644 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
# # 2645 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
# # 2646 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2647 7674	-0.2941666	-0.7955416	0.7955416	0.501180051	-0.124
# # 2648 7674	-0.2941666	1.2565863	-1.2565863	3.249845751	-0.124
# # 2649 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
# # 2650 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2651 7674	-0.2941666	-0.7955416	0.7955416	2.227141180	-0.124
# # 2652 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2653 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
# # 2654 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
# # 2655 7674	-0.2941666	-0.7955416	0.7955416	0.764116376	-0.124
# # 2656 7674	-0.2941666	1.2565863	-1.2565863	-0.416349990	-0.124
# # 2657 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 2658 7674	-0.2941666	-0.7955416	0.7955416	3.392694740	-0.124
## 2659 7674	-0.2941666	1.2565863	-1.2565863	-0.270361464	-0.124
## 2660 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2661 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2662 7674	-0.2941666	-0.7955416	0.7955416	-0.103965939	-0.124
## 2663 7674	3.3983011	1.2565863	-1.2565863	-0.213064891	-0.124
## 2665 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2667 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2670 7674	-0.2941666	1.2565863	-1.2565863	0.229609996	-0.124
## 2671 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2672 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2673 7674	-0.2941666	1.2565863	-1.2565863	-0.452062237	-0.124
## 2675 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 2679 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
## 2681 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2683 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2685 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2687 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 2688 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2690 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2692 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

## 2695 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2696 7674	-0.2941666	1.2565863	-1.2565863	0.361863043	-0.124
## 2698 7674	3.3983011	1.2565863	-1.2565863	1.325308830	-0.124
## 2700 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2703 7674	-0.2941666	1.2565863	-1.2565863	-0.275855655	-0.124
## 2708 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2709 7674	-0.2941666	1.2565863	-1.2565863	-0.555274556	-0.124
## 2710 7674	-0.2941666	1.2565863	-1.2565863	1.272721565	-0.124
## 2713 7674	-0.2941666	-0.7955416	0.7955416	-0.305288826	-0.124
## 2714 7674	-0.2941666	1.2565863	-1.2565863	-0.364155167	-0.124
## 2715 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2716 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2717 7674	-0.2941666	-0.7955416	0.7955416	0.628723791	-0.124
## 2719 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2721 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2722 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2724 7674	-0.2941666	1.2565863	-1.2565863	-0.305288826	-0.124
## 2725 7674	-0.2941666	1.2565863	-1.2565863	0.047909222	-0.124
## 2726 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2727 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2728 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2729 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2730 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2731 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2732 7674	-0.2941666	1.2565863	-1.2565863 2.184757415	-0.124
# # 2733 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2734 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2735 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2736 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
# # 2737 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2741 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2742 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
# # 2743 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2744 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2746 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2747 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2749 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2750 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2751 7674	-0.2941666	1.2565863	-1.2565863 -0.423021509	-0.124
# # 2752 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2754 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2756 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

# # 2757 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
# # 2758 7674	-0.2941666	-0.7955416	0.7955416	0.361078158	-0.124
# # 2760 7674	-0.2941666	1.2565863	-1.2565863	-0.047846693	-0.124
# # 2761 7674	-0.2941666	1.2565863	-1.2565863	-0.162832280	-0.124
# # 2763 7674	-0.2941666	1.2565863	-1.2565863	-0.277032982	-0.124
# # 2764 7674	-0.2941666	1.2565863	-1.2565863	0.769218125	-0.124
# # 2765 7674	-0.2941666	1.2565863	-1.2565863	-0.050201347	-0.124
# # 2767 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2768 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
# # 2769 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2770 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2771 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2773 7674	-0.2941666	1.2565863	-1.2565863	-0.353166784	-0.124
# # 2774 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2776 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2777 7674	-0.2941666	-0.7955416	0.7955416	-0.152628781	-0.124
# # 2778 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2779 7674	-0.2941666	-0.7955416	0.7955416	0.828476909	-0.124
# # 2781 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2782 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2784 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124

## 2787 7674	-0.2941666	-0.7955416	0.7955416	2.693362604	-0.124
## 2788 7674	-0.2941666	1.2565863	-1.2565863	-0.280564963	-0.124
## 2790 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2791 7674	3.3983011	1.2565863	-1.2565863	-0.089445574	-0.124
## 2792 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2793 7674	-0.2941666	1.2565863	-1.2565863	0.239813495	-0.124
## 2794 7674	3.3983011	1.2565863	-1.2565863	-0.322948729	-0.124
## 2795 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2798 7674	-0.2941666	-0.7955416	0.7955416	0.646383693	-0.124
## 2799 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2800 7674	-0.2941666	1.2565863	-1.2565863	0.112269755	-0.124
## 2802 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2807 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2811 7674	-0.2941666	1.2565863	-1.2565863	-0.040782732	-0.124
## 2812 7674	-0.2941666	1.2565863	-1.2565863	-0.349242361	-0.124
## 2813 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2814 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2815 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
## 2816 7674	3.3983011	1.2565863	-1.2565863	-0.268006810	-0.124
## 2817 7674	-0.2941666	-0.7955416	0.7955416	-0.152628781	-0.124
## 2818 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2820 7674	-0.2941666	1.2565863	-1.2565863	-0.344533054	-0.124
# # 2821 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2822 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2823 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
# # 2824 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2826 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2827 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2828 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
# # 2829 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2831 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2832 7674	-0.2941666	-0.7955416	0.7955416	-0.152628781	-0.124
# # 2833 7674	-0.2941666	-0.7955416	0.7955416	1.061587621	-0.124
# # 2834 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2835 7674	-0.2941666	1.2565863	-1.2565863	0.229609996	-0.124
# # 2837 7674	-0.2941666	1.2565863	-1.2565863	0.332429872	-0.124
# # 2838 7674	-0.2941666	1.2565863	-1.2565863	-0.209140468	-0.124
# # 2839 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2840 7674	-0.2941666	1.2565863	-1.2565863	0.293185645	-0.124
# # 2843 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2845 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
# # 2846 7674	-0.2941666	1.2565863	-1.2565863	-0.566655382	-0.124

# # 2847 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2848 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2850 7674	-0.2941666	-0.7955416	0.7955416 4.648902465	-0.124
# # 2852 7674	3.3983011	1.2565863	-1.2565863 -0.322948729	-0.124
# # 2853 7674	-0.2941666	-0.7955416	0.7955416 1.049421910	-0.124
# # 2855 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2856 7674	-0.2941666	1.2565863	-1.2565863 -0.373966224	-0.124
# # 2857 7674	-0.2941666	1.2565863	-1.2565863 0.499217840	-0.124
# # 2860 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2861 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2862 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2864 7674	-0.2941666	1.2565863	-1.2565863 1.779756986	-0.124
# # 2865 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2866 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2867 7674	-0.2941666	1.2565863	-1.2565863 -0.285666712	-0.124
# # 2868 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2869 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2870 7674	-0.2941666	1.2565863	-1.2565863 -0.309998133	-0.124
# # 2871 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2872 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2873 7674	-0.2941666	1.2565863	-1.2565863 -0.388486589	-0.124

# # 2875 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2877 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2878 7674	-0.2941666	-0.7955416	0.7955416 1.527809045	-0.124
# # 2879 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
# # 2880 7674	3.3983011	1.2565863	-1.2565863 -0.089445574	-0.124
# # 2881 2397	-0.2941666	-0.7955416	0.7955416 -0.194620104	8.012
# # 2883 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
# # 2884 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
# # 2885 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2887 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2888 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2889 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 2890 7674	-0.2941666	-0.7955416	0.7955416 1.760919757	-0.124
# # 2891 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2892 7674	-0.2941666	-0.7955416	0.7955416 1.061587621	-0.124
# # 2893 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
# # 2894 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2895 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2896 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2898 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2901 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124

## 2903 7674	-0.2941666	1.2565863	-1.2565863	-0.123588052	-0.124
## 2904 7674	-0.2941666	1.2565863	-1.2565863	-0.334721997	-0.124
## 2905 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2906 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2907 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2908 7674	-0.2941666	1.2565863	-1.2565863	0.102851141	-0.124
## 2909 7674	-0.2941666	-0.7955416	0.7955416	-0.337076650	-0.124
## 2910 7674	-0.2941666	-0.7955416	0.7955416	0.362255485	-0.124
## 2911 7674	-0.2941666	1.2565863	-1.2565863	-0.172643337	-0.124
## 2912 7674	-0.2941666	1.2565863	-1.2565863	-0.388486589	-0.124
## 2913 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2914 7674	-0.2941666	1.2565863	-1.2565863	-0.094154882	-0.124
## 2916 7674	-0.2941666	1.2565863	-1.2565863	-0.459911083	-0.124
## 2918 2397	-0.2941666	-0.7955416	0.7955416	-0.158122973	8.012
## 2920 7674	-0.2941666	-0.7955416	0.7955416	0.129144773	-0.124
## 2921 7674	-0.2941666	1.2565863	-1.2565863	-0.083558940	-0.124
## 2922 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2923 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2924 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2925 7674	-0.2941666	1.2565863	-1.2565863	1.910440264	-0.124
## 2926 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124

# # 2927 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2928 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
# # 2929 7674	-0.2941666	-0.7955416	0.7955416 0.595366197	-0.124
# # 2930 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
# # 2931 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2933 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 2934 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2935 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
# # 2936 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2938 7674	-0.2941666	1.2565863	-1.2565863 -0.393588338	-0.124
# # 2939 7674	-0.2941666	1.2565863	-1.2565863 -0.030579233	-0.124
# # 2940 7674	-0.2941666	1.2565863	-1.2565863 -0.241320735	-0.124
# # 2941 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2943 7674	-0.2941666	-0.7955416	0.7955416 -0.103965939	-0.124
# # 2945 7674	-0.2941666	-0.7955416	0.7955416 7.679341720	-0.124
# # 2946 7674	-0.2941666	1.2565863	-1.2565863 -0.109067688	-0.124
# # 2947 7674	-0.2941666	1.2565863	-1.2565863 1.549000928	-0.124
# # 2948 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2950 7674	-0.2941666	1.2565863	-1.2565863 -0.099256631	-0.124
# # 2954 7674	3.3983011	1.2565863	-1.2565863 -0.116916534	-0.124
# # 2955 7674	-0.2941666	1.2565863	-1.2565863 -0.305288826	-0.124

# # 2956 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2957 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2959 7674	-0.2941666	1.2565863	-1.2565863 -0.364155167	-0.124
# # 2961 7674	-0.2941666	1.2565863	-1.2565863 -0.334721997	-0.124
# # 2962 7674	-0.2941666	1.2565863	-1.2565863 -0.224445717	-0.124
# # 2964 7674	-0.2941666	1.2565863	-1.2565863 -0.413210452	-0.124
# # 2965 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2966 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2967 7674	-0.2941666	-0.7955416	0.7955416 0.129144773	-0.124
# # 2968 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2969 7674	3.3983011	1.2565863	-1.2565863 0.226470458	-0.124
# # 2970 7674	3.3983011	1.2565863	-1.2565863 -0.268006810	-0.124
# # 2974 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2976 7674	-0.2941666	1.2565863	-1.2565863 -0.437541873	-0.124
# # 2977 7674	-0.2941666	1.2565863	-1.2565863 -0.344533054	-0.124
# # 2979 7674	-0.2941666	1.2565863	-1.2565863 2.696894585	-0.124
# # 2980 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
# # 2981 7674	-0.2941666	-0.7955416	0.7955416 0.362255485	-0.124
# # 2982 7674	-0.2941666	1.2565863	-1.2565863 1.910440264	-0.124
# # 2985 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124
# # 2986 7674	-0.2941666	-0.7955416	0.7955416 -0.570187362	-0.124

## 2987 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2988 7674	-0.2941666	1.2565863	-1.2565863	0.018476052	-0.124
## 2989 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2992 7674	-0.2941666	1.2565863	-1.2565863	1.325308830	-0.124
## 2994 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
## 2995 7674	-0.2941666	1.2565863	-1.2565863	2.249510390	-0.124
## 2996 7674	-0.2941666	-0.7955416	0.7955416	5.965153858	-0.124
## 2997 7674	-0.2941666	1.2565863	-1.2565863	-0.040390290	-0.124
## 2998 7674	-0.2941666	-0.7955416	0.7955416	-0.570187362	-0.124
##	Channel	Online	Duration	Sales	Product.NameBronze_Plan
## 3	0.1247674	-4.998111e-01	-0.711820997		-0.525836
## 4	0.1247674	-4.923514e-01	-0.484207536		-0.525836
## 6	0.1247674	-4.625125e-01	-0.215595376		1.901100
## 7	0.1247674	-2.983987e-01	-0.012015635		-0.525836
## 8	0.1247674	-4.028348e-01	0.279216496		-0.525836
## 9	0.1247674	-3.804556e-01	-0.653857321		-0.525836
## 10	0.1247674	-2.088821e-01	-0.243870341		-0.525836
## 11	0.1247674	2.222986e+00	1.803943938		-0.525836
## 13	0.1247674	-3.506167e-01	0.703340958		-0.525836
## 15	0.1247674	-3.655362e-01	-0.291937780		-0.525836
## 16	0.1247674	2.208067e+00	2.201914058		-0.525836
## 18	0.1247674	-2.238015e-01	0.547828656		-0.525836
## 21	0.1247674	7.449772e-03	0.024741819		-0.525836
## 22	0.1247674	-4.625125e-01	0.123704193		-0.525836
## 23	0.1247674	-4.625125e-01	-0.498345018		-0.525836
## 24	0.1247674	-3.356973e-01	-0.130770484		-0.525836
## 25	0.1247674	-3.655362e-01	-0.286282787		1.901100
## 26	0.1247674	-3.058584e-01	-0.427657607		-0.525836

## 27	0.1247674	-2.088821e-01	-0.470070054	-0.525836
## 28	0.1247674	-2.909390e-01	-0.569032428	-0.525836
## 29	0.1247674	-2.536404e-01	-0.597307392	1.901100
## 30	0.1247674	-9.946292e-06	-0.144907966	1.901100
## 31	0.1247674	-4.401333e-01	-0.540757464	1.901100
## 32	0.1247674	-3.207778e-01	-0.003533145	1.901100
## 35	-8.0122397	-3.729959e-01	-0.328695233	-0.525836
## 36	0.1247674	1.491844e-01	-0.300420269	-0.525836
## 38	0.1247674	5.220808e-02	-0.060083074	-0.525836
## 39	0.1247674	-4.923514e-01	-0.597307392	1.901100
## 40	0.1247674	-4.177542e-01	-0.455932572	-0.525836
## 41	0.1247674	-4.848917e-01	-0.498345018	-0.525836
## 44	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 45	0.1247674	-4.998111e-01	-0.512482500	-0.525836
## 47	0.1247674	2.208067e+00	1.424352544	-0.525836
## 49	0.1247674	1.491844e-01	-0.385245161	1.901100
## 50	0.1247674	-3.431570e-01	-0.540757464	1.901100
## 52	0.1247674	7.449772e-03	-0.378176420	1.901100
## 53	0.1247674	2.193147e+00	2.722880273	-0.525836
## 55	0.1247674	-3.729959e-01	-0.526619982	-0.525836
## 56	0.1247674	-3.729959e-01	-0.434726348	1.901100
## 57	0.1247674	-2.909390e-01	0.127945438	-0.525836
## 58	0.1247674	-3.953750e-01	-0.003533145	-0.525836
## 59	0.1247674	-4.102945e-01	-0.455932572	-0.525836
## 60	0.1247674	-3.506167e-01	-0.419881992	1.901100
## 63	0.1247674	-4.774319e-01	-0.597307392	1.901100
## 65	0.1247674	-3.580764e-01	0.731615923	-0.525836
## 66	0.1247674	-2.611001e-01	0.491278727	-0.525836
## 67	0.1247674	-2.088821e-01	0.477141245	1.901100
## 69	0.1247674	-4.699722e-01	-0.427657607	-0.525836
## 71	0.1247674	-2.387209e-01	-0.569032428	-0.525836
## 76	0.1247674	-3.133181e-01	-0.498345018	-0.525836
## 77	0.1247674	-1.939626e-01	-0.696269767	-0.525836
## 78	0.1247674	-3.133181e-01	-0.300420269	-0.525836

## 79	0.1247674	-4.774319e-01	-0.470070054	-0.525836
## 80	0.1247674	-9.698629e-02	-0.470070054	-0.525836
## 81	0.1247674	-1.417446e-01	-0.526619982	-0.525836
## 82	0.1247674	-2.238015e-01	0.208529086	-0.525836
## 83	0.1247674	-3.282376e-01	-0.286282787	-0.525836
## 87	0.1247674	-4.923514e-01	-0.569032428	-0.525836
## 90	0.1247674	-4.625125e-01	-0.710407249	-0.525836
## 93	0.1247674	-4.550528e-01	-0.710407249	-0.525836
## 94	0.1247674	2.200607e+00	3.855999461	-0.525836
## 95	0.1247674	-4.326736e-01	-0.328695233	-0.525836
## 96	0.1247674	-4.625125e-01	-0.597307392	1.901100
## 97	0.1247674	-4.774319e-01	-0.569032428	-0.525836
## 98	0.1247674	2.983788e-01	0.123704193	-0.525836
## 99	0.1247674	-8.952657e-02	-0.455932572	-0.525836
## 100	0.1247674	-3.730854e-02	-0.243870341	-0.525836
## 102	0.1247674	8.653174e-01	-0.526619982	-0.525836
## 103	0.1247674	-2.312612e-01	0.653859771	-0.525836
## 104	0.1247674	2.215526e+00	2.722880273	-0.525836
## 105	0.1247674	-1.641238e-01	-0.812762619	-0.525836
## 106	0.1247674	-1.790432e-01	-0.291937780	-0.525836
## 107	0.1247674	-4.699722e-01	0.731615923	-0.525836
## 108	0.1247674	-4.102945e-01	-0.569032428	-0.525836
## 109	0.1247674	-4.550528e-01	-0.441795090	-0.525836
## 110	0.1247674	1.462095e+00	-0.710407249	-0.525836
## 111	0.1247674	-4.923514e-01	-0.639719839	1.901100
## 112	0.1247674	1.490949e-02	-0.498345018	-0.525836
## 113	0.1247674	-6.714741e-02	0.279216496	-0.525836
## 115	0.1247674	-2.014223e-01	-0.569032428	-0.525836
## 118	0.1247674	-3.879153e-01	-0.554894946	1.901100
## 119	0.1247674	-3.058584e-01	0.407867583	-0.525836
## 120	0.1247674	5.669287e-01	-0.356970197	1.901100
## 121	0.1247674	-4.998111e-01	-0.470070054	-0.525836
## 122	0.1247674	-4.475931e-01	-0.144907966	1.901100
## 124	0.1247674	-4.550528e-01	-0.710407249	-0.525836

## 125	0.1247674	-2.760195e-01	-0.431898852	-0.525836
## 126	0.1247674	-4.998111e-01	-0.682132285	-0.525836
## 127	0.1247674	-1.790432e-01	0.967711873	-0.525836
## 128	0.1247674	-3.804556e-01	-0.571859925	-0.525836
## 130	0.1247674	-5.072708e-01	-0.571859925	-0.525836
## 131	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 133	0.1247674	-2.611001e-01	0.279216496	-0.525836
## 134	0.1247674	2.208067e+00	2.397011311	-0.525836
## 135	0.1247674	-4.177542e-01	-0.356970197	1.901100
## 136	0.1247674	-1.044460e-01	-0.569032428	-0.525836
## 137	0.1247674	-3.431570e-01	-0.291937780	-0.525836
## 138	0.1247674	-1.790432e-01	0.307491460	-0.525836
## 141	0.1247674	-4.774319e-01	-0.611444874	-0.525836
## 143	0.1247674	-5.072708e-01	-0.314557751	-0.525836
## 144	0.1247674	-1.044460e-01	-0.151976707	-0.525836
## 146	0.1247674	-4.848917e-01	-0.639719839	-0.525836
## 147	0.1247674	-2.611001e-01	-0.431898852	-0.525836
## 148	0.1247674	-2.014223e-01	-0.159045448	-0.525836
## 149	0.1247674	-2.685598e-01	0.208529086	1.901100
## 150	0.1247674	-4.848917e-01	-0.597307392	1.901100
## 151	0.1247674	-5.072708e-01	0.307491460	-0.525836
## 153	0.1247674	-4.998111e-01	-0.512482500	-0.525836
## 154	0.1247674	-4.625125e-01	-0.003533145	-0.525836
## 155	0.1247674	2.163219e-01	0.279216496	-0.525836
## 157	0.1247674	-4.252139e-01	-0.571859925	-0.525836
## 158	0.1247674	-2.760195e-01	0.689203476	1.901100
## 159	-8.0122397	-3.580764e-01	-0.427657607	-0.525836
## 162	0.1247674	-3.506167e-01	0.127945438	-0.525836
## 163	0.1247674	-5.072708e-01	-0.851782070	-0.525836
## 164	0.1247674	4.848718e-01	-0.639719839	-0.525836
## 165	0.1247674	2.327422e+00	0.286285237	1.901100
## 166	0.1247674	-2.909390e-01	1.509177437	-0.525836
## 167	0.1247674	-1.715835e-01	-0.569032428	-0.525836
## 168	-8.0122397	-3.580764e-01	-0.427657607	-0.525836

## 169	0.1247674	2.193147e+00	2.201914058	-0.525836
## 171	0.1247674	-4.028348e-01	-0.611444874	1.901100
## 172	0.1247674	-3.506167e-01	-0.441795090	-0.525836
## 174	0.1247674	-3.207778e-01	-0.385245161	-0.525836
## 175	0.1247674	-2.685598e-01	0.010604337	-0.525836
## 176	0.1247674	-4.998111e-01	-0.547826205	-0.525836
## 177	0.1247674	-4.252139e-01	-0.081289297	-0.525836
## 178	0.1247674	8.204696e-02	-0.569032428	-0.525836
## 179	-8.0122397	-1.715835e-01	-0.427657607	-0.525836
## 180	0.1247674	-4.177542e-01	-0.569032428	-0.525836
## 182	0.1247674	-4.401333e-01	-0.356970197	-0.525836
## 183	0.1247674	-2.014223e-01	0.407867583	-0.525836
## 185	0.1247674	-4.699722e-01	0.731615923	-0.525836
## 186	0.1247674	-4.028348e-01	0.392316353	-0.525836
## 188	0.1247674	-8.206685e-02	-0.455932572	-0.525836
## 189	0.1247674	-3.655362e-01	1.107672946	-0.525836
## 190	0.1247674	-3.879153e-01	-0.597307392	1.901100
## 192	0.1247674	-4.475931e-01	-0.291937780	-0.525836
## 194	0.1247674	2.200607e+00	-0.484207536	-0.525836
## 195	0.1247674	2.305043e+00	3.090454806	-0.525836
## 196	0.1247674	-3.580764e-01	-0.696269767	-0.525836
## 197	0.1247674	2.200607e+00	2.812653284	-0.525836
## 199	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 200	0.1247674	-3.580764e-01	-0.060083074	-0.525836
## 201	0.1247674	-4.848917e-01	0.194391604	-0.525836
## 203	0.1247674	-4.550528e-01	-0.173182930	-0.525836
## 204	0.1247674	-4.550528e-01	-0.243870341	-0.525836
## 208	0.1247674	-9.946292e-06	-0.300420269	-0.525836
## 209	0.1247674	-1.044460e-01	-0.484207536	1.901100
## 210	0.1247674	6.116870e-01	-0.144907966	-0.525836
## 211	0.1247674	-6.714741e-02	-0.229732858	1.901100
## 212	0.1247674	3.132982e-01	-0.003533145	-0.525836
## 214	0.1247674	-2.088821e-01	-0.484207536	-0.525836
## 215	0.1247674	-2.088821e-01	-0.031808109	-0.525836

# # 219	0.1247674	2.200607e+00	2.722880273	-0.525836
# # 220	0.1247674	-7.460713e-02	-0.441795090	-0.525836
# # 222	0.1247674	-4.102945e-01	-0.569032428	-0.525836
# # 223	0.1247674	-4.177542e-01	-0.659936438	-0.525836
# # 224	0.1247674	-3.058584e-01	-0.431898852	-0.525836
# # 226	0.1247674	-3.879153e-01	-0.569032428	-0.525836
# # 228	0.1247674	-4.401333e-01	-0.470070054	1.901100
# # 230	0.1247674	-4.326736e-01	-0.166114189	-0.525836
# # 231	0.1247674	-3.506167e-01	-0.434726348	-0.525836
# # 232	0.1247674	-4.028348e-01	-0.431898852	-0.525836
# # 233	0.1247674	-3.879153e-01	-0.427657607	1.901100
# # 235	0.1247674	-4.252139e-01	-0.427657607	-0.525836
# # 237	0.1247674	-4.550528e-01	0.731615923	-0.525836
# # 238	0.1247674	-4.401333e-01	-0.569032428	-0.525836
# # 239	0.1247674	2.305043e+00	2.722880273	-0.525836
# # 242	0.1247674	-2.312612e-01	1.353665134	-0.525836
# # 244	0.1247674	-4.998111e-01	-0.710407249	-0.525836
# # 246	0.1247674	3.728865e-02	0.038879301	-0.525836
# # 247	0.1247674	2.222986e+00	3.720279633	-0.525836
# # 248	0.1247674	-3.282376e-01	-0.349901456	-0.525836
# # 249	0.1247674	-4.401333e-01	-0.484207536	1.901100
# # 250	0.1247674	-4.028348e-01	0.279216496	-0.525836
# # 252	0.1247674	-3.879153e-01	-0.291937780	-0.525836
# # 253	0.1247674	-4.699722e-01	-0.484207536	1.901100
# # 254	0.1247674	2.222986e+00	2.722880273	-0.525836
# # 255	0.1247674	-4.625125e-01	-0.427657607	-0.525836
# # 256	0.1247674	-4.774319e-01	-0.569032428	1.901100
# # 258	0.1247674	-4.550528e-01	-0.484207536	1.901100
# # 259	0.1247674	2.222986e+00	2.722880273	-0.525836
# # 260	0.1247674	-4.550528e-01	-0.328695233	-0.525836
# # 261	0.1247674	1.864830e-01	-0.569032428	-0.525836
# # 266	0.1247674	2.334882e+00	-0.265076564	-0.525836
# # 267	0.1247674	-5.968770e-02	0.166116640	-0.525836
# # 268	0.1247674	2.267745e+00	3.272828325	-0.525836

## 269	0.1247674	2.215526e+00	2.201914058	-0.525836
## 270	0.1247674	2.215526e+00	-0.837220463	-0.525836
## 271	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 273	0.1247674	-2.088821e-01	-0.540757464	-0.525836
## 274	0.1247674	-3.431570e-01	-0.498345018	-0.525836
## 275	0.1247674	-4.475931e-01	-0.371107679	-0.525836
## 276	0.1247674	-1.790432e-01	-0.611444874	-0.525836
## 277	0.1247674	-7.460713e-02	2.060539237	-0.525836
## 278	0.1247674	-2.685598e-01	0.123704193	1.901100
## 279	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 280	0.1247674	-4.625125e-01	-0.710407249	-0.525836
## 281	0.1247674	-1.119057e-01	1.495039954	-0.525836
## 283	0.1247674	-3.879153e-01	-0.470070054	-0.525836
## 284	0.1247674	2.469157e+00	2.201914058	-0.525836
## 286	0.1247674	-4.774319e-01	-0.540757464	1.901100
## 287	0.1247674	-2.834793e-01	-0.399382643	-0.525836
## 288	0.1247674	2.200607e+00	1.803943938	-0.525836
## 289	0.1247674	-3.207778e-01	-0.455932572	-0.525836
## 292	0.1247674	1.491844e-01	-0.201457894	-0.525836
## 295	0.1247674	-4.252139e-01	2.018126791	-0.525836
## 296	0.1247674	-3.356973e-01	-0.229732858	1.901100
## 297	0.1247674	5.594690e-01	-0.356970197	-0.525836
## 298	0.1247674	2.208067e+00	1.424352544	-0.525836
## 299	0.1247674	-4.550528e-01	-0.144907966	1.901100
## 300	0.1247674	-3.655362e-01	-0.710407249	-0.525836
## 301	0.1247674	-5.968770e-02	-0.427657607	1.901100
## 302	0.1247674	-4.252139e-01	0.547828656	-0.525836
## 303	0.1247674	-4.923514e-01	-0.385245161	-0.525836
## 305	0.1247674	-2.387209e-01	0.399385094	-0.525836
## 306	0.1247674	-4.998111e-01	-0.356970197	-0.525836
## 308	0.1247674	-2.611001e-01	-0.696269767	-0.525836
## 310	0.1247674	-2.983987e-01	-0.081289297	-0.525836
## 311	0.1247674	-4.252139e-01	-0.166114189	-0.525836
## 312	0.1247674	-2.312612e-01	-0.484207536	-0.525836

## 314	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 315	0.1247674	-1.492043e-01	0.731615923	-0.525836
## 316	0.1247674	-7.460713e-02	-0.371107679	-0.525836
## 317	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 318	0.1247674	2.193147e+00	2.722880273	-0.525836
## 320	0.1247674	-4.848917e-01	-0.413520125	1.901100
## 321	0.1247674	-2.760195e-01	0.123704193	1.901100
## 322	0.1247674	-4.252139e-01	-0.569032428	-0.525836
## 323	0.1247674	7.458724e-02	-0.399382643	-0.525836
## 324	0.1247674	-3.879153e-01	-0.851782070	-0.525836
## 325	0.1247674	-4.028348e-01	-0.660926062	1.901100
## 328	0.1247674	-3.133181e-01	1.763652114	-0.525836
## 329	0.1247674	-3.356973e-01	1.099190456	1.901100
## 330	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 332	0.1247674	-4.923514e-01	-0.505413759	-0.525836
## 334	0.1247674	-3.879153e-01	-0.431898852	-0.525836
## 335	0.1247674	-2.834793e-01	-0.554894946	-0.525836
## 336	0.1247674	-3.580764e-01	-0.291937780	-0.525836
## 338	0.1247674	-4.550528e-01	-0.569032428	1.901100
## 340	0.1247674	-4.550528e-01	-0.215595376	1.901100
## 341	0.1247674	-4.177542e-01	1.834339524	-0.525836
## 342	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 344	0.1247674	-5.147305e-01	-0.187320412	-0.525836
## 345	0.1247674	-1.342849e-01	-0.696269767	-0.525836
## 346	0.1247674	3.282177e-01	-0.413520125	-0.525836
## 349	0.1247674	-4.625125e-01	-0.526619982	-0.525836
## 351	0.1247674	-2.312612e-01	2.046401755	1.901100
## 352	0.1247674	-2.909390e-01	0.267906511	-0.525836
## 353	0.1247674	-1.566640e-01	-0.682132285	-0.525836
## 354	0.1247674	-3.729959e-01	0.095429229	-0.525836
## 358	0.1247674	-3.655362e-01	-0.272145305	1.901100
## 359	0.1247674	-4.028348e-01	0.166116640	-0.525836
## 361	0.1247674	-2.834793e-01	-0.549946827	-0.525836
## 362	0.1247674	-1.492043e-01	-0.569032428	-0.525836

## 364	0.1247674	-2.238910e-02	-0.159045448	-0.525836
## 367	0.1247674	-2.088821e-01	-0.229732858	-0.525836
## 368	0.1247674	-2.461807e-01	-0.137839225	1.901100
## 370	0.1247674	-4.998111e-01	-0.371107679	-0.525836
## 372	0.1247674	-2.760195e-01	-0.554894946	-0.525836
## 373	0.1247674	2.909191e-01	-0.356970197	-0.525836
## 375	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 377	0.1247674	-1.268252e-01	-0.512482500	-0.525836
## 378	0.1247674	-4.774319e-01	-0.291937780	-0.525836
## 379	0.1247674	-4.401333e-01	-0.583169910	-0.525836
## 380	0.1247674	-2.909390e-01	-0.554894946	-0.525836
## 381	0.1247674	-2.760195e-01	-0.031808109	1.901100
## 382	0.1247674	2.610802e-01	3.347756980	-0.525836
## 383	0.1247674	-1.193654e-01	-0.378176420	1.901100
## 386	0.1247674	-4.699722e-01	-0.498345018	-0.525836
## 388	0.1247674	-3.431570e-01	-0.427657607	1.901100
## 389	0.1247674	2.208067e+00	2.201914058	-0.525836
## 391	0.1247674	-4.475931e-01	-0.291937780	-0.525836
## 392	0.1247674	-3.729959e-01	-0.151976707	-0.525836
## 393	0.1247674	-4.326736e-01	-0.484207536	1.901100
## 395	0.1247674	-3.058584e-01	-0.477138795	1.901100
## 396	0.1247674	-4.475931e-01	-0.540757464	1.901100
## 397	0.1247674	-3.879153e-01	-0.505413759	-0.525836
## 398	0.1247674	1.409877e+00	0.279216496	-0.525836
## 402	0.1247674	5.220808e-02	-0.427657607	-0.525836
## 403	0.1247674	-8.206685e-02	-0.470070054	-0.525836
## 404	0.1247674	-9.946292e-06	-0.710407249	-0.525836
## 405	0.1247674	-2.536404e-01	0.267906511	-0.525836
## 406	0.1247674	-2.611001e-01	0.127945438	-0.525836
## 407	0.1247674	-4.699722e-01	-0.696269767	-0.525836
## 408	0.1247674	-4.401333e-01	-0.583169910	-0.525836
## 410	0.1247674	2.387011e-01	0.321628942	1.901100
## 411	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 412	0.1247674	-5.072708e-01	-0.569032428	-0.525836

## 414	0.1247674	2.208067e+00	1.803943938	-0.525836
## 415	0.1247674	-1.417446e-01	0.250941532	1.901100
## 416	0.1247674	-4.625125e-01	-0.371107679	-0.525836
## 417	0.1247674	-3.356973e-01	-0.540757464	1.901100
## 418	0.1247674	-4.177542e-01	-0.427657607	-0.525836
## 419	0.1247674	-2.238015e-01	-0.625582356	-0.525836
## 420	0.1247674	-1.715835e-01	0.109566711	-0.525836
## 421	0.1247674	-5.072708e-01	-0.583169910	-0.525836
## 422	0.1247674	-2.312612e-01	-0.710407249	-0.525836
## 423	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 424	0.1247674	-5.072708e-01	-0.597307392	1.901100
## 425	0.1247674	-5.147305e-01	-0.549946827	-0.525836
## 426	0.1247674	-4.028348e-01	-0.484207536	-0.525836
## 428	0.1247674	-2.611001e-01	-0.512482500	-0.525836
## 429	0.1247674	-4.252139e-01	0.547828656	-0.525836
## 430	0.1247674	-5.968770e-02	0.030396812	-0.525836
## 431	0.1247674	-3.655362e-01	-0.314557751	-0.525836
## 434	0.1247674	-4.475931e-01	1.240565277	-0.525836
## 435	0.1247674	-3.282376e-01	-0.470070054	1.901100
## 436	0.1247674	-4.028348e-01	0.166116640	-0.525836
## 437	0.1247674	-3.879153e-01	-0.003533145	1.901100
## 438	0.1247674	-5.147305e-01	-0.512482500	-0.525836
## 439	0.1247674	-4.401333e-01	-0.378176420	1.901100
## 442	0.1247674	-4.923514e-01	1.622277293	-0.525836
## 444	0.1247674	-4.550528e-01	-0.431898852	-0.525836
## 447	0.1247674	-8.206685e-02	-0.710407249	-0.525836
## 448	0.1247674	-5.072708e-01	-0.130770484	-0.525836
## 450	0.1247674	-4.923514e-01	-0.554894946	-0.525836
## 451	0.1247674	-3.356973e-01	0.127945438	-0.525836
## 452	0.1247674	-4.102945e-01	-0.229732858	-0.525836
## 455	0.1247674	-1.939626e-01	-0.484207536	1.901100
## 456	0.1247674	-4.774319e-01	-0.243870341	-0.525836
## 457	0.1247674	-2.760195e-01	-0.625582356	1.901100
## 458	0.1247674	-4.923514e-01	-0.498345018	-0.525836

# # 460	0.1247674	-4.625125e-01	-0.484207536	1.901100
# # 462	0.1247674	-2.238015e-01	0.038879301	-0.525836
# # 464	0.1247674	-2.685598e-01	-0.300420269	1.901100
# # 465	0.1247674	-3.058584e-01	-0.060083074	-0.525836
# # 466	0.1247674	-4.028348e-01	-0.667994803	-0.525836
# # 467	0.1247674	-1.119057e-01	-0.484207536	1.901100
# # 468	0.1247674	-4.326736e-01	-0.215595376	1.901100
# # 469	0.1247674	-4.102945e-01	-0.300420269	-0.525836
# # 470	0.1247674	-4.028348e-01	-0.328695233	-0.525836
# # 473	0.1247674	-4.550528e-01	-0.441795090	-0.525836
# # 474	0.1247674	-3.282376e-01	-0.512482500	-0.525836
# # 475	0.1247674	-4.326736e-01	-0.710407249	-0.525836
# # 476	0.1247674	-4.475931e-01	-0.335763974	-0.525836
# # 477	0.1247674	-1.715835e-01	0.236804050	-0.525836
# # 478	0.1247674	2.327422e+00	3.272828325	-0.525836
# # 479	0.1247674	2.759996e-01	-0.498345018	-0.525836
# # 480	0.1247674	2.237816e-01	0.827750801	-0.525836
# # 481	0.1247674	-3.655362e-01	0.300422719	-0.525836
# # 482	0.1247674	-5.072708e-01	-0.540757464	1.901100
# # 485	0.1247674	-3.133181e-01	-0.399382643	-0.525836
# # 487	0.1247674	2.349801e+00	-0.540757464	1.901100
# # 488	0.1247674	-5.147305e-01	-0.710407249	-0.525836
# # 489	0.1247674	-4.625125e-01	0.127945438	-0.525836
# # 490	0.1247674	-2.685598e-01	-0.540757464	-0.525836
# # 491	0.1247674	-4.848917e-01	-0.625582356	1.901100
# # 493	0.1247674	-3.655362e-01	0.576103620	-0.525836
# # 495	0.1247674	2.236921e-02	-0.187320412	1.901100
# # 496	0.1247674	-4.177542e-01	-0.682132285	-0.525836
# # 497	0.1247674	-4.177542e-01	-0.583169910	-0.525836
# # 500	0.1247674	-1.790432e-01	-0.413520125	1.901100
# # 502	0.1247674	-3.356973e-01	-0.314557751	-0.525836
# # 503	0.1247674	-2.760195e-01	-0.569032428	-0.525836
# # 504	0.1247674	-4.326736e-01	-0.710407249	-0.525836
# # 506	0.1247674	-2.536404e-01	0.731615923	-0.525836

## 507	0.1247674	5.520092e-01	-0.272145305	-0.525836
## 508	0.1247674	-2.163418e-01	0.519553691	-0.525836
## 509	0.1247674	-2.611001e-01	-0.597307392	-0.525836
## 510	0.1247674	-4.774319e-01	-0.710407249	-0.525836
## 512	0.1247674	2.215526e+00	5.255610186	-0.525836
## 514	0.1247674	2.163219e-01	-0.851782070	-0.525836
## 515	0.1247674	-3.207778e-01	-0.569032428	-0.525836
## 516	0.1247674	-4.252139e-01	-0.470070054	1.901100
## 517	0.1247674	-1.268252e-01	-0.571859925	-0.525836
## 519	0.1247674	5.594690e-01	0.484209986	1.901100
## 520	0.1247674	-4.923514e-01	-0.625582356	1.901100
## 521	0.1247674	-3.730854e-02	0.166116640	1.901100
## 522	0.1247674	-5.147305e-01	-0.710407249	-0.525836
## 523	0.1247674	-4.028348e-01	-0.088358038	-0.525836
## 524	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 526	0.1247674	-4.848917e-01	-0.215595376	-0.525836
## 527	0.1247674	-3.729959e-01	-0.385245161	-0.525836
## 529	0.1247674	-1.790432e-01	1.169877867	-0.525836
## 531	0.1247674	-2.387209e-01	-0.003533145	1.901100
## 532	0.1247674	-3.729959e-01	0.045948042	-0.525836
## 533	0.1247674	-4.923514e-01	-0.526619982	-0.525836
## 535	0.1247674	3.431371e-01	0.208529086	1.901100
## 536	0.1247674	-2.685598e-01	-0.215595376	-0.525836
## 537	0.1247674	-3.953750e-01	-0.455932572	-0.525836
## 538	0.1247674	-1.865029e-01	-0.851782070	-0.525836
## 541	0.1247674	2.200607e+00	2.201914058	-0.525836
## 542	0.1247674	-1.790432e-01	0.731615923	-0.525836
## 544	0.1247674	-4.550528e-01	-0.470070054	-0.525836
## 545	0.1247674	-4.177542e-01	-0.540757464	-0.525836
## 546	0.1247674	-1.193654e-01	-0.095426779	1.901100
## 547	0.1247674	3.207580e-01	0.703340958	-0.525836
## 548	0.1247674	-3.282376e-01	-0.300420269	1.901100
## 550	0.1247674	-1.193654e-01	-0.243870341	-0.525836
## 551	0.1247674	-4.774319e-01	-0.625582356	1.901100

## 552	0.1247674	-4.774319e-01	-0.291937780	-0.525836
## 553	0.1247674	-4.625125e-01	-0.431898852	-0.525836
## 554	0.1247674	-4.401333e-01	-0.710407249	-0.525836
## 555	0.1247674	3.058385e-01	-0.356970197	1.901100
## 556	0.1247674	-3.655362e-01	-0.711820997	-0.525836
## 557	0.1247674	2.297583e+00	-0.286282787	1.901100
## 558	0.1247674	-4.923514e-01	-0.431898852	-0.525836
## 560	0.1247674	-4.550528e-01	-0.696269767	-0.525836
## 561	0.1247674	-2.834793e-01	0.279216496	-0.525836
## 562	0.1247674	1.715636e-01	-0.569032428	-0.525836
## 563	0.1247674	-3.207778e-01	-0.144907966	1.901100
## 564	-8.0122397	1.490949e-02	-0.441795090	-0.525836
## 565	0.1247674	1.490949e-02	-0.625582356	-0.525836
## 566	0.1247674	8.727771e-01	-0.286282787	-0.525836
## 570	0.1247674	-4.177542e-01	-0.569032428	-0.525836
## 571	0.1247674	2.416939e+00	3.855999461	-0.525836
## 573	0.1247674	-1.342849e-01	-0.286282787	-0.525836
## 574	0.1247674	5.743884e-01	-0.356970197	-0.525836
## 575	0.1247674	-4.998111e-01	-0.431898852	-0.525836
## 578	0.1247674	-2.461807e-01	-0.130770484	-0.525836
## 582	0.1247674	-1.193654e-01	-0.625582356	1.901100
## 583	0.1247674	-3.879153e-01	-0.378176420	1.901100
## 584	0.1247674	-4.401333e-01	-0.286282787	1.901100
## 585	0.1247674	-3.804556e-01	0.166116640	-0.525836
## 586	0.1247674	-3.058584e-01	-0.385245161	-0.525836
## 587	0.1247674	-4.848917e-01	-0.431898852	-0.525836
## 588	0.1247674	-4.848917e-01	-0.639719839	1.901100
## 589	0.1247674	-4.699722e-01	-0.300420269	-0.525836
## 590	0.1247674	2.983788e-01	0.267906511	-0.525836
## 591	0.1247674	-4.475931e-01	-0.611444874	1.901100
## 592	0.1247674	-4.848917e-01	-0.540757464	1.901100
## 594	0.1247674	-3.730854e-02	0.279216496	-0.525836
## 595	0.1247674	2.215526e+00	2.201914058	-0.525836
## 597	0.1247674	6.116870e-01	-0.060083074	1.901100

## 598	0.1247674	2.909191e-01	2.413976289	1.901100
## 599	0.1247674	-4.550528e-01	-0.215595376	1.901100
## 601	0.1247674	-2.238015e-01	-0.757202315	-0.525836
## 602	0.1247674	1.342650e-01	-0.611444874	-0.525836
## 606	0.1247674	-2.611001e-01	-0.441795090	-0.525836
## 608	0.1247674	-4.998111e-01	-0.639719839	1.901100
## 609	0.1247674	-4.102945e-01	-0.328695233	-0.525836
## 610	0.1247674	-4.252139e-01	-0.081289297	-0.525836
## 612	0.1247674	5.594690e-01	-0.300420269	1.901100
## 613	0.1247674	-4.923514e-01	-0.851782070	-0.525836
## 614	0.1247674	2.297583e+00	2.201914058	-0.525836
## 615	0.1247674	-4.102945e-01	-0.597307392	1.901100
## 616	0.1247674	-3.655362e-01	-0.569032428	-0.525836
## 618	0.1247674	-4.550528e-01	0.127945438	-0.525836
## 620	0.1247674	2.305043e+00	3.272828325	-0.525836
## 621	0.1247674	-4.475931e-01	-0.569032428	-0.525836
## 622	0.1247674	-4.102945e-01	-0.300420269	1.901100
## 623	0.1247674	-4.699722e-01	0.731615923	-0.525836
## 624	0.1247674	-5.072708e-01	-0.470070054	1.901100
## 625	0.1247674	-2.983987e-01	0.267906511	-0.525836
## 627	0.1247674	-4.699722e-01	-0.710407249	-0.525836
## 628	0.1247674	-2.760195e-01	-0.291937780	-0.525836
## 629	0.1247674	-2.983987e-01	0.194391604	-0.525836
## 631	0.1247674	-6.714741e-02	-0.803290506	-0.525836
## 632	0.1247674	7.832605e-01	1.807478308	-0.525836
## 633	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 634	0.1247674	3.132982e-01	0.267906511	-0.525836
## 637	0.1247674	1.268053e-01	0.095429229	-0.525836
## 639	0.1247674	-3.729959e-01	-0.569032428	-0.525836
## 641	0.1247674	-4.475931e-01	-0.342832715	-0.525836
## 642	0.1247674	-4.625125e-01	-0.533688723	-0.525836
## 644	0.1247674	2.409479e+00	-0.455932572	-0.525836
## 645	0.1247674	-4.475931e-01	-0.017670627	-0.525836
## 646	0.1247674	-2.014223e-01	0.279216496	-0.525836

#	647	0.1247674	5.520092e-01	-0.851782070	-0.525836
#	649	0.1247674	-4.475931e-01	-0.427657607	-0.525836
#	650	0.1247674	-4.326736e-01	-0.625582356	-0.525836
#	651	0.1247674	-3.804556e-01	0.024741819	1.901100
#	653	0.1247674	-3.356973e-01	-0.286282787	-0.525836
#	654	0.1247674	-1.715835e-01	-0.554894946	-0.525836
#	656	0.1247674	-4.028348e-01	-0.569032428	-0.525836
#	657	0.1247674	1.148787e+00	-0.639719839	-0.525836
#	658	0.1247674	-4.848917e-01	-0.470070054	-0.525836
#	659	0.1247674	-2.760195e-01	-0.286282787	-0.525836
#	660	0.1247674	-4.774319e-01	-0.540757464	1.901100
#	661	0.1247674	-4.699722e-01	-0.569032428	-0.525836
#	662	0.1247674	2.342342e+00	2.201914058	-0.525836
#	663	0.1247674	-2.984882e-02	0.369696381	-0.525836
#	664	0.1247674	1.297981e+00	-0.653857321	-0.525836
#	665	0.1247674	-4.252139e-01	-0.597307392	1.901100
#	666	0.1247674	-4.028348e-01	-0.413520125	1.901100
#	668	0.1247674	5.818481e-01	-0.455932572	-0.525836
#	669	0.1247674	1.036891e+00	-0.151976707	-0.525836
#	672	0.1247674	-4.848917e-01	-0.356970197	-0.525836
#	673	0.1247674	-4.699722e-01	-0.520964989	1.901100
#	678	-8.0122397	2.387011e-01	-0.427657607	-0.525836
#	679	0.1247674	-4.774319e-01	-0.441795090	-0.525836
#	681	0.1247674	-4.326736e-01	-0.667994803	-0.525836
#	683	0.1247674	-4.625125e-01	-0.159045448	-0.525836
#	684	0.1247674	-4.177542e-01	-0.520964989	1.901100
#	685	0.1247674	-4.326736e-01	-0.639719839	1.901100
#	687	0.1247674	-4.326736e-01	-0.539343716	1.901100
#	688	0.1247674	-5.072708e-01	-0.554894946	-0.525836
#	689	0.1247674	-3.282376e-01	-0.597307392	-0.525836
#	690	0.1247674	-3.431570e-01	0.554190523	-0.525836
#	691	0.1247674	-1.342849e-01	-0.710407249	-0.525836
#	693	0.1247674	4.624926e-01	-0.540757464	-0.525836
#	695	0.1247674	1.864830e-01	-0.356970197	1.901100

## 696	0.1247674	-6.714741e-02	-0.455932572	-0.525836
## 697	0.1247674	-2.014223e-01	-0.371107679	-0.525836
## 698	0.1247674	-1.641238e-01	2.003989309	-0.525836
## 699	0.1247674	-3.207778e-01	0.123704193	-0.525836
## 700	0.1247674	-3.133181e-01	-0.455932572	-0.525836
## 701	0.1247674	-4.177542e-01	-0.151976707	-0.525836
## 702	0.1247674	-4.774319e-01	-0.660926062	1.901100
## 704	0.1247674	-4.550528e-01	-0.851782070	1.901100
## 705	0.1247674	-4.625125e-01	-0.484207536	1.901100
## 706	0.1247674	-1.566640e-01	-0.012015635	-0.525836
## 707	0.1247674	2.237816e-01	-0.258007823	-0.525836
## 711	0.1247674	-4.475931e-01	-0.512482500	-0.525836
## 712	0.1247674	-4.102945e-01	-0.569032428	-0.525836
## 713	0.1247674	-1.417446e-01	-0.427657607	1.901100
## 714	0.1247674	-4.102945e-01	0.279216496	-0.525836
## 715	0.1247674	-2.014223e-01	-0.540757464	-0.525836
## 716	0.1247674	1.230844e+00	0.687789728	-0.525836
## 718	0.1247674	-3.506167e-01	-0.300420269	-0.525836
## 719	0.1247674	-5.072708e-01	-0.711820997	-0.525836
## 720	0.1247674	6.712752e-02	-0.569032428	-0.525836
## 721	0.1247674	2.312413e-01	-0.540757464	1.901100
## 722	0.1247674	-2.312612e-01	0.342835166	-0.525836
## 723	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 724	0.1247674	-3.207778e-01	-0.590238651	-0.525836
## 725	0.1247674	-4.401333e-01	-0.470070054	1.901100
## 726	0.1247674	6.564453e-01	2.512938664	1.901100
## 727	0.1247674	3.729760e-01	-0.413520125	-0.525836
## 729	0.1247674	2.282664e+00	2.201914058	-0.525836
## 730	0.1247674	4.102746e-01	-0.328695233	-0.525836
## 732	0.1247674	-4.177542e-01	-0.286282787	-0.525836
## 733	0.1247674	-4.998111e-01	-0.571859925	-0.525836
## 738	0.1247674	-3.953750e-01	-0.660926062	1.901100
## 739	0.1247674	-1.417446e-01	0.731615923	-0.525836
## 740	0.1247674	-3.580764e-01	-0.300420269	1.901100

## 742	0.1247674	-4.699722e-01	-0.603669259	1.901100
## 743	0.1247674	-4.774319e-01	-0.710407249	-0.525836
## 744	0.1247674	-4.475931e-01	-0.300420269	-0.525836
## 747	0.1247674	-4.475931e-01	-0.429071356	1.901100
## 748	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 749	0.1247674	-1.715835e-01	0.222666568	-0.525836
## 750	-8.0122397	5.220808e-02	-0.441795090	-0.525836
## 751	0.1247674	-4.774319e-01	-0.554894946	1.901100
## 752	0.1247674	2.334882e+00	2.201914058	-0.525836
## 753	0.1247674	2.983788e-01	-0.653857321	-0.525836
## 754	0.1247674	-1.566640e-01	-0.710407249	-0.525836
## 755	0.1247674	2.357261e+00	-0.074220556	-0.525836
## 757	0.1247674	6.862842e-01	-0.356970197	1.901100
## 758	0.1247674	-4.550528e-01	-0.597307392	1.901100
## 759	0.1247674	-5.072708e-01	-0.803149131	-0.525836
## 761	0.1247674	-4.774319e-01	-0.512482500	-0.525836
## 762	0.1247674	-4.625125e-01	-0.569032428	-0.525836
## 763	0.1247674	-4.998111e-01	-0.710407249	-0.525836
## 764	0.1247674	-8.206685e-02	-0.526619982	1.901100
## 765	0.1247674	-4.998111e-01	-0.484207536	1.901100
## 769	0.1247674	-8.206685e-02	0.279216496	-0.525836
## 770	0.1247674	2.282664e+00	2.088814202	-0.525836
## 772	0.1247674	-4.774319e-01	-0.291937780	-0.525836
## 773	0.1247674	-2.685598e-01	0.180254122	-0.525836
## 774	0.1247674	-3.655362e-01	1.989851827	1.901100
## 775	0.1247674	-2.685598e-01	-0.569032428	-0.525836
## 777	0.1247674	-4.475931e-01	-0.470070054	-0.525836
## 778	0.1247674	-3.804556e-01	-0.385245161	1.901100
## 779	0.1247674	-4.401333e-01	-0.385245161	-0.525836
## 780	0.1247674	-2.387209e-01	-0.151976707	-0.525836
## 781	0.1247674	-4.252139e-01	-0.569032428	-0.525836
## 782	0.1247674	-5.147305e-01	-0.710407249	-0.525836
## 783	0.1247674	-2.909390e-01	0.420591317	-0.525836
## 784	0.1247674	-4.699722e-01	-0.512482500	-0.525836

# #	785	0.1247674	-3.282376e-01	-0.569032428	1.901100
# #	788	0.1247674	-4.848917e-01	-0.258007823	-0.525836
# #	789	0.1247674	-4.774319e-01	-0.710407249	-0.525836
# #	790	0.1247674	2.200607e+00	3.272828325	-0.525836
# #	791	0.1247674	-8.952657e-02	-0.625582356	-0.525836
# #	792	0.1247674	-4.550528e-01	-0.639719839	-0.525836
# #	793	0.1247674	-4.774319e-01	-0.441795090	-0.525836
# #	794	0.1247674	-7.460713e-02	-0.074220556	-0.525836
# #	795	0.1247674	-4.476826e-02	-0.095426779	1.901100
# #	796	0.1247674	2.275204e+00	2.770240837	-0.525836
# #	797	0.1247674	2.200607e+00	5.499481752	-0.525836
# #	798	0.1247674	-1.715835e-01	-0.431898852	-0.525836
# #	799	0.1247674	4.474837e-02	0.967711873	-0.525836
# #	800	0.1247674	-3.953750e-01	-0.385245161	-0.525836
# #	803	0.1247674	-4.774319e-01	-0.484207536	-0.525836
# #	804	0.1247674	-3.879153e-01	-0.585007783	-0.525836
# #	806	0.1247674	-3.655362e-01	-0.356970197	-0.525836
# #	807	0.1247674	-4.475931e-01	-0.526619982	-0.525836
# #	810	0.1247674	-5.222798e-02	-0.719879362	-0.525836
# #	811	0.1247674	2.200607e+00	4.652646575	-0.525836
# #	814	0.1247674	8.204696e-02	-0.455932572	1.901100
# #	815	0.1247674	-4.401333e-01	-0.081289297	-0.525836
# #	816	0.1247674	7.012036e-01	0.687789728	-0.525836
# #	817	0.1247674	-1.492043e-01	-0.371107679	-0.525836
# #	819	0.1247674	4.474837e-02	-0.385245161	-0.525836
# #	820	0.1247674	-2.983987e-01	0.130772934	1.901100
# #	822	0.1247674	-3.655362e-01	-0.272145305	-0.525836
# #	823	0.1247674	2.193147e+00	3.272828325	-0.525836
# #	825	0.1247674	-3.729959e-01	-0.003533145	-0.525836
# #	826	0.1247674	2.759996e-01	-0.540757464	1.901100
# #	827	0.1247674	2.267745e+00	2.201914058	-0.525836
# #	830	0.1247674	-3.580764e-01	-0.328695233	-0.525836
# #	831	0.1247674	2.222986e+00	3.423392509	-0.525836
# #	832	-8.0122397	1.490949e-02	-0.427657607	-0.525836

## 833	0.1247674	-8.206685e-02	0.024741819	-0.525836
## 834	0.1247674	7.458724e-02	0.519553691	-0.525836
## 835	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 837	0.1247674	-2.834793e-01	-0.031808109	-0.525836
## 842	0.1247674	-4.699722e-01	-0.441795090	-0.525836
## 843	-8.0122397	5.966780e-02	-0.427657607	-0.525836
## 844	0.1247674	-3.580764e-01	-0.441795090	-0.525836
## 845	0.1247674	-4.848917e-01	-0.667994803	-0.525836
## 846	0.1247674	-4.550528e-01	-0.300420269	-0.525836
## 847	0.1247674	-3.431570e-01	-0.012015635	-0.525836
## 848	0.1247674	-3.282376e-01	-0.272145305	-0.525836
## 849	0.1247674	-1.417446e-01	-0.554894946	1.901100
## 851	0.1247674	2.200607e+00	1.424352544	-0.525836
## 852	0.1247674	-4.177542e-01	0.024741819	-0.525836
## 855	0.1247674	-4.028348e-01	0.279216496	-0.525836
## 858	0.1247674	-4.252139e-01	1.579864847	-0.525836
## 859	0.1247674	-3.133181e-01	-0.722706858	-0.525836
## 860	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 862	0.1247674	-3.580764e-01	-0.151976707	-0.525836
## 863	0.1247674	-1.268252e-01	0.406453835	-0.525836
## 864	0.1247674	-4.774319e-01	0.279216496	-0.525836
## 866	0.1247674	-4.252139e-01	-0.081289297	-0.525836
## 867	0.1247674	6.712752e-02	-0.116633002	-0.525836
## 868	0.1247674	-3.953750e-01	-0.696269767	-0.525836
## 869	0.1247674	-4.102945e-01	0.505416209	1.901100
## 872	0.1247674	-1.939626e-01	0.095429229	-0.525836
## 873	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 876	0.1247674	-4.102945e-01	0.024741819	-0.525836
## 877	0.1247674	1.342650e-01	-0.081289297	-0.525836
## 878	0.1247674	4.401135e-01	0.038879301	-0.525836
## 879	0.1247674	-4.774319e-01	-0.342832715	1.901100
## 880	0.1247674	-4.177542e-01	-0.258007823	-0.525836
## 881	0.1247674	-4.252139e-01	-0.130770484	-0.525836
## 886	0.1247674	-3.804556e-01	-0.431898852	-0.525836

## 887	0.1247674	-4.774319e-01	-0.597307392	1.901100
## 888	0.1247674	2.357261e+00	5.499481752	-0.525836
## 890	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 892	0.1247674	-3.729959e-01	-0.569032428	-0.525836
## 893	0.1247674	2.431858e+00	3.118022896	-0.525836
## 895	0.1247674	2.982893e-02	-0.484207536	1.901100
## 897	0.1247674	2.402019e+00	0.123704193	-0.525836
## 898	0.1247674	-7.469665e-03	0.127945438	-0.525836
## 899	0.1247674	3.804357e-01	0.267906511	-0.525836
## 902	0.1247674	-4.998111e-01	0.010604337	-0.525836
## 903	0.1247674	8.950668e-02	-0.427657607	1.901100
## 904	0.1247674	1.417247e-01	-0.378176420	1.901100
## 905	0.1247674	-4.625125e-01	-0.419881992	1.901100
## 906	0.1247674	-4.550528e-01	-0.639719839	1.901100
## 907	0.1247674	-9.946292e-06	-0.356970197	1.901100
## 909	0.1247674	-4.252139e-01	0.731615923	-0.525836
## 911	0.1247674	-1.790432e-01	-0.003533145	-0.525836
## 912	0.1247674	-2.163418e-01	2.201914058	-0.525836
## 913	0.1247674	-4.998111e-01	-0.710407249	-0.525836
## 914	0.1247674	-4.475931e-01	-0.540757464	-0.525836
## 915	0.1247674	-4.252139e-01	-0.300420269	-0.525836
## 917	0.1247674	-1.566640e-01	-0.300420269	-0.525836
## 919	0.1247674	-3.282376e-01	-0.851782070	-0.525836
## 921	0.1247674	-4.177542e-01	-0.512482500	-0.525836
## 922	0.1247674	9.696640e-02	0.279216496	-0.525836
## 923	0.1247674	2.200607e+00	2.201914058	-0.525836
## 924	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 925	-8.0122397	2.200607e+00	0.519553691	-0.525836
## 927	0.1247674	-2.611001e-01	-0.696269767	-0.525836
## 928	-8.0122397	-4.102945e-01	-0.441795090	-0.525836
## 929	0.1247674	-3.953750e-01	-0.569032428	1.901100
## 932	0.1247674	2.759996e-01	-0.470070054	1.901100
## 933	0.1247674	2.200607e+00	1.803943938	-0.525836
## 935	0.1247674	9.921326e-01	0.137841675	-0.525836

## 936	0.1247674	-3.729959e-01	-0.508806755	-0.525836
## 937	0.1247674	-4.699722e-01	-0.710407249	-0.525836
## 939	0.1247674	-2.685598e-01	-0.356970197	1.901100
## 940	0.1247674	-4.699722e-01	0.279216496	-0.525836
## 941	0.1247674	4.624926e-01	-0.569032428	-0.525836
## 942	0.1247674	-4.998111e-01	-0.441795090	-0.525836
## 946	0.1247674	5.966780e-02	0.576103620	1.901100
## 947	0.1247674	-3.729959e-01	0.166116640	-0.525836
## 949	0.1247674	-3.804556e-01	-0.533688723	-0.525836
## 950	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 952	0.1247674	-1.268252e-01	-0.427657607	1.901100
## 957	0.1247674	-8.952657e-02	-0.710407249	-0.525836
## 958	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 960	0.1247674	-1.268252e-01	-0.159045448	-0.525836
## 961	0.1247674	-4.625125e-01	-0.151976707	-0.525836
## 962	0.1247674	1.566441e-01	-0.053014333	-0.525836
## 963	0.1247674	-1.417446e-01	-0.291937780	-0.525836
## 964	0.1247674	-1.492043e-01	0.127945438	-0.525836
## 965	0.1247674	-7.460713e-02	-0.356970197	-0.525836
## 966	0.1247674	2.230446e+00	3.403600034	-0.525836
## 967	0.1247674	3.655163e-01	1.240565277	1.901100
## 968	0.1247674	-5.072708e-01	-0.314557751	-0.525836
## 969	0.1247674	-4.699722e-01	-0.371107679	-0.525836
## 971	0.1247674	-2.163418e-01	-0.526619982	1.901100
## 975	0.1247674	3.728865e-02	-0.514320373	-0.525836
## 977	0.1247674	-4.550528e-01	-0.851782070	-0.525836
## 978	0.1247674	-4.401333e-01	-0.470070054	1.901100
## 979	0.1247674	-1.790432e-01	-0.349901456	1.901100
## 981	0.1247674	-4.326736e-01	-0.851782070	-0.525836
## 982	0.1247674	3.058385e-01	-0.151976707	-0.525836
## 983	0.1247674	-4.102945e-01	0.095429229	1.901100
## 984	-8.0122397	-3.133181e-01	-0.427657607	-0.525836
## 985	0.1247674	-6.714741e-02	0.279216496	-0.525836
## 988	0.1247674	-5.147305e-01	-0.667994803	-0.525836

## 989	0.1247674	1.566441e-01	-0.569032428	-0.525836
## 990	0.1247674	-4.550528e-01	-0.667994803	-0.525836
## 991	0.1247674	-3.282376e-01	0.180254122	-0.525836
## 992	0.1247674	-4.177542e-01	-0.431898852	-0.525836
## 993	0.1247674	-3.506167e-01	-0.625582356	1.901100
## 994	0.1247674	-4.625125e-01	0.447169783	-0.525836
## 995	0.1247674	5.072509e-01	-0.102495520	-0.525836
## 996	0.1247674	-4.699722e-01	-0.441795090	-0.525836
## 997	0.1247674	1.268053e-01	-0.215595376	1.901100
## 999	0.1247674	-2.834793e-01	-0.511775626	-0.525836
## 1000	0.1247674	-4.475931e-01	-0.434726348	-0.525836
## 1001	0.1247674	2.252825e+00	2.107192928	-0.525836
## 1002	0.1247674	-4.326736e-01	0.267906511	-0.525836
## 1004	0.1247674	-4.923514e-01	-0.696269767	-0.525836
## 1006	0.1247674	-4.848917e-01	0.180254122	-0.525836
## 1007	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 1008	0.1247674	-2.909390e-01	-0.441795090	-0.525836
## 1009	0.1247674	-1.119057e-01	-0.286282787	1.901100
## 1010	0.1247674	-2.014223e-01	-0.851782070	-0.525836
## 1011	0.1247674	1.633668e+00	-0.441795090	-0.525836
## 1012	0.1247674	1.089109e+00	-0.569032428	-0.525836
## 1013	0.1247674	-3.953750e-01	-0.053014333	-0.525836
## 1014	0.1247674	-4.177542e-01	0.967711873	-0.525836
## 1016	0.1247674	-3.730854e-02	0.731615923	-0.525836
## 1017	0.1247674	-2.834793e-01	-0.477138795	-0.525836
## 1018	0.1247674	-2.611001e-01	-0.399382643	-0.525836
## 1020	0.1247674	2.236921e-02	-0.611444874	-0.525836
## 1023	0.1247674	-4.252139e-01	-0.328695233	-0.525836
## 1024	0.1247674	-4.998111e-01	1.254702759	-0.525836
## 1025	-8.0122397	-3.729959e-01	-0.441795090	-0.525836
## 1032	0.1247674	-4.774319e-01	-0.660926062	1.901100
## 1033	0.1247674	-4.475931e-01	-0.427657607	-0.525836
## 1034	0.1247674	-5.072708e-01	-0.823789855	-0.525836
## 1035	0.1247674	-3.804556e-01	-0.356970197	1.901100

## 1039	0.1247674	1.566531e+00	-0.849095948	-0.525836
## 1041	0.1247674	-2.611001e-01	-0.710407249	-0.525836
## 1044	0.1247674	-2.983987e-01	-0.625582356	1.901100
## 1045	0.1247674	-2.461807e-01	0.279216496	-0.525836
## 1046	0.1247674	-2.983987e-01	-0.569032428	-0.525836
## 1049	0.1247674	-2.983987e-01	-0.151976707	-0.525836
## 1050	0.1247674	2.312503e+00	2.722880273	-0.525836
## 1051	0.1247674	3.356774e-01	-0.378176420	1.901100
## 1055	0.1247674	-4.625125e-01	-0.455932572	1.901100
## 1056	0.1247674	-3.804556e-01	-0.455932572	-0.525836
## 1057	0.1247674	-3.879153e-01	-0.413520125	1.901100
## 1058	0.1247674	-4.699722e-01	0.010604337	-0.525836
## 1059	0.1247674	-4.028348e-01	-0.427657607	-0.525836
## 1061	0.1247674	-4.102945e-01	-0.286282787	-0.525836
## 1062	0.1247674	1.118858e-01	-0.533688723	-0.525836
## 1063	0.1247674	-4.699722e-01	-0.434726348	-0.525836
## 1064	0.1247674	2.222986e+00	2.722880273	-0.525836
## 1065	0.1247674	-4.476826e-02	2.074676719	-0.525836
## 1066	0.1247674	2.208067e+00	1.803943938	-0.525836
## 1067	0.1247674	2.982893e-02	0.618516066	-0.525836
## 1070	0.1247674	-3.580764e-01	-0.441795090	-0.525836
## 1074	0.1247674	-2.387209e-01	-0.484207536	-0.525836
## 1075	0.1247674	-2.238015e-01	1.353665134	-0.525836
## 1080	0.1247674	2.193147e+00	3.720279633	-0.525836
## 1081	0.1247674	-2.536404e-01	0.116635452	1.901100
## 1082	0.1247674	2.200607e+00	2.201914058	-0.525836
## 1086	0.1247674	-4.401333e-01	-0.012015635	-0.525836
## 1087	0.1247674	2.282664e+00	1.339527652	-0.525836
## 1088	0.1247674	2.200607e+00	3.855999461	-0.525836
## 1091	0.1247674	-3.804556e-01	-0.710407249	-0.525836
## 1092	0.1247674	-4.625125e-01	-0.639719839	-0.525836
## 1093	0.1247674	-4.699722e-01	-0.012015635	-0.525836
## 1095	0.1247674	-4.475931e-01	-0.611444874	-0.525836
## 1096	0.1247674	-1.566640e-01	-0.569032428	-0.525836

## 1098	0.1247674	-5.072708e-01	0.731615923	-0.525836
## 1099	0.1247674	-2.611001e-01	-0.470070054	-0.525836
## 1100	0.1247674	2.461608e-01	0.166116640	1.901100
## 1102	0.1247674	-4.625125e-01	-0.017670627	-0.525836
## 1104	0.1247674	4.474837e-02	-0.639719839	-0.525836
## 1105	0.1247674	-4.177542e-01	-0.597307392	1.901100
## 1107	0.1247674	-3.729959e-01	-0.569032428	-0.525836
## 1108	0.1247674	-4.625125e-01	-0.378176420	-0.525836
## 1110	0.1247674	-2.163418e-01	-0.095426779	1.901100
## 1111	0.1247674	-4.475931e-01	-0.335763974	-0.525836
## 1112	0.1247674	-4.923514e-01	-0.625582356	-0.525836
## 1113	0.1247674	-2.760195e-01	-0.291937780	-0.525836
## 1114	0.1247674	-3.431570e-01	-0.455932572	-0.525836
## 1115	0.1247674	2.163219e-01	-0.569032428	-0.525836
## 1117	0.1247674	-4.923514e-01	-0.431898852	-0.525836
## 1118	0.1247674	2.215526e+00	3.272828325	-0.525836
## 1119	0.1247674	-2.760195e-01	-0.159045448	-0.525836
## 1121	0.1247674	-4.848917e-01	-0.590238651	-0.525836
## 1122	0.1247674	-3.953750e-01	-0.258007823	-0.525836
## 1127	0.1247674	-4.550528e-01	-0.611444874	1.901100
## 1129	0.1247674	7.458724e-02	1.297115205	-0.525836
## 1130	0.1247674	-2.461807e-01	-0.851782070	-0.525836
## 1131	0.1247674	-1.939626e-01	-0.427657607	1.901100
## 1132	0.1247674	1.573991e+00	0.123704193	-0.525836
## 1134	0.1247674	-3.804556e-01	0.151979158	-0.525836
## 1135	0.1247674	-2.014223e-01	-0.540757464	-0.525836
## 1136	0.1247674	-4.401333e-01	-0.356970197	-0.525836
## 1137	0.1247674	-3.133181e-01	-0.519551241	1.901100
## 1138	0.1247674	9.995924e-01	-0.431898852	-0.525836
## 1141	0.1247674	-4.326736e-01	-0.286282787	-0.525836
## 1142	0.1247674	-2.984882e-02	0.364041389	1.901100
## 1143	0.1247674	1.223384e+00	-0.484207536	-0.525836
## 1144	0.1247674	-4.177542e-01	-0.413520125	-0.525836
## 1145	0.1247674	-6.714741e-02	1.387595091	-0.525836

## 1146	0.1247674	1.268053e-01	0.342835166	-0.525836
## 1147	0.1247674	-2.238015e-01	0.491278727	-0.525836
## 1148	0.1247674	-4.326736e-01	-0.625582356	1.901100
## 1150	0.1247674	2.982893e-02	-0.625582356	-0.525836
## 1152	0.1247674	-2.909390e-01	-0.512482500	-0.525836
## 1153	0.1247674	-2.611001e-01	-0.272145305	-0.525836
## 1156	0.1247674	-3.058584e-01	2.507283671	-0.525836
## 1157	0.1247674	-2.163418e-01	0.250941532	-0.525836
## 1158	0.1247674	-2.984882e-02	1.933301899	-0.525836
## 1159	0.1247674	-3.953750e-01	-0.455932572	1.901100
## 1160	0.1247674	-4.177542e-01	-0.569032428	-0.525836
## 1161	0.1247674	7.012036e-01	0.505416209	1.901100
## 1163	0.1247674	-4.475931e-01	-0.569032428	1.901100
## 1166	0.1247674	8.204696e-02	1.975714345	-0.525836
## 1167	0.1247674	-3.729959e-01	-0.060083074	-0.525836
## 1168	0.1247674	-4.550528e-01	-0.291937780	-0.525836
## 1169	0.1247674	-4.998111e-01	-0.653857321	-0.525836
## 1172	0.1247674	2.394560e+00	-0.053014333	1.901100
## 1175	0.1247674	-4.774319e-01	0.180254122	-0.525836
## 1176	0.1247674	-2.760195e-01	-0.851782070	-0.525836
## 1177	0.1247674	2.200607e+00	1.803943938	-0.525836
## 1178	0.1247674	-1.342849e-01	0.731615923	-0.525836
## 1179	0.1247674	-1.119057e-01	0.484209986	1.901100
## 1181	0.1247674	5.743884e-01	-0.413520125	-0.525836
## 1182	0.1247674	-4.102945e-01	-0.653857321	-0.525836
## 1184	0.1247674	-3.655362e-01	0.236804050	-0.525836
## 1185	0.1247674	2.982893e-02	0.731615923	-0.525836
## 1186	0.1247674	7.235828e-01	1.763652114	1.901100
## 1187	0.1247674	-4.625125e-01	-0.441795090	-0.525836
## 1188	0.1247674	-4.550528e-01	-0.519551241	1.901100
## 1189	0.1247674	3.207580e-01	-0.851782070	-0.525836
## 1190	0.1247674	-1.119057e-01	-0.328695233	1.901100
## 1191	0.1247674	5.743884e-01	0.038879301	-0.525836
## 1194	0.1247674	-1.715835e-01	0.731615923	-0.525836

## 1195	0.1247674	-6.714741e-02	-0.060083074	-0.525836
## 1197	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1198	0.1247674	-2.088821e-01	-0.286282787	1.901100
## 1201	0.1247674	-4.177542e-01	-0.291937780	-0.525836
## 1203	0.1247674	7.832605e-01	6.768320768	-0.525836
## 1205	0.1247674	-2.685598e-01	0.081291747	-0.525836
## 1206	0.1247674	6.415259e-01	-0.441795090	-0.525836
## 1207	0.1247674	1.864830e-01	-0.653857321	-0.525836
## 1208	0.1247674	-3.356973e-01	-0.710407249	-0.525836
## 1211	0.1247674	-3.207778e-01	0.127945438	-0.525836
## 1212	0.1247674	-3.879153e-01	0.151979158	-0.525836
## 1216	0.1247674	2.200607e+00	1.803943938	-0.525836
## 1217	0.1247674	-4.774319e-01	-0.045945591	-0.525836
## 1218	0.1247674	2.208067e+00	4.652646575	-0.525836
## 1219	0.1247674	-3.133181e-01	-0.300420269	-0.525836
## 1220	0.1247674	2.982893e-02	-0.495517521	1.901100
## 1221	0.1247674	2.237906e+00	2.201914058	-0.525836
## 1224	0.1247674	-4.550528e-01	-0.569032428	-0.525836
## 1225	0.1247674	-3.879153e-01	-0.427657607	1.901100
## 1226	0.1247674	2.215526e+00	2.201914058	-0.525836
## 1227	0.1247674	-4.177542e-01	-0.017670627	-0.525836
## 1229	0.1247674	-4.252139e-01	0.267906511	-0.525836
## 1230	0.1247674	-3.953750e-01	1.282977723	-0.525836
## 1231	0.1247674	-4.774319e-01	-0.569032428	-0.525836
## 1233	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1234	0.1247674	-4.998111e-01	-0.639719839	1.901100
## 1235	0.1247674	4.177343e-01	-0.611444874	-0.525836
## 1236	0.1247674	-4.401333e-01	-0.291937780	-0.525836
## 1238	0.1247674	-4.401333e-01	-0.842734081	-0.525836
## 1242	0.1247674	-3.207778e-01	-0.710407249	-0.525836
## 1247	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 1249	0.1247674	7.534216e-01	0.618516066	-0.525836
## 1251	0.1247674	2.193147e+00	3.855999461	-0.525836
## 1252	0.1247674	3.580565e-01	0.127945438	-0.525836

## 1253	0.1247674	-3.282376e-01	0.547828656	-0.525836
## 1256	0.1247674	4.474837e-02	-0.696269767	-0.525836
## 1258	0.1247674	-2.387209e-01	-0.569032428	-0.525836
## 1259	0.1247674	-4.550528e-01	-0.484207536	-0.525836
## 1263	0.1247674	-4.699722e-01	-0.012015635	-0.525836
## 1264	0.1247674	-3.879153e-01	-0.356970197	1.901100
## 1265	0.1247674	-3.953750e-01	-0.569032428	-0.525836
## 1266	0.1247674	-3.804556e-01	-0.300420269	-0.525836
## 1269	0.1247674	2.416939e+00	1.803943938	-0.525836
## 1270	0.1247674	-4.625125e-01	-0.710407249	-0.525836
## 1271	0.1247674	-3.431570e-01	-0.201457894	-0.525836
## 1272	0.1247674	2.200607e+00	2.201914058	-0.525836
## 1273	0.1247674	-4.401333e-01	-0.710407249	-0.525836
## 1274	-8.0122397	-2.909390e-01	-0.427657607	-0.525836
## 1276	0.1247674	-4.102945e-01	-0.653857321	-0.525836
## 1282	0.1247674	-2.238015e-01	0.166116640	-0.525836
## 1283	0.1247674	-2.163418e-01	1.396077580	1.901100
## 1284	0.1247674	-4.699722e-01	-0.597307392	1.901100
## 1285	0.1247674	-4.625125e-01	-0.229732858	-0.525836
## 1286	0.1247674	-3.580764e-01	-0.540757464	1.901100
## 1287	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1288	0.1247674	-3.953750e-01	-0.427657607	-0.525836
## 1289	0.1247674	-2.238015e-01	0.547828656	1.901100
## 1290	0.1247674	2.222986e+00	2.201914058	-0.525836
## 1291	0.1247674	-3.282376e-01	-0.399382643	-0.525836
## 1293	0.1247674	-3.729959e-01	-0.569032428	-0.525836
## 1294	0.1247674	-4.476826e-02	0.151979158	1.901100
## 1296	0.1247674	-4.923514e-01	-0.590238651	-0.525836
## 1298	0.1247674	8.205591e-01	-0.144907966	-0.525836
## 1299	0.1247674	2.387100e+00	3.403600034	-0.525836
## 1301	0.1247674	-4.699722e-01	-0.639719839	1.901100
## 1302	0.1247674	-2.238910e-02	-0.526619982	-0.525836
## 1304	0.1247674	3.282177e-01	0.407867583	-0.525836
## 1305	0.1247674	-3.506167e-01	-0.710407249	-0.525836

## 1306	0.1247674	-3.953750e-01	0.731615923	-0.525836
## 1308	0.1247674	-4.028348e-01	-0.431898852	-0.525836
## 1309	0.1247674	-3.879153e-01	-0.434726348	-0.525836
## 1311	0.1247674	-4.475931e-01	-0.554894946	1.901100
## 1312	0.1247674	2.237816e-01	0.641136037	-0.525836
## 1315	0.1247674	-2.536404e-01	-0.625582356	-0.525836
## 1317	0.1247674	-2.760195e-01	-0.569032428	-0.525836
## 1318	0.1247674	2.193147e+00	2.722880273	-0.525836
## 1320	0.1247674	-4.177542e-01	-0.710407249	-0.525836
## 1321	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1323	0.1247674	4.401135e-01	-0.569032428	-0.525836
## 1324	0.1247674	9.696640e-02	-0.823648480	-0.525836
## 1325	0.1247674	7.683411e-01	-0.291937780	-0.525836
## 1326	0.1247674	-4.774319e-01	-0.151976707	-0.525836
## 1327	0.1247674	-3.506167e-01	1.890889453	-0.525836
## 1328	0.1247674	-4.028348e-01	-0.569032428	-0.525836
## 1329	0.1247674	-4.774319e-01	-0.571859925	-0.525836
## 1330	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 1331	0.1247674	-1.417446e-01	-0.569032428	-0.525836
## 1332	0.1247674	-4.177542e-01	-0.625582356	-0.525836
## 1334	0.1247674	2.208067e+00	1.803943938	-0.525836
## 1335	0.1247674	-4.550528e-01	0.127945438	-0.525836
## 1340	0.1247674	-2.088821e-01	-0.300420269	-0.525836
## 1341	0.1247674	-3.730854e-02	-0.356970197	1.901100
## 1343	0.1247674	6.712752e-02	0.180254122	-0.525836
## 1347	0.1247674	-4.475931e-01	-0.427657607	-0.525836
## 1348	0.1247674	-3.730854e-02	-0.385245161	1.901100
## 1350	0.1247674	2.215526e+00	2.722880273	-0.525836
## 1352	0.1247674	-3.879153e-01	-0.279214046	1.901100
## 1354	0.1247674	9.846729e-01	-0.229732858	1.901100
## 1355	0.1247674	-4.998111e-01	-0.660926062	1.901100
## 1356	0.1247674	-9.946292e-06	-0.833544718	-0.525836
## 1357	0.1247674	-4.848917e-01	-0.653857321	-0.525836
## 1358	0.1247674	-3.058584e-01	-0.498345018	-0.525836

## 1359	0.1247674	-1.119057e-01	-0.569032428	-0.525836
## 1360	0.1247674	-2.760195e-01	0.076343628	1.901100
## 1363	0.1247674	-2.014223e-01	-0.710407249	-0.525836
## 1364	0.1247674	4.401135e-01	-0.173182930	-0.525836
## 1368	0.1247674	2.014025e-01	-0.272145305	-0.525836
## 1369	0.1247674	-4.102945e-01	0.646791030	-0.525836
## 1370	0.1247674	-1.790432e-01	-0.484207536	1.901100
## 1372	0.1247674	-6.714741e-02	-0.484207536	1.901100
## 1374	0.1247674	-3.282376e-01	-0.569032428	-0.525836
## 1375	0.1247674	-2.387209e-01	1.537452401	-0.525836
## 1376	0.1247674	9.696640e-02	-0.710407249	-0.525836
## 1377	0.1247674	-3.431570e-01	-0.427657607	-0.525836
## 1378	0.1247674	-4.102945e-01	1.636414775	1.901100
## 1379	0.1247674	-6.714741e-02	-0.540757464	1.901100
## 1383	0.1247674	-4.177542e-01	-0.431898852	-0.525836
## 1384	0.1247674	-2.909390e-01	-0.682132285	-0.525836
## 1385	0.1247674	-2.312612e-01	-0.571859925	-0.525836
## 1386	0.1247674	-2.088821e-01	-0.413520125	1.901100
## 1387	0.1247674	-2.984882e-02	-0.533688723	-0.525836
## 1388	0.1247674	-4.401333e-01	-0.569032428	1.901100
## 1389	0.1247674	-3.282376e-01	-0.017670627	-0.525836
## 1390	0.1247674	7.235828e-01	-0.851782070	-0.525836
## 1391	0.1247674	-4.625125e-01	0.024741819	-0.525836
## 1393	0.1247674	6.639050e-01	-0.569032428	-0.525836
## 1395	0.1247674	-2.760195e-01	-0.625582356	1.901100
## 1397	0.1247674	-3.356973e-01	-0.710407249	-0.525836
## 1399	0.1247674	2.692948e+00	2.997854299	-0.525836
## 1400	0.1247674	-1.342849e-01	0.127945438	-0.525836
## 1403	0.1247674	-1.492043e-01	-0.484207536	1.901100
## 1404	0.1247674	-4.102945e-01	-0.851782070	-0.525836
## 1405	0.1247674	-2.984882e-02	-0.569032428	-0.525836
## 1406	0.1247674	1.029431e+00	0.687789728	-0.525836
## 1408	0.1247674	-4.550528e-01	-0.569032428	1.901100
## 1409	0.1247674	-4.923514e-01	-0.625582356	1.901100

## 1410	0.1247674	-1.342849e-01	0.267906511	-0.525836
## 1412	0.1247674	-4.998111e-01	-0.590238651	-0.525836
## 1413	0.1247674	-3.282376e-01	0.053016783	-0.525836
## 1414	0.1247674	-2.387209e-01	-0.359797694	-0.525836
## 1415	0.1247674	-3.804556e-01	-0.498345018	-0.525836
## 1417	0.1247674	-4.102945e-01	-0.484207536	-0.525836
## 1418	0.1247674	-4.774319e-01	-0.349901456	-0.525836
## 1420	0.1247674	-3.133181e-01	-0.455932572	-0.525836
## 1421	0.1247674	-2.312612e-01	-0.031808109	-0.525836
## 1422	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 1423	0.1247674	-4.028348e-01	0.095429229	-0.525836
## 1424	0.1247674	2.230446e+00	1.803943938	-0.525836
## 1425	0.1247674	-3.879153e-01	-0.431898852	-0.525836
## 1426	0.1247674	-1.119057e-01	-0.095426779	1.901100
## 1427	0.1247674	-4.401333e-01	0.028276189	-0.525836
## 1429	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 1430	0.1247674	2.342342e+00	-0.569032428	-0.525836
## 1431	0.1247674	-5.147305e-01	-0.569032428	-0.525836
## 1432	0.1247674	-4.028348e-01	-0.569032428	-0.525836
## 1434	0.1247674	-4.326736e-01	-0.597307392	-0.525836
## 1436	0.1247674	-1.566640e-01	-0.371107679	-0.525836
## 1437	0.1247674	3.729760e-01	0.335766424	-0.525836
## 1438	0.1247674	-3.207778e-01	-0.159045448	1.901100
## 1439	0.1247674	-4.177542e-01	-0.378176420	-0.525836
## 1443	0.1247674	-1.119057e-01	-0.639719839	-0.525836
## 1445	0.1247674	2.685399e-01	1.667517236	-0.525836
## 1446	0.1247674	-4.326736e-01	-0.427657607	1.901100
## 1447	0.1247674	-4.401333e-01	-0.300420269	-0.525836
## 1449	0.1247674	-3.058584e-01	-0.569032428	-0.525836
## 1450	0.1247674	3.356774e-01	-0.569032428	-0.525836
## 1452	0.1247674	-4.774319e-01	-0.540757464	1.901100
## 1454	-8.0122397	2.193147e+00	0.519553691	-0.525836
## 1455	0.1247674	-6.714741e-02	0.533691174	-0.525836
## 1456	0.1247674	2.252825e+00	1.803943938	-0.525836

## 1457	0.1247674	7.458724e-02	-0.342832715	-0.525836
## 1458	0.1247674	-2.238015e-01	-0.540757464	1.901100
## 1459	0.1247674	7.458724e-02	-0.639719839	-0.525836
## 1462	0.1247674	3.728865e-02	-0.215595376	-0.525836
## 1463	0.1247674	-4.550528e-01	-0.554894946	1.901100
## 1464	0.1247674	1.118858e-01	-0.328695233	-0.525836
## 1465	0.1247674	-3.729959e-01	-0.012015635	-0.525836
## 1466	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 1468	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 1470	0.1247674	-4.774319e-01	-0.060083074	-0.525836
## 1472	0.1247674	-4.699722e-01	-0.580342414	1.901100
## 1474	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1475	0.1247674	3.058385e-01	-0.540757464	-0.525836
## 1477	0.1247674	3.282177e-01	-0.470070054	-0.525836
## 1478	0.1247674	-1.790432e-01	-0.351315204	-0.525836
## 1479	0.1247674	2.215526e+00	4.797555767	-0.525836
## 1480	0.1247674	-4.848917e-01	-0.540757464	-0.525836
## 1481	0.1247674	-4.401333e-01	-0.526619982	-0.525836
## 1482	0.1247674	1.715636e-01	2.087400453	-0.525836
## 1483	0.1247674	-3.207778e-01	-0.639719839	-0.525836
## 1484	0.1247674	-3.953750e-01	0.166116640	1.901100
## 1485	0.1247674	2.236921e-02	0.967711873	-0.525836
## 1486	0.1247674	2.208067e+00	2.201914058	-0.525836
## 1487	0.1247674	-4.699722e-01	-0.484207536	1.901100
## 1489	0.1247674	-8.206685e-02	-0.003533145	1.901100
## 1494	0.1247674	-4.028348e-01	-0.187320412	1.901100
## 1496	0.1247674	-3.953750e-01	-0.470070054	-0.525836
## 1498	0.1247674	1.790233e-01	-0.512482500	-0.525836
## 1500	0.1247674	4.475732e-01	-0.569032428	-0.525836
## 1501	0.1247674	-4.848917e-01	-0.603669259	1.901100
## 1503	0.1247674	-3.058584e-01	-0.710407249	-0.525836
## 1504	0.1247674	-4.475931e-01	-0.484207536	1.901100
## 1505	0.1247674	3.728865e-02	-0.229732858	-0.525836
## 1507	0.1247674	2.297583e+00	2.201914058	-0.525836

## 1508	0.1247674	-1.193654e-01	-0.491276277	1.901100
## 1509	0.1247674	-5.296500e-01	-0.597307392	1.901100
## 1510	0.1247674	-3.730854e-02	-0.427657607	1.901100
## 1511	0.1247674	-4.252139e-01	-0.569032428	-0.525836
## 1513	0.1247674	-4.848917e-01	-0.590238651	-0.525836
## 1517	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 1518	0.1247674	-4.326736e-01	-0.335763974	-0.525836
## 1519	0.1247674	-2.088821e-01	-0.569032428	-0.525836
## 1520	-8.0122397	-1.715835e-01	-0.427657607	-0.525836
## 1521	0.1247674	-2.238015e-01	0.045948042	-0.525836
## 1522	0.1247674	-3.506167e-01	-0.512482500	-0.525836
## 1523	0.1247674	-3.729959e-01	-0.286282787	-0.525836
## 1525	0.1247674	2.222986e+00	2.201914058	-0.525836
## 1526	0.1247674	7.458724e-02	-0.851782070	-0.525836
## 1527	0.1247674	-4.028348e-01	0.180254122	1.901100
## 1528	0.1247674	-4.848917e-01	-0.554894946	-0.525836
## 1529	0.1247674	2.163219e-01	-0.399382643	-0.525836
## 1531	0.1247674	-2.312612e-01	-0.569032428	-0.525836
## 1532	0.1247674	-4.102945e-01	-0.667994803	-0.525836
## 1535	0.1247674	-2.461807e-01	-0.639719839	-0.525836
## 1536	0.1247674	-2.238015e-01	-0.484207536	-0.525836
## 1537	0.1247674	-4.252139e-01	-0.328695233	-0.525836
## 1538	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 1539	0.1247674	-2.014223e-01	0.045948042	-0.525836
## 1540	0.1247674	-4.102945e-01	-0.272145305	-0.525836
## 1542	0.1247674	-3.879153e-01	0.745753405	-0.525836
## 1543	0.1247674	-1.566640e-01	-0.371107679	-0.525836
## 1544	0.1247674	-3.655362e-01	-0.151976707	-0.525836
## 1548	0.1247674	-4.401333e-01	-0.625582356	1.901100
## 1551	0.1247674	2.394560e+00	0.127945438	-0.525836
## 1553	0.1247674	-4.848917e-01	-0.625582356	1.901100
## 1556	0.1247674	-3.506167e-01	-0.571859925	-0.525836
## 1558	0.1247674	-4.774319e-01	0.434728799	-0.525836
## 1559	-8.0122397	-1.492043e-01	-0.441795090	-0.525836

## 1560	0.1247674	8.727771e-01	-0.194530528	-0.525836
## 1561	0.1247674	-4.923514e-01	-0.597307392	1.901100
## 1562	0.1247674	-1.492938e-02	-0.569032428	-0.525836
## 1563	0.1247674	2.431858e+00	2.812653284	-0.525836
## 1565	0.1247674	-5.222798e-02	-0.356970197	-0.525836
## 1566	0.1247674	8.204696e-02	-0.286282787	-0.525836
## 1568	0.1247674	-2.760195e-01	-0.554894946	-0.525836
## 1569	0.1247674	-2.909390e-01	-0.840047960	-0.525836
## 1570	0.1247674	-4.475931e-01	-0.144907966	-0.525836
## 1571	0.1247674	-3.133181e-01	-0.526619982	-0.525836
## 1572	0.1247674	2.357261e+00	-0.554894946	-0.525836
## 1573	0.1247674	-4.177542e-01	0.561966138	-0.525836
## 1574	0.1247674	-4.550528e-01	-0.470070054	-0.525836
## 1575	0.1247674	-2.685598e-01	-0.413520125	1.901100
## 1577	0.1247674	-4.699722e-01	-0.151976707	-0.525836
## 1578	0.1247674	-8.952657e-02	-0.431898852	-0.525836
## 1579	0.1247674	-4.774319e-01	-0.625582356	1.901100
## 1580	0.1247674	3.356774e-01	-0.526619982	1.901100
## 1581	0.1247674	-1.939626e-01	2.812653284	-0.525836
## 1582	0.1247674	-8.952657e-02	1.707102186	1.901100
## 1584	0.1247674	2.208067e+00	-0.371107679	-0.525836
## 1585	0.1247674	-3.804556e-01	-0.151976707	-0.525836
## 1586	0.1247674	-3.133181e-01	-0.300420269	1.901100
## 1587	0.1247674	1.491844e-01	-0.342832715	-0.525836
## 1588	0.1247674	-4.401333e-01	-0.540757464	1.901100
## 1590	0.1247674	-2.014223e-01	0.731615923	-0.525836
## 1591	0.1247674	-4.699722e-01	-0.151976707	-0.525836
## 1592	0.1247674	-5.147305e-01	-0.710407249	-0.525836
## 1593	0.1247674	-4.475931e-01	-0.484207536	-0.525836
## 1595	0.1247674	-2.238015e-01	-0.328695233	-0.525836
## 1596	0.1247674	-1.268252e-01	0.364041389	-0.525836
## 1597	0.1247674	-4.550528e-01	-0.470070054	1.901100
## 1598	0.1247674	-4.625125e-01	-0.328695233	-0.525836
## 1599	0.1247674	-4.625125e-01	-0.180251671	-0.525836

## 1600	0.1247674	2.327422e+00	2.201914058	-0.525836
## 1601	0.1247674	-4.252139e-01	-0.540757464	-0.525836
## 1602	0.1247674	-4.998111e-01	-0.215595376	-0.525836
## 1604	0.1247674	2.193147e+00	2.770240837	-0.525836
## 1605	0.1247674	-1.939626e-01	-0.597307392	1.901100
## 1606	0.1247674	-1.492043e-01	-0.540757464	-0.525836
## 1607	0.1247674	-3.953750e-01	-0.279214046	-0.525836
## 1608	0.1247674	-2.312612e-01	-0.851782070	-0.525836
## 1609	0.1247674	-6.714741e-02	1.247634018	-0.525836
## 1610	0.1247674	2.275204e+00	2.722880273	-0.525836
## 1611	0.1247674	2.461608e-01	-0.356970197	1.901100
## 1612	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 1614	0.1247674	-7.460713e-02	-0.667994803	-0.525836
## 1616	0.1247674	-4.475931e-01	0.547828656	-0.525836
## 1617	0.1247674	-3.804556e-01	-0.498345018	-0.525836
## 1618	0.1247674	-3.506167e-01	0.127945438	-0.525836
## 1619	0.1247674	-4.475931e-01	-0.151976707	-0.525836
## 1621	0.1247674	-3.207778e-01	0.364041389	1.901100
## 1622	0.1247674	-4.550528e-01	-0.300420269	-0.525836
## 1623	0.1247674	2.200607e+00	1.424352544	-0.525836
## 1625	0.1247674	-4.475931e-01	1.947439381	1.901100
## 1627	0.1247674	2.372181e+00	-0.569032428	-0.525836
## 1629	0.1247674	-3.506167e-01	0.407867583	-0.525836
## 1630	0.1247674	-3.804556e-01	-0.611444874	1.901100
## 1631	0.1247674	-4.401333e-01	-0.427657607	1.901100
## 1632	0.1247674	-2.014223e-01	-0.286282787	-0.525836
## 1634	0.1247674	-4.774319e-01	-0.660926062	1.901100
## 1635	0.1247674	-5.072708e-01	-0.554894946	-0.525836
## 1636	0.1247674	2.982893e-02	0.399385094	-0.525836
## 1637	0.1247674	-3.580764e-01	-0.569032428	-0.525836
## 1639	0.1247674	-5.072708e-01	-0.571859925	-0.525836
## 1640	0.1247674	-3.431570e-01	-0.790142648	-0.525836
## 1641	0.1247674	-4.326736e-01	-0.498345018	-0.525836
## 1643	0.1247674	-4.848917e-01	-0.710407249	-0.525836

## 1644	0.1247674	-4.401333e-01	-0.470070054	-0.525836
## 1645	0.1247674	2.834594e-01	0.166116640	-0.525836
## 1646	0.1247674	-4.401333e-01	-0.611444874	1.901100
## 1650	-8.0122397	-4.177542e-01	-0.427657607	-0.525836
## 1651	0.1247674	2.610802e-01	-0.799756136	-0.525836
## 1652	0.1247674	-7.460713e-02	-0.540757464	-0.525836
## 1654	0.1247674	-4.923514e-01	-0.540757464	1.901100
## 1656	0.1247674	5.743884e-01	0.279216496	-0.525836
## 1657	0.1247674	-4.550528e-01	-0.851782070	-0.525836
## 1658	0.1247674	-4.848917e-01	-0.611444874	-0.525836
## 1659	0.1247674	-3.133181e-01	-0.851782070	-0.525836
## 1661	0.1247674	-4.401333e-01	-0.653857321	-0.525836
## 1662	0.1247674	-3.356973e-01	-0.356970197	1.901100
## 1663	0.1247674	-2.685598e-01	-0.851782070	-0.525836
## 1665	0.1247674	8.950668e-02	-0.484207536	-0.525836
## 1668	0.1247674	2.222986e+00	2.722880273	-0.525836
## 1669	0.1247674	-3.655362e-01	-0.201457894	-0.525836
## 1670	0.1247674	-1.417446e-01	0.569034879	-0.525836
## 1671	0.1247674	-4.177542e-01	-0.597307392	-0.525836
## 1673	0.1247674	-4.774319e-01	-0.151976707	-0.525836
## 1674	0.1247674	2.260285e+00	2.201914058	-0.525836
## 1675	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 1677	0.1247674	-4.625125e-01	-0.385245161	1.901100
## 1679	0.1247674	-4.401333e-01	-0.229732858	-0.525836
## 1680	0.1247674	-4.625125e-01	-0.540757464	-0.525836
## 1683	0.1247674	2.163219e-01	1.410215062	-0.525836
## 1685	0.1247674	-4.252139e-01	-0.554894946	-0.525836
## 1687	0.1247674	-4.475931e-01	0.208529086	1.901100
## 1689	0.1247674	-4.102945e-01	-0.441795090	-0.525836
## 1690	0.1247674	-2.536404e-01	-0.710407249	-0.525836
## 1691	0.1247674	-4.102945e-01	-0.533688723	-0.525836
## 1692	0.1247674	-4.028348e-01	-0.378176420	-0.525836
## 1693	0.1247674	2.208067e+00	2.201914058	-0.525836
## 1694	0.1247674	-2.611001e-01	-0.540757464	1.901100

## 1695	0.1247674	-2.461807e-01	-0.569032428	-0.525836
## 1696	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1697	0.1247674	-3.655362e-01	-0.824496729	-0.525836
## 1698	0.1247674	-4.401333e-01	-0.144907966	-0.525836
## 1699	0.1247674	-3.953750e-01	0.010604337	-0.525836
## 1701	0.1247674	-4.550528e-01	-0.569032428	-0.525836
## 1704	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 1705	0.1247674	-3.506167e-01	0.030820936	-0.525836
## 1706	0.1247674	-7.460713e-02	-0.710407249	-0.525836
## 1707	0.1247674	-4.476826e-02	0.267906511	-0.525836
## 1708	0.1247674	-4.923514e-01	-0.597307392	1.901100
## 1710	0.1247674	-4.699722e-01	-0.696269767	-0.525836
## 1711	0.1247674	-4.699722e-01	-0.554894946	-0.525836
## 1713	0.1247674	-4.550528e-01	-0.431898852	-0.525836
## 1716	0.1247674	-3.207778e-01	0.180254122	-0.525836
## 1717	0.1247674	-4.177542e-01	0.200046597	-0.525836
## 1718	0.1247674	-5.072708e-01	-0.470070054	1.901100
## 1719	0.1247674	-4.550528e-01	-0.639719839	1.901100
## 1720	0.1247674	-3.729959e-01	-0.569032428	-0.525836
## 1722	0.1247674	-3.506167e-01	0.166116640	1.901100
## 1723	0.1247674	-7.460713e-02	-0.498345018	-0.525836
## 1724	0.1247674	-2.536404e-01	-0.364038938	1.901100
## 1725	0.1247674	-1.492043e-01	-0.710407249	-0.525836
## 1726	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 1727	0.1247674	-9.698629e-02	-0.378176420	1.901100
## 1728	0.1247674	-3.506167e-01	-0.012015635	-0.525836
## 1729	0.1247674	-3.431570e-01	-0.851782070	-0.525836
## 1730	0.1247674	2.200607e+00	2.201914058	-0.525836
## 1732	0.1247674	5.966780e-02	-0.611444874	-0.525836
## 1733	0.1247674	-4.177542e-01	0.109566711	-0.525836
## 1735	0.1247674	-1.715835e-01	-0.569032428	-0.525836
## 1737	0.1247674	-4.177542e-01	-0.696269767	-0.525836
## 1738	-8.0122397	-3.953750e-01	0.109566711	-0.525836
## 1739	0.1247674	-4.848917e-01	-0.569032428	-0.525836

## 1740	0.1247674	-4.550528e-01	0.265079014	-0.525836
## 1741	0.1247674	3.953551e-01	-0.653857321	-0.525836
## 1743	-8.0122397	3.207580e-01	-0.031808109	-0.525836
## 1745	0.1247674	2.424399e+00	2.201914058	-0.525836
## 1746	0.1247674	1.490949e-02	-0.710407249	-0.525836
## 1748	0.1247674	-4.848917e-01	1.721239668	-0.525836
## 1749	0.1247674	-3.804556e-01	0.166116640	1.901100
## 1750	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 1751	0.1247674	-3.133181e-01	-0.053014333	1.901100
## 1752	0.1247674	2.334882e+00	3.272828325	-0.525836
## 1753	0.1247674	-4.028348e-01	-0.105323016	-0.525836
## 1754	0.1247674	-3.953750e-01	-0.431898852	-0.525836
## 1755	0.1247674	-2.387209e-01	0.267906511	-0.525836
## 1756	0.1247674	-4.475931e-01	-0.342832715	-0.525836
## 1758	0.1247674	-4.177542e-01	-0.540757464	1.901100
## 1759	0.1247674	-4.252139e-01	-0.851782070	-0.525836
## 1760	0.1247674	-4.177542e-01	-0.540757464	1.901100
## 1761	0.1247674	1.208464e+00	-0.102495520	-0.525836
## 1762	0.1247674	-4.252139e-01	0.226907813	-0.525836
## 1763	0.1247674	-8.952657e-02	-0.291937780	-0.525836
## 1764	0.1247674	2.387011e-01	-0.2797779545	-0.525836
## 1765	0.1247674	-4.550528e-01	-0.003533145	-0.525836
## 1767	0.1247674	-8.952657e-02	2.087400453	-0.525836
## 1770	0.1247674	-2.163418e-01	-0.180251671	-0.525836
## 1771	0.1247674	-4.699722e-01	-0.639719839	1.901100
## 1772	0.1247674	2.208067e+00	2.722880273	-0.525836
## 1774	0.1247674	-2.760195e-01	0.738684664	-0.525836
## 1775	0.1247674	-9.698629e-02	-0.569032428	-0.525836
## 1777	0.1247674	-2.387209e-01	0.166116640	-0.525836
## 1778	0.1247674	-4.252139e-01	-0.569032428	-0.525836
## 1779	0.1247674	-2.760195e-01	-0.569032428	-0.525836
## 1780	0.1247674	-1.492938e-02	1.247634018	-0.525836
## 1781	0.1247674	-3.655362e-01	-0.851782070	-0.525836
## 1783	0.1247674	-3.431570e-01	-0.710407249	-0.525836

## 1784	0.1247674	-1.865029e-01	-0.540757464	-0.525836
## 1785	0.1247674	2.610802e-01	-0.243870341	-0.525836
## 1786	0.1247674	-4.699722e-01	-0.540757464	1.901100
## 1787	0.1247674	-3.655362e-01	0.130772934	-0.525836
## 1788	0.1247674	2.200607e+00	1.803943938	-0.525836
## 1789	0.1247674	-3.879153e-01	-0.710407249	-0.525836
## 1791	0.1247674	8.876966e-01	0.477141245	-0.525836
## 1793	0.1247674	-1.492938e-02	0.491278727	1.901100
## 1796	0.1247674	-3.580764e-01	-0.431898852	-0.525836
## 1797	0.1247674	-3.879153e-01	-0.653857321	-0.525836
## 1799	0.1247674	-4.401333e-01	-0.839341085	-0.525836
## 1800	0.1247674	-2.834793e-01	1.667517236	-0.525836
## 1801	0.1247674	-2.611001e-01	-0.625582356	1.901100
## 1802	0.1247674	-5.968770e-02	1.675292851	-0.525836
## 1803	-8.0122397	-4.326736e-01	-0.441795090	-0.525836
## 1804	0.1247674	-2.685598e-01	-0.554894946	-0.525836
## 1805	0.1247674	-2.238910e-02	-0.003533145	-0.525836
## 1806	0.1247674	2.446778e+00	1.879579467	-0.525836
## 1807	0.1247674	2.461608e-01	-0.569032428	-0.525836
## 1809	0.1247674	-3.207778e-01	-0.710407249	-0.525836
## 1810	0.1247674	-4.923514e-01	-0.653857321	-0.525836
## 1813	0.1247674	-9.946292e-06	-0.540757464	1.901100
## 1814	0.1247674	-4.102945e-01	-0.710407249	-0.525836
## 1815	0.1247674	-2.536404e-01	-0.286282787	1.901100
## 1818	0.1247674	-3.356973e-01	-0.300420269	-0.525836
## 1819	0.1247674	-1.790432e-01	0.491278727	-0.525836
## 1820	0.1247674	-4.550528e-01	-0.130770484	-0.525836
## 1821	0.1247674	-6.714741e-02	0.407867583	-0.525836
## 1823	0.1247674	-5.072708e-01	-0.470070054	-0.525836
## 1824	0.1247674	-3.207778e-01	-0.314557751	-0.525836
## 1825	0.1247674	4.028149e-01	-0.045945591	-0.525836
## 1826	0.1247674	-1.566640e-01	0.590241102	-0.525836
## 1828	0.1247674	2.200607e+00	2.201914058	-0.525836
## 1829	0.1247674	-2.312612e-01	0.127945438	-0.525836

## 1830	0.1247674	-3.058584e-01	-0.470070054	-0.525836
## 1832	0.1247674	-2.387209e-01	-0.272145305	-0.525836
## 1834	0.1247674	-4.401333e-01	-0.291937780	-0.525836
## 1835	0.1247674	2.200607e+00	2.770240837	-0.525836
## 1838	0.1247674	-2.536404e-01	-0.569032428	-0.525836
## 1839	0.1247674	-3.655362e-01	-0.539343716	1.901100
## 1840	0.1247674	-4.625125e-01	-0.696269767	-0.525836
## 1841	0.1247674	-3.953750e-01	-0.003533145	1.901100
## 1842	0.1247674	-3.506167e-01	0.967711873	-0.525836
## 1843	0.1247674	-1.939626e-01	0.024741819	-0.525836
## 1844	0.1247674	8.130994e-01	0.687789728	-0.525836
## 1846	0.1247674	-3.431570e-01	-0.498345018	-0.525836
## 1847	0.1247674	-1.492043e-01	0.137841675	-0.525836
## 1848	0.1247674	2.236921e-02	-0.625582356	-0.525836
## 1850	0.1247674	2.290124e+00	2.201914058	-0.525836
## 1852	0.1247674	-4.625125e-01	0.067154265	-0.525836
## 1853	0.1247674	-4.625125e-01	-0.519551241	1.901100
## 1856	0.1247674	7.981799e-01	0.731615923	-0.525836
## 1858	0.1247674	-4.177542e-01	-0.378176420	1.901100
## 1859	0.1247674	2.387100e+00	0.618516066	-0.525836
## 1861	0.1247674	-4.401333e-01	-0.012015635	-0.525836
## 1862	0.1247674	2.834594e-01	0.053016783	-0.525836
## 1863	0.1247674	-8.952657e-02	0.127945438	-0.525836
## 1864	0.1247674	-4.774319e-01	-0.639719839	-0.525836
## 1865	0.1247674	2.290124e+00	-0.841320333	-0.525836
## 1867	0.1247674	-4.401333e-01	-0.187320412	-0.525836
## 1868	0.1247674	-3.804556e-01	-0.003533145	1.901100
## 1869	0.1247674	-4.177542e-01	-0.470070054	-0.525836
## 1870	0.1247674	-2.760195e-01	-0.569032428	-0.525836
## 1872	0.1247674	-3.431570e-01	-0.597307392	-0.525836
## 1873	0.1247674	2.193147e+00	2.201914058	-0.525836
## 1875	0.1247674	4.474837e-02	-0.752819695	-0.525836
## 1876	0.1247674	-5.147305e-01	-0.710407249	-0.525836
## 1877	0.1247674	-1.566640e-01	1.311252688	-0.525836

## 1878	0.1247674	3.878954e-01	0.267906511	-0.525836
## 1879	0.1247674	-4.326736e-01	-0.696269767	-0.525836
## 1880	0.1247674	-4.028348e-01	-0.385245161	1.901100
## 1881	0.1247674	-2.611001e-01	-0.851782070	-0.525836
## 1885	0.1247674	2.236921e-02	0.967711873	-0.525836
## 1887	0.1247674	-3.282376e-01	-0.710407249	-0.525836
## 1890	0.1247674	-2.685598e-01	-0.385245161	-0.525836
## 1891	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 1892	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 1894	0.1247674	-3.058584e-01	1.608139811	-0.525836
## 1895	0.1247674	-3.804556e-01	-0.569032428	-0.525836
## 1896	0.1247674	3.207580e-01	-0.583169910	-0.525836
## 1897	0.1247674	2.230446e+00	2.770240837	-0.525836
## 1899	0.1247674	2.469157e+00	2.722880273	-0.525836
## 1900	0.1247674	2.909191e-01	-0.569032428	-0.525836
## 1901	0.1247674	2.275204e+00	3.118022896	-0.525836
## 1902	0.1247674	-2.983987e-01	-0.431898852	-0.525836
## 1903	0.1247674	-3.506167e-01	-0.851782070	-0.525836
## 1905	0.1247674	-4.848917e-01	0.081291747	-0.525836
## 1906	0.1247674	-1.715835e-01	-0.328695233	-0.525836
## 1907	0.1247674	-3.953750e-01	0.279216496	-0.525836
## 1908	0.1247674	-4.401333e-01	-0.434726348	1.901100
## 1909	0.1247674	-3.655362e-01	0.321628942	-0.525836
## 1910	0.1247674	-4.326736e-01	-0.710407249	-0.525836
## 1911	0.1247674	-3.282376e-01	-0.811066121	-0.525836
## 1913	0.1247674	-4.699722e-01	-0.569032428	-0.525836
## 1915	0.1247674	-4.848917e-01	-0.667994803	-0.525836
## 1916	0.1247674	-2.834793e-01	-0.095426779	1.901100
## 1917	0.1247674	-4.326736e-01	0.477141245	1.901100
## 1918	0.1247674	-3.580764e-01	-0.095426779	1.901100
## 1919	0.1247674	-4.774319e-01	-0.540757464	1.901100
## 1920	0.1247674	-3.133181e-01	-0.512482500	-0.525836
## 1921	0.1247674	2.237816e-01	-0.173182930	-0.525836
## 1923	0.1247674	-4.252139e-01	-0.431898852	-0.525836

## 1924	0.1247674	-2.834793e-01	-0.095426779	1.901100
## 1925	0.1247674	-4.550528e-01	-0.300420269	-0.525836
## 1927	0.1247674	-5.222798e-02	-0.484207536	1.901100
## 1929	0.1247674	-4.625125e-01	-0.569032428	-0.525836
## 1930	0.1247674	-4.923514e-01	-0.597307392	1.901100
## 1932	0.1247674	-4.326736e-01	-0.413520125	1.901100
## 1933	0.1247674	-3.133181e-01	-0.710407249	-0.525836
## 1934	0.1247674	-3.506167e-01	-0.597307392	1.901100
## 1935	0.1247674	-3.207778e-01	-0.151976707	-0.525836
## 1937	0.1247674	1.969356e+00	-0.291937780	-0.525836
## 1938	-8.0122397	-5.968770e-02	-0.427657607	-0.525836
## 1939	0.1247674	-4.326736e-01	-0.427657607	1.901100
## 1940	0.1247674	-3.356973e-01	-0.583169910	-0.525836
## 1943	0.1247674	-4.848917e-01	-0.603669259	1.901100
## 1944	0.1247674	-2.312612e-01	-0.710407249	-0.525836
## 1945	0.1247674	2.312413e-01	-0.484207536	-0.525836
## 1949	0.1247674	-4.326736e-01	-0.187320412	1.901100
## 1951	0.1247674	-5.072708e-01	-0.653857321	-0.525836
## 1952	0.1247674	-9.946292e-06	0.279216496	-0.525836
## 1954	0.1247674	-4.625125e-01	-0.569032428	-0.525836
## 1955	0.1247674	-4.625125e-01	-0.436140097	-0.525836
## 1956	0.1247674	-9.946292e-06	2.378632584	-0.525836
## 1957	0.1247674	7.235828e-01	-0.639719839	-0.525836
## 1958	0.1247674	-3.133181e-01	0.208529086	1.901100
## 1959	0.1247674	-3.953750e-01	-0.385245161	-0.525836
## 1960	0.1247674	-4.699722e-01	-0.554894946	1.901100
## 1962	0.1247674	-4.028348e-01	1.664689739	-0.525836
## 1963	0.1247674	-4.550528e-01	-0.569032428	1.901100
## 1965	0.1247674	-4.998111e-01	-0.682132285	-0.525836
## 1966	0.1247674	-3.879153e-01	-0.151976707	-0.525836
## 1968	0.1247674	2.236921e-02	-0.215595376	-0.525836
## 1970	0.1247674	-1.342849e-01	1.678827221	-0.525836
## 1971	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 1972	0.1247674	-4.923514e-01	-0.711820997	-0.525836

## 1973	0.1247674	-3.879153e-01	0.802303333	1.901100
## 1975	0.1247674	-4.625125e-01	-0.571859925	-0.525836
## 1978	0.1247674	-2.834793e-01	-0.349901456	1.901100
## 1979	0.1247674	2.200607e+00	2.722880273	-0.525836
## 1982	0.1247674	-1.492043e-01	1.919164417	-0.525836
## 1984	0.1247674	2.200607e+00	4.652646575	-0.525836
## 1986	0.1247674	-4.028348e-01	-0.291937780	-0.525836
## 1987	0.1247674	-4.475931e-01	-0.180251671	-0.525836
## 1988	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 1989	0.1247674	-1.790432e-01	-0.667994803	-0.525836
## 1990	0.1247674	-4.923514e-01	-0.611444874	-0.525836
## 1991	0.1247674	-3.879153e-01	-0.431898852	-0.525836
## 1994	0.1247674	-3.058584e-01	-0.569032428	-0.525836
## 1995	0.1247674	-2.760195e-01	-0.512482500	-0.525836
## 1997	0.1247674	-1.119057e-01	0.127945438	-0.525836
## 1998	0.1247674	-4.028348e-01	0.943678154	-0.525836
## 2002	0.1247674	-4.028348e-01	-0.168941686	1.901100
## 2004	0.1247674	-4.625125e-01	1.961576863	-0.525836
## 2005	0.1247674	-4.998111e-01	-0.660926062	1.901100
## 2006	0.1247674	-1.492938e-02	-0.851782070	-0.525836
## 2007	0.1247674	-5.072708e-01	-0.696269767	-0.525836
## 2008	0.1247674	-3.207778e-01	-0.180251671	-0.525836
## 2009	0.1247674	-3.506167e-01	0.127945438	-0.525836
## 2010	0.1247674	-4.252139e-01	-0.359797694	-0.525836
## 2011	0.1247674	-3.282376e-01	0.364041389	-0.525836
## 2013	0.1247674	1.462095e+00	-0.328695233	1.901100
## 2017	0.1247674	-2.387209e-01	1.325390170	-0.525836
## 2018	0.1247674	-4.401333e-01	-0.291937780	-0.525836
## 2019	0.1247674	-3.431570e-01	-0.583169910	-0.525836
## 2020	0.1247674	-3.879153e-01	0.471486252	-0.525836
## 2021	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 2022	0.1247674	-3.953750e-01	-0.540757464	1.901100
## 2023	0.1247674	-4.475931e-01	-0.427657607	-0.525836
## 2025	0.1247674	2.208067e+00	2.812653284	-0.525836

## 2026	0.1247674	-3.953750e-01	-0.003533145	1.901100
## 2027	0.1247674	-4.848917e-01	-0.385245161	1.901100
## 2028	0.1247674	1.514313e+00	0.166116640	-0.525836
## 2029	0.1247674	-4.401333e-01	-0.554894946	-0.525836
## 2030	0.1247674	-4.177542e-01	-0.291937780	-0.525836
## 2031	0.1247674	-3.953750e-01	-0.540757464	1.901100
## 2032	0.1247674	1.193456e-01	1.820202042	-0.525836
## 2033	0.1247674	2.230446e+00	2.040746762	-0.525836
## 2034	0.1247674	6.191467e-01	0.267906511	-0.525836
## 2035	0.1247674	-3.730854e-02	-0.484207536	-0.525836
## 2036	0.1247674	-4.475931e-01	-0.102495520	1.901100
## 2037	0.1247674	-1.715835e-01	0.208529086	-0.525836
## 2038	0.1247674	1.491844e-01	1.692964703	-0.525836
## 2039	0.1247674	-2.834793e-01	0.109566711	-0.525836
## 2041	0.1247674	-3.953750e-01	0.067154265	-0.525836
## 2042	0.1247674	-4.998111e-01	-0.580342414	1.901100
## 2043	0.1247674	2.297583e+00	2.201914058	-0.525836
## 2044	0.1247674	-4.848917e-01	-0.533688723	-0.525836
## 2046	0.1247674	1.118858e-01	-0.342832715	-0.525836
## 2047	0.1247674	2.237906e+00	2.201914058	-0.525836
## 2048	0.1247674	-4.699722e-01	-0.173182930	-0.525836
## 2049	0.1247674	-5.147305e-01	-0.413520125	1.901100
## 2051	0.1247674	1.044261e-01	2.927166888	-0.525836
## 2053	0.1247674	-4.401333e-01	0.267906511	-0.525836
## 2054	0.1247674	-3.655362e-01	-0.314557751	-0.525836
## 2055	0.1247674	2.237906e+00	3.855999461	-0.525836
## 2056	0.1247674	-1.641238e-01	-0.554894946	-0.525836
## 2058	0.1247674	-2.014223e-01	-0.229732858	1.901100
## 2061	0.1247674	-2.387209e-01	-0.710407249	-0.525836
## 2064	0.1247674	2.558674e+00	2.722880273	-0.525836
## 2065	0.1247674	-1.641238e-01	-0.356970197	1.901100
## 2066	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 2067	0.1247674	-2.088821e-01	-0.017670627	-0.525836
## 2068	0.1247674	9.772132e-01	-0.328695233	-0.525836

## 2069	0.1247674	-2.238015e-01	-0.569032428	-0.525836
## 2070	0.1247674	-2.685598e-01	-0.554894946	-0.525836
## 2071	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 2072	0.1247674	-4.177542e-01	-0.081289297	-0.525836
## 2073	0.1247674	-4.923514e-01	-0.431898852	-0.525836
## 2074	0.1247674	6.712752e-02	1.664689739	1.901100
## 2076	0.1247674	-4.550528e-01	0.127945438	-0.525836
## 2077	0.1247674	-4.252139e-01	-0.660926062	1.901100
## 2078	0.1247674	-2.536404e-01	-0.441795090	1.901100
## 2081	0.1247674	-2.685598e-01	-0.130770484	-0.525836
## 2082	0.1247674	2.200607e+00	2.722880273	-0.525836
## 2083	0.1247674	-4.401333e-01	0.265079014	-0.525836
## 2084	0.1247674	8.950668e-02	0.279216496	-0.525836
## 2085	0.1247674	-3.655362e-01	-0.353435827	1.901100
## 2090	0.1247674	-3.804556e-01	-0.498345018	-0.525836
## 2091	0.1247674	-5.222798e-02	0.420591317	-0.525836
## 2092	0.1247674	2.305043e+00	2.770240837	-0.525836
## 2093	0.1247674	-8.206685e-02	1.092121715	-0.525836
## 2094	0.1247674	-4.028348e-01	0.197925974	-0.525836
## 2095	0.1247674	-3.506167e-01	-0.033928732	1.901100
## 2096	0.1247674	-4.177542e-01	-0.484207536	1.901100
## 2097	0.1247674	-3.282376e-01	-0.291937780	-0.525836
## 2098	0.1247674	-3.431570e-01	-0.569032428	-0.525836
## 2100	0.1247674	-1.492938e-02	0.943678154	-0.525836
## 2101	0.1247674	5.220808e-02	-0.144907966	-0.525836
## 2104	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 2105	0.1247674	2.193147e+00	2.722880273	-0.525836
## 2107	0.1247674	-8.206685e-02	0.279216496	-0.525836
## 2110	0.1247674	-3.431570e-01	-0.554894946	-0.525836
## 2112	0.1247674	-3.356973e-01	0.286285237	1.901100
## 2113	0.1247674	-4.998111e-01	-0.710407249	-0.525836
## 2114	0.1247674	-1.865029e-01	-0.832696469	-0.525836
## 2116	0.1247674	-4.923514e-01	-0.526619982	-0.525836
## 2117	0.1247674	2.200607e+00	4.652646575	-0.525836

## 2118	0.1247674	3.207580e-01	1.466764990	1.901100
## 2119	0.1247674	-7.469665e-03	-0.540757464	1.901100
## 2121	0.1247674	2.193147e+00	2.201914058	-0.525836
## 2122	0.1247674	-5.147305e-01	-0.682132285	-0.525836
## 2123	0.1247674	2.364721e+00	-0.116633002	-0.525836
## 2124	0.1247674	-4.774319e-01	-0.484207536	1.901100
## 2127	0.1247674	-2.983987e-01	0.547828656	-0.525836
## 2128	0.1247674	-3.879153e-01	-0.625582356	-0.525836
## 2129	0.1247674	-4.401333e-01	-0.710407249	-0.525836
## 2130	0.1247674	-4.625125e-01	-0.569032428	-0.525836
## 2132	0.1247674	-4.475931e-01	-0.309609632	1.901100
## 2137	0.1247674	-1.641238e-01	-0.710407249	-0.525836
## 2139	0.1247674	-2.536404e-01	0.279216496	-0.525836
## 2140	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 2141	0.1247674	-3.953750e-01	-0.710407249	-0.525836
## 2142	0.1247674	7.449772e-03	-0.229732858	1.901100
## 2145	0.1247674	-2.760195e-01	-0.569032428	-0.525836
## 2146	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 2147	0.1247674	-3.804556e-01	-0.519551241	1.901100
## 2149	0.1247674	-3.431570e-01	0.293353978	-0.525836
## 2151	0.1247674	4.474837e-02	-0.272145305	-0.525836
## 2154	0.1247674	-4.848917e-01	-0.660926062	1.901100
## 2155	0.1247674	2.215526e+00	2.534144887	-0.525836
## 2156	0.1247674	-4.252139e-01	-0.159045448	-0.525836
## 2157	0.1247674	-2.312612e-01	-0.533688723	-0.525836
## 2158	0.1247674	-3.207778e-01	-0.088358038	1.901100
## 2159	0.1247674	-3.953750e-01	-0.590238651	-0.525836
## 2161	0.1247674	-3.133181e-01	-0.639719839	-0.525836
## 2163	0.1247674	-1.939626e-01	-0.569032428	-0.525836
## 2164	0.1247674	-4.998111e-01	-0.455932572	1.901100
## 2166	0.1247674	-2.909390e-01	-0.597307392	1.901100
## 2167	0.1247674	2.208067e+00	1.424352544	-0.525836
## 2168	0.1247674	-4.475931e-01	-0.639719839	1.901100
## 2169	0.1247674	-4.923514e-01	-0.696269767	-0.525836

## 2170	0.1247674	-4.326736e-01	1.876751970	-0.525836
## 2171	0.1247674	-4.774319e-01	-0.300420269	-0.525836
## 2172	0.1247674	-4.252139e-01	-0.088358038	-0.525836
## 2173	0.1247674	-2.312612e-01	-0.484207536	1.901100
## 2174	0.1247674	-4.848917e-01	-0.431898852	-0.525836
## 2176	0.1247674	-2.909390e-01	-0.554894946	-0.525836
## 2177	0.1247674	-4.028348e-01	-0.095426779	1.901100
## 2179	0.1247674	-2.088821e-01	-0.511775626	-0.525836
## 2180	0.1247674	2.208067e+00	1.594002329	-0.525836
## 2182	0.1247674	-2.984882e-02	-0.371107679	-0.525836
## 2183	0.1247674	3.728865e-02	-0.498345018	-0.525836
## 2184	0.1247674	-4.102945e-01	-0.711820997	-0.525836
## 2185	0.1247674	-1.790432e-01	1.099190456	1.901100
## 2186	0.1247674	-2.088821e-01	0.137841675	-0.525836
## 2189	0.1247674	4.028149e-01	-0.512482500	-0.525836
## 2190	0.1247674	-4.550528e-01	-0.291937780	-0.525836
## 2191	0.1247674	-4.625125e-01	-0.371107679	-0.525836
## 2192	0.1247674	7.449772e-03	-0.431898852	-0.525836
## 2194	0.1247674	2.327422e+00	3.118022896	-0.525836
## 2195	0.1247674	-4.774319e-01	-0.243870341	-0.525836
## 2196	0.1247674	-9.698629e-02	0.547828656	-0.525836
## 2197	0.1247674	-3.580764e-01	-0.569032428	-0.525836
## 2198	0.1247674	-4.401333e-01	-0.512482500	-0.525836
## 2199	0.1247674	6.340661e-01	-0.667994803	-0.525836
## 2200	0.1247674	-5.147305e-01	-0.710407249	-0.525836
## 2201	0.1247674	-4.177542e-01	2.102951684	-0.525836
## 2203	0.1247674	-3.580764e-01	-0.498345018	-0.525836
## 2207	0.1247674	-4.550528e-01	-0.434726348	-0.525836
## 2209	0.1247674	-9.946292e-06	-0.569032428	-0.525836
## 2210	0.1247674	2.237906e+00	2.040746762	-0.525836
## 2213	0.1247674	-4.401333e-01	-0.597307392	1.901100
## 2214	0.1247674	-4.848917e-01	-0.151976707	-0.525836
## 2215	0.1247674	-1.492043e-01	-0.060083074	1.901100
## 2216	0.1247674	-4.848917e-01	-0.328695233	-0.525836

## 2218	0.1247674	-2.760195e-01	0.166116640	-0.525836
## 2219	0.1247674	-4.699722e-01	-0.569032428	-0.525836
## 2220	0.1247674	-4.401333e-01	-0.597307392	1.901100
## 2221	0.1247674	-2.238015e-01	-0.710407249	-0.525836
## 2222	0.1247674	-4.699722e-01	-0.711820997	-0.525836
## 2223	0.1247674	-4.550528e-01	0.053016783	-0.525836
## 2224	0.1247674	-3.953750e-01	-0.498345018	-0.525836
## 2225	0.1247674	1.939427e-01	0.282750867	1.901100
## 2226	0.1247674	-2.685598e-01	-0.540757464	-0.525836
## 2227	0.1247674	1.148787e+00	0.279216496	-0.525836
## 2229	0.1247674	-3.729959e-01	-0.519551241	1.901100
## 2230	0.1247674	-5.222798e-02	-0.667994803	-0.525836
## 2231	0.1247674	-4.550528e-01	-0.569032428	-0.525836
## 2234	0.1247674	-4.774319e-01	-0.533688723	-0.525836
## 2235	0.1247674	-3.655362e-01	-0.569032428	-0.525836
## 2236	0.1247674	-4.699722e-01	-0.498345018	-0.525836
## 2237	0.1247674	-4.326736e-01	-0.639719839	1.901100
## 2238	0.1247674	-4.326736e-01	-0.385245161	-0.525836
## 2241	0.1247674	1.715636e-01	-0.569032428	-0.525836
## 2242	0.1247674	-4.252139e-01	-0.851782070	-0.525836
## 2245	0.1247674	-2.611001e-01	0.731615923	-0.525836
## 2246	0.1247674	-2.909390e-01	-0.710407249	-0.525836
## 2248	0.1247674	-3.879153e-01	-0.611444874	1.901100
## 2249	0.1247674	-5.968770e-02	-0.130770484	1.901100
## 2250	0.1247674	-3.879153e-01	-0.431898852	-0.525836
## 2251	0.1247674	-1.417446e-01	-0.540757464	1.901100
## 2252	0.1247674	1.551612e+00	-0.314557751	-0.525836
## 2253	0.1247674	-2.983987e-01	-0.441795090	-0.525836
## 2254	0.1247674	-3.356973e-01	-0.696269767	-0.525836
## 2258	0.1247674	-3.058584e-01	-0.286282787	1.901100
## 2259	0.1247674	-2.834793e-01	-0.660926062	1.901100
## 2260	0.1247674	-4.401333e-01	0.123704193	-0.525836
## 2263	0.1247674	2.230446e+00	2.201914058	-0.525836
## 2266	0.1247674	-2.983987e-01	-0.378176420	1.901100

## 2269	0.1247674	-4.699722e-01	-0.151976707	-0.525836
## 2270	0.1247674	8.950668e-02	-0.045945591	-0.525836
## 2271	0.1247674	-3.730854e-02	1.862614488	-0.525836
## 2272	0.1247674	-5.072708e-01	-0.413520125	1.901100
## 2273	0.1247674	1.864830e-01	-0.526619982	-0.525836
## 2275	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 2276	0.1247674	2.215526e+00	2.397011311	-0.525836
## 2277	0.1247674	-4.475931e-01	-0.569032428	-0.525836
## 2278	0.1247674	-1.044460e-01	0.731615923	-0.525836
## 2280	0.1247674	-4.401333e-01	-0.470070054	1.901100
## 2281	0.1247674	-4.848917e-01	-0.710407249	-0.525836
## 2284	0.1247674	-4.326736e-01	-0.399382643	-0.525836
## 2285	0.1247674	2.312503e+00	2.722880273	-0.525836
## 2286	0.1247674	2.618351e+00	2.770240837	-0.525836
## 2287	0.1247674	2.909191e-01	-0.667994803	-0.525836
## 2288	0.1247674	-4.998111e-01	-0.711820997	-0.525836
## 2289	0.1247674	-8.952657e-02	1.297115205	-0.525836
## 2290	0.1247674	-1.342849e-01	-0.569032428	-0.525836
## 2293	0.1247674	3.953551e-01	-0.625582356	-0.525836
## 2294	0.1247674	-1.492043e-01	0.127945438	-0.525836
## 2295	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 2298	0.1247674	2.759996e-01	-0.542595337	-0.525836
## 2301	0.1247674	2.014025e-01	-0.710407249	-0.525836
## 2303	0.1247674	-7.469665e-03	-0.569032428	-0.525836
## 2304	0.1247674	-7.460713e-02	1.452627508	-0.525836
## 2306	0.1247674	2.222986e+00	2.722880273	-0.525836
## 2307	0.1247674	-3.356973e-01	-0.540757464	-0.525836
## 2308	0.1247674	-4.475931e-01	-0.540757464	-0.525836
## 2310	0.1247674	-3.058584e-01	-0.526619982	-0.525836
## 2312	0.1247674	-5.147305e-01	-0.583169910	-0.525836
## 2313	0.1247674	-1.865029e-01	-0.710407249	-0.525836
## 2314	0.1247674	-3.207778e-01	0.109566711	-0.525836
## 2315	0.1247674	-5.968770e-02	-0.413520125	-0.525836
## 2316	0.1247674	-3.133181e-01	0.010604337	-0.525836

## 2318	0.1247674	-2.088821e-01	-0.710407249	-0.525836
## 2320	0.1247674	-5.968770e-02	-0.569032428	-0.525836
## 2321	0.1247674	-3.207778e-01	-0.540757464	-0.525836
## 2322	0.1247674	2.334882e+00	2.201914058	-0.525836
## 2323	0.1247674	2.312413e-01	-0.540757464	1.901100
## 2324	0.1247674	-4.848917e-01	0.279216496	-0.525836
## 2325	0.1247674	-4.177542e-01	-0.434726348	-0.525836
## 2329	0.1247674	-4.923514e-01	-0.571859925	-0.525836
## 2330	0.1247674	-2.536404e-01	-0.710407249	-0.525836
## 2331	0.1247674	-3.655362e-01	-0.540757464	-0.525836
## 2332	0.1247674	-4.028348e-01	-0.498345018	-0.525836
## 2334	0.1247674	-4.475931e-01	-0.533688723	-0.525836
## 2335	0.1247674	-4.550528e-01	-0.335763974	-0.525836
## 2336	0.1247674	-2.536404e-01	0.109566711	-0.525836
## 2337	-8.0122397	-1.044460e-01	-0.441795090	-0.525836
## 2338	0.1247674	-4.998111e-01	-0.569032428	-0.525836
## 2340	0.1247674	-3.879153e-01	-0.540757464	1.901100
## 2341	0.1247674	-4.998111e-01	-0.710407249	-0.525836
## 2343	0.1247674	-1.268252e-01	0.045948042	-0.525836
## 2344	0.1247674	-4.625125e-01	-0.431898852	-0.525836
## 2345	0.1247674	-2.611001e-01	-0.151976707	-0.525836
## 2346	0.1247674	-2.312612e-01	0.342835166	-0.525836
## 2348	0.1247674	6.937439e-01	-0.569032428	-0.525836
## 2352	0.1247674	7.449772e-03	-0.667994803	-0.525836
## 2353	0.1247674	-4.774319e-01	-0.459466942	-0.525836
## 2354	0.1247674	-1.044460e-01	-0.431898852	-0.525836
## 2355	0.1247674	-4.699722e-01	-0.291937780	-0.525836
## 2356	0.1247674	-2.685598e-01	-0.710407249	-0.525836
## 2357	0.1247674	-4.998111e-01	-0.554894946	1.901100
## 2359	0.1247674	-1.641238e-01	-0.484207536	1.901100
## 2360	0.1247674	2.312503e+00	2.722880273	-0.525836
## 2361	0.1247674	-2.983987e-01	0.095429229	-0.525836
## 2362	0.1247674	-4.998111e-01	-0.639719839	-0.525836
## 2363	0.1247674	-3.580764e-01	-0.300420269	1.901100

## 2364	0.1247674	-4.998111e-01	-0.441795090	-0.525836
## 2365	0.1247674	-3.282376e-01	-0.012015635	-0.525836
## 2366	0.1247674	-3.804556e-01	-0.639719839	-0.525836
## 2367	0.1247674	-1.193654e-01	-0.427657607	1.901100
## 2368	0.1247674	-4.177542e-01	-0.385245161	-0.525836
## 2370	0.1247674	-4.252139e-01	-0.851782070	-0.525836
## 2371	0.1247674	-2.088821e-01	-0.569032428	-0.525836
## 2372	0.1247674	-3.356973e-01	-0.477138795	1.901100
## 2374	0.1247674	-4.923514e-01	-0.151976707	-0.525836
## 2376	0.1247674	-3.506167e-01	2.054884245	-0.525836
## 2377	0.1247674	-4.998111e-01	-0.540757464	1.901100
## 2379	0.1247674	-1.193654e-01	-0.711820997	-0.525836
## 2380	0.1247674	-3.655362e-01	-0.151976707	-0.525836
## 2381	0.1247674	-1.492043e-01	0.533691174	-0.525836
## 2382	0.1247674	-1.641238e-01	1.282977723	-0.525836
## 2383	0.1247674	-4.550528e-01	-0.533688723	-0.525836
## 2384	0.1247674	-9.698629e-02	-0.427657607	1.901100
## 2385	0.1247674	-4.177542e-01	-0.470070054	1.901100
## 2387	0.1247674	-4.774319e-01	-0.459466942	-0.525836
## 2388	0.1247674	-4.923514e-01	-0.653857321	-0.525836
## 2389	0.1247674	-4.848917e-01	-0.603669259	1.901100
## 2390	0.1247674	-2.238015e-01	-0.003533145	-0.525836
## 2392	0.1247674	-4.177542e-01	-0.356970197	1.901100
## 2394	0.1247674	-2.238910e-02	-0.710407249	-0.525836
## 2396	0.1247674	1.118858e-01	-0.356970197	-0.525836
## 2397	0.1247674	-5.072708e-01	1.777789596	-0.525836
## 2400	0.1247674	6.415259e-01	-0.484207536	-0.525836
## 2402	0.1247674	-4.475931e-01	-0.236094725	-0.525836
## 2404	0.1247674	-2.312612e-01	-0.710407249	-0.525836
## 2405	0.1247674	2.193147e+00	2.083159209	-0.525836
## 2406	0.1247674	-4.699722e-01	-0.477138795	-0.525836
## 2407	0.1247674	-2.685598e-01	-0.696269767	-0.525836
## 2408	0.1247674	-2.312612e-01	-0.429071356	1.901100
## 2410	0.1247674	-4.401333e-01	-0.583169910	-0.525836

## 2411	0.1247674	-4.177542e-01	-0.554894946	-0.525836
## 2413	0.1247674	3.356774e-01	-0.378176420	1.901100
## 2414	0.1247674	-1.939626e-01	0.123704193	-0.525836
## 2415	0.1247674	-2.387209e-01	-0.356970197	-0.525836
## 2416	0.1247674	-4.326736e-01	0.250941532	-0.525836
## 2417	0.1247674	-2.685598e-01	-0.512482500	-0.525836
## 2418	0.1247674	-3.729959e-01	-0.201457894	-0.525836
## 2419	0.1247674	-4.774319e-01	-0.356970197	-0.525836
## 2420	0.1247674	-3.730854e-02	0.689203476	-0.525836
## 2422	0.1247674	-2.984882e-02	-0.356970197	-0.525836
## 2423	0.1247674	1.782863e+00	-0.682132285	-0.525836
## 2424	0.1247674	-4.326736e-01	-0.710407249	-0.525836
## 2426	0.1247674	-2.611001e-01	-0.498345018	-0.525836
## 2427	0.1247674	-3.133181e-01	-0.300420269	-0.525836
## 2428	0.1247674	-1.790432e-01	-0.356970197	1.901100
## 2430	0.1247674	-3.804556e-01	0.967711873	-0.525836
## 2433	0.1247674	-4.923514e-01	-0.314557751	-0.525836
## 2434	0.1247674	-4.848917e-01	-0.660926062	1.901100
## 2436	0.1247674	-3.953750e-01	-0.625582356	1.901100
## 2437	0.1247674	7.458724e-02	0.604378584	-0.525836
## 2438	0.1247674	2.222986e+00	2.201914058	-0.525836
## 2439	0.1247674	-2.238015e-01	0.173185381	1.901100
## 2441	0.1247674	1.342650e-01	0.010604337	1.901100
## 2443	0.1247674	-8.952657e-02	-0.300420269	1.901100
## 2444	0.1247674	-4.102945e-01	-0.258007823	-0.525836
## 2445	0.1247674	-4.177542e-01	-0.413520125	-0.525836
## 2448	0.1247674	-2.983987e-01	-0.710407249	-0.525836
## 2449	0.1247674	-2.461807e-01	0.407867583	-0.525836
## 2450	0.1247674	-3.655362e-01	-0.682132285	-0.525836
## 2451	0.1247674	5.893078e-01	-0.364038938	1.901100
## 2452	0.1247674	-5.072708e-01	-0.597307392	1.901100
## 2453	0.1247674	-3.655362e-01	-0.565498058	1.901100
## 2454	0.1247674	-3.729959e-01	-0.625582356	1.901100
## 2456	0.1247674	-4.774319e-01	-0.554894946	-0.525836

## 2458	0.1247674	-3.804556e-01	-0.291937780	-0.525836
## 2460	0.1247674	-4.102945e-01	-0.031808109	1.901100
## 2461	0.1247674	-4.774319e-01	-0.392313902	1.901100
## 2462	0.1247674	-3.879153e-01	-0.102495520	-0.525836
## 2463	0.1247674	-4.401333e-01	-0.385245161	1.901100
## 2469	0.1247674	4.550329e-01	-0.291937780	-0.525836
## 2470	0.1247674	-4.326736e-01	0.095429229	-0.525836
## 2471	0.1247674	-4.177542e-01	0.229735309	-0.525836
## 2473	0.1247674	-4.028348e-01	-0.434726348	-0.525836
## 2474	0.1247674	2.200607e+00	2.722880273	-0.525836
## 2477	0.1247674	-4.923514e-01	-0.484207536	-0.525836
## 2479	0.1247674	-3.879153e-01	-0.597307392	-0.525836
## 2481	0.1247674	-5.072708e-01	-0.597307392	1.901100
## 2482	0.1247674	-2.685598e-01	0.392316353	-0.525836
## 2483	0.1247674	-4.028348e-01	-0.431898852	-0.525836
## 2485	0.1247674	5.966780e-02	0.731615923	-0.525836
## 2488	0.1247674	-4.774319e-01	-0.300420269	1.901100
## 2490	0.1247674	-4.774319e-01	-0.533688723	-0.525836
## 2491	0.1247674	-3.580764e-01	-0.682132285	-0.525836
## 2492	0.1247674	-2.312612e-01	-0.031808109	-0.525836
## 2495	0.1247674	-3.953750e-01	-0.378176420	-0.525836
## 2496	0.1247674	-4.923514e-01	-0.540757464	1.901100
## 2497	0.1247674	-3.580764e-01	0.130772934	1.901100
## 2498	0.1247674	8.950668e-02	0.095429229	-0.525836
## 2499	0.1247674	-3.729959e-01	0.045948042	-0.525836
## 2500	0.1247674	-4.774319e-01	-0.378176420	-0.525836
## 2501	0.1247674	-4.475931e-01	-0.569032428	-0.525836
## 2503	0.1247674	-2.611001e-01	-0.639719839	-0.525836
## 2506	0.1247674	-3.953750e-01	-0.477138795	1.901100
## 2508	-8.0122397	3.729760e-01	-0.837644588	-0.525836
## 2509	0.1247674	-3.580764e-01	-0.413520125	1.901100
## 2510	0.1247674	-8.952657e-02	-0.484207536	1.901100
## 2511	0.1247674	-4.102945e-01	0.045948042	-0.525836
## 2513	0.1247674	-3.580764e-01	-0.554894946	-0.525836

## 2514	0.1247674	9.473743e-01	3.905480648	1.901100
## 2515	0.1247674	-2.238910e-02	-0.554894946	1.901100
## 2516	0.1247674	-8.952657e-02	0.024741819	1.901100
## 2517	0.1247674	2.222986e+00	4.647698457	-0.525836
## 2518	0.1247674	-4.550528e-01	-0.590238651	-0.525836
## 2520	0.1247674	-2.088821e-01	0.687789728	-0.525836
## 2521	0.1247674	-2.163418e-01	-0.399382643	-0.525836
## 2522	0.1247674	-2.163418e-01	-0.512482500	-0.525836
## 2523	0.1247674	-1.566640e-01	0.477141245	-0.525836
## 2524	0.1247674	-3.506167e-01	-0.413520125	1.901100
## 2525	0.1247674	-2.685598e-01	-0.427657607	1.901100
## 2526	0.1247674	1.715636e-01	2.732069636	-0.525836
## 2528	0.1247674	-4.699722e-01	-0.385245161	1.901100
## 2529	0.1247674	-4.475931e-01	-0.427657607	-0.525836
## 2531	0.1247674	-4.102945e-01	-0.364038938	1.901100
## 2532	0.1247674	-1.715835e-01	0.038879301	-0.525836
## 2533	0.1247674	-4.177542e-01	-0.470070054	-0.525836
## 2535	0.1247674	-4.401333e-01	0.267906511	-0.525836
## 2537	0.1247674	2.200607e+00	3.403600034	-0.525836
## 2538	0.1247674	-4.102945e-01	-0.356970197	1.901100
## 2539	0.1247674	-3.804556e-01	1.721239668	-0.525836
## 2540	0.1247674	5.370898e-01	-0.300420269	1.901100
## 2542	0.1247674	-2.536404e-01	-0.710407249	-0.525836
## 2545	0.1247674	-3.207778e-01	-0.554894946	-0.525836
## 2546	0.1247674	-5.072708e-01	-0.710407249	-0.525836
## 2547	0.1247674	-3.655362e-01	0.149858535	-0.525836
## 2549	0.1247674	2.193147e+00	3.855999461	-0.525836
## 2552	0.1247674	-4.102945e-01	-0.569032428	-0.525836
## 2553	0.1247674	-4.028348e-01	-0.102495520	1.901100
## 2554	0.1247674	-1.865029e-01	-0.696269767	-0.525836
## 2555	0.1247674	-4.699722e-01	-0.639719839	1.901100
## 2556	0.1247674	-3.804556e-01	-0.144907966	-0.525836
## 2558	0.1247674	-3.655362e-01	-0.710407249	-0.525836
## 2559	0.1247674	2.200607e+00	2.074676719	-0.525836

## 2560	0.1247674	-4.625125e-01	-0.349901456	-0.525836
## 2562	0.1247674	-4.475931e-01	-0.495517521	1.901100
## 2564	0.1247674	-2.163418e-01	0.795234592	-0.525836
## 2567	0.1247674	-4.252139e-01	-0.300420269	-0.525836
## 2569	0.1247674	-3.282376e-01	-0.159045448	-0.525836
## 2570	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 2571	0.1247674	8.876966e-01	-0.215595376	1.901100
## 2572	0.1247674	2.193147e+00	2.722880273	-0.525836
## 2573	0.1247674	-4.848917e-01	-0.639719839	-0.525836
## 2574	0.1247674	-9.946292e-06	-0.201457894	-0.525836
## 2576	0.1247674	2.290124e+00	1.989851827	-0.525836
## 2577	0.1247674	-3.207778e-01	-0.851782070	-0.525836
## 2578	0.1247674	2.260285e+00	2.397011311	-0.525836
## 2579	0.1247674	-2.387209e-01	-0.441795090	-0.525836
## 2580	0.1247674	3.132982e-01	0.166116640	-0.525836
## 2581	0.1247674	1.133867e+00	-0.229732858	1.901100
## 2582	0.1247674	-4.475931e-01	-0.272145305	-0.525836
## 2584	0.1247674	3.058385e-01	-0.102495520	-0.525836
## 2585	0.1247674	-3.655362e-01	-0.012015635	-0.525836
## 2588	0.1247674	-2.834793e-01	0.127945438	-0.525836
## 2589	0.1247674	-4.774319e-01	-0.229732858	-0.525836
## 2591	0.1247674	-2.387209e-01	0.053016783	-0.525836
## 2592	0.1247674	-1.417446e-01	-0.526619982	-0.525836
## 2593	0.1247674	-1.044460e-01	1.198152831	-0.525836
## 2594	0.1247674	1.417247e-01	-0.431898852	-0.525836
## 2596	0.1247674	-1.417446e-01	0.267906511	-0.525836
## 2597	0.1247674	2.372181e+00	3.855999461	-0.525836
## 2598	0.1247674	-4.475931e-01	-0.151976707	-0.525836
## 2601	0.1247674	-3.431570e-01	-0.745044080	-0.525836
## 2602	0.1247674	-4.177542e-01	-0.455932572	-0.525836
## 2603	0.1247674	-4.699722e-01	-0.229732858	-0.525836
## 2604	0.1247674	-4.475931e-01	0.127945438	-0.525836
## 2605	0.1247674	-3.058584e-01	-0.187320412	1.901100
## 2606	0.1247674	-7.460713e-02	0.166116640	-0.525836

## 2607	0.1247674	6.266064e-01	1.763652114	1.901100
## 2608	0.1247674	-3.133181e-01	-0.851782070	-0.525836
## 2610	0.1247674	-4.923514e-01	-0.851782070	-0.525836
## 2611	0.1247674	-5.222798e-02	0.731615923	-0.525836
## 2612	0.1247674	2.193147e+00	2.201914058	-0.525836
## 2613	0.1247674	-4.848917e-01	-0.569032428	-0.525836
## 2614	0.1247674	-2.163418e-01	0.166116640	1.901100
## 2615	0.1247674	-4.252139e-01	1.523314919	1.901100
## 2616	0.1247674	-1.715835e-01	-0.116633002	-0.525836
## 2617	0.1247674	-3.133181e-01	-0.710407249	-0.525836
## 2619	0.1247674	-3.356973e-01	-0.710407249	-0.525836
## 2620	0.1247674	2.215526e+00	2.201914058	-0.525836
## 2621	0.1247674	-4.625125e-01	-0.540757464	1.901100
## 2622	0.1247674	-4.177542e-01	-0.180958545	-0.525836
## 2624	0.1247674	-2.536404e-01	1.509177437	1.901100
## 2628	0.1247674	-1.119057e-01	0.561966138	-0.525836
## 2629	0.1247674	-5.221903e-01	0.901265707	1.901100
## 2630	0.1247674	2.759996e-01	0.392316353	-0.525836
## 2631	0.1247674	-2.760195e-01	-0.526619982	1.901100
## 2634	0.1247674	1.490949e-02	0.463003763	-0.525836
## 2635	0.1247674	-4.625125e-01	-0.710407249	-0.525836
## 2636	0.1247674	-3.058584e-01	0.576103620	-0.525836
## 2637	0.1247674	2.200607e+00	3.855999461	-0.525836
## 2638	0.1247674	-3.804556e-01	-0.569032428	1.901100
## 2639	0.1247674	-4.625125e-01	-0.696269767	-0.525836
## 2643	0.1247674	-2.163418e-01	0.827750801	-0.525836
## 2644	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 2645	0.1247674	-4.848917e-01	-0.533688723	-0.525836
## 2646	0.1247674	-4.848917e-01	-0.201457894	-0.525836
## 2647	0.1247674	-2.461807e-01	1.424352544	-0.525836
## 2648	0.1247674	2.349801e+00	4.652646575	-0.525836
## 2649	0.1247674	2.193147e+00	2.722880273	-0.525836
## 2650	0.1247674	-8.206685e-02	-0.569032428	-0.525836
## 2651	0.1247674	5.966780e-02	0.827750801	-0.525836

## 2652	0.1247674	-4.475931e-01	-0.060083074	-0.525836
## 2653	0.1247674	-4.998111e-01	-0.597307392	1.901100
## 2654	0.1247674	-4.475931e-01	-0.470070054	1.901100
## 2655	0.1247674	-4.625125e-01	2.111434173	-0.525836
## 2656	0.1247674	-3.207778e-01	-0.693583645	-0.525836
## 2657	0.1247674	5.220808e-02	-0.455932572	-0.525836
## 2658	0.1247674	2.236921e-02	1.527556163	-0.525836
## 2659	0.1247674	4.326537e-01	-0.419881992	1.901100
## 2660	0.1247674	1.044261e-01	-0.540757464	-0.525836
## 2661	0.1247674	-3.431570e-01	-0.385245161	-0.525836
## 2662	0.1247674	-4.102945e-01	-0.571859925	-0.525836
## 2663	0.1247674	-4.401333e-01	-0.484207536	1.901100
## 2665	0.1247674	-2.984882e-02	0.745753405	-0.525836
## 2667	0.1247674	-4.998111e-01	-0.413520125	-0.525836
## 2670	0.1247674	-1.865029e-01	0.300422719	-0.525836
## 2671	0.1247674	-4.774319e-01	-0.710407249	-0.525836
## 2672	0.1247674	1.104028e+00	-0.554894946	-0.525836
## 2673	0.1247674	5.966780e-02	-0.699945512	-0.525836
## 2675	0.1247674	-4.625125e-01	-0.540757464	1.901100
## 2679	0.1247674	1.491844e-01	-0.554894946	1.901100
## 2681	0.1247674	-4.699722e-01	-0.291937780	-0.525836
## 2683	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 2685	0.1247674	-3.506167e-01	-0.484207536	-0.525836
## 2687	-8.0122397	-1.641238e-01	-0.427657607	-0.525836
## 2688	0.1247674	2.379640e+00	0.024741819	-0.525836
## 2690	0.1247674	-1.566640e-01	-0.314557751	-0.525836
## 2692	0.1247674	-5.072708e-01	-0.569032428	-0.525836
## 2695	0.1247674	-9.946292e-06	-0.569032428	-0.525836
## 2696	0.1247674	6.712752e-02	0.491278727	-0.525836
## 2698	0.1247674	9.696640e-02	1.099190456	1.901100
## 2700	0.1247674	-1.715835e-01	-0.569032428	-0.525836
## 2703	0.1247674	-4.923514e-01	-0.427657607	-0.525836
## 2708	0.1247674	-4.252139e-01	-0.710407249	-0.525836
## 2709	0.1247674	1.536692e+00	-0.832696469	-0.525836

## 2710	0.1247674	2.222986e+00	1.803943938	-0.525836
## 2713	0.1247674	-4.998111e-01	-0.258007823	-0.525836
## 2714	0.1247674	-4.774319e-01	-0.554894946	1.901100
## 2715	0.1247674	3.728865e-02	0.491278727	-0.525836
## 2716	0.1247674	-4.475931e-01	-0.710407249	-0.525836
## 2717	0.1247674	-3.058584e-01	-0.187320412	-0.525836
## 2719	0.1247674	-4.625125e-01	-0.017670627	-0.525836
## 2721	0.1247674	-3.431570e-01	-0.569032428	-0.525836
## 2722	0.1247674	2.312413e-01	0.067154265	-0.525836
## 2724	0.1247674	-4.401333e-01	-0.470070054	1.901100
## 2725	0.1247674	-3.207778e-01	0.038879301	-0.525836
## 2726	0.1247674	-4.550528e-01	-0.682132285	-0.525836
## 2727	0.1247674	-4.475931e-01	0.279216496	-0.525836
## 2728	0.1247674	-4.326736e-01	-0.696269767	-0.525836
## 2729	0.1247674	-3.282376e-01	-0.667994803	-0.525836
## 2730	0.1247674	9.696640e-02	-0.074220556	-0.525836
## 2731	0.1247674	-5.222798e-02	-0.710407249	-0.525836
## 2732	0.1247674	2.446778e+00	3.118022896	-0.525836
## 2733	0.1247674	-4.401333e-01	-0.470070054	-0.525836
## 2734	0.1247674	-3.133181e-01	-0.710407249	-0.525836
## 2735	0.1247674	-3.729959e-01	0.081291747	-0.525836
## 2736	0.1247674	2.193147e+00	2.722880273	-0.525836
## 2737	0.1247674	-3.058584e-01	-0.427657607	-0.525836
## 2741	0.1247674	-4.476826e-02	-0.413520125	-0.525836
## 2742	0.1247674	-2.387209e-01	-0.116633002	-0.525836
## 2743	0.1247674	-4.326736e-01	-0.300420269	-0.525836
## 2744	0.1247674	4.102746e-01	0.731615923	-0.525836
## 2746	0.1247674	4.474837e-02	0.137841675	-0.525836
## 2747	0.1247674	8.204696e-02	-0.569032428	-0.525836
## 2749	0.1247674	-3.580764e-01	-0.399382643	-0.525836
## 2750	0.1247674	-4.401333e-01	-0.583169910	-0.525836
## 2751	0.1247674	-5.072708e-01	-0.639719839	-0.525836
## 2752	0.1247674	-3.879153e-01	-0.455932572	-0.525836
## 2754	0.1247674	-4.625125e-01	-0.569032428	-0.525836

## 2756	0.1247674	-9.946292e-06	0.731615923	-0.525836
## 2757	0.1247674	-4.475931e-01	-0.540757464	1.901100
## 2758	0.1247674	-4.326736e-01	-0.335763974	-0.525836
## 2760	0.1247674	-4.476826e-02	-0.098961149	1.901100
## 2761	0.1247674	-4.102945e-01	-0.265076564	-0.525836
## 2763	0.1247674	2.685399e-01	-0.556732819	1.901100
## 2764	0.1247674	-1.119057e-01	1.077984233	-0.525836
## 2765	0.1247674	-3.655362e-01	-0.102495520	1.901100
## 2767	0.1247674	-1.641238e-01	-0.569032428	-0.525836
## 2768	-8.0122397	-3.953750e-01	-0.427657607	-0.525836
## 2769	0.1247674	2.319963e+00	0.180254122	-0.525836
## 2770	0.1247674	8.951563e-01	-0.540757464	-0.525836
## 2771	0.1247674	6.712752e-02	0.279216496	-0.525836
## 2773	0.1247674	-2.909390e-01	-0.539343716	1.901100
## 2774	0.1247674	1.738104e+00	0.335766424	-0.525836
## 2776	0.1247674	-1.865029e-01	-0.667994803	-0.525836
## 2777	0.1247674	-3.133181e-01	-0.455932572	1.901100
## 2778	0.1247674	-2.312612e-01	-0.710407249	-0.525836
## 2779	0.1247674	4.774120e-01	-0.012015635	-0.525836
## 2781	0.1247674	-3.953750e-01	-0.314557751	-0.525836
## 2782	0.1247674	3.580565e-01	-0.455932572	-0.525836
## 2784	0.1247674	-3.356973e-01	-0.291937780	-0.525836
## 2787	0.1247674	-2.685598e-01	1.107672946	-0.525836
## 2788	0.1247674	-2.983987e-01	-0.434726348	1.901100
## 2790	0.1247674	-3.655362e-01	0.250941532	-0.525836
## 2791	0.1247674	-4.401333e-01	-0.486045408	1.901100
## 2792	0.1247674	2.610802e-01	-0.569032428	-0.525836
## 2793	0.1247674	-3.431570e-01	0.315267075	-0.525836
## 2794	0.1247674	-5.072708e-01	-0.597307392	1.901100
## 2795	0.1247674	-3.655362e-01	-0.286282787	-0.525836
## 2798	0.1247674	-3.655362e-01	2.069021727	-0.525836
## 2799	0.1247674	-2.685598e-01	-0.291937780	-0.525836
## 2800	0.1247674	-1.641238e-01	0.131479809	1.901100
## 2802	0.1247674	2.208067e+00	2.722880273	-0.525836

## 2807	0.1247674	-4.625125e-01	0.123704193	-0.525836
## 2811	0.1247674	-3.133181e-01	-0.089064912	-0.525836
## 2812	0.1247674	-4.848917e-01	-0.533688723	-0.525836
## 2813	0.1247674	-2.238015e-01	-0.300420269	-0.525836
## 2814	0.1247674	2.603432e+00	2.722880273	-0.525836
## 2815	0.1247674	1.148787e+00	0.127945438	-0.525836
## 2816	0.1247674	-4.550528e-01	-0.540757464	1.901100
## 2817	0.1247674	-3.729959e-01	-0.455932572	1.901100
## 2818	0.1247674	-3.879153e-01	-0.569032428	-0.525836
## 2820	0.1247674	-3.729959e-01	-0.526619982	1.901100
## 2821	0.1247674	4.251940e-01	-0.625582356	-0.525836
## 2822	0.1247674	-4.326736e-01	-0.116633002	-0.525836
## 2823	0.1247674	2.200607e+00	2.722880273	-0.525836
## 2824	0.1247674	-4.774319e-01	-0.512482500	-0.525836
## 2826	0.1247674	-1.119057e-01	-0.710407249	-0.525836
## 2827	0.1247674	-1.566640e-01	-0.625582356	-0.525836
## 2828	-8.0122397	-1.715835e-01	-0.427657607	-0.525836
## 2829	0.1247674	-3.356973e-01	0.265079014	-0.525836
## 2831	0.1247674	2.610802e-01	-0.611444874	-0.525836
## 2832	0.1247674	-3.207778e-01	-0.455932572	1.901100
## 2833	0.1247674	-3.058584e-01	0.127945438	-0.525836
## 2834	0.1247674	-4.923514e-01	-0.710407249	-0.525836
## 2835	0.1247674	-3.058584e-01	0.300422719	-0.525836
## 2837	0.1247674	-2.685598e-01	1.466764990	1.901100
## 2838	0.1247674	2.222986e+00	-0.526619982	1.901100
## 2839	0.1247674	-3.730854e-02	-0.583169910	-0.525836
## 2840	0.1247674	-3.953750e-01	0.392316353	-0.525836
## 2843	0.1247674	-3.580764e-01	1.905026935	-0.525836
## 2845	0.1247674	-3.356973e-01	0.420591317	-0.525836
## 2846	0.1247674	3.364332e+01	-0.847258075	-0.525836
## 2847	0.1247674	-2.760195e-01	-0.498345018	-0.525836
## 2848	0.1247674	-3.356973e-01	-0.554894946	-0.525836
## 2850	0.1247674	2.200607e+00	2.040746762	-0.525836
## 2852	0.1247674	-4.550528e-01	-0.597307392	1.901100

## 2853	0.1247674	6.415259e-01	0.045948042	-0.525836
## 2855	0.1247674	-5.072708e-01	-0.653857321	-0.525836
## 2856	0.1247674	-4.401333e-01	-0.569032428	1.901100
## 2857	0.1247674	-1.119057e-01	0.689203476	-0.525836
## 2860	0.1247674	-4.923514e-01	-0.286282787	-0.525836
## 2861	0.1247674	-4.550528e-01	0.378178871	-0.525836
## 2862	0.1247674	-4.550528e-01	-0.569032428	-0.525836
## 2864	0.1247674	2.200607e+00	2.534144887	-0.525836
## 2865	0.1247674	-3.282376e-01	-0.512482500	-0.525836
## 2866	0.1247674	-2.238910e-02	-0.498345018	-0.525836
## 2867	0.1247674	-3.953750e-01	-0.441795090	-0.525836
## 2868	0.1247674	-5.072708e-01	-0.187320412	-0.525836
## 2869	0.1247674	-2.014223e-01	-0.498345018	-0.525836
## 2870	0.1247674	-1.342849e-01	-0.477138795	1.901100
## 2871	0.1247674	-2.014223e-01	-0.851782070	-0.525836
## 2872	0.1247674	-5.072708e-01	-0.851782070	-0.525836
## 2873	0.1247674	-4.326736e-01	-0.590238651	-0.525836
## 2875	0.1247674	-3.729959e-01	-0.470070054	-0.525836
## 2877	0.1247674	8.503980e-01	0.279216496	-0.525836
## 2878	0.1247674	-3.133181e-01	0.407867583	-0.525836
## 2879	0.1247674	-4.177542e-01	-0.571859925	-0.525836
## 2880	0.1247674	2.982893e-02	-0.356970197	1.901100
## 2881	-8.0122397	5.966780e-02	-0.441795090	-0.525836
## 2883	0.1247674	-2.909390e-01	-0.571859925	-0.525836
## 2884	0.1247674	-3.133181e-01	-0.229732858	-0.525836
## 2885	0.1247674	-4.401333e-01	-0.385245161	-0.525836
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## 2888	0.1247674	-3.282376e-01	-0.569032428	-0.525836
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# # 423	-0.5402706	1.2807412
# # 424	-0.5402706	-0.7805376
# # 425	-0.5402706	1.2807412
# # 426	1.8503073	-0.7805376
# # 428	1.8503073	-0.7805376
# # 429	-0.5402706	1.2807412
# # 430	-0.5402706	-0.7805376
# # 431	1.8503073	-0.7805376
# # 434	1.8503073	-0.7805376
# # 435	-0.5402706	-0.7805376
# # 436	-0.5402706	-0.7805376
# # 437	-0.5402706	-0.7805376
# # 438	-0.5402706	1.2807412
# # 439	-0.5402706	-0.7805376
# # 442	-0.5402706	1.2807412
# # 444	-0.5402706	1.2807412
# # 447	1.8503073	-0.7805376
# # 448	-0.5402706	1.2807412
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# # 451	-0.5402706	1.2807412
# # 452	-0.5402706	1.2807412
# # 455	-0.5402706	-0.7805376
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# # 460	-0.5402706	-0.7805376
# # 462	-0.5402706	-0.7805376
# # 464	-0.5402706	-0.7805376
# # 465	-0.5402706	1.2807412
# # 466	1.8503073	-0.7805376
# # 467	-0.5402706	-0.7805376
# # 468	-0.5402706	-0.7805376

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# # 470	-0.5402706	1.2807412
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# # 474	-0.5402706	1.2807412
# # 475	1.8503073	-0.7805376
# # 476	-0.5402706	-0.7805376
# # 477	-0.5402706	1.2807412
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# # 480	-0.5402706	1.2807412
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# # 482	-0.5402706	-0.7805376
# # 485	-0.5402706	1.2807412
# # 487	-0.5402706	-0.7805376
# # 488	1.8503073	-0.7805376
# # 489	-0.5402706	1.2807412
# # 490	-0.5402706	1.2807412
# # 491	-0.5402706	-0.7805376
# # 493	-0.5402706	1.2807412
# # 495	-0.5402706	-0.7805376
# # 496	1.8503073	-0.7805376
# # 497	1.8503073	-0.7805376
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# # 502	-0.5402706	1.2807412
# # 503	-0.5402706	1.2807412
# # 504	1.8503073	-0.7805376
# # 506	-0.5402706	1.2807412
# # 507	-0.5402706	1.2807412
# # 508	-0.5402706	1.2807412
# # 509	1.8503073	-0.7805376
# # 510	1.8503073	-0.7805376
# # 512	-0.5402706	-0.7805376
# # 514	-0.5402706	1.2807412
# # 515	-0.5402706	1.2807412

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# # 517	-0.5402706	1.2807412
# # 519	-0.5402706	-0.7805376
# # 520	-0.5402706	-0.7805376
# # 521	-0.5402706	-0.7805376
# # 522	1.8503073	-0.7805376
# # 523	-0.5402706	1.2807412
# # 524	-0.5402706	-0.7805376
# # 526	-0.5402706	1.2807412
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# # 532	-0.5402706	-0.7805376
# # 533	1.8503073	-0.7805376
# # 535	-0.5402706	-0.7805376
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# # 541	-0.5402706	-0.7805376
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# # 544	1.8503073	-0.7805376
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# # 547	-0.5402706	1.2807412
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# # 551	-0.5402706	-0.7805376
# # 552	-0.5402706	1.2807412
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# # 558	-0.5402706	1.2807412

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## 563	-0.5402706	-0.7805376
## 564	-0.5402706	1.2807412
## 565	1.8503073	-0.7805376
## 566	1.8503073	-0.7805376
## 570	-0.5402706	1.2807412
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## 573	-0.5402706	1.2807412
## 574	1.8503073	-0.7805376
## 575	-0.5402706	1.2807412
## 578	1.8503073	-0.7805376
## 582	-0.5402706	-0.7805376
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## 584	-0.5402706	-0.7805376
## 585	-0.5402706	-0.7805376
## 586	-0.5402706	1.2807412
## 587	-0.5402706	1.2807412
## 588	-0.5402706	-0.7805376
## 589	-0.5402706	-0.7805376
## 590	-0.5402706	1.2807412
## 591	-0.5402706	-0.7805376
## 592	-0.5402706	-0.7805376
## 594	1.8503073	-0.7805376
## 595	-0.5402706	-0.7805376
## 597	-0.5402706	-0.7805376
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## 599	-0.5402706	-0.7805376
## 601	-0.5402706	1.2807412
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## 606	-0.5402706	1.2807412
## 608	-0.5402706	-0.7805376
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## 627	1.8503073	-0.7805376
## 628	-0.5402706	1.2807412
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## 637	1.8503073	-0.7805376
## 639	-0.5402706	1.2807412
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## 644	-0.5402706	1.2807412
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## 646	1.8503073	-0.7805376
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# # 672	-0.5402706	1.2807412
# # 673	-0.5402706	-0.7805376
# # 678	-0.5402706	1.2807412
# # 679	-0.5402706	-0.7805376
# # 681	1.8503073	-0.7805376
# # 683	-0.5402706	1.2807412
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# # 685	-0.5402706	-0.7805376
# # 687	-0.5402706	-0.7805376
# # 688	1.8503073	-0.7805376
# # 689	1.8503073	-0.7805376
# # 690	-0.5402706	-0.7805376
# # 691	1.8503073	-0.7805376
# # 693	-0.5402706	1.2807412
# # 695	-0.5402706	-0.7805376
# # 696	1.8503073	-0.7805376
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# # 726	-0.5402706	-0.7805376
# # 727	-0.5402706	1.2807412
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# # 753	1.8503073	-0.7805376
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# # 895	-0.5402706	-0.7805376
# # 897	-0.5402706	1.2807412

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## 1007	1.8503073	-0.7805376
## 1008	-0.5402706	1.2807412
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## 1010	-0.5402706	1.2807412
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## 1697	-0.5402706	1.2807412
## 1698	1.8503073	-0.7805376
## 1699	-0.5402706	1.2807412
## 1701	-0.5402706	1.2807412
## 1704	1.8503073	-0.7805376

## 1705	-0.5402706	1.2807412
## 1706	1.8503073	-0.7805376
## 1707	-0.5402706	1.2807412
## 1708	-0.5402706	-0.7805376
## 1710	1.8503073	-0.7805376
## 1711	-0.5402706	1.2807412
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## 1716	-0.5402706	1.2807412
## 1717	-0.5402706	-0.7805376
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## 1719	-0.5402706	-0.7805376
## 1720	-0.5402706	1.2807412
## 1722	-0.5402706	-0.7805376
## 1723	1.8503073	-0.7805376
## 1724	-0.5402706	-0.7805376
## 1725	1.8503073	-0.7805376
## 1726	-0.5402706	1.2807412
## 1727	-0.5402706	-0.7805376
## 1728	-0.5402706	1.2807412
## 1729	-0.5402706	1.2807412
## 1730	-0.5402706	-0.7805376
## 1732	1.8503073	-0.7805376
## 1733	1.8503073	-0.7805376
## 1735	-0.5402706	1.2807412
## 1737	1.8503073	-0.7805376
## 1738	-0.5402706	1.2807412
## 1739	-0.5402706	1.2807412
## 1740	-0.5402706	1.2807412
## 1741	1.8503073	-0.7805376
## 1743	-0.5402706	-0.7805376
## 1745	-0.5402706	-0.7805376
## 1746	1.8503073	-0.7805376
## 1748	1.8503073	-0.7805376
## 1749	-0.5402706	-0.7805376

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## 1752	-0.5402706	-0.7805376
## 1753	-0.5402706	-0.7805376
## 1754	-0.5402706	1.2807412
## 1755	-0.5402706	1.2807412
## 1756	1.8503073	-0.7805376
## 1758	-0.5402706	-0.7805376
## 1759	-0.5402706	1.2807412
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## 1761	-0.5402706	1.2807412
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## 1763	-0.5402706	1.2807412
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## 1765	-0.5402706	1.2807412
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## 1770	-0.5402706	-0.7805376
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## 1775	-0.5402706	1.2807412
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## 1778	-0.5402706	1.2807412
## 1779	-0.5402706	1.2807412
## 1780	-0.5402706	1.2807412
## 1781	-0.5402706	1.2807412
## 1783	1.8503073	-0.7805376
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## 1803	-0.5402706	1.2807412
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## 1805	-0.5402706	1.2807412
## 1806	-0.5402706	-0.7805376
## 1807	-0.5402706	1.2807412
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## 1810	1.8503073	-0.7805376
## 1813	-0.5402706	-0.7805376
## 1814	1.8503073	-0.7805376
## 1815	-0.5402706	-0.7805376
## 1818	-0.5402706	1.2807412
## 1819	-0.5402706	-0.7805376
## 1820	-0.5402706	1.2807412
## 1821	-0.5402706	1.2807412
## 1823	-0.5402706	1.2807412
## 1824	-0.5402706	1.2807412
## 1825	1.8503073	-0.7805376
## 1826	-0.5402706	1.2807412
## 1828	-0.5402706	-0.7805376
## 1829	-0.5402706	1.2807412
## 1830	-0.5402706	-0.7805376
## 1832	-0.5402706	1.2807412
## 1834	-0.5402706	1.2807412
## 1835	-0.5402706	-0.7805376
## 1838	-0.5402706	1.2807412
## 1839	-0.5402706	-0.7805376
## 1840	1.8503073	-0.7805376

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## 1846	-0.5402706	-0.7805376
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## 1850	-0.5402706	-0.7805376
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## 1853	-0.5402706	-0.7805376
## 1856	-0.5402706	1.2807412
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## 1859	-0.5402706	1.2807412
## 1861	-0.5402706	1.2807412
## 1862	1.8503073	-0.7805376
## 1863	-0.5402706	1.2807412
## 1864	1.8503073	-0.7805376
## 1865	-0.5402706	1.2807412
## 1867	-0.5402706	1.2807412
## 1868	-0.5402706	-0.7805376
## 1869	-0.5402706	1.2807412
## 1870	-0.5402706	1.2807412
## 1872	1.8503073	-0.7805376
## 1873	-0.5402706	-0.7805376
## 1875	-0.5402706	1.2807412
## 1876	1.8503073	-0.7805376
## 1877	-0.5402706	1.2807412
## 1878	-0.5402706	1.2807412
## 1879	1.8503073	-0.7805376
## 1880	-0.5402706	-0.7805376
## 1881	1.8503073	-0.7805376
## 1885	-0.5402706	1.2807412
## 1887	1.8503073	-0.7805376
## 1890	-0.5402706	1.2807412

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## 1894	1.8503073	-0.7805376
## 1895	-0.5402706	1.2807412
## 1896	1.8503073	-0.7805376
## 1897	-0.5402706	-0.7805376
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## 1900	-0.5402706	1.2807412
## 1901	-0.5402706	-0.7805376
## 1902	-0.5402706	1.2807412
## 1903	-0.5402706	-0.7805376
## 1905	-0.5402706	1.2807412
## 1906	-0.5402706	1.2807412
## 1907	1.8503073	-0.7805376
## 1908	-0.5402706	-0.7805376
## 1909	-0.5402706	1.2807412
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## 1911	-0.5402706	1.2807412
## 1913	-0.5402706	1.2807412
## 1915	1.8503073	-0.7805376
## 1916	-0.5402706	-0.7805376
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## 1919	-0.5402706	-0.7805376
## 1920	-0.5402706	1.2807412
## 1921	1.8503073	-0.7805376
## 1923	-0.5402706	1.2807412
## 1924	-0.5402706	-0.7805376
## 1925	1.8503073	-0.7805376
## 1927	-0.5402706	-0.7805376
## 1929	-0.5402706	1.2807412
## 1930	-0.5402706	-0.7805376
## 1932	-0.5402706	-0.7805376
## 1933	1.8503073	-0.7805376

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## 1935	-0.5402706	1.2807412
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## 1939	-0.5402706	-0.7805376
## 1940	1.8503073	-0.7805376
## 1943	-0.5402706	-0.7805376
## 1944	1.8503073	-0.7805376
## 1945	-0.5402706	1.2807412
## 1949	-0.5402706	-0.7805376
## 1951	1.8503073	-0.7805376
## 1952	1.8503073	-0.7805376
## 1954	-0.5402706	1.2807412
## 1955	-0.5402706	-0.7805376
## 1956	-0.5402706	-0.7805376
## 1957	1.8503073	-0.7805376
## 1958	-0.5402706	-0.7805376
## 1959	-0.5402706	1.2807412
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## 1962	1.8503073	-0.7805376
## 1963	-0.5402706	-0.7805376
## 1965	1.8503073	-0.7805376
## 1966	-0.5402706	1.2807412
## 1968	-0.5402706	1.2807412
## 1970	1.8503073	-0.7805376
## 1971	1.8503073	-0.7805376
## 1972	-0.5402706	1.2807412
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## 1988	-0.5402706	1.2807412
## 1989	1.8503073	-0.7805376
## 1990	1.8503073	-0.7805376
## 1991	-0.5402706	1.2807412
## 1994	-0.5402706	1.2807412
## 1995	1.8503073	-0.7805376
## 1997	-0.5402706	1.2807412
## 1998	-0.5402706	-0.7805376
## 2002	-0.5402706	-0.7805376
## 2004	-0.5402706	1.2807412
## 2005	-0.5402706	-0.7805376
## 2006	1.8503073	-0.7805376
## 2007	1.8503073	-0.7805376
## 2008	-0.5402706	-0.7805376
## 2009	-0.5402706	1.2807412
## 2010	-0.5402706	-0.7805376
## 2011	-0.5402706	-0.7805376
## 2013	-0.5402706	-0.7805376
## 2017	-0.5402706	1.2807412
## 2018	-0.5402706	1.2807412
## 2019	1.8503073	-0.7805376
## 2020	-0.5402706	-0.7805376
## 2021	-0.5402706	-0.7805376
## 2022	-0.5402706	-0.7805376
## 2023	-0.5402706	1.2807412
## 2025	-0.5402706	-0.7805376
## 2026	-0.5402706	-0.7805376
## 2027	-0.5402706	-0.7805376
## 2028	1.8503073	-0.7805376
## 2029	-0.5402706	1.2807412
## 2030	-0.5402706	1.2807412
## 2031	-0.5402706	-0.7805376
## 2032	-0.5402706	1.2807412

## 2033	-0.5402706	-0.7805376
## 2034	-0.5402706	1.2807412
## 2035	1.8503073	-0.7805376
## 2036	-0.5402706	-0.7805376
## 2037	1.8503073	-0.7805376
## 2038	-0.5402706	1.2807412
## 2039	-0.5402706	1.2807412
## 2041	-0.5402706	1.2807412
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## 2044	-0.5402706	-0.7805376
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## 2049	-0.5402706	-0.7805376
## 2051	-0.5402706	1.2807412
## 2053	-0.5402706	1.2807412
## 2054	-0.5402706	1.2807412
## 2055	-0.5402706	-0.7805376
## 2056	-0.5402706	1.2807412
## 2058	-0.5402706	-0.7805376
## 2061	1.8503073	-0.7805376
## 2064	-0.5402706	-0.7805376
## 2065	-0.5402706	-0.7805376
## 2066	-0.5402706	1.2807412
## 2067	1.8503073	-0.7805376
## 2068	-0.5402706	1.2807412
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## 2070	1.8503073	-0.7805376
## 2071	1.8503073	-0.7805376
## 2072	-0.5402706	-0.7805376
## 2073	-0.5402706	1.2807412
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## 2076	-0.5402706	1.2807412

## 2077	-0.5402706	-0.7805376
## 2078	-0.5402706	-0.7805376
## 2081	1.8503073	-0.7805376
## 2082	-0.5402706	-0.7805376
## 2083	1.8503073	-0.7805376
## 2084	1.8503073	-0.7805376
## 2085	-0.5402706	-0.7805376
## 2090	-0.5402706	1.2807412
## 2091	-0.5402706	1.2807412
## 2092	-0.5402706	-0.7805376
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## 2096	-0.5402706	-0.7805376
## 2097	-0.5402706	1.2807412
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## 2107	1.8503073	-0.7805376
## 2110	1.8503073	-0.7805376
## 2112	-0.5402706	-0.7805376
## 2113	1.8503073	-0.7805376
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## 2121	-0.5402706	-0.7805376
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## 2127	-0.5402706	1.2807412

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## 2199	1.8503073	-0.7805376
## 2200	1.8503073	-0.7805376
## 2201	1.8503073	-0.7805376
## 2203	1.8503073	-0.7805376
## 2207	-0.5402706	-0.7805376
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## 2214	-0.5402706	1.2807412
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## 2216	1.8503073	-0.7805376
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# # 2252	-0.5402706	1.2807412
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# # 2254	-0.5402706	1.2807412
# # 2258	-0.5402706	-0.7805376
# # 2259	-0.5402706	-0.7805376
# # 2260	1.8503073	-0.7805376
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# # 2271	-0.5402706	1.2807412
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## 2287	1.8503073	-0.7805376
## 2288	-0.5402706	1.2807412
## 2289	-0.5402706	1.2807412
## 2290	-0.5402706	1.2807412
## 2293	1.8503073	-0.7805376
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## 2331	1.8503073	-0.7805376
## 2332	-0.5402706	1.2807412
## 2334	-0.5402706	-0.7805376
## 2335	-0.5402706	-0.7805376
## 2336	-0.5402706	1.2807412
## 2337	-0.5402706	1.2807412
## 2338	-0.5402706	1.2807412
## 2340	-0.5402706	-0.7805376
## 2341	1.8503073	-0.7805376
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## 2344	-0.5402706	1.2807412
## 2345	-0.5402706	1.2807412
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## 2348	-0.5402706	1.2807412
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## 2353	-0.5402706	-0.7805376
## 2354	-0.5402706	1.2807412
## 2355	-0.5402706	1.2807412
## 2356	1.8503073	-0.7805376
## 2357	-0.5402706	-0.7805376
## 2359	-0.5402706	-0.7805376
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## 2362	-0.5402706	-0.7805376
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## 2370	-0.5402706	1.2807412
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## 2372	-0.5402706	-0.7805376
## 2374	-0.5402706	1.2807412
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## 2382	-0.5402706	1.2807412
## 2383	-0.5402706	-0.7805376
## 2384	-0.5402706	-0.7805376
## 2385	-0.5402706	-0.7805376
## 2387	-0.5402706	-0.7805376
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## 2390	-0.5402706	1.2807412
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## 2397	1.8503073	-0.7805376
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## 2406	-0.5402706	-0.7805376
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## 2439	-0.5402706	-0.7805376
## 2441	-0.5402706	-0.7805376
## 2443	-0.5402706	-0.7805376
## 2444	-0.5402706	-0.7805376
## 2445	1.8503073	-0.7805376
## 2448	1.8503073	-0.7805376
## 2449	-0.5402706	1.2807412
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## 2454	-0.5402706	-0.7805376
## 2456	-0.5402706	1.2807412
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## 2485	-0.5402706	1.2807412
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## 2506	-0.5402706	-0.7805376
## 2508	-0.5402706	1.2807412
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# # 2559	-0.5402706	-0.7805376
# # 2560	-0.5402706	-0.7805376
# # 2562	-0.5402706	-0.7805376
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## 2654	-0.5402706	-0.7805376
## 2655	1.8503073	-0.7805376
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## 2658	-0.5402706	1.2807412

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## 2974	-0.5402706	1.2807412
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## 2985	-0.5402706	1.2807412
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## 2989	-0.5402706	1.2807412
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## 2994	1.8503073	-0.7805376
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## 7	-0.1941408	-0.4073068	2.8934769
## 8	-0.1941408	-0.4073068	-0.3454898
## 9	-0.1941408	-0.4073068	-0.3454898
## 10	-0.1941408	-0.4073068	-0.3454898
## 11	-0.1941408	2.4543334	-0.3454898
## 13	-0.1941408	-0.4073068	-0.3454898
## 15	-0.1941408	-0.4073068	-0.3454898
## 16	-0.1941408	2.4543334	-0.3454898
## 18	-0.1941408	-0.4073068	2.8934769
## 21	-0.1941408	-0.4073068	-0.3454898
## 22	5.1491839	-0.4073068	-0.3454898
## 23	-0.1941408	2.4543334	-0.3454898
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## 1801	-0.1941408	-0.4073068	-0.3454898
## 1802	5.1491839	-0.4073068	-0.3454898

## 1803	-0.1941408	-0.4073068	-0.3454898
## 1804	-0.1941408	-0.4073068	-0.3454898
## 1805	-0.1941408	-0.4073068	-0.3454898
## 1806	-0.1941408	2.4543334	-0.3454898
## 1807	-0.1941408	-0.4073068	-0.3454898
## 1809	-0.1941408	-0.4073068	-0.3454898
## 1810	-0.1941408	-0.4073068	-0.3454898
## 1813	-0.1941408	-0.4073068	-0.3454898
## 1814	-0.1941408	-0.4073068	-0.3454898
## 1815	-0.1941408	-0.4073068	-0.3454898
## 1818	-0.1941408	-0.4073068	-0.3454898
## 1819	-0.1941408	2.4543334	-0.3454898
## 1820	-0.1941408	-0.4073068	-0.3454898
## 1821	-0.1941408	-0.4073068	-0.3454898
## 1823	-0.1941408	-0.4073068	-0.3454898
## 1824	-0.1941408	-0.4073068	-0.3454898
## 1825	-0.1941408	-0.4073068	-0.3454898
## 1826	-0.1941408	-0.4073068	-0.3454898
## 1828	-0.1941408	2.4543334	-0.3454898
## 1829	-0.1941408	-0.4073068	2.8934769
## 1830	-0.1941408	2.4543334	-0.3454898
## 1832	-0.1941408	-0.4073068	-0.3454898
## 1834	-0.1941408	-0.4073068	2.8934769
## 1835	5.1491839	-0.4073068	2.8934769
## 1838	-0.1941408	-0.4073068	-0.3454898
## 1839	-0.1941408	-0.4073068	-0.3454898
## 1840	-0.1941408	-0.4073068	-0.3454898
## 1841	-0.1941408	-0.4073068	-0.3454898
## 1842	-0.1941408	-0.4073068	2.8934769
## 1843	-0.1941408	2.4543334	-0.3454898
## 1844	-0.1941408	-0.4073068	-0.3454898
## 1846	-0.1941408	2.4543334	-0.3454898
## 1847	-0.1941408	-0.4073068	-0.3454898
## 1848	-0.1941408	-0.4073068	-0.3454898

## 1850	-0.1941408	2.4543334	-0.3454898
## 1852	-0.1941408	-0.4073068	-0.3454898
## 1853	-0.1941408	-0.4073068	-0.3454898
## 1856	-0.1941408	-0.4073068	2.8934769
## 1858	-0.1941408	-0.4073068	-0.3454898
## 1859	-0.1941408	-0.4073068	2.8934769
## 1861	-0.1941408	-0.4073068	2.8934769
## 1862	-0.1941408	-0.4073068	-0.3454898
## 1863	-0.1941408	-0.4073068	-0.3454898
## 1864	-0.1941408	-0.4073068	-0.3454898
## 1865	-0.1941408	-0.4073068	-0.3454898
## 1867	-0.1941408	-0.4073068	-0.3454898
## 1868	-0.1941408	-0.4073068	-0.3454898
## 1869	-0.1941408	-0.4073068	-0.3454898
## 1870	-0.1941408	-0.4073068	-0.3454898
## 1872	-0.1941408	-0.4073068	-0.3454898
## 1873	-0.1941408	2.4543334	-0.3454898
## 1875	-0.1941408	-0.4073068	-0.3454898
## 1876	-0.1941408	-0.4073068	-0.3454898
## 1877	-0.1941408	-0.4073068	-0.3454898
## 1878	-0.1941408	-0.4073068	2.8934769
## 1879	-0.1941408	-0.4073068	-0.3454898
## 1880	-0.1941408	-0.4073068	-0.3454898
## 1881	-0.1941408	-0.4073068	-0.3454898
## 1885	-0.1941408	-0.4073068	2.8934769
## 1887	-0.1941408	-0.4073068	2.8934769
## 1890	-0.1941408	-0.4073068	-0.3454898
## 1891	-0.1941408	-0.4073068	-0.3454898
## 1892	-0.1941408	-0.4073068	-0.3454898
## 1894	-0.1941408	-0.4073068	2.8934769
## 1895	-0.1941408	-0.4073068	-0.3454898
## 1896	-0.1941408	-0.4073068	-0.3454898
## 1897	5.1491839	-0.4073068	2.8934769
## 1899	-0.1941408	2.4543334	-0.3454898

## 1900	-0.1941408	-0.4073068	-0.3454898
## 1901	-0.1941408	2.4543334	-0.3454898
## 1902	-0.1941408	-0.4073068	-0.3454898
## 1903	-0.1941408	2.4543334	-0.3454898
## 1905	-0.1941408	-0.4073068	-0.3454898
## 1906	-0.1941408	-0.4073068	-0.3454898
## 1907	-0.1941408	-0.4073068	2.8934769
## 1908	-0.1941408	-0.4073068	-0.3454898
## 1909	-0.1941408	-0.4073068	-0.3454898
## 1910	-0.1941408	-0.4073068	-0.3454898
## 1911	-0.1941408	-0.4073068	-0.3454898
## 1913	-0.1941408	-0.4073068	-0.3454898
## 1915	-0.1941408	-0.4073068	-0.3454898
## 1916	-0.1941408	-0.4073068	-0.3454898
## 1917	-0.1941408	-0.4073068	-0.3454898
## 1918	-0.1941408	-0.4073068	-0.3454898
## 1919	-0.1941408	-0.4073068	-0.3454898
## 1920	-0.1941408	-0.4073068	-0.3454898
## 1921	-0.1941408	-0.4073068	-0.3454898
## 1923	-0.1941408	-0.4073068	-0.3454898
## 1924	-0.1941408	-0.4073068	-0.3454898
## 1925	-0.1941408	-0.4073068	-0.3454898
## 1927	-0.1941408	-0.4073068	-0.3454898
## 1929	-0.1941408	-0.4073068	-0.3454898
## 1930	-0.1941408	-0.4073068	-0.3454898
## 1932	-0.1941408	-0.4073068	-0.3454898
## 1933	-0.1941408	-0.4073068	-0.3454898
## 1934	-0.1941408	-0.4073068	-0.3454898
## 1935	-0.1941408	-0.4073068	-0.3454898
## 1937	-0.1941408	-0.4073068	-0.3454898
## 1938	-0.1941408	-0.4073068	-0.3454898
## 1939	-0.1941408	-0.4073068	-0.3454898
## 1940	-0.1941408	-0.4073068	-0.3454898
## 1943	-0.1941408	-0.4073068	-0.3454898

## 1944	-0.1941408	-0.4073068	-0.3454898
## 1945	-0.1941408	-0.4073068	-0.3454898
## 1949	-0.1941408	-0.4073068	-0.3454898
## 1951	-0.1941408	-0.4073068	-0.3454898
## 1952	-0.1941408	-0.4073068	2.8934769
## 1954	-0.1941408	-0.4073068	-0.3454898
## 1955	-0.1941408	2.4543334	-0.3454898
## 1956	5.1491839	-0.4073068	-0.3454898
## 1957	-0.1941408	-0.4073068	-0.3454898
## 1958	-0.1941408	-0.4073068	-0.3454898
## 1959	-0.1941408	-0.4073068	-0.3454898
## 1960	-0.1941408	-0.4073068	-0.3454898
## 1962	-0.1941408	-0.4073068	-0.3454898
## 1963	-0.1941408	-0.4073068	-0.3454898
## 1965	-0.1941408	-0.4073068	-0.3454898
## 1966	-0.1941408	-0.4073068	2.8934769
## 1968	-0.1941408	-0.4073068	-0.3454898
## 1970	-0.1941408	-0.4073068	-0.3454898
## 1971	-0.1941408	-0.4073068	-0.3454898
## 1972	-0.1941408	-0.4073068	2.8934769
## 1973	-0.1941408	-0.4073068	-0.3454898
## 1975	-0.1941408	-0.4073068	-0.3454898
## 1978	-0.1941408	-0.4073068	-0.3454898
## 1979	-0.1941408	2.4543334	-0.3454898
## 1982	-0.1941408	-0.4073068	-0.3454898
## 1984	5.1491839	-0.4073068	-0.3454898
## 1986	-0.1941408	-0.4073068	-0.3454898
## 1987	-0.1941408	2.4543334	-0.3454898
## 1988	-0.1941408	-0.4073068	-0.3454898
## 1989	-0.1941408	-0.4073068	-0.3454898
## 1990	-0.1941408	-0.4073068	-0.3454898
## 1991	-0.1941408	-0.4073068	-0.3454898
## 1994	-0.1941408	-0.4073068	-0.3454898
## 1995	-0.1941408	-0.4073068	-0.3454898

## 1997	-0.1941408	-0.4073068	-0.3454898
## 1998	-0.1941408	2.4543334	-0.3454898
## 2002	-0.1941408	-0.4073068	-0.3454898
## 2004	-0.1941408	-0.4073068	-0.3454898
## 2005	-0.1941408	-0.4073068	-0.3454898
## 2006	-0.1941408	-0.4073068	2.8934769
## 2007	-0.1941408	-0.4073068	-0.3454898
## 2008	-0.1941408	2.4543334	-0.3454898
## 2009	-0.1941408	-0.4073068	-0.3454898
## 2010	-0.1941408	2.4543334	-0.3454898
## 2011	5.1491839	-0.4073068	-0.3454898
## 2013	-0.1941408	-0.4073068	-0.3454898
## 2017	-0.1941408	-0.4073068	2.8934769
## 2018	-0.1941408	-0.4073068	-0.3454898
## 2019	-0.1941408	-0.4073068	-0.3454898
## 2020	-0.1941408	2.4543334	-0.3454898
## 2021	-0.1941408	-0.4073068	-0.3454898
## 2022	-0.1941408	-0.4073068	-0.3454898
## 2023	-0.1941408	-0.4073068	-0.3454898
## 2025	-0.1941408	2.4543334	-0.3454898
## 2026	-0.1941408	-0.4073068	-0.3454898
## 2027	-0.1941408	-0.4073068	-0.3454898
## 2028	-0.1941408	-0.4073068	2.8934769
## 2029	-0.1941408	-0.4073068	-0.3454898
## 2030	-0.1941408	-0.4073068	-0.3454898
## 2031	-0.1941408	-0.4073068	-0.3454898
## 2032	-0.1941408	-0.4073068	-0.3454898
## 2033	5.1491839	-0.4073068	-0.3454898
## 2034	-0.1941408	-0.4073068	2.8934769
## 2035	-0.1941408	-0.4073068	-0.3454898
## 2036	-0.1941408	-0.4073068	-0.3454898
## 2037	-0.1941408	-0.4073068	-0.3454898
## 2038	-0.1941408	-0.4073068	-0.3454898
## 2039	-0.1941408	-0.4073068	-0.3454898

## 2041	-0.1941408	-0.4073068	-0.3454898
## 2042	-0.1941408	-0.4073068	-0.3454898
## 2043	-0.1941408	2.4543334	-0.3454898
## 2044	-0.1941408	2.4543334	-0.3454898
## 2046	-0.1941408	-0.4073068	-0.3454898
## 2047	-0.1941408	2.4543334	-0.3454898
## 2048	-0.1941408	-0.4073068	-0.3454898
## 2049	-0.1941408	-0.4073068	-0.3454898
## 2051	-0.1941408	-0.4073068	-0.3454898
## 2053	-0.1941408	-0.4073068	2.8934769
## 2054	-0.1941408	-0.4073068	-0.3454898
## 2055	5.1491839	-0.4073068	-0.3454898
## 2056	-0.1941408	-0.4073068	-0.3454898
## 2058	-0.1941408	-0.4073068	-0.3454898
## 2061	-0.1941408	-0.4073068	-0.3454898
## 2064	-0.1941408	2.4543334	-0.3454898
## 2065	-0.1941408	-0.4073068	-0.3454898
## 2066	-0.1941408	-0.4073068	-0.3454898
## 2067	-0.1941408	-0.4073068	-0.3454898
## 2068	-0.1941408	-0.4073068	-0.3454898
## 2069	-0.1941408	-0.4073068	-0.3454898
## 2070	-0.1941408	-0.4073068	-0.3454898
## 2071	-0.1941408	-0.4073068	-0.3454898
## 2072	-0.1941408	2.4543334	-0.3454898
## 2073	-0.1941408	-0.4073068	-0.3454898
## 2074	-0.1941408	-0.4073068	-0.3454898
## 2076	-0.1941408	-0.4073068	2.8934769
## 2077	-0.1941408	-0.4073068	-0.3454898
## 2078	-0.1941408	-0.4073068	-0.3454898
## 2081	-0.1941408	-0.4073068	-0.3454898
## 2082	-0.1941408	2.4543334	-0.3454898
## 2083	-0.1941408	-0.4073068	-0.3454898
## 2084	-0.1941408	-0.4073068	-0.3454898
## 2085	-0.1941408	-0.4073068	-0.3454898

## 2090	-0.1941408	-0.4073068	-0.3454898
## 2091	-0.1941408	-0.4073068	2.8934769
## 2092	5.1491839	-0.4073068	2.8934769
## 2093	-0.1941408	2.4543334	-0.3454898
## 2094	-0.1941408	2.4543334	-0.3454898
## 2095	-0.1941408	-0.4073068	-0.3454898
## 2096	-0.1941408	-0.4073068	-0.3454898
## 2097	-0.1941408	-0.4073068	-0.3454898
## 2098	-0.1941408	-0.4073068	-0.3454898
## 2100	-0.1941408	2.4543334	-0.3454898
## 2101	-0.1941408	-0.4073068	-0.3454898
## 2104	-0.1941408	-0.4073068	-0.3454898
## 2105	-0.1941408	2.4543334	-0.3454898
## 2107	-0.1941408	-0.4073068	-0.3454898
## 2110	-0.1941408	-0.4073068	2.8934769
## 2112	-0.1941408	-0.4073068	-0.3454898
## 2113	-0.1941408	-0.4073068	-0.3454898
## 2114	-0.1941408	-0.4073068	-0.3454898
## 2116	-0.1941408	-0.4073068	-0.3454898
## 2117	5.1491839	-0.4073068	-0.3454898
## 2118	-0.1941408	-0.4073068	2.8934769
## 2119	-0.1941408	-0.4073068	-0.3454898
## 2121	-0.1941408	2.4543334	-0.3454898
## 2122	-0.1941408	-0.4073068	-0.3454898
## 2123	-0.1941408	-0.4073068	2.8934769
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## 2127	-0.1941408	-0.4073068	2.8934769
## 2128	-0.1941408	-0.4073068	2.8934769
## 2129	-0.1941408	-0.4073068	-0.3454898
## 2130	-0.1941408	-0.4073068	-0.3454898
## 2132	-0.1941408	-0.4073068	-0.3454898
## 2137	-0.1941408	-0.4073068	2.8934769
## 2139	-0.1941408	-0.4073068	2.8934769
## 2140	-0.1941408	-0.4073068	-0.3454898

## 2141	-0.1941408	-0.4073068	-0.3454898
## 2142	-0.1941408	-0.4073068	2.8934769
## 2145	-0.1941408	-0.4073068	-0.3454898
## 2146	-0.1941408	-0.4073068	-0.3454898
## 2147	-0.1941408	-0.4073068	-0.3454898
## 2149	-0.1941408	-0.4073068	-0.3454898
## 2151	-0.1941408	-0.4073068	-0.3454898
## 2154	-0.1941408	-0.4073068	-0.3454898
## 2155	5.1491839	-0.4073068	-0.3454898
## 2156	-0.1941408	-0.4073068	-0.3454898
## 2157	-0.1941408	2.4543334	-0.3454898
## 2158	-0.1941408	-0.4073068	-0.3454898
## 2159	-0.1941408	2.4543334	-0.3454898
## 2161	-0.1941408	-0.4073068	-0.3454898
## 2163	-0.1941408	-0.4073068	-0.3454898
## 2164	-0.1941408	-0.4073068	-0.3454898
## 2166	-0.1941408	-0.4073068	-0.3454898
## 2167	-0.1941408	2.4543334	-0.3454898
## 2168	-0.1941408	-0.4073068	-0.3454898
## 2169	-0.1941408	-0.4073068	-0.3454898
## 2170	-0.1941408	-0.4073068	-0.3454898
## 2171	-0.1941408	-0.4073068	-0.3454898
## 2172	-0.1941408	-0.4073068	-0.3454898
## 2173	-0.1941408	-0.4073068	-0.3454898
## 2174	-0.1941408	-0.4073068	-0.3454898
## 2176	-0.1941408	-0.4073068	-0.3454898
## 2177	-0.1941408	-0.4073068	-0.3454898
## 2179	-0.1941408	2.4543334	-0.3454898
## 2180	-0.1941408	2.4543334	-0.3454898
## 2182	-0.1941408	-0.4073068	-0.3454898
## 2183	-0.1941408	-0.4073068	-0.3454898
## 2184	-0.1941408	-0.4073068	-0.3454898
## 2185	-0.1941408	-0.4073068	2.8934769
## 2186	-0.1941408	-0.4073068	-0.3454898

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## 2190	-0.1941408	-0.4073068	-0.3454898
## 2191	-0.1941408	-0.4073068	-0.3454898
## 2192	-0.1941408	-0.4073068	-0.3454898
## 2194	-0.1941408	2.4543334	-0.3454898
## 2195	-0.1941408	-0.4073068	-0.3454898
## 2196	-0.1941408	-0.4073068	2.8934769
## 2197	-0.1941408	-0.4073068	2.8934769
## 2198	-0.1941408	-0.4073068	2.8934769
## 2199	-0.1941408	-0.4073068	2.8934769
## 2200	-0.1941408	-0.4073068	-0.3454898
## 2201	-0.1941408	-0.4073068	-0.3454898
## 2203	-0.1941408	-0.4073068	-0.3454898
## 2207	-0.1941408	2.4543334	-0.3454898
## 2209	-0.1941408	-0.4073068	-0.3454898
## 2210	5.1491839	-0.4073068	-0.3454898
## 2213	-0.1941408	-0.4073068	-0.3454898
## 2214	-0.1941408	-0.4073068	-0.3454898
## 2215	-0.1941408	-0.4073068	-0.3454898
## 2216	-0.1941408	-0.4073068	-0.3454898
## 2218	-0.1941408	2.4543334	-0.3454898
## 2219	-0.1941408	-0.4073068	-0.3454898
## 2220	-0.1941408	-0.4073068	-0.3454898
## 2221	-0.1941408	-0.4073068	-0.3454898
## 2222	-0.1941408	-0.4073068	-0.3454898
## 2223	-0.1941408	-0.4073068	2.8934769
## 2224	-0.1941408	-0.4073068	-0.3454898
## 2225	-0.1941408	-0.4073068	-0.3454898
## 2226	-0.1941408	-0.4073068	-0.3454898
## 2227	-0.1941408	-0.4073068	2.8934769
## 2229	-0.1941408	-0.4073068	-0.3454898
## 2230	-0.1941408	-0.4073068	-0.3454898
## 2231	-0.1941408	-0.4073068	-0.3454898
## 2234	-0.1941408	2.4543334	-0.3454898

# # 2235	-0.1941408	-0.4073068	-0.3454898
# # 2236	-0.1941408	-0.4073068	-0.3454898
# # 2237	-0.1941408	-0.4073068	-0.3454898
# # 2238	-0.1941408	-0.4073068	-0.3454898
# # 2241	-0.1941408	-0.4073068	-0.3454898
# # 2242	-0.1941408	-0.4073068	-0.3454898
# # 2245	-0.1941408	-0.4073068	-0.3454898
# # 2246	-0.1941408	-0.4073068	-0.3454898
# # 2248	-0.1941408	-0.4073068	-0.3454898
# # 2249	-0.1941408	-0.4073068	-0.3454898
# # 2250	-0.1941408	-0.4073068	-0.3454898
# # 2251	-0.1941408	-0.4073068	-0.3454898
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# # 2266	-0.1941408	-0.4073068	-0.3454898
# # 2269	-0.1941408	-0.4073068	2.8934769
# # 2270	-0.1941408	-0.4073068	-0.3454898
# # 2271	-0.1941408	-0.4073068	-0.3454898
# # 2272	-0.1941408	-0.4073068	-0.3454898
# # 2273	-0.1941408	-0.4073068	-0.3454898
# # 2275	-0.1941408	-0.4073068	-0.3454898
# # 2276	-0.1941408	2.4543334	2.8934769
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# # 2278	-0.1941408	-0.4073068	-0.3454898
# # 2280	-0.1941408	-0.4073068	-0.3454898
# # 2281	-0.1941408	-0.4073068	-0.3454898
# # 2284	-0.1941408	-0.4073068	-0.3454898
# # 2285	-0.1941408	2.4543334	-0.3454898
# # 2286	5.1491839	-0.4073068	2.8934769

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## 2289	-0.1941408	-0.4073068	2.8934769
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## 2303	-0.1941408	-0.4073068	-0.3454898
## 2304	-0.1941408	-0.4073068	-0.3454898
## 2306	-0.1941408	2.4543334	-0.3454898
## 2307	-0.1941408	-0.4073068	-0.3454898
## 2308	-0.1941408	-0.4073068	2.8934769
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## 2316	-0.1941408	-0.4073068	2.8934769
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## 2352	-0.1941408	-0.4073068	-0.3454898
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## 2360	-0.1941408	2.4543334	-0.3454898
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## 2362	-0.1941408	2.4543334	-0.3454898
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## 2364	-0.1941408	-0.4073068	-0.3454898
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## 2371	-0.1941408	-0.4073068	-0.3454898
## 2372	-0.1941408	-0.4073068	-0.3454898
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## 2380	-0.1941408	2.4543334	-0.3454898
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## 2382	-0.1941408	-0.4073068	-0.3454898
## 2383	-0.1941408	2.4543334	-0.3454898
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## 2385	-0.1941408	-0.4073068	-0.3454898
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## 2402	-0.1941408	2.4543334	-0.3454898
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## 2405	-0.1941408	2.4543334	-0.3454898
## 2406	-0.1941408	2.4543334	-0.3454898
## 2407	-0.1941408	-0.4073068	2.8934769
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## 2482	-0.1941408	-0.4073068	2.8934769

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# # 2490	-0.1941408	2.4543334	-0.3454898
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# # 2499	-0.1941408	2.4543334	-0.3454898
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# # 2506	-0.1941408	-0.4073068	-0.3454898
# # 2508	-0.1941408	-0.4073068	-0.3454898
# # 2509	-0.1941408	-0.4073068	-0.3454898
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## 2670	-0.1941408	2.4543334	-0.3454898
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## 2675	-0.1941408	-0.4073068	-0.3454898
## 2679	-0.1941408	-0.4073068	-0.3454898
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## 2687	-0.1941408	-0.4073068	-0.3454898
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## 2692	-0.1941408	-0.4073068	-0.3454898
## 2695	-0.1941408	-0.4073068	-0.3454898
## 2696	-0.1941408	2.4543334	-0.3454898
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## 2713	-0.1941408	2.4543334	-0.3454898
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## 2719	-0.1941408	-0.4073068	-0.3454898
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## 2726	-0.1941408	-0.4073068	-0.3454898
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## 2757	-0.1941408	-0.4073068	-0.3454898
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## 2794	-0.1941408	-0.4073068	-0.3454898
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## 2813	-0.1941408	-0.4073068	-0.3454898
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## 2843	-0.1941408	-0.4073068	-0.3454898
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## 2856	-0.1941408	-0.4073068	-0.3454898
## 2857	-0.1941408	2.4543334	-0.3454898
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## 2908	5.1491839	-0.4073068	-0.3454898
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## 2980	-0.1941408	-0.4073068	-0.3454898
## 2981	-0.1941408	-0.4073068	2.8934769
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## 2985	-0.1941408	-0.4073068	-0.3454898
## 2986	-0.1941408	-0.4073068	-0.3454898
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## 2992	-0.1941408	2.4543334	-0.3454898
## 2994	-0.1941408	-0.4073068	-0.3454898
## 2995	5.1491839	-0.4073068	-0.3454898
## 2996	5.1491839	-0.4073068	2.8934769
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## DestinationASIA	DestinationEUROPE		
## 3	-2.1461456	-0.2778013	
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## 6	0.4657963	-0.2778013	
## 7	-2.1461456	-0.2778013	
## 8	0.4657963	-0.2778013	

## 9	0.4657963	-0.2778013
## 10	0.4657963	-0.2778013
## 11	0.4657963	-0.2778013
## 13	-2.1461456	3.5984956
## 15	0.4657963	-0.2778013
## 16	0.4657963	-0.2778013
## 18	-2.1461456	-0.2778013
## 21	0.4657963	-0.2778013
## 22	0.4657963	-0.2778013
## 23	0.4657963	-0.2778013
## 24	0.4657963	-0.2778013
## 25	0.4657963	-0.2778013
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## 32	0.4657963	-0.2778013
## 35	-2.1461456	-0.2778013
## 36	0.4657963	-0.2778013
## 38	-2.1461456	3.5984956
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## 40	0.4657963	-0.2778013
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## 90	0.4657963	-0.2778013
## 93	0.4657963	-0.2778013
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## 95	0.4657963	-0.2778013
## 96	0.4657963	-0.2778013
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## 98	-2.1461456	3.5984956
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## 105	0.4657963	-0.2778013
## 106	-2.1461456	3.5984956
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## 137	0.4657963	-0.2778013
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## 147	0.4657963	-0.2778013
## 148	0.4657963	-0.2778013
## 149	-2.1461456	3.5984956
## 150	0.4657963	-0.2778013
## 151	0.4657963	-0.2778013

## 153	-2.1461456	3.5984956
## 154	0.4657963	-0.2778013
## 155	-2.1461456	3.5984956
## 157	-2.1461456	-0.2778013
## 158	-2.1461456	3.5984956
## 159	0.4657963	-0.2778013
## 162	-2.1461456	-0.2778013
## 163	0.4657963	-0.2778013
## 164	0.4657963	-0.2778013
## 165	0.4657963	-0.2778013
## 166	-2.1461456	3.5984956
## 167	0.4657963	-0.2778013
## 168	0.4657963	-0.2778013
## 169	0.4657963	-0.2778013
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## 172	-2.1461456	-0.2778013
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## 2835	0.4657963	-0.2778013
## 2837	0.4657963	-0.2778013
## 2838	0.4657963	-0.2778013
## 2839	0.4657963	-0.2778013
## 2840	0.4657963	-0.2778013
## 2843	0.4657963	-0.2778013
## 2845	-2.1461456	3.5984956
## 2846	0.4657963	-0.2778013
## 2847	0.4657963	-0.2778013
## 2848	0.4657963	-0.2778013
## 2850	0.4657963	-0.2778013
## 2852	0.4657963	-0.2778013
## 2853	-2.1461456	-0.2778013
## 2855	0.4657963	-0.2778013
## 2856	0.4657963	-0.2778013
## 2857	0.4657963	-0.2778013
## 2860	0.4657963	-0.2778013
## 2861	0.4657963	-0.2778013
## 2862	0.4657963	-0.2778013
## 2864	0.4657963	-0.2778013
## 2865	0.4657963	-0.2778013
## 2866	0.4657963	-0.2778013
## 2867	0.4657963	-0.2778013
## 2868	0.4657963	-0.2778013
## 2869	0.4657963	-0.2778013
## 2870	0.4657963	-0.2778013
## 2871	0.4657963	-0.2778013
## 2872	0.4657963	-0.2778013
## 2873	0.4657963	-0.2778013
## 2875	-2.1461456	-0.2778013
## 2877	-2.1461456	-0.2778013
## 2878	0.4657963	-0.2778013
## 2879	0.4657963	-0.2778013

## 2880	0.4657963	-0.2778013
## 2881	0.4657963	-0.2778013
## 2883	-2.1461456	-0.2778013
## 2884	-2.1461456	-0.2778013
## 2885	0.4657963	-0.2778013
## 2887	0.4657963	-0.2778013
## 2888	0.4657963	-0.2778013
## 2889	0.4657963	-0.2778013
## 2890	-2.1461456	-0.2778013
## 2891	0.4657963	-0.2778013
## 2892	-2.1461456	-0.2778013
## 2893	0.4657963	-0.2778013
## 2894	0.4657963	-0.2778013
## 2895	0.4657963	-0.2778013
## 2896	0.4657963	-0.2778013
## 2898	0.4657963	-0.2778013
## 2901	0.4657963	-0.2778013
## 2903	0.4657963	-0.2778013
## 2904	0.4657963	-0.2778013
## 2905	0.4657963	-0.2778013
## 2906	-2.1461456	-0.2778013
## 2907	0.4657963	-0.2778013
## 2908	0.4657963	-0.2778013
## 2909	0.4657963	-0.2778013
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## 2912	0.4657963	-0.2778013
## 2913	0.4657963	-0.2778013
## 2914	0.4657963	-0.2778013
## 2916	0.4657963	-0.2778013
## 2918	0.4657963	-0.2778013
## 2920	-2.1461456	-0.2778013
## 2921	0.4657963	-0.2778013
## 2922	0.4657963	-0.2778013

## 2923	0.4657963	-0.2778013
## 2924	0.4657963	-0.2778013
## 2925	0.4657963	-0.2778013
## 2926	0.4657963	-0.2778013
## 2927	-2.1461456	-0.2778013
## 2928	0.4657963	-0.2778013
## 2929	-2.1461456	3.5984956
## 2930	0.4657963	-0.2778013
## 2931	0.4657963	-0.2778013
## 2933	0.4657963	-0.2778013
## 2934	0.4657963	-0.2778013
## 2935	0.4657963	-0.2778013
## 2936	0.4657963	-0.2778013
## 2938	0.4657963	-0.2778013
## 2939	0.4657963	-0.2778013
## 2940	0.4657963	-0.2778013
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## 2945	-2.1461456	-0.2778013
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## 2947	0.4657963	-0.2778013
## 2948	0.4657963	-0.2778013
## 2950	0.4657963	-0.2778013
## 2954	0.4657963	-0.2778013
## 2955	0.4657963	-0.2778013
## 2956	0.4657963	-0.2778013
## 2957	0.4657963	-0.2778013
## 2959	0.4657963	-0.2778013
## 2961	0.4657963	-0.2778013
## 2962	0.4657963	-0.2778013
## 2964	0.4657963	-0.2778013
## 2965	0.4657963	-0.2778013
## 2966	0.4657963	-0.2778013
## 2967	0.4657963	-0.2778013

```

## 2968      -2.1461456      -0.2778013
## 2969      -2.1461456      -0.2778013
## 2970       0.4657963      -0.2778013
## 2974       0.4657963      -0.2778013
## 2976       0.4657963      -0.2778013
## 2977       0.4657963      -0.2778013
## 2979       0.4657963      -0.2778013
## 2980       0.4657963      -0.2778013
## 2981      -2.1461456      -0.2778013
## 2982       0.4657963      -0.2778013
## 2985       0.4657963      -0.2778013
## 2986       0.4657963      -0.2778013
## 2987      -2.1461456      3.5984956
## 2988       0.4657963      -0.2778013
## 2989       0.4657963      -0.2778013
## 2992       0.4657963      -0.2778013
## 2994       0.4657963      -0.2778013
## 2995       0.4657963      -0.2778013
## 2996      -2.1461456      -0.2778013
## 2997       0.4657963      -0.2778013
## 2998       0.4657963      -0.2778013
## 
## $exclude
## NULL
## 
## $net.result
## $net.result[[1]]
##           [,1]      [,2]
## 3     0.9632751 0.03682459
## 4     0.9860332 0.01402567
## 6     0.8091142 0.19125802
## 7     0.8826427 0.11743897
## 8     0.9860319 0.01402695
## 9     0.9860396 0.01401928

```

```
## 10 0.9860323 0.01402663
## 11 0.2139784 0.78559294
## 13 0.4549989 0.54455325
## 15 0.7390584 0.26074927
## 16 0.2126651 0.78690727
## 18 0.6718990 0.32783474
## 21 0.9860320 0.01402688
## 22 0.3880176 0.61181107
## 23 0.3781759 0.62135007
## 24 0.9860320 0.01402687
## 25 0.8091726 0.19119953
## 26 0.9860332 0.01402565
## 27 0.7443740 0.25543976
## 28 0.8538232 0.14619742
## 29 0.9119297 0.08831140
## 30 0.8093252 0.19104684
## 31 0.9089806 0.09126577
## 32 0.1707193 0.82890648
## 35 0.6012535 0.39840723
## 36 0.3264706 0.67305379
## 38 0.9144899 0.08574655
## 39 0.8955228 0.10474632
## 40 0.8598404 0.14018932
## 41 0.3933530 0.60648351
## 44 0.9860752 0.01398353
## 45 0.9860336 0.01402533
## 47 0.2147742 0.78479646
## 49 0.9125024 0.08773770
## 50 0.9074676 0.09278147
## 52 0.3483196 0.65145299
## 53 0.1480991 0.85154180
## 55 0.9860345 0.01402434
## 56 0.4141083 0.58575533
## 57 0.5895727 0.41007714
```

```
## 58 0.9860320 0.01402693
## 59 0.8354213 0.16456981
## 60 0.3952520 0.60458420
## 63 0.9063765 0.09387449
## 65 0.5136594 0.48592826
## 66 0.5137004 0.48588733
## 67 0.1544048 0.84522788
## 69 0.9501948 0.04990531
## 71 0.7731742 0.22669951
## 76 0.9860343 0.01402455
## 77 0.9860488 0.01401004
## 78 0.3013273 0.69820036
## 79 0.3879914 0.61153649
## 80 0.9860355 0.01402334
## 81 0.9860382 0.01402070
## 82 0.9153152 0.08491971
## 83 0.7441486 0.25566474
## 87 0.9582469 0.04184989
## 90 0.9860417 0.01401721
## 93 0.9860420 0.01401687
## 94 0.1483431 0.85129747
## 95 0.9860323 0.01402658
## 96 0.9071233 0.09312634
## 97 0.9860576 0.01400123
## 98 0.5017935 0.49778600
## 99 0.7446834 0.25513100
## 100 0.7441628 0.25565049
## 102 0.9323979 0.06773055
## 103 0.1485432 0.85109711
## 104 0.1480991 0.85154180
## 105 0.9789491 0.18084393
## 106 0.4820500 0.51757831
## 107 0.4306351 0.56891301
## 108 0.7716750 0.22819573
```

```
## 109 0.9415087 0.05859232
## 110 0.9247261 0.07549081
## 111 0.6034049 0.39674433
## 112 0.9860377 0.01402121
## 113 0.4610902 0.53846506
## 115 0.7562739 0.24356491
## 118 0.4424455 0.55746443
## 119 0.6583952 0.34132327
## 120 0.8095378 0.19083403
## 121 0.3981571 0.60168657
## 122 0.9126545 0.08752105
## 124 0.9860398 0.01401910
## 125 0.8078437 0.19209791
## 126 0.9860390 0.01401983
## 127 0.6158132 0.38386157
## 128 0.9633679 0.03672536
## 130 0.9213086 0.07891501
## 131 0.9860644 0.01399440
## 133 0.9860320 0.01402694
## 134 0.1481068 0.85153406
## 135 0.8091535 0.19121863
## 136 0.7498172 0.25000797
## 137 0.7429359 0.25687647
## 138 0.5139204 0.48566750
## 141 0.9860361 0.01402282
## 143 0.9860322 0.01402669
## 144 0.4856167 0.51395251
## 146 0.9860371 0.01402178
## 147 0.9812299 0.01883966
## 148 0.7441447 0.25566865
## 149 0.8495439 0.15065934
## 150 0.5472558 0.45281143
## 151 0.7441381 0.25567521
## 153 0.9145035 0.08573288
```

```
## 154 0.7441219 0.25569135
## 155 0.9144899 0.08574651
## 157 0.9461705 0.05393988
## 158 0.9231418 0.07706228
## 159 0.9323719 0.06772757
## 162 0.7160046 0.28380149
## 163 0.9860991 0.01395953
## 164 0.9860741 0.01398468
## 165 0.3826574 0.61716354
## 166 0.5173161 0.48227423
## 167 0.7510251 0.24880265
## 168 0.6317486 0.36794210
## 169 0.2123919 0.78718067
## 171 0.4521710 0.54775474
## 172 0.9194347 0.08079247
## 174 0.7444109 0.25540297
## 175 0.7441439 0.25566936
## 176 0.9530737 0.04707945
## 177 0.4048678 0.59466431
## 178 0.7475693 0.25225109
## 179 0.9756204 0.02445911
## 180 0.9855486 0.01451148
## 182 0.7574434 0.24239806
## 183 0.5076249 0.49195860
## 185 0.7441531 0.25566026
## 186 0.3900990 0.60973278
## 188 0.7442350 0.25557841
## 189 0.5110181 0.48856772
## 190 0.9113760 0.08886607
## 192 0.9253417 0.07487397
## 194 0.9612697 0.04694420
## 195 0.3586788 0.64110801
## 196 0.9860413 0.01401756
## 197 0.1480991 0.85154181
```

```
## 199  0.9860741 0.01398461
## 200  0.9790418 0.02103633
## 201  0.5138993 0.48568854
## 203  0.7442555 0.25555809
## 204  0.9860321 0.01402679
## 208  0.3061811 0.69334564
## 209  0.9105549 0.08968874
## 210  0.9145037 0.08573274
## 211  0.8135072 0.18686125
## 212  0.9144908 0.08574561
## 214  0.7445077 0.25530633
## 215  0.9149758 0.08525977
## 219  0.1480992 0.85154175
## 220  0.9860367 0.01402218
## 222  0.9852969 0.01476378
## 223  0.9789554 0.18079849
## 224  0.9262994 0.07391429
## 226  0.9860809 0.01397780
## 228  0.4961901 0.50379573
## 230  0.3749724 0.62455303
## 231  0.3079012 0.69162512
## 232  0.9011740 0.09892398
## 233  0.8913615 0.10891423
## 235  0.9159356 0.08429811
## 237  0.7441533 0.25566000
## 238  0.9860781 0.01398059
## 239  0.1480994 0.85154155
## 242  0.7441559 0.25565740
## 244  0.9860409 0.01401795
## 246  0.7441549 0.25565843
## 247  0.6785495 0.32167980
## 248  0.2932829 0.70624676
## 249  0.8879558 0.11232525
## 250  0.9145885 0.08564779
```

```
## 252 0.8416136 0.15841653
## 253 0.8703673 0.12993899
## 254 0.1480991 0.85154180
## 255 0.9844953 0.01556722
## 256 0.5477420 0.45232625
## 258 0.9034765 0.09677944
## 259 0.1480991 0.85154180
## 260 0.7548277 0.24500826
## 261 0.7534526 0.24638015
## 266 0.9615711 0.04375510
## 267 0.2237909 0.77577300
## 268 0.1480991 0.85154181
## 269 0.2136996 0.78587191
## 270 0.9612696 0.04694518
## 271 0.9860688 0.01398998
## 273 0.9860365 0.01402233
## 274 0.9860341 0.01402474
## 275 0.7734200 0.22645442
## 276 0.9860448 0.01401410
## 277 0.9146693 0.08556676
## 278 0.8090578 0.19131447
## 279 0.9860411 0.01401778
## 280 0.9860418 0.01401706
## 281 0.4761081 0.52345540
## 283 0.9860335 0.01402544
## 284 0.2138759 0.78569548
## 286 0.9085845 0.09166260
## 287 0.7441646 0.25564878
## 288 0.2139638 0.78560758
## 289 0.9860335 0.01402534
## 292 0.7441672 0.25564613
## 295 0.9860347 0.01402415
## 296 0.8091415 0.19123066
## 297 0.9860386 0.01402031
```

```
## 298 0.2150019 0.78456861
## 299 0.9197476 0.08041949
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## 301 0.9096443 0.09060090
## 302 0.4428793 0.55669283
## 303 0.9860325 0.01402643
## 305 0.2259760 0.77358632
## 306 0.9860175 0.01404141
## 308 0.9860464 0.01401248
## 310 0.2655637 0.73397595
## 311 0.3628288 0.63669507
## 312 0.9860346 0.01402430
## 314 0.9860648 0.01399395
## 315 0.5136718 0.48591585
## 316 0.7441827 0.25563063
## 317 0.9860347 0.01402416
## 318 0.1480991 0.85154179
## 320 0.7917934 0.20846376
## 321 0.8090582 0.19131407
## 322 0.9857206 0.01433900
## 323 0.7442215 0.25559186
## 324 0.9822487 0.01782151
## 325 0.4376470 0.56225599
## 328 0.4599384 0.53961627
## 329 0.1646529 0.83498414
## 330 0.9860644 0.01399440
## 332 0.4150388 0.58449669
## 334 0.8048828 0.19505328
## 335 0.7448524 0.25496232
## 336 0.9840489 0.01601467
## 338 0.5201215 0.47990845
## 340 0.8091163 0.19125583
## 341 0.2130101 0.78656206
## 342 0.9860729 0.01398587
```

```
## 344 0.7465595 0.25325906
## 345 0.9860512 0.01400762
## 346 0.9860384 0.01402051
## 349 0.7468936 0.25292561
## 351 0.1490581 0.85058250
## 352 0.6915729 0.30818897
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## 358 0.8703380 0.12996832
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## 361 0.9789550 0.18080180
## 362 0.7490285 0.25079505
## 364 0.9804524 0.01962157
## 367 0.7441436 0.25566971
## 368 0.3106427 0.68908082
## 370 0.9860324 0.01402650
## 372 0.7848671 0.21503023
## 373 0.7442241 0.25558928
## 375 0.9860713 0.01398741
## 377 0.7444896 0.25532435
## 378 0.6380379 0.36165923
## 379 0.9860355 0.01402338
## 380 0.9860361 0.01402277
## 381 0.9175026 0.08272823
## 382 0.3989921 0.60053845
## 383 0.3396002 0.66016073
## 386 0.3842477 0.61527941
## 388 0.8634878 0.13682750
## 389 0.2085749 0.79100081
## 391 0.6165490 0.38312654
## 392 0.9214956 0.07872756
## 393 0.8972980 0.10296832
## 395 0.3963093 0.60353065
## 396 0.8291364 0.17121771
```

```
## 397 0.3513094 0.64821402
## 398 0.9164894 0.08374330
## 402 0.7442264 0.25558704
## 403 0.7442561 0.25555737
## 404 0.9860564 0.01400245
## 405 0.4937235 0.50585080
## 406 0.7035131 0.29626972
## 407 0.9860406 0.01401830
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## 412 0.9860688 0.01398998
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## 434 0.9860320 0.01402687
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## 436 0.4847195 0.51484917
## 437 0.2138215 0.78576975
## 438 0.9860204 0.01403852
```

```
## 439 0.4902652 0.50969849
## 442 0.7441559 0.25565743
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## 448 0.9789447 0.18087569
## 450 0.9860564 0.01400234
## 451 0.9287990 0.07140011
## 452 0.7442212 0.25559232
## 455 0.9082510 0.09199672
## 456 0.7464436 0.25337468
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## 458 0.5976198 0.40253912
## 460 0.9018811 0.09837760
## 462 0.2446248 0.75492551
## 464 0.3722630 0.62754147
## 465 0.7441369 0.25567643
## 466 0.9860385 0.01402033
## 467 0.9104443 0.08979949
## 468 0.8092104 0.19116175
## 469 0.3144607 0.68506448
## 470 0.7452451 0.25457056
## 473 0.6858589 0.31441511
## 474 0.7788732 0.22101218
## 475 0.9860450 0.01401380
## 476 0.4046693 0.59518404
## 477 0.4313709 0.56818003
## 478 0.1480991 0.85154181
## 479 0.2141629 0.78540824
## 480 0.6954257 0.30434275
## 481 0.1490803 0.85055931
## 482 0.8744760 0.12582471
## 485 0.7444673 0.25534669
## 487 0.9613871 0.04599625
## 488 0.9860440 0.01401482
```

```
## 489  0.9300315 0.07017458
## 490  0.9860813 0.01397746
## 491  0.5521572 0.44792193
## 493  0.4307877 0.56875771
## 495  0.2882007 0.71150009
## 496  0.9860422 0.01401668
## 497  0.9860357 0.01402315
## 500  0.3827464 0.61707407
## 502  0.7441891 0.25562429
## 503  0.7937106 0.20620411
## 504  0.9860426 0.01401629
## 506  0.4807022 0.51886400
## 507  0.7438648 0.25594817
## 508  0.5136968 0.48589095
## 509  0.9357069 0.06448725
## 510  0.9860414 0.01401742
## 512  0.1480991 0.85154180
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## 515  0.8148858 0.18506907
## 516  0.4799504 0.52001297
## 517  0.9740907 0.02599511
## 519  0.1486160 0.85102447
## 520  0.9778228 0.02225872
## 521  0.1511875 0.84845187
## 522  0.9860439 0.01401500
## 523  0.9198754 0.08035095
## 524  0.5126570 0.48735356
## 526  0.7455730 0.25424338
## 527  0.9860327 0.01402622
## 529  0.7441544 0.25565893
## 531  0.1684411 0.83119301
## 532  0.3672257 0.63229861
## 533  0.9860344 0.01402445
## 535  0.4813927 0.51817393
```

```
## 536 0.7441365 0.25567679
## 537 0.9860332 0.01402564
## 538 0.9789641 0.18073653
## 541 0.2094164 0.79015860
## 542 0.5136682 0.48591953
## 544 0.9860332 0.01402570
## 545 0.9860346 0.01402433
## 546 0.2457631 0.75389996
## 547 0.5124889 0.48709795
## 548 0.3589933 0.64078986
## 550 0.9144924 0.08574400
## 551 0.5381566 0.46190166
## 552 0.7260046 0.27378842
## 553 0.8586413 0.14141241
## 554 0.9860424 0.01401649
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## 575 0.9215616 0.07866152
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## 2066 0.9860713 0.01398741
## 2067 0.9860320 0.01402691
## 2068 0.4161570 0.58337910
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## 2071 0.9860439 0.01401496
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## 2073 0.9185321 0.08169682
## 2074 0.1827678 0.81683208
## 2076 0.6752392 0.32449863
## 2077 0.4707006 0.52925495
## 2078 0.3898278 0.61000260
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## 2082 0.1480991 0.85154181
## 2083 0.9860319 0.01402695
## 2084 0.9144892 0.08574721
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## 2090 0.8634648 0.13657021
## 2091 0.5138977 0.48569014
## 2092 0.3803440 0.61947359
## 2093 0.1484216 0.85121884
## 2094 0.2121486 0.78742421
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## 2096 0.8095584 0.19081343
## 2097 0.7442958 0.25551853
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## 2815 0.9319652 0.06820824
## 2816 0.9003760 0.09988515
## 2817 0.7601957 0.24015250
## 2818 0.9836241 0.01644041
## 2820 0.4258095 0.57407433
## 2821 0.9860681 0.01399065
## 2822 0.7441304 0.25568296
## 2823 0.1480995 0.85154140
## 2824 0.9860337 0.01402523
## 2826 0.9860512 0.01400760
## 2827 0.9860417 0.01401715
## 2828 0.9425216 0.05757934
## 2829 0.7441486 0.25566475
## 2831 0.9860568 0.01400197
## 2832 0.2677526 0.73192831
## 2833 0.7604286 0.23968276
## 2834 0.9860409 0.01401792
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## 2835 0.1555276 0.84410359
## 2837 0.2995761 0.69995196
## 2838 0.9612701 0.04693958
## 2839 0.9860403 0.01401853
## 2840 0.3893842 0.61044651
## 2843 0.7441560 0.25565734
## 2845 0.5666696 0.43311807
## 2846 0.9612696 0.04694520
## 2847 0.7473694 0.25245069
## 2848 0.9860356 0.01402324
## 2850 0.3799881 0.61982892
## 2852 0.9088017 0.09144499
## 2853 0.1481296 0.85151130
## 2855 0.9860374 0.01402145
## 2856 0.5119351 0.48808438
## 2857 0.1481775 0.85146331
## 2860 0.9860322 0.01402674
## 2861 0.7441459 0.25566745
## 2862 0.9860669 0.01399188
## 2864 0.3792206 0.62059538
## 2865 0.9860345 0.01402434
## 2866 0.9860372 0.01402167
## 2867 0.3261194 0.67340429
## 2868 0.9860320 0.01402687
## 2869 0.9860836 0.01397511
## 2870 0.3837032 0.61611918
## 2871 0.9860741 0.01398463
## 2872 0.9860991 0.01395953
## 2873 0.4128633 0.58667741
## 2875 0.9204889 0.07973623
## 2877 0.7445367 0.25527751
## 2878 0.5680090 0.43162163
## 2879 0.7994723 0.20045341
## 2880 0.9107487 0.08949459
```

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## 2881 0.9778844 0.18841998
## 2883 0.9703889 0.02970245
## 2884 0.6691367 0.33059369
## 2885 0.9860326 0.01402634
## 2887 0.9860322 0.01402671
## 2888 0.9431869 0.05691408
## 2889 0.2064253 0.79315220
## 2890 0.6896695 0.31008929
## 2891 0.7441565 0.25565690
## 2892 0.8046629 0.19530819
## 2893 0.1480991 0.85154181
## 2894 0.8660846 0.13409466
## 2895 0.7709908 0.22887848
## 2896 0.9860355 0.01402336
## 2898 0.7446401 0.25517433
## 2901 0.3851715 0.61464942
## 2903 0.3112841 0.68844111
## 2904 0.3860649 0.61376087
## 2905 0.9860170 0.01404192
## 2906 0.5136698 0.48591787
## 2907 0.1480991 0.85154180
## 2908 0.3810520 0.61876658
## 2909 0.9846669 0.01539519
## 2910 0.5017986 0.49778093
## 2911 0.3538871 0.64588511
## 2912 0.3884413 0.61108871
## 2913 0.9860432 0.01401569
## 2914 0.2618354 0.73770593
## 2916 0.9789556 0.18079707
## 2918 0.9243264 0.07577003
## 2920 0.9806978 0.01937568
## 2921 0.8684066 0.13182782
## 2922 0.9860583 0.01400055
## 2923 0.7442213 0.25559206
```

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## 2924 0.9860329 0.01402599
## 2925 0.1480991 0.85154177
## 2926 0.7441506 0.25566271
## 2927 0.5979022 0.40175544
## 2928 0.4362599 0.56364080
## 2929 0.9336976 0.06649880
## 2930 0.5999937 0.40014949
## 2931 0.8081069 0.19183544
## 2933 0.2137979 0.78577355
## 2934 0.7588401 0.24100413
## 2935 0.4965598 0.50343735
## 2936 0.9860514 0.01400744
## 2938 0.3963408 0.60349970
## 2939 0.3848277 0.61499639
## 2940 0.3860426 0.61378195
## 2941 0.9860418 0.01401706
## 2943 0.9680101 0.03208431
## 2945 0.6780197 0.32220912
## 2946 0.4533501 0.54654533
## 2947 0.2121148 0.78745801
## 2948 0.9496492 0.05045104
## 2950 0.2600613 0.73961105
## 2954 0.9079684 0.09227980
## 2955 0.5357156 0.46432575
## 2956 0.7441420 0.25567134
## 2957 0.7445472 0.25526688
## 2959 0.4722740 0.52768097
## 2961 0.3989783 0.60086641
## 2962 0.3333329 0.66641880
## 2964 0.5105853 0.48943051
## 2965 0.9860735 0.01398530
## 2966 0.9860320 0.01402694
## 2967 0.9789687 0.18070327
## 2968 0.9151356 0.08509962
```

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## 2969 0.8092065 0.19116560
## 2970 0.9119852 0.08825577
## 2974 0.7566970 0.24314252
## 2976 0.4565165 0.54341571
## 2977 0.4835753 0.51639583
## 2979 0.1484703 0.85117024
## 2980 0.9861041 0.01395452
## 2981 0.9035376 0.09656222
## 2982 0.1480991 0.85154179
## 2985 0.9860737 0.01398509
## 2986 0.9860374 0.01402146
## 2987 0.5136432 0.48594446
## 2988 0.2283596 0.77120615
## 2989 0.7450564 0.25475888
## 2992 0.2139482 0.78562312
## 2994 0.9759364 0.02415536
## 2995 0.3605032 0.63928609
## 2996 0.3812054 0.61861338
## 2997 0.3849039 0.61492029
## 2998 0.7442330 0.25558048
##
##
## $weights
## $weights[[1]]
## $weights[[1]][[1]]
## [,1]      [,2]      [,3]      [,4]
## [1,] 2.0874759570 -3.9114702 5.2848317 -4.82142127
## [2,] -0.1813383125 -1.9787207 -0.0266325 0.75057861
## [3,] 0.0038728898  9.5132730 -0.7120544 -3.68973606
## [4,] 1.1610880209  4.9602741 -1.1752199 -0.58335037
## [5,] 1.6748896253 -6.4264396  1.0735615  0.33387062
## [6,] 0.7277832569 -10.3566442 -4.6402249 2.61053110
## [7,] -0.4787421959  0.5691611 -0.2035187 -0.94558922
## [8,] 2.8015937759 -0.4256248  1.2211447 -0.38216778

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## [9,] -4.0710632075 37.2132949 2.8259271 0.23621788
## [10,] 0.1599496756 1.3965690 0.9310716 -0.07765926
## [11,] 0.2912972408 -1.5341675 -0.7301185 1.28076929
## [12,] -2.8295868834 -26.4155511 -10.8992181 -6.22629138
## [13,] 9.0991632008 7.0280528 1.4270341 -3.82119198
## [14,] 0.8175806553 30.3004282 -1.2817549 0.32775640
## [15,] 0.0009321126 -15.9102423 3.9311550 4.89543047
## [16,] -0.9792435031 1.6506759 2.2710551 -0.99196754
## [17,] -2.5923782235 3.7456997 -1.6348162 -3.39443935
## [18,] 2.3414219984 -1.3425786 -1.7288453 -0.94598485
## [19,] -1.0258218330 6.6302311 0.2990286 -1.23185797
## [20,] -0.4388874748 -39.8621926 -1.7287032 0.22625746
## [21,] 0.7752779131 17.9351740 4.0459697 1.33107606
##
## $weights[[1]][[2]]
## [,1]      [,2]      [,3]
## [1,] -5.153581 0.602870 2.377586
## [2,] 23.280031 -2.268242 217.720948
## [3,] 5.588375 -6.840135 276.868909
## [4,] -3.282263 9.081392 -54.875860
## [5,] -38.316682 -1.290919 182.338263
##
## $weights[[1]][[3]]
## [,1]      [,2]
## [1,] 1.0211831 1.305850
## [2,] -3.1936927 3.188442
## [3,] 2.8195356 -2.817672
## [4,] 0.4223507 -2.746977
##
## $generalized.weights
## $generalized.weights[[1]]
## [,1]      [,2]      [,3]      [,4]      [,5]

```

## 3	2.466916e-01	-2.564606e-01	-1.290829e+00	-1.781667e+00	-6.056247e-01
## 4	1.664204e-05	-3.205916e-07	-1.065989e-04	-1.537798e-04	-6.684953e-05
## 6	6.653885e-05	-5.921775e-06	-4.224293e-04	-6.027434e-04	-2.583067e-04
## 7	4.091473e-01	-4.747634e-02	-2.575198e+00	-3.702373e+00	-1.582784e+00
## 8	-2.161800e-07	1.165974e-06	4.762847e-08	-3.008688e-07	-9.145073e-07
## 9	9.198486e-05	-1.932619e-06	-5.890124e-04	-8.496621e-04	-3.692410e-04
## 10	4.151711e-06	4.263434e-07	-2.720438e-05	-3.937292e-05	-1.753033e-05
## 11	1.132656e-04	-2.561924e-06	-7.251104e-04	-1.045779e-03	-4.543049e-04
## 13	-1.320700e-01	6.492373e-01	1.026449e-01	-5.874715e-02	-4.593429e-01
## 15	1.023199e-01	-4.748635e-01	-2.705822e-01	2.880522e-01	5.026131e-01
## 16	1.422417e-02	-6.834308e-02	-3.569288e-02	4.608282e-02	7.436494e-02
## 18	3.558667e-02	-7.509660e-04	-2.278678e-01	-3.287060e-01	-1.428376e-01
## 21	-4.705099e-07	5.586940e-06	-3.610617e-06	-6.742390e-06	-7.222524e-06
## 22	-8.965957e-04	-2.398039e-02	-3.958083e-02	3.615212e-02	-1.562736e-01
## 23	5.612400e-02	-2.840351e-01	-8.935920e-01	-1.899471e-01	-2.109669e+00
## 24	9.935580e-07	3.447994e-07	-6.788656e-06	-9.902438e-06	-4.564817e-06
## 25	3.937195e-04	-1.539276e-03	-1.274953e-03	3.565411e-04	1.377618e-03
## 26	1.683423e-05	-2.233659e-07	-1.079573e-04	-1.557583e-04	-6.780644e-05
## 27	3.574225e-03	-1.547309e-02	-5.189974e-03	-2.558847e-03	9.217166e-03
## 28	3.289517e+00	-1.462847e+01	-4.329414e+00	-1.587426e+00	9.080185e+00
## 29	8.481392e-03	-1.697367e-04	-5.434972e-02	-7.830041e-02	-3.401957e-02
## 30	-3.898129e-04	1.950212e-03	2.638738e-04	-2.405621e-04	-1.407927e-03
## 31	1.610627e-02	-1.052615e-02	-9.484388e-02	-1.221958e-01	-4.496517e-02
## 32	5.468267e-02	-1.576287e-01	-6.443635e-01	-3.230337e-01	-1.258405e+00
## 35	4.091438e-02	-8.737791e-04	-2.619700e-01	-3.778963e-01	-1.642059e-01
## 36	7.053237e-02	-2.264420e-03	-4.530431e-01	-6.505760e-01	-2.881270e-01
## 38	1.529519e-06	5.643299e-06	-1.631722e-05	-2.535384e-05	-1.482609e-05
## 39	2.326425e-01	-1.035521e+00	-6.507543e-01	5.391971e-01	1.057370e+00
## 40	3.735050e+00	-1.783553e+01	-3.506832e+00	6.221218e-01	1.218633e+01
## 41	2.507682e-03	-5.717112e-02	-7.328642e-02	7.027838e-02	-2.295435e-01
## 44	-1.253541e-04	1.277476e-03	-6.627198e-04	-1.363717e-03	-1.448377e-03
## 45	2.091854e-05	-4.170957e-07	-1.339749e-04	-1.932685e-04	-8.400472e-05
## 47	9.687450e-04	-2.068978e-05	-6.202761e-03	-8.947591e-03	-3.887962e-03
## 49	7.019463e-03	1.634359e-03	-4.699791e-02	-6.835858e-02	-3.090017e-02

## 50	3.073515e-02	-7.300083e-02	-1.379553e-01	-9.509711e-02	1.647474e-02
## 52	2.587853e-02	-9.018002e-03	-1.771488e-01	-2.279712e-01	-1.480238e-01
## 53	8.255722e-08	-3.944342e-07	-2.089870e-07	2.616440e-07	4.272743e-07
## 55	3.329562e-05	-6.510831e-07	-2.132641e-04	-3.076480e-04	-1.337399e-04
## 56	5.200700e-02	-3.073195e-01	-8.595178e-01	-1.108401e-01	-2.109015e+00
## 57	3.713670e-02	6.429532e-03	-2.462311e-01	-3.573303e-01	-1.604970e-01
## 58	1.995843e-07	4.079273e-07	-1.754435e-06	-2.659447e-06	-1.439326e-06
## 59	2.957540e+00	-1.410812e+01	-2.793683e+00	4.636148e-01	9.627106e+00
## 60	5.301114e-02	-2.612908e-01	-7.855924e-01	-1.753696e-01	-1.824103e+00
## 63	4.712780e-02	-1.489460e-01	-1.813492e-01	-4.939987e-02	9.669219e-02
## 65	-3.265633e-05	1.755128e-04	8.091586e-06	-4.417333e-05	-1.367009e-04
## 66	8.488533e-06	1.009780e-04	-1.709065e-04	-2.785671e-04	-1.896663e-04
## 67	6.319084e-04	-7.773872e-02	-1.508270e-01	8.442615e-02	-5.203043e-01
## 69	5.324247e+00	-2.568482e+01	-4.699391e+00	1.402271e+00	1.777029e+01
## 71	7.829941e-01	-3.379722e+00	-1.148060e+00	-5.800995e-01	2.004780e+00
## 76	3.062005e-05	-5.572825e-07	-1.961810e-04	-2.830099e-04	-1.230743e-04
## 77	1.789395e-04	-3.756970e-06	-1.145857e-03	-1.652876e-03	-7.183987e-04
## 78	5.031378e-02	-9.798738e-02	-5.053665e-01	-3.522194e-01	-8.480480e-01
## 79	4.958642e-02	-3.544471e-01	-9.849740e-01	-4.763433e-02	-2.553432e+00
## 80	4.546394e-05	-6.949434e-07	-2.915516e-04	-4.204992e-04	-1.832489e-04
## 81	7.625053e-05	-1.571907e-06	-4.883770e-04	-7.044062e-04	-3.063499e-04
## 82	-7.608703e-03	3.767336e-02	5.603057e-03	-3.918689e-03	-2.687665e-02
## 83	4.742912e-04	-2.224694e-03	-4.917493e-04	-4.617885e-07	1.485202e-03
## 87	5.023035e+00	-2.353437e+01	-5.235073e+00	-5.641808e-02	1.569758e+01
## 90	1.137964e-04	-2.414060e-06	-7.286472e-04	-1.051088e-03	-4.567443e-04
## 93	1.172310e-04	-2.488010e-06	-7.506379e-04	-1.082809e-03	-4.705284e-04
## 94	4.556301e-04	-9.731026e-06	-2.917346e-03	-4.208322e-03	-1.828626e-03
## 95	4.868044e-06	-1.077931e-08	-3.127953e-05	-4.514767e-05	-1.968787e-05
## 96	3.676031e-02	-1.013957e-01	-1.534936e-01	-7.708372e-02	4.686377e-02
## 97	1.205807e-02	-5.559367e-02	-1.360379e-02	-1.919304e-03	3.630219e-02
## 98	-3.399460e-02	1.671524e-01	2.637485e-02	-1.520019e-02	-1.182950e-01
## 99	9.023244e-03	-3.804296e-02	-1.427674e-02	-8.476880e-03	2.170113e-02
## 100	-1.372177e-05	1.324070e-04	-6.979010e-05	-1.361360e-04	-1.627773e-04
## 102	5.505882e-01	-6.262950e-01	-4.618266e+00	-4.353542e+00	-6.121145e+00

## 103	1.201813e-04	-5.781559e-03	-8.017228e-03	7.563752e-03	-2.732274e-02
## 104	3.311909e-08	-1.569258e-07	-8.490675e-08	1.015500e-07	1.688684e-07
## 105	-8.241227e-06	-2.610331e-04	-4.219438e-04	3.844540e-04	-1.656893e-03
## 106	1.497447e+00	-7.250161e+00	-1.291482e+00	4.463955e-01	5.038153e+00
## 107	3.483229e-02	-1.712305e-01	-2.707172e-02	1.549396e-02	1.211475e-01
## 108	8.196919e-01	-3.754638e+00	-9.529787e-01	-1.790264e-01	2.430217e+00
## 109	5.435832e+00	-2.613336e+01	-4.901055e+00	1.254112e+00	1.800532e+01
## 110	-3.954236e-02	1.562544e-01	-2.447388e-01	-2.800456e-02	-9.402108e-01
## 111	2.791246e-02	-6.855476e-01	-9.581761e-01	6.758188e-01	-3.288622e+00
## 112	7.030812e-05	-8.470418e-07	-4.513812e-04	-6.508015e-04	-2.844014e-04
## 113	-1.230025e-01	6.046662e-01	9.559353e-02	-5.472082e-02	-4.278113e-01
## 115	2.907265e-01	-1.219308e+00	-4.671873e-01	-2.857811e-01	6.898843e-01
## 118	3.055413e-02	-3.125235e-01	-5.574309e-01	1.410369e-01	-1.587585e+00
## 119	3.710127e-02	-7.835075e-04	-2.375654e-01	-3.426950e-01	-1.489160e-01
## 120	-7.204586e-04	3.552290e-03	5.477346e-04	-3.414784e-04	-2.522028e-03
## 121	-1.491457e-03	-5.568086e-02	-8.950225e-02	8.177166e-02	-3.455612e-01
## 122	7.231964e-02	-1.099839e+00	-2.514227e+00	6.136504e-01	-7.544772e+00
## 124	9.398707e-05	-1.953714e-06	-6.018532e-04	-8.681968e-04	-3.772990e-04
## 125	4.841053e-01	-7.053055e-01	-2.302115e+00	-3.096960e+00	-8.823682e-01
## 126	8.603029e-05	-1.823292e-06	-5.508602e-04	-7.946274e-04	-3.453013e-04
## 127	4.250648e-02	-9.064260e-04	-2.721656e-01	-3.926041e-01	-1.705977e-01
## 128	1.983203e+00	-6.262020e+00	-5.551322e+00	-6.015709e+00	1.555134e+00
## 130	-4.756988e-02	2.497957e-01	1.863969e-02	-5.270640e-02	-1.898606e-01
## 131	7.885471e-03	-3.616403e-02	-9.116914e-03	-1.634732e-03	2.344630e-02
## 133	-5.420303e-07	2.816634e-06	2.385061e-07	-5.440715e-07	-2.139416e-06
## 134	4.024804e-06	-2.587917e-05	-7.447922e-05	-7.220256e-06	-1.879736e-04
## 135	1.588071e-04	-4.410174e-04	-6.607685e-04	-3.250575e-04	2.083279e-04
## 136	1.051829e-01	-4.022680e-01	-2.137249e-01	-1.802825e-01	1.900399e-01
## 137	4.364118e-02	-1.939421e-01	-1.210310e-01	9.785382e-02	1.961116e-01
## 138	1.672879e-04	1.023127e-04	-1.193727e-03	-1.754794e-03	-8.358816e-04
## 141	5.176354e-05	-1.083255e-06	-3.314640e-04	-4.781467e-04	-2.077888e-04
## 143	3.475155e-06	-1.210495e-08	-2.232367e-05	-3.222067e-05	-1.404567e-05
## 144	-8.242628e-02	4.243825e-01	4.200864e-02	-7.461533e-02	-3.160477e-01
## 146	6.396242e-05	-1.347307e-06	-4.095678e-04	-5.908119e-04	-2.567420e-04

## 147	7.545577e-01	-2.373213e+00	-2.123385e+00	-2.307410e+00	5.759849e-01
## 148	-5.336285e-05	2.838525e-04	1.581682e-05	-6.656419e-05	-2.210085e-04
## 149	4.781462e+00	-2.350490e+01	-3.716238e+00	2.126738e+00	1.662993e+01
## 150	2.458550e-02	-5.366953e-01	-9.840673e-01	4.455495e-01	-3.169104e+00
## 151	-6.568772e-05	3.230411e-04	5.088638e-05	-2.948026e-05	-2.287081e-04
## 153	3.458299e-05	-7.061915e-07	-2.214681e-04	-3.194819e-04	-1.388450e-04
## 154	-1.382626e-05	7.153718e-05	6.596225e-06	-1.322266e-05	-5.367812e-05
## 155	-1.158526e-05	5.790691e-05	7.905924e-06	-7.043115e-06	-4.175619e-05
## 157	3.103021e-01	-7.527493e-02	-1.907934e+00	-2.730254e+00	-1.140319e+00
## 158	1.296904e+00	-6.375389e+00	-1.007960e+00	5.768780e-01	4.510659e+00
## 159	8.127957e-01	-1.764071e-01	-5.074326e+00	-7.093211e+00	-2.955329e+00
## 162	1.161389e-01	-4.316627e-03	-7.415134e-01	-1.069058e+00	-4.633018e-01
## 163	-7.329521e-05	9.790936e-04	-6.543222e-04	-1.256547e-03	-1.202192e-03
## 164	2.687621e-04	-1.791294e-05	-1.757155e-03	-2.471802e-03	-1.195643e-03
## 165	4.652353e-02	-2.139001e-01	-1.245824e-01	1.256020e-01	2.246188e-01
## 166	2.614498e-03	-5.584135e-05	-1.674034e-02	-2.414821e-02	-1.049306e-02
## 167	1.482387e-01	-6.041718e-01	-2.583839e-01	-1.804164e-01	3.248977e-01
## 168	5.998141e-02	-8.827484e-02	-3.132426e-01	-3.271058e-01	-7.265687e-02
## 169	1.738317e-02	-8.353208e-02	-4.361090e-02	5.634567e-02	9.090149e-02
## 171	3.235915e-02	-3.487400e-01	-5.100359e-01	2.005931e-01	-1.492615e+00
## 172	1.066773e-02	2.831629e-03	-7.182078e-02	-1.045816e-01	-4.749666e-02
## 174	6.457423e-03	-3.057181e-02	-6.366241e-03	5.541731e-04	2.066398e-02
## 175	-4.770092e-05	2.382202e-04	3.244196e-05	-2.868743e-05	-1.725427e-04
## 176	4.815528e-01	-2.325648e+00	-1.222600e+00	1.578396e+00	2.464501e+00
## 177	-9.883322e-03	-6.376224e-01	-1.119893e+00	8.434349e-01	-4.141388e+00
## 178	3.193629e-02	-7.569939e-02	-1.184017e-01	-1.466295e-01	-1.373457e-02
## 179	4.163708e-01	-1.692638e-02	-2.659402e+00	-3.824821e+00	-1.655580e+00
## 180	2.839859e-01	-1.312549e+00	-3.166714e-01	-3.880640e-02	8.599267e-01
## 182	4.090878e-01	-1.984928e+00	-3.479304e-01	1.303676e-01	1.382883e+00
## 183	-1.985800e-02	1.012435e-01	1.126782e-02	-1.600208e-02	-7.461406e-02
## 185	-1.149946e-05	5.652748e-05	8.926622e-06	-5.114361e-06	-4.002794e-05
## 186	-1.124850e-03	-3.010712e-02	-4.969851e-02	4.538102e-02	-1.962030e-01
## 188	2.550969e-04	-6.882167e-04	-8.528493e-04	-1.006805e-03	9.737996e-06
## 189	-8.184158e-03	4.073066e-02	5.787743e-03	-4.626506e-03	-2.922773e-02

## 190	9.636641e-03	-4.169848e-04	-6.153622e-02	-8.844558e-02	-3.826201e-02
## 192	-8.477803e-02	4.286356e-01	5.223590e-02	-6.120698e-02	-3.130419e-01
## 194	-4.806031e-07	1.781284e-08	3.071081e-06	4.419261e-06	1.914168e-06
## 195	1.625545e-02	-3.471720e-04	-1.040818e-01	-1.501398e-01	-6.523965e-02
## 196	1.101851e-04	-2.272903e-06	-7.056045e-04	-1.017861e-03	-4.423659e-04
## 197	6.605980e-09	-3.029313e-08	-1.776689e-08	1.762153e-08	3.170068e-08
## 199	1.271412e-03	-5.280628e-03	-2.102524e-03	-1.352010e-03	2.937896e-03
## 200	-2.588865e-03	-6.925414e-02	-1.143104e-01	1.044012e-01	-4.513120e-01
## 201	-1.725582e-06	1.097773e-03	-1.250715e-03	-2.155343e-03	-1.673350e-03
## 203	3.556400e-03	-1.740452e-02	-2.854039e-03	1.427187e-03	1.224929e-02
## 204	2.106897e-06	6.787230e-08	-1.362196e-05	-1.968366e-05	-8.634026e-06
## 208	6.308486e-02	-4.941603e-03	-4.107179e-01	-5.784962e-01	-2.771424e-01
## 209	1.133508e-02	-7.891032e-04	-7.238297e-02	-1.027954e-01	-4.413499e-02
## 210	1.017659e-06	1.336781e-04	-1.601891e-04	-2.738514e-04	-2.087228e-04
## 211	9.990078e-02	-4.731329e-01	-2.563115e-01	3.058392e-01	5.090835e-01
## 212	-3.949162e-06	3.588400e-05	-1.586170e-05	-3.433450e-05	-3.894470e-05
## 214	6.192615e-03	-2.684062e-02	-8.953973e-03	-4.369223e-03	1.602133e-02
## 215	-1.826204e-03	1.169682e-02	-1.706429e-03	-6.191229e-03	-1.051392e-02
## 219	8.008361e-07	-3.847179e-06	-2.010053e-06	2.592916e-06	4.185618e-06
## 220	5.927913e-05	-1.269041e-06	-3.797278e-04	-5.475589e-04	-2.383752e-04
## 222	4.093911e-01	-1.889809e+00	-4.592094e-01	-6.058778e-02	1.236067e+00
## 223	2.727387e-06	-2.104165e-05	-1.518057e-05	1.044337e-05	-3.771268e-05
## 224	-8.056250e-02	4.227719e-01	3.188063e-02	-8.872258e-02	-3.211234e-01
## 226	-1.511261e-05	8.909169e-04	-9.271945e-04	-1.622055e-03	-1.303335e-03
## 228	4.767252e-02	-4.936904e-01	-1.144834e+00	1.562351e-01	-3.228419e+00
## 230	5.217079e-04	-5.326057e-01	-1.008643e+00	6.139506e-01	-3.548441e+00
## 231	5.267927e-02	-1.044472e-01	-5.324438e-01	-3.665783e-01	-8.997727e-01
## 232	4.022086e-01	-3.742147e-02	-2.542161e+00	-3.657881e+00	-1.570108e+00
## 233	2.716530e-01	-1.214246e+00	-7.557243e-01	6.428514e-01	1.244485e+00
## 235	-1.299707e-02	6.462729e-02	9.255856e-03	-7.236282e-03	-4.633000e-02
## 237	-1.049064e-05	5.156746e-05	8.141127e-06	-4.664692e-06	-3.652433e-05
## 238	5.172180e-05	5.237382e-04	-9.346097e-04	-1.515883e-03	-1.011414e-03
## 239	4.069125e-06	-1.955976e-05	-1.020356e-05	1.320586e-05	2.129061e-05
## 242	-2.451065e-07	1.176397e-06	1.499971e-07	-7.233099e-08	-1.006434e-06

## 244	1.061718e-04	-2.255304e-06	-6.798220e-04	-9.806565e-04	-4.261346e-04
## 246	-5.639292e-06	3.098235e-05	-8.322134e-06	-1.136539e-05	-4.875947e-05
## 247	-2.542942e-02	-6.799364e-01	-1.122222e+00	1.025121e+00	-4.430929e+00
## 248	4.541942e-02	-1.011667e-01	-4.800731e-01	-3.031581e-01	-8.498575e-01
## 249	3.266489e-01	-1.483598e+00	-8.895652e-01	8.343540e-01	1.541881e+00
## 250	-8.338283e-04	4.217298e-03	5.120564e-04	-6.049307e-04	-3.081174e-03
## 252	3.751750e-01	-2.268278e-02	-2.385342e+00	-3.436202e+00	-1.483280e+00
## 253	4.938788e-01	-2.301021e+00	-1.297852e+00	1.412465e+00	2.443080e+00
## 254	4.023819e-08	-1.911034e-07	-1.027926e-07	1.245424e-07	2.060363e-07
## 255	7.665797e-01	-3.694493e+00	-6.807300e-01	1.948137e-01	2.553066e+00
## 256	3.175682e-02	-5.665761e-01	-9.883005e-01	4.401334e-01	-3.132118e+00
## 258	7.878582e-02	-2.900001e-01	-2.697782e-01	2.431832e-02	2.408364e-01
## 259	7.061322e-08	-3.370143e-07	-1.790394e-07	2.228654e-07	3.647765e-07
## 260	3.263234e-01	-1.588414e+00	-2.717167e-01	1.140115e-01	1.110859e+00
## 261	7.253762e-02	-1.151854e-01	-3.349724e-01	-4.455150e-01	-1.202531e-01
## 266	-1.086046e-03	2.319497e-05	6.953828e-03	1.003102e-02	4.358739e-03
## 267	4.435253e-03	-2.218649e-02	-6.977908e-02	-1.512843e-02	-1.638878e-01
## 268	2.524341e-11	-1.153355e-11	-1.811357e-10	-2.197139e-10	-1.705530e-10
## 269	2.173806e-03	-1.039839e-02	-5.492300e-03	6.922298e-03	1.127569e-02
## 270	-1.131209e-08	-4.038889e-10	7.255130e-08	1.055915e-07	4.471429e-08
## 271	4.619928e-03	-2.100581e-02	-5.550526e-03	-1.317592e-03	1.345817e-02
## 273	5.747976e-05	-1.081483e-06	-3.682469e-04	-5.311991e-04	-2.310284e-04
## 274	2.826502e-05	-5.227203e-07	-1.810803e-04	-2.612260e-04	-1.135886e-04
## 275	9.313882e-01	-4.515646e+00	-7.962029e-01	2.898360e-01	3.143073e+00
## 276	1.440333e-04	-3.071298e-06	-9.222961e-04	-1.330356e-03	-5.782388e-04
## 277	-1.732541e-03	8.516921e-03	1.346532e-03	-7.706648e-04	-6.025820e-03
## 278	3.492426e-05	3.387223e-07	-2.248638e-04	-3.247155e-04	-1.418282e-04
## 279	1.079636e-04	-2.293044e-06	-6.912951e-04	-9.972066e-04	-4.333269e-04
## 280	1.153369e-04	-2.448196e-06	-7.385093e-04	-1.065314e-03	-4.629249e-04
## 281	-9.535470e-02	4.687499e-01	7.410975e-02	-4.241546e-02	-3.316460e-01
## 283	1.955636e-05	-3.480474e-07	-1.253028e-04	-1.807671e-04	-7.860946e-05
## 284	1.573841e-04	-6.813135e-04	-4.558705e-04	3.146031e-04	6.781613e-04
## 286	1.782645e-02	-1.580539e-02	-1.015892e-01	-1.244138e-01	-4.174347e-02
## 287	2.109052e-04	-8.182053e-04	-4.156769e-04	-3.386590e-04	3.975474e-04

## 288	9.760842e-05	-2.748547e-06	-6.244352e-04	-8.998063e-04	-3.904599e-04
## 289	2.074105e-05	-3.322892e-07	-1.329414e-04	-1.917920e-04	-8.344288e-05
## 292	7.011780e-06	2.607330e-05	-1.161001e-04	-1.276697e-04	-1.790139e-04
## 295	-1.456770e-04	7.161269e-04	1.132202e-04	-6.479963e-05	-5.066683e-04
## 296	1.196811e-04	-2.505958e-04	-5.645399e-04	-4.582128e-04	-9.563497e-07
## 297	8.031439e-05	-9.812862e-06	-6.437401e-04	-7.631026e-04	-6.842489e-04
## 298	1.212639e-03	-2.589867e-05	-7.764383e-03	-1.120026e-02	-4.866804e-03
## 299	8.040972e-02	-1.024949e+00	-2.426363e+00	4.511960e-01	-7.082843e+00
## 300	1.229604e-04	-2.564690e-06	-7.873805e-04	-1.135819e-03	-4.936073e-04
## 301	1.360857e-02	-3.620592e-03	-8.482698e-02	-1.162491e-01	-4.770037e-02
## 302	5.624705e-01	-2.758627e+00	-4.445041e-01	2.375456e-01	1.946497e+00
## 303	6.871380e-06	-9.507877e-08	-4.405768e-05	-6.356858e-05	-2.766112e-05
## 305	6.130829e-01	-3.262822e+00	-2.013354e+00	2.420892e+00	1.486818e+00
## 306	2.721593e-02	-1.321928e-01	-2.298772e-02	8.947700e-03	9.221332e-02
## 308	1.586167e-04	-3.340286e-06	-1.015685e-03	-1.465128e-03	-6.367364e-04
## 310	1.367623e-02	-1.490884e-01	-3.686039e-01	4.647033e-02	-1.046206e+00
## 311	5.876213e-03	-4.861303e-01	-9.554439e-01	5.101338e-01	-3.261140e+00
## 312	3.374957e-05	-5.540082e-07	-2.163179e-04	-3.120585e-04	-1.357913e-04
## 314	7.208829e-03	-3.310094e-02	-8.288510e-03	-1.415149e-03	2.149579e-02
## 315	3.741329e-07	1.990621e-05	-2.596720e-05	-4.302842e-05	-3.382236e-05
## 316	1.823620e-06	1.789551e-04	-2.218219e-04	-3.720711e-04	-2.931807e-04
## 317	3.554420e-05	-7.334936e-07	-2.276171e-04	-3.283472e-04	-1.426984e-04
## 318	1.753604e-07	-8.404337e-07	-4.417724e-07	5.625816e-07	9.126621e-07
## 320	-1.862810e-03	-1.189457e+00	-2.160362e+00	1.418473e+00	-7.716753e+00
## 321	3.533109e-05	1.488562e-07	-2.272605e-04	-3.281147e-04	-1.431839e-04
## 322	1.953521e-01	-9.038762e-01	-2.167075e-01	-2.475239e-02	5.930411e-01
## 323	5.332449e-05	4.192946e-05	-4.113840e-04	-5.832043e-04	-3.350827e-04
## 324	4.184252e-02	-2.056918e-01	-3.252005e-02	1.861228e-02	1.455293e-01
## 325	1.712854e-02	-2.479458e-01	-4.607000e-01	1.606345e-01	-1.403794e+00
## 328	-1.248308e-01	6.136504e-01	9.701864e-02	-5.552696e-02	-4.341647e-01
## 329	8.829155e-01	-4.268423e+00	-7.727216e-01	2.495421e-01	2.950237e+00
## 330	7.885471e-03	-3.616403e-02	-9.116914e-03	-1.634732e-03	2.344630e-02
## 332	5.513625e-02	-3.661229e-01	-1.042432e+00	-8.549899e-02	-2.652959e+00
## 334	7.192281e-01	-1.937497e+00	-2.396433e+00	-2.840728e+00	5.480252e-02

## 335	1.288395e-02	-5.496805e-02	-1.963204e-02	-1.081997e-02	3.200073e-02
## 336	6.276169e-01	-2.394059e+00	-1.286844e+00	-1.079602e+00	1.130029e+00
## 338	4.227506e-02	-5.492780e-01	-8.283047e-01	3.748545e-01	-2.533769e+00
## 340	6.736580e-05	-8.260485e-06	-4.258343e-04	-6.043279e-04	-2.571408e-04
## 341	3.017314e-01	-2.048709e+00	-1.640523e+00	1.805776e+00	-1.624779e+00
## 342	1.954365e-03	-8.502206e-03	-2.789305e-03	-1.316669e-03	5.105511e-03
## 344	6.957817e-02	-3.411468e-01	-5.509865e-02	2.919029e-02	2.406329e-01
## 345	1.971605e-04	-4.128225e-06	-1.262589e-03	-1.821218e-03	-7.916760e-04
## 346	7.740281e-05	1.556132e-06	-5.114497e-04	-7.245299e-04	-3.483519e-04
## 349	7.325423e-02	-3.432673e-01	-7.628917e-02	-7.238089e-04	2.290043e-01
## 351	5.613001e-02	-2.758834e-01	-4.432232e-02	2.609882e-02	1.959302e-01
## 352	5.674643e-02	-1.338380e-03	-3.631956e-01	-5.238753e-01	-2.275530e-01
## 353	1.745666e-04	-3.635654e-06	-1.117915e-03	-1.612549e-03	-7.009600e-04
## 354	-1.285931e-03	6.859249e-03	3.812848e-04	-1.635746e-03	-5.295647e-03
## 358	4.532688e-02	-3.405212e-02	-2.633194e-01	-3.323116e-01	-1.179657e-01
## 359	2.639395e-02	-1.032343e+00	-1.445887e+00	1.314001e+00	-4.843566e+00
## 361	2.783240e-07	-2.537353e-05	-3.726316e-05	3.022885e-05	-1.365986e-04
## 362	9.665486e-02	-3.841064e-01	-1.797716e-01	-1.370736e-01	1.967863e-01
## 364	3.588617e-03	-1.039051e-03	-2.187500e-02	-3.124283e-02	-1.293944e-02
## 367	-6.127965e-05	3.426959e-04	-9.572955e-07	-1.095042e-04	-2.791080e-04
## 368	1.039329e-01	-2.293297e-01	-9.125859e-01	-6.473437e-01	-1.439840e+00
## 370	5.923817e-06	-7.434732e-08	-3.799095e-05	-5.481756e-05	-2.385850e-05
## 372	1.178926e+00	-5.233832e+00	-1.561789e+00	-5.864175e-01	3.240677e+00
## 373	7.024203e-05	-5.561428e-05	-5.862359e-04	-5.951500e-04	-7.348664e-04
## 375	3.210588e-03	-1.436748e-02	-4.122115e-03	-1.371312e-03	8.999976e-03
## 377	4.032341e-03	-1.565728e-02	-7.924852e-03	-6.445734e-03	7.639922e-03
## 378	2.505006e-01	-1.028742e+00	-7.919091e-01	3.945877e-01	9.962153e-01
## 379	4.505905e-05	-9.308527e-07	-2.885477e-04	-4.162408e-04	-1.808982e-04
## 380	5.236976e-05	-1.032827e-06	-3.354338e-04	-4.838755e-04	-2.103603e-04
## 381	-2.823940e-02	1.388488e-01	2.191545e-02	-1.261684e-02	-9.826027e-02
## 382	-1.168941e-02	-3.125314e-01	-5.158218e-01	4.712024e-01	-2.036665e+00
## 383	3.691052e-02	-3.045122e-02	-2.838439e-01	-3.041809e-01	-3.227961e-01
## 386	5.515814e-02	-3.056485e-01	-9.282684e-01	-1.559040e-01	-2.249923e+00
## 388	5.230712e-01	-2.447395e+00	-1.366154e+00	1.523033e+00	2.607543e+00

## 389	6.035612e-02	-2.901432e-01	-1.513308e-01	1.959283e-01	3.158343e-01
## 391	1.243821e-01	-4.064037e-01	-4.780209e-01	-7.713457e-02	2.919517e-01
## 392	-4.999103e-02	2.608607e-01	2.148352e-02	-5.212770e-02	-1.970002e-01
## 393	1.861977e-01	-8.047625e-01	-5.403902e-01	3.688734e-01	7.998496e-01
## 395	3.282069e-02	-1.899462e-01	-4.025181e-01	-3.901037e-02	-9.474020e-01
## 396	3.717665e-01	-1.761843e+00	-9.527455e-01	1.140849e+00	1.896519e+00
## 397	6.532010e-02	-1.295780e-01	-6.603897e-01	-4.544774e-01	-1.116276e+00
## 398	-1.889075e-02	9.289251e-02	1.464923e-02	-8.459000e-03	-6.574614e-02
## 402	5.690032e-05	3.117472e-05	-4.175821e-04	-5.939211e-04	-3.211597e-04
## 403	4.273087e-04	-1.317811e-03	-1.236135e-03	-1.359382e-03	2.764495e-04
## 404	2.295339e-04	-4.520473e-06	-1.470506e-03	-2.120896e-03	-9.228443e-04
## 405	-5.738580e-02	2.869063e-01	3.907631e-02	-3.503228e-02	-2.069452e-01
## 406	8.379009e-02	-1.926399e-03	-5.363412e-01	-7.736373e-01	-3.360749e-01
## 407	1.024861e-04	-2.173262e-06	-6.562276e-04	-9.466213e-04	-4.113497e-04
## 408	4.505905e-05	-9.308527e-07	-2.885477e-04	-4.162408e-04	-1.808982e-04
## 410	4.030059e-05	4.938995e-05	-3.158073e-04	-4.716023e-04	-2.386435e-04
## 411	3.349169e-05	-6.928824e-07	-2.144709e-04	-3.093831e-04	-1.344546e-04
## 412	4.619928e-03	-2.100581e-02	-5.550526e-03	-1.317592e-03	1.345817e-02
## 414	1.225647e-04	-2.674107e-06	-7.847216e-04	-1.131893e-03	-4.917928e-04
## 415	1.710439e-01	-4.866557e-01	-2.006606e+00	-1.018706e+00	-3.902115e+00
## 416	1.638391e-02	-7.919229e-02	-1.428390e-02	4.620220e-03	5.491895e-02
## 417	3.384384e-02	-8.720839e-02	-1.463592e-01	-8.690772e-02	3.133121e-02
## 418	1.625211e+00	-7.800346e+00	-1.480305e+00	3.491764e-01	5.363294e+00
## 419	1.069283e-04	-2.196723e-06	-6.847884e-04	-9.878015e-04	-4.293840e-04
## 420	-1.873027e-05	9.374394e-05	1.179858e-05	-1.185801e-05	-6.996546e-05
## 421	3.778521e-05	-7.858906e-07	-2.419603e-04	-3.490366e-04	-1.516843e-04
## 422	1.591345e-04	-3.259487e-06	-1.019116e-03	-1.470094e-03	-6.389814e-04
## 423	7.885471e-03	-3.616403e-02	-9.116914e-03	-1.634732e-03	2.344630e-02
## 424	1.754013e-01	-7.594267e-01	-5.079806e-01	3.509536e-01	7.560391e-01
## 425	3.819742e-06	-1.856619e-05	-8.270582e-06	-7.792184e-08	-6.799829e-07
## 426	1.954857e-05	-3.307477e-07	-1.252718e-04	-1.807288e-04	-7.860222e-05
## 428	3.467662e-02	8.515943e-05	-2.229807e-01	-3.219137e-01	-1.404336e-01
## 429	4.207344e-02	-8.700437e-04	-2.694241e-01	-3.886581e-01	-1.689013e-01
## 430	8.606646e-03	-1.497032e-02	-8.296307e-02	-6.228520e-02	-1.328262e-01

## 431	5.162810e-06	3.868529e-08	-3.323398e-05	-4.798131e-05	-2.096435e-05
## 434	-4.805386e-06	2.362353e-05	3.733641e-06	-2.139408e-06	-1.671475e-05
## 435	5.007947e-02	-3.256096e-01	-4.567164e-01	4.252248e-02	-1.077096e+00
## 436	3.776764e-01	-2.792988e+00	-2.427673e+00	2.556583e+00	-3.373826e+00
## 437	7.439481e-02	-5.394905e-01	-1.488667e+00	-6.152761e-02	-3.872435e+00
## 438	2.944826e-02	-1.398143e-01	-2.857583e-02	3.309893e-03	9.484638e-02
## 439	8.497650e-02	-6.126673e-01	-1.632764e+00	-5.803342e-02	-4.235235e+00
## 442	-4.138104e-07	2.033106e-06	3.200140e-07	-1.826207e-07	-1.445324e-06
## 444	2.185056e+00	-8.239358e+00	-4.574611e+00	-3.976558e+00	3.769691e+00
## 447	6.179567e-02	-1.079163e-04	-3.972265e-01	-5.728522e-01	-2.496708e-01
## 448	1.212414e-04	-5.994835e-06	-7.799921e-04	-1.115128e-03	-5.019037e-04
## 450	1.158877e-02	-5.381331e-02	-1.263370e-02	-1.086359e-03	3.547609e-02
## 451	8.015971e-01	-3.915635e+00	-6.516223e-01	3.073126e-01	2.749863e+00
## 452	2.566207e-03	-1.249624e-02	-2.131221e-03	9.063420e-04	8.743027e-03
## 455	2.204301e-02	-3.465244e-02	-1.135177e-01	-1.140623e-01	-2.218657e-02
## 456	6.584207e-02	-3.221030e-01	-5.297393e-02	2.618800e-02	2.266013e-01
## 457	1.593245e-02	-9.592543e-02	-1.903204e-01	-1.136677e-02	-4.520469e-01
## 458	1.247798e+00	-6.043333e+00	-3.193466e+00	4.113488e+00	6.293762e+00
## 460	1.056052e-01	-4.173829e-01	-3.382788e-01	1.073547e-01	3.781967e-01
## 462	7.604148e-03	-9.128039e-02	-2.207620e-01	3.558562e-02	-6.374977e-01
## 464	6.227745e-02	-2.355464e-01	-5.807386e-01	-2.332333e-01	-1.108169e+00
## 465	-7.126595e-05	3.571571e-04	4.728437e-05	-4.526784e-05	-2.590110e-04
## 466	8.042894e-05	-1.646692e-06	-5.150646e-04	-7.430055e-04	-3.229180e-04
## 467	1.160725e-02	-1.110273e-03	-7.385739e-02	-1.045085e-01	-4.463194e-02
## 468	1.634690e-05	6.212578e-05	-1.779670e-04	-2.749578e-04	-1.652523e-04
## 469	2.282820e-02	-2.857359e-01	-6.848496e-01	1.204164e-01	-1.991807e+00
## 470	3.005598e-02	-1.457021e-01	-2.571470e-02	9.316963e-03	1.013988e-01
## 473	1.386725e+00	-6.702611e+00	-3.528860e+00	4.552775e+00	7.067498e+00
## 474	1.056328e+00	-4.871560e+00	-1.190173e+00	-1.654418e-01	3.182279e+00
## 475	1.467673e-04	-3.129186e-06	-9.397443e-04	-1.355594e-03	-5.890559e-04
## 476	-2.659515e-03	-7.200454e-02	-1.190530e-01	1.082503e-01	-4.693548e-01
## 477	1.053020e-01	-5.176431e-01	-8.184800e-02	4.682777e-02	3.662333e-01
## 478	1.973548e-11	-6.285946e-12	-1.373736e-10	-1.754370e-10	-1.180655e-10
## 479	1.292764e-05	2.695369e-04	-2.144509e-03	-1.123958e-03	-5.188397e-03

## 480	6.474553e-02	-1.383872e-03	-4.145580e-01	-5.980054e-01	-2.598513e-01	
## 481	1.979109e-03	-2.216459e-02	-2.382011e-02	2.381014e-02	-5.791384e-02	
## 482	4.724982e-01	-2.197430e+00	-1.244906e+00	1.340948e+00	2.329634e+00	
## 485	7.692724e-03	-3.626318e-02	-7.764514e-03	3.496769e-04	2.437676e-02	
## 487	2.076068e-03	-1.038194e-02	-1.410899e-03	1.272159e-03	7.490437e-03	
## 488	1.373559e-04	-2.931825e-06	-8.794775e-04	-1.268660e-03	-5.512718e-04	
## 489	-1.188275e-01	5.895767e-01	8.610249e-02	-6.361260e-02	-4.216082e-01	
## 490	2.769779e-03	-1.171623e-02	-4.337093e-03	-2.525550e-03	6.723064e-03	
## 491	4.912124e-02	-6.525251e-01	-8.544658e-01	4.884448e-01	-2.675344e+00	
## 493	-4.445652e-02	2.185419e-01	3.455149e-02	-1.977531e-02	-1.546211e-01	
## 495	6.720507e-02	-1.163145e-02	-4.478087e-01	-6.084123e-01	-3.329167e-01	
## 496	1.191881e-04	-2.535679e-06	-7.631637e-04	-1.100874e-03	-4.783783e-04	
## 497	4.775375e-05	-9.839500e-07	-3.058077e-04	-4.411388e-04	-1.917226e-04	
## 500	1.667417e-02	-8.285754e-02	-2.479815e-01	-5.427791e-02	-5.771823e-01	
## 502	1.419140e-03	-6.758072e-03	-1.354092e-03	1.995503e-04	4.600946e-03	
## 503	1.427916e+00	-6.285037e+00	-1.953917e+00	-8.174394e-01	3.842178e+00	
## 504	1.230317e-04	-2.609829e-06	-7.877823e-04	-1.136390e-03	-4.938145e-04	
## 506	-8.563405e-02	4.209646e-01	6.655482e-02	-3.809160e-02	-2.978374e-01	
## 507	7.884043e-05	-1.921922e-03	-4.154163e-03	1.495588e-03	-1.317032e-02	
## 508	1.297228e-05	5.504184e-05	-1.470839e-04	-2.293522e-04	-1.379222e-04	
## 509	4.586378e-02	1.779473e-03	-2.968316e-01	-4.290674e-01	-1.882926e-01	
## 510	1.116093e-04	-2.369790e-06	-7.146398e-04	-1.030882e-03	-4.479613e-04	
## 512	-5.763646e-10	-1.540986e-08	-2.543341e-08	2.323338e-08	-1.004210e-07	
## 514	-5.215915e-02	2.564110e-01	4.053335e-02	-2.320957e-02	-1.814172e-01	
## 515	2.129350e+00	-9.538621e+00	-2.722699e+00	-8.902701e-01	5.984000e+00	
## 516	4.473548e-02	-4.467983e-01	-1.009680e+00	1.364830e-01	-2.829404e+00	
## 517	7.836530e-02	-7.369943e-03	-4.953699e-01	-7.125773e-01	-3.062059e-01	
## 519	1.904090e-03	-4.481887e-05	-1.219949e-02	-1.758186e-02	-7.669507e-03	
## 520	2.423443e-03	-1.615367e-01	-2.146406e-01	1.936005e-01	-8.000606e-01	
## 521	1.381645e-02	-3.254807e-03	-9.401518e-02	-1.241648e-01	-7.506129e-02	
## 522	1.356462e-04	-2.895130e-06	-8.685305e-04	-1.252869e-03	-5.444103e-04	
## 523	-4.943858e-02	2.430696e-01	3.838150e-02	-2.206379e-02	-1.720048e-01	
## 524	4.627209e-02	-5.296456e-01	-1.168536e+00	2.204458e-01	-3.367355e+00	
## 526	4.030370e-02	-1.973640e-01	-3.220136e-02	1.641829e-02	1.390088e-01	

## 527	9.579353e-06	-9.705594e-08	-6.146508e-05	-8.869180e-05	-3.862657e-05
## 529	-6.242752e-06	3.061582e-05	4.748163e-06	-2.683514e-06	-2.210610e-05
## 531	6.417086e-02	-6.208985e-02	-5.240959e-01	-5.217963e-01	-6.581200e-01
## 532	3.884544e-03	-6.466031e-01	-1.010682e+00	8.408111e-01	-3.574746e+00
## 533	3.197999e-05	-6.749025e-07	-2.047755e-04	-2.953924e-04	-1.283664e-04
## 535	-8.414491e-02	4.136976e-01	6.533310e-02	-3.753551e-02	-2.927481e-01
## 536	-7.085742e-05	3.806576e-04	1.741706e-05	-9.560312e-05	-2.972544e-04
## 537	1.691367e-05	-2.907068e-07	-1.083825e-04	-1.563601e-04	-6.800320e-05
## 538	3.610729e-04	-1.594030e-03	-5.168902e-04	-2.049061e-04	9.025984e-04
## 541	5.107888e-02	-2.455393e-01	-1.280753e-01	1.657957e-01	2.672755e-01
## 542	-1.496090e-05	1.019527e-04	-2.154195e-05	-6.298222e-05	-9.691270e-05
## 544	1.627006e-05	-3.011715e-07	-1.042313e-04	-1.503670e-04	-6.537658e-05
## 545	3.336181e-05	-6.692717e-07	-2.136659e-04	-3.082254e-04	-1.339726e-04
## 546	9.540835e-02	-5.050702e-02	-6.913857e-01	-8.219631e-01	-6.760329e-01
## 547	-3.523507e-03	1.732127e-02	2.738227e-03	-1.567741e-03	-1.225517e-02
## 548	8.429417e-02	-2.785999e-01	-1.009275e+00	-4.428203e-01	-2.038816e+00
## 550	8.613875e-06	7.823210e-07	-5.626428e-05	-8.147135e-05	-3.604991e-05
## 551	4.275027e-02	-5.953991e-01	-8.184628e-01	4.508868e-01	-2.573276e+00
## 552	2.758782e-01	-1.276459e+00	-7.372251e-01	7.751769e-01	1.353371e+00
## 553	3.964532e-01	-4.178002e-02	-2.500156e+00	-3.595858e+00	-1.540144e+00
## 554	1.210786e-04	-2.568833e-06	-7.752761e-04	-1.118350e-03	-4.859742e-04
## 555	3.092907e-03	2.331947e-02	-4.668915e-02	-7.481005e-02	-4.819865e-02
## 556	1.093859e-01	-1.217819e-01	-5.631237e-01	-7.740672e-01	-2.562640e-01
## 557	2.049650e-03	-1.069975e-02	-8.758044e-04	2.145905e-03	8.083770e-03
## 558	4.157944e-01	-8.496576e-02	-2.574833e+00	-3.689896e+00	-1.552299e+00
## 560	1.089534e-04	-2.312495e-06	-6.976360e-04	-1.006353e-03	-4.373051e-04
## 561	-4.149185e-04	2.270137e-03	5.732417e-05	-6.399036e-04	-1.795524e-03
## 562	3.422547e-01	-8.174119e-01	-1.263696e+00	-1.559727e+00	-1.428508e-01
## 563	4.040646e-02	-7.952337e-01	-1.386037e+00	6.495239e-01	-4.448513e+00
## 564	5.873559e-02	-1.262405e-03	-3.760690e-01	-5.424802e-01	-2.357161e-01
## 565	1.882655e-04	-3.956837e-06	-1.205986e-03	-1.739124e-03	-7.569513e-04
## 566	1.640074e-03	-6.385856e-03	-3.206908e-03	-2.585882e-03	3.127700e-03
## 570	2.839859e-01	-1.312549e+00	-3.166714e-01	-3.880640e-02	8.599267e-01
## 571	6.354710e-03	-1.357192e-04	-4.068847e-02	-5.869382e-02	-2.550400e-02

## 573	-3.852485e-05	2.690154e-04	-6.378690e-05	-1.752378e-04	-2.618058e-04
## 574	8.265365e-05	-1.423488e-05	-6.778159e-04	-7.825458e-04	-7.519974e-04
## 575	-5.235138e-02	2.704954e-01	2.558041e-02	-4.928428e-02	-2.021968e-01
## 578	1.244738e-06	6.104214e-07	-8.718847e-06	-1.276121e-05	-6.015838e-06
## 582	1.020726e-02	-3.099383e-02	-6.678851e-02	-4.329822e-02	-9.311493e-02
## 583	6.996072e-02	-3.981729e-01	-1.125750e+00	-1.663409e-01	-2.730957e+00
## 584	1.318715e-01	-7.785364e-01	-2.227728e+00	-2.952323e-01	-5.476825e+00
## 585	3.218241e-01	-2.441065e+00	-2.166874e+00	2.258686e+00	-3.227321e+00
## 586	3.543640e-01	-1.693094e+00	-3.316321e-01	6.088811e-02	1.157614e+00
## 587	1.490376e-01	-4.413002e-01	-4.526164e-01	-5.064323e-01	7.462495e-02
## 588	1.382650e-02	-5.871217e-01	-9.326004e-01	6.247827e-01	-3.252381e+00
## 589	1.865318e-02	-5.166962e-01	-1.094522e+00	4.272741e-01	-3.514402e+00
## 590	2.596859e-01	-5.629584e-03	-1.662773e+00	-2.398399e+00	-1.042447e+00
## 591	4.477052e-02	-5.232521e-01	-6.964277e-01	3.480275e-01	-2.104150e+00
## 592	3.780863e-02	-1.017070e-01	-1.599603e-01	-8.603331e-02	4.320048e-02
## 594	-2.333302e-06	1.193631e-05	1.277672e-06	-1.959891e-06	-8.828743e-06
## 595	2.173806e-03	-1.039839e-02	-5.492300e-03	6.922298e-03	1.127569e-02
## 597	-3.270105e-02	2.240326e-01	-4.748545e-02	-1.393921e-01	-2.103869e-01
## 598	-1.218516e-02	-3.258172e-01	-5.377569e-01	4.912225e-01	-2.123249e+00
## 599	6.130351e-05	-1.000568e-06	-3.929320e-04	-5.667255e-04	-2.464533e-04
## 601	-2.129657e-06	-1.001753e-04	-1.561090e-04	1.413038e-04	-6.064420e-04
## 602	1.957305e-04	-3.869114e-06	-1.255231e-03	-1.808874e-03	-7.904257e-04
## 606	3.589648e-03	-1.622728e-02	-4.421618e-03	-1.210030e-03	1.031081e-02
## 608	2.794839e-01	-1.830696e+00	-9.308609e-01	6.948474e-01	-1.669108e+00
## 609	5.181835e-06	-3.700019e-09	-3.330534e-05	-4.807341e-05	-2.097050e-05
## 610	-9.046844e-03	-6.212999e-01	-1.111867e+00	8.073802e-01	-4.091458e+00
## 612	9.541354e-03	-2.591449e-04	-6.109867e-02	-8.803586e-02	-3.839764e-02
## 613	1.254393e+00	-6.489100e+00	-6.000737e-01	1.189965e+00	4.854063e+00
## 614	1.075575e-02	-5.166464e-02	-2.700063e-02	3.481038e-02	5.620542e-02
## 615	1.370029e-02	-5.986329e-03	-8.310012e-02	-1.116649e-01	-4.397009e-02
## 616	2.676150e+00	-1.222983e+01	-3.143957e+00	-6.406667e-01	7.890747e+00
## 618	3.779208e-02	-8.006059e-04	-2.419858e-01	-3.490708e-01	-1.516849e-01
## 620	2.124899e-11	-7.817768e-12	-1.497978e-10	-1.876221e-10	-1.338158e-10
## 621	9.567403e-01	-4.449138e+00	-1.035596e+00	-7.694382e-02	2.938699e+00

## 622	1.256993e-01	-5.553618e-01	-1.809508e+00	-5.086716e-01	-4.080876e+00
## 623	-1.149946e-05	5.652748e-05	8.926622e-06	-5.114361e-06	-4.002794e-05
## 624	4.657853e-02	-8.741847e-01	-1.844375e+00	6.114749e-01	-5.726368e+00
## 625	3.950766e-02	-8.493347e-04	-2.529567e-01	-3.648925e-01	-1.585519e-01
## 627	1.134629e-04	-2.408788e-06	-7.265095e-04	-1.048004e-03	-4.554023e-04
## 628	2.989690e+00	-1.456905e+01	-2.470521e+00	1.077017e+00	1.020256e+01
## 629	-2.927533e-07	1.733771e-06	-1.170845e-07	-7.146039e-07	-1.485240e-06
## 631	-3.992775e-05	-1.097495e-03	-1.805056e-03	1.647922e-03	-7.120077e-03
## 632	5.136482e-04	-8.025631e-06	-3.292214e-03	-4.750018e-03	-2.065983e-03
## 633	1.097761e-04	-2.331208e-06	-7.029013e-04	-1.013949e-03	-4.406026e-04
## 634	1.910213e-01	-4.187367e-03	-1.223105e+00	-1.764149e+00	-7.668637e-01
## 637	-1.173804e-02	6.050568e-02	4.972611e-03	-9.022094e-03	-4.400585e-02
## 639	2.070236e+00	-9.479513e+00	-2.410665e+00	-4.586828e-01	6.132761e+00
## 641	5.307871e-06	-3.294088e-08	-3.408063e-05	-4.918468e-05	-2.143249e-05
## 642	5.998640e-02	-2.591408e-01	-8.711370e-01	-2.546221e-01	-1.958739e+00
## 644	-8.767177e-04	1.808126e-05	5.614146e-03	8.098843e-03	3.519295e-03
## 645	-3.143292e-05	1.586104e-04	1.967168e-05	-2.208828e-05	-1.157372e-04
## 646	-4.226785e-03	2.097057e-02	3.064000e-03	-2.260469e-03	-1.499519e-02
## 647	-1.113559e-02	1.494217e-02	1.899973e-01	1.102190e-01	3.878508e-01
## 649	4.492885e+00	-2.163274e+01	-4.013290e+00	1.101242e+00	1.493201e+01
## 650	6.504887e-05	-1.362112e-06	-4.165357e-04	-6.008638e-04	-2.611200e-04
## 651	3.359492e-02	-4.801711e-01	-1.120056e+00	2.466279e-01	-3.327434e+00
## 653	4.333914e-06	1.074328e-07	-2.798728e-05	-4.042689e-05	-1.772106e-05
## 654	6.892394e-02	-2.824065e-01	-1.184185e-01	-8.092758e-02	1.533478e-01
## 656	4.502648e+00	-2.073380e+01	-5.109277e+00	-7.673949e-01	1.351658e+01
## 657	1.007428e-04	-1.989636e-01	-4.102467e-01	2.210190e-01	-1.417129e+00
## 658	1.498751e-05	-2.814877e-07	-9.600963e-05	-1.385056e-04	-6.021534e-05
## 659	4.232929e-06	5.066177e-07	-2.780386e-05	-4.028131e-05	-1.794188e-05
## 660	2.611046e-01	-1.169245e+00	-7.246316e-01	6.234926e-01	1.200311e+00
## 661	3.697695e-05	-7.616963e-07	-2.367939e-04	-3.415852e-04	-1.484533e-04
## 662	1.901953e-03	-9.087867e-03	-4.813680e-03	6.030211e-03	9.846023e-03
## 663	2.006271e-02	-1.256232e-01	-1.099603e-01	9.657293e-02	-1.038714e-01
## 664	3.972252e-03	-5.015303e-01	-1.023632e+00	5.318680e-01	-3.494504e+00
## 665	1.305611e-02	-4.248040e-03	-8.037522e-02	-1.102207e-01	-4.472164e-02

## 666	1.887824e-02	-5.902900e-01	-1.191177e+00	5.224145e-01	-3.887531e+00
## 668	1.750710e-04	-3.673146e-05	-1.262539e-03	-1.600000e-03	-1.136188e-03
## 669	1.453072e-02	-2.792794e-02	-1.451709e-01	-1.021312e-01	-2.422326e-01
## 672	2.982554e+00	-1.451081e+01	-2.491602e+00	1.028029e+00	1.014227e+01
## 673	3.825510e-02	-5.941987e-01	-1.083728e+00	4.115151e-01	-3.346454e+00
## 678	1.320110e-02	-2.823142e-04	-8.452481e-02	-1.219280e-01	-5.298083e-02
## 679	4.703025e-02	-3.792567e-01	-1.015611e+00	4.836898e-03	-2.708938e+00
## 681	7.708633e-05	-1.595054e-06	-4.936380e-04	-7.120928e-04	-3.094683e-04
## 683	3.342318e-03	-1.636575e-02	-2.671975e-03	1.358929e-03	1.152560e-02
## 684	1.528231e-01	-1.023335e+00	-7.400516e-01	3.550550e-01	-1.570741e+00
## 685	9.933330e-03	-3.812828e-01	-6.765315e-01	3.794776e-01	-2.290622e+00
## 687	3.180316e-02	-4.169812e-01	-8.296965e-01	2.327509e-01	-2.469091e+00
## 688	2.965767e-05	-6.096218e-07	-1.899237e-04	-2.739738e-04	-1.190692e-04
## 689	6.726624e-05	-1.379984e-06	-4.307755e-04	-6.214045e-04	-2.700868e-04
## 690	-1.018234e-03	-2.730160e-02	-4.507882e-02	4.113557e-02	-1.779269e-01
## 691	2.213561e-04	-4.692400e-06	-1.417454e-03	-2.044600e-03	-8.887041e-04
## 693	4.096758e-01	-2.016421e-01	-2.548019e+00	-3.441760e+00	-1.744344e+00
## 695	8.479911e-03	1.443878e-02	-7.148959e-02	-1.065078e-01	-5.594371e-02
## 696	4.022316e-05	-3.329507e-07	-2.583293e-04	-3.726011e-04	-1.627235e-04
## 697	1.946047e-04	-7.215188e-04	-4.227635e-04	-3.788511e-04	3.135546e-04
## 698	7.168631e-01	-3.740581e+00	-2.231761e+00	2.734257e+00	2.176674e+00
## 699	-1.908978e-04	-5.115000e-03	-8.442386e-03	7.709293e-03	-3.332683e-02
## 700	2.116669e-05	-3.363065e-07	-1.356735e-04	-1.957336e-04	-8.516154e-05
## 701	3.319535e-02	4.489525e-02	-2.655362e-01	-3.961442e-01	-2.030976e-01
## 702	1.162918e-01	-9.335449e-01	-7.514501e-01	4.779689e-01	-1.945980e+00
## 704	1.038683e-01	-4.915173e-01	-2.667878e-01	3.168627e-01	5.284751e-01
## 705	5.319966e-02	-1.693080e-01	-2.037478e-01	-5.273004e-02	1.113996e-01
## 706	3.730753e-01	-9.308910e-03	-2.387221e+00	-3.443173e+00	-1.495261e+00
## 707	9.932241e-02	-2.509211e-03	-6.366812e-01	-9.169178e-01	-4.012017e-01
## 711	3.605744e-02	2.568427e-02	-2.612780e-01	-3.853618e-01	-1.852038e-01
## 712	1.109798e-02	-5.042483e-02	-1.337402e-02	-3.234863e-03	3.227510e-02
## 713	1.166002e-02	-8.389629e-04	-7.423162e-02	-1.060550e-01	-4.559207e-02
## 714	-2.058494e-07	1.113072e-06	4.216721e-08	-2.920471e-07	-8.749770e-07
## 715	1.640964e-01	-7.036352e-01	-2.459809e-01	-1.308173e-01	4.129870e-01

## 716	1.622375e-02	-5.333824e-02	-2.039504e-01	-8.830710e-02	-4.181147e-01	
## 718	1.676846e-03	-8.039869e-03	-1.537146e-03	3.437733e-04	5.520269e-03	
## 719	4.691575e-02	-1.889833e-01	-8.434872e-02	-6.151264e-02	9.938488e-02	
## 720	2.976897e-02	-7.412140e-02	-1.062535e-01	-1.296327e-01	-7.295264e-03	
## 721	2.200916e-03	8.638220e-04	-1.513910e-02	-2.212983e-02	-1.022725e-02	
## 722	5.008327e-01	-2.534762e+00	-1.448743e+00	1.798721e+00	1.923569e+00	
## 723	1.097761e-04	-2.331208e-06	-7.029013e-04	-1.013949e-03	-4.406026e-04	
## 724	1.292384e-01	-5.420852e-02	-9.245329e-01	-1.133900e+00	-8.610761e-01	
## 725	1.098153e-01	-8.906416e-01	-9.527744e-01	4.011454e-01	-2.507624e+00	
## 726	-1.266214e-05	-3.386453e-04	-5.589471e-04	5.105372e-04	-2.206856e-03	
## 727	1.734665e-04	-1.790722e-04	-1.389323e-03	-1.384406e-03	-1.722729e-03	
## 729	4.288754e-03	-2.056855e-02	-1.079250e-02	1.379621e-02	2.234909e-02	
## 730	7.031379e-05	-2.543597e-04	-9.432100e-04	-3.599553e-04	-2.008379e-03	
## 732	1.622612e-02	-7.897758e-02	-1.351651e-02	5.659607e-03	5.522869e-02	
## 733	2.290709e+00	-7.876260e+00	-5.670992e+00	-5.675638e+00	2.785493e+00	
## 738	2.417946e-02	-2.781008e-01	-4.161190e-01	1.697077e-01	-1.237202e+00	
## 739	-4.914145e-02	2.415723e-01	3.819273e-02	-2.185908e-02	-1.709153e-01	
## 740	2.786106e-02	-6.333707e-01	-1.103657e+00	5.500164e-01	-3.599756e+00	
## 742	2.408332e-02	-4.763674e-01	-8.766703e-01	3.775268e-01	-2.791509e+00	
## 743	9.855191e-05	-2.077042e-06	-6.310510e-04	-9.103077e-04	-3.955781e-04	
## 744	9.284566e-02	-4.525340e-01	-7.662179e-02	3.362128e-02	3.169771e-01	
## 747	6.131203e-02	-5.766095e-01	-1.391297e+00	1.253821e-01	-3.841923e+00	
## 748	3.210588e-03	-1.436748e-02	-4.122115e-03	-1.371312e-03	8.999976e-03	
## 749	-7.758007e-03	3.843748e-02	5.684418e-03	-4.044726e-03	-2.744209e-02	
## 750	2.660053e-02	-5.712351e-04	-1.703166e-01	-2.456834e-01	-1.067538e-01	
## 751	3.930591e-02	-6.180895e-01	-1.006425e+00	4.642348e-01	-3.161513e+00	
## 752	4.895864e-03	-2.348697e-02	-1.231476e-02	1.576683e-02	2.552586e-02	
## 753	2.700638e-04	-7.574097e-06	-1.734725e-03	-2.492856e-03	-1.101641e-03	
## 754	2.041248e-04	-4.291729e-06	-1.307143e-03	-1.885507e-03	-8.195475e-04	
## 755	6.425879e-01	-1.372434e-02	-4.114415e+00	-5.935114e+00	-2.578964e+00	
## 757	-5.547174e-02	2.881758e-01	2.531471e-02	-5.530287e-02	-2.166327e-01	
## 758	3.655289e-02	-1.006213e-01	-1.527943e-01	-7.717245e-02	4.621115e-02	
## 759	8.091016e-06	-4.463684e-05	-1.439845e-05	9.534309e-06	-1.358722e-06	
## 761	2.713651e-05	-5.657131e-07	-1.737702e-04	-2.506682e-04	-1.089372e-04	

## 762	2.747984e-02	-1.272905e-01	-3.031873e-02	-3.197569e-03	8.364190e-02
## 763	1.061718e-04	-2.255304e-06	-6.798220e-04	-9.806565e-04	-4.261346e-04
## 764	1.025189e-02	-4.338095e-02	-6.468258e-02	-2.239535e-02	-1.062777e-01
## 765	1.464507e-01	-6.118879e-01	-4.421921e-01	2.351255e-01	5.883623e-01
## 769	-4.452972e-02	2.190847e-01	3.439809e-02	-2.016970e-02	-1.551557e-01
## 770	3.191164e-06	-1.457548e-05	-8.623933e-06	8.363781e-06	1.522081e-05
## 772	-9.142519e-02	4.596848e-01	5.927241e-02	-6.094516e-02	-3.336703e-01
## 773	-2.631194e-05	1.300469e-04	1.937776e-05	-1.316251e-05	-9.330396e-05
## 774	-1.915069e-02	-5.120182e-01	-8.450676e-01	7.719678e-01	-3.336655e+00
## 775	1.836662e+00	-8.074477e+00	-2.524356e+00	-1.070571e+00	4.927198e+00
## 777	1.660697e-05	-3.062143e-07	-1.063912e-04	-1.534832e-04	-6.673268e-05
## 778	2.644477e-03	-1.215372e-02	-7.085650e-03	7.127685e-03	1.275895e-02
## 779	1.056619e+00	-5.112254e+00	-9.153835e-01	3.079396e-01	3.549532e+00
## 780	-1.154550e-01	5.799576e-01	7.548216e-02	-7.587811e-02	-4.205307e-01
## 781	4.160193e-05	-8.519017e-07	-2.664187e-04	-3.843202e-04	-1.670328e-04
## 782	1.026512e-04	-2.181105e-06	-6.572782e-04	-9.481366e-04	-4.120024e-04
## 783	2.285523e-01	-1.123529e+00	-1.776322e-01	1.016622e-01	7.949090e-01
## 784	2.268844e-05	-4.490048e-07	-1.453147e-04	-2.096275e-04	-9.111887e-05
## 785	2.200385e-02	-1.573599e-01	-3.639117e-01	-1.343281e-03	-9.358860e-01
## 788	-5.944353e-03	-1.598178e-01	-2.639814e-01	2.406500e-01	-1.041600e+00
## 789	1.116093e-04	-2.369790e-06	-7.146398e-04	-1.030882e-03	-4.479613e-04
## 790	2.031943e-11	-2.240007e-11	-1.713711e-10	-1.620520e-10	-2.271977e-10
## 791	6.853520e-02	1.222143e-03	-4.419658e-01	-6.382174e-01	-2.791037e-01
## 792	8.989907e-05	-1.914832e-06	-5.756226e-04	-8.303432e-04	-3.608180e-04
## 793	4.413496e-02	-3.828132e-01	-1.003844e+00	3.579720e-02	-2.721254e+00
## 794	8.614064e-07	2.269241e-06	-8.245228e-06	-1.250800e-05	-7.229218e-06
## 795	9.166893e-02	-2.331708e-02	-6.244649e-01	-8.211172e-01	-5.025937e-01
## 796	-5.553443e-05	-1.495164e-03	-2.470185e-03	2.250658e-03	-9.744999e-03
## 797	1.151437e-08	-1.220890e-09	-7.556632e-08	-1.052175e-07	-5.270652e-08
## 798	1.790724e-01	-9.433700e-03	-1.140183e+00	-1.642880e+00	-7.102388e-01
## 799	3.788926e-02	-8.091485e-04	-2.426007e-01	-3.499556e-01	-1.520651e-01
## 800	9.002156e-06	-9.849429e-08	-5.775224e-05	-8.333308e-05	-3.628548e-05
## 803	8.488025e-01	-4.056550e+00	-7.930679e-01	1.480386e-01	2.774542e+00
## 804	5.236051e-05	-1.075804e-06	-3.353135e-04	-4.837015e-04	-2.102263e-04

## 806	1.507090e-02	-7.247711e-02	-1.356317e-02	3.520637e-03	4.995284e-02
## 807	2.726370e-05	-5.438951e-07	-1.746136e-04	-2.518917e-04	-1.094876e-04
## 810	-3.198385e-05	-8.752789e-04	-1.440870e-03	1.314971e-03	-5.683791e-03
## 811	4.031916e-06	-8.616382e-08	-2.581599e-05	-3.723980e-05	-1.618205e-05
## 814	-4.043874e-05	2.015671e-04	-4.732007e-05	-4.379071e-05	-3.486525e-04
## 815	-1.247533e-02	-6.976967e-01	-1.223402e+00	9.336973e-01	-4.552376e+00
## 816	6.129297e-03	3.632110e-04	-3.981310e-02	-5.758918e-02	-2.535561e-02
## 817	3.776567e-06	1.598605e-04	-2.100819e-04	-3.517930e-04	-2.655321e-04
## 819	2.987885e-05	6.251171e-07	-1.933220e-04	-2.786181e-04	-1.233575e-04
## 820	1.705670e-02	-1.452962e-01	-3.823846e-01	1.091114e-02	-1.032505e+00
## 822	1.371816e-03	-6.607760e-03	-1.222589e-03	3.413617e-04	4.562625e-03
## 823	1.269994e-11	-2.550840e-11	-1.289732e-10	-8.799092e-11	-2.190805e-10
## 825	8.308984e-03	-4.617947e-02	-3.004227e-02	3.559042e-02	1.010161e-02
## 826	1.794988e-03	6.656824e-03	-1.918844e-02	-2.982170e-02	-1.745149e-02
## 827	1.414662e-03	-6.745223e-03	-3.592012e-03	4.447989e-03	7.295824e-03
## 830	1.474089e-02	-1.202753e+00	-2.363004e+00	1.260819e+00	-8.063467e+00
## 831	5.399528e-12	-2.993332e-11	-9.088188e-11	-1.524349e-11	-2.203016e-10
## 832	3.495882e-02	-7.543983e-04	-2.238294e-01	-3.228718e-01	-1.402906e-01
## 833	-7.845960e-02	3.864607e-01	6.010002e-02	-3.641261e-02	-2.740548e-01
## 834	-9.459492e-07	2.109692e-06	-3.111995e-06	2.784950e-06	-1.765052e-05
## 835	1.954365e-03	-8.502206e-03	-2.789305e-03	-1.316669e-03	5.105511e-03
## 837	-2.681228e-03	1.503462e-02	-4.722848e-05	-4.859970e-03	-1.216323e-02
## 842	5.611768e-02	-3.423229e-01	-1.004156e+00	-1.223415e-01	-2.499360e+00
## 843	3.507849e-01	-1.880255e-02	-2.236828e+00	-3.210444e+00	-1.385989e+00
## 844	1.653315e-05	-2.594127e-07	-1.059752e-04	-1.528920e-04	-6.651810e-05
## 845	6.885814e-05	-1.435660e-06	-4.409332e-04	-6.360622e-04	-2.764154e-04
## 846	2.021625e-02	-4.526282e-01	-9.834491e-01	3.384040e-01	-3.093587e+00
## 847	1.341295e-01	-3.906138e-03	-8.576188e-01	-1.236796e+00	-5.367225e-01
## 848	3.886403e-06	1.383260e-07	-2.514695e-05	-3.633590e-05	-1.595902e-05
## 849	2.077409e-02	-8.404852e-02	-9.363741e-02	-4.175583e-02	-1.083605e-01
## 851	1.316996e-03	-2.812745e-05	-8.432569e-03	-1.216413e-02	-5.285631e-03
## 852	1.451146e-02	-9.086892e-01	-1.348894e+00	1.166870e+00	-4.648390e+00
## 855	-2.161800e-07	1.165974e-06	4.762847e-08	-3.008688e-07	-9.145073e-07
## 858	1.921668e-01	-9.446640e-01	-1.493522e-01	8.547916e-02	6.683608e-01

## 859	9.068677e-07	-3.826503e-05	-4.984029e-05	4.361740e-05	-1.823900e-04
## 860	1.954365e-03	-8.502206e-03	-2.789305e-03	-1.316669e-03	5.105511e-03
## 862	3.260840e-01	-1.688486e-02	-2.076476e+00	-2.992178e+00	-1.293525e+00
## 863	-4.717037e-06	2.299302e-05	3.003524e-06	-1.950452e-06	-1.849904e-05
## 864	-6.167995e-05	3.033906e-04	4.770533e-05	-2.780070e-05	-2.148673e-04
## 866	-8.624564e-03	-6.186678e-01	-1.110815e+00	7.997550e-01	-4.079472e+00
## 867	-8.428142e-02	4.145437e-01	6.524101e-02	-3.794173e-02	-2.934825e-01
## 868	1.679757e-04	-3.586184e-06	-1.075537e-03	-1.551473e-03	-6.741732e-04
## 869	9.660952e-06	1.208955e-04	-2.074970e-04	-3.304978e-04	-2.415121e-04
## 872	-1.629672e-07	1.826845e-06	-1.073878e-06	-2.107122e-06	-2.194956e-06
## 873	1.112800e-04	-2.364332e-06	-7.125297e-04	-1.027837e-03	-4.466370e-04
## 876	9.745278e-03	-8.522309e-01	-1.289605e+00	1.103868e+00	-4.500780e+00
## 877	4.656336e-02	-2.450802e-03	-3.008953e-01	-4.283820e-01	-1.965931e-01
## 878	3.669515e-02	-1.588549e-01	-2.177776e-01	2.828354e-01	2.915144e-01
## 879	1.617052e-01	-6.783624e-01	-2.176067e+00	-6.737955e-01	-4.783954e+00
## 880	2.390241e-02	-3.428607e-01	-7.996616e-01	1.767765e-01	-2.376779e+00
## 881	-8.160613e-05	4.095061e-04	5.375786e-05	-5.282129e-05	-2.968071e-04
## 886	2.173514e-01	-4.704537e-01	-8.566483e-01	-1.085763e+00	-1.594514e-01
## 887	2.557865e-02	-5.153110e-01	-9.295716e-01	4.170105e-01	-2.975400e+00
## 888	1.767800e-08	-5.548120e-10	-1.135249e-07	-1.630730e-07	-7.212971e-08
## 890	1.079636e-04	-2.293044e-06	-6.912951e-04	-9.972066e-04	-4.333269e-04
## 892	3.894004e+00	-1.775225e+01	-4.624233e+00	-1.017460e+00	1.141568e+01
## 893	1.185236e-10	-1.952357e-10	-6.049813e-10	-5.936793e-10	-1.127466e-10
## 895	8.169513e-03	2.222516e-03	-5.509608e-02	-8.013579e-02	-3.641737e-02
## 897	6.337399e-02	-1.353600e-03	-4.057765e-01	-5.853392e-01	-2.543459e-01
## 898	-4.051493e-02	2.145822e-01	1.376852e-02	-4.851516e-02	-1.645084e-01
## 899	1.813331e-03	2.868752e-02	-4.462818e-02	-7.356758e-02	-5.124547e-02
## 902	1.393622e-07	2.243327e-07	-1.154451e-06	-1.737026e-06	-9.095625e-07
## 903	6.456552e-03	6.582916e-04	-4.225651e-02	-6.120771e-02	-2.713037e-02
## 904	1.992105e-02	-2.515967e-03	-1.302081e-01	-1.812212e-01	-9.039331e-02
## 905	6.207111e-02	-6.741479e-01	-1.545685e+00	2.409356e-01	-4.401206e+00
## 906	3.551011e-02	-5.807142e-01	-7.444219e-01	5.009501e-01	-2.446769e+00
## 907	7.198036e-02	-2.597514e-01	-2.526618e-01	1.233445e-02	2.123329e-01
## 909	-1.163485e-04	5.869563e-04	7.314507e-05	-8.144053e-05	-4.277240e-04

## 911	1.987727e-07	1.574258e-06	-3.116122e-06	-4.965944e-06	-3.292225e-06
## 912	-3.463896e-03	-9.261216e-02	-1.528531e-01	1.396308e-01	-6.035232e-01
## 913	1.539934e-04	-3.288082e-06	-9.860048e-04	-1.422327e-03	-6.180442e-04
## 914	3.080703e-05	-6.217905e-07	-1.972987e-04	-2.846145e-04	-1.237051e-04
## 915	3.264143e-02	-3.275739e-01	-8.264573e-01	7.807427e-02	-2.308942e+00
## 917	-4.229872e-05	2.955512e-04	-6.960429e-05	-1.925938e-04	-2.860021e-04
## 919	-1.090453e-04	8.403992e-04	-2.653153e-04	-6.505595e-04	-8.457680e-04
## 921	2.613570e-05	-5.094398e-07	-1.674042e-04	-2.414940e-04	-1.049794e-04
## 922	-9.568918e-02	4.707205e-01	7.399342e-02	-4.320764e-02	-3.333079e-01
## 923	7.213710e-02	-3.467849e-01	-1.808625e-01	2.341935e-01	3.774985e-01
## 924	1.174330e-04	-2.499100e-06	-7.519224e-04	-1.084661e-03	-4.713260e-04
## 925	6.383774e-03	-3.884099e-03	-4.795197e-02	-5.460995e-02	-5.058620e-02
## 927	1.586167e-04	-3.340286e-06	-1.015685e-03	-1.465128e-03	-6.367364e-04
## 928	1.003360e-01	-2.874938e-01	-4.101694e-01	-1.824739e-01	1.486108e-01
## 929	-1.717448e-02	-5.427566e-01	-8.776199e-01	7.995967e-01	-3.446408e+00
## 932	6.171129e-03	-1.245213e-03	-3.907946e-02	-5.502341e-02	-2.534493e-02
## 933	9.760842e-05	-2.748547e-06	-6.244352e-04	-8.998063e-04	-3.904599e-04
## 935	-4.214731e-04	2.316504e-03	4.625836e-05	-6.713378e-04	-1.840728e-03
## 936	1.336729e-06	-1.177450e-05	-1.210207e-05	6.305507e-06	-3.334703e-05
## 937	1.134629e-04	-2.408788e-06	-7.265095e-04	-1.048004e-03	-4.554023e-04
## 939	2.013647e-02	-1.817378e-02	-1.144977e-01	-1.396894e-01	-4.652448e-02
## 940	-1.387451e-07	7.676793e-07	8.596692e-09	-2.313045e-07	-6.158202e-07
## 941	2.472132e-04	-1.425598e-05	-1.620040e-03	-2.278337e-03	-1.106464e-03
## 942	6.473033e-01	-3.189091e+00	-1.736599e+00	2.208554e+00	2.975157e+00
## 946	1.243661e-04	-5.820401e-04	-1.890447e-03	-4.758380e-04	-4.358714e-03
## 947	1.086272e+00	-5.915608e+00	-3.774333e+00	4.470673e+00	1.887752e+00
## 949	6.690298e-02	-1.119081e-01	-6.370559e-01	-4.896469e-01	-1.004598e+00
## 950	1.482243e-04	-3.164648e-06	-9.490663e-04	-1.369043e-03	-5.948906e-04
## 952	1.198524e-02	-1.098477e-03	-7.613320e-02	-1.083533e-01	-4.637955e-02
## 957	2.235801e-04	-4.690574e-06	-1.431808e-03	-2.065255e-03	-8.978596e-04
## 958	1.954365e-03	-8.502206e-03	-2.789305e-03	-1.316669e-03	5.105511e-03
## 960	1.377110e+00	-6.622067e+00	-3.454724e+00	4.473799e+00	7.198828e+00
## 961	2.752827e-02	7.085915e-02	-2.586791e-01	-3.952823e-01	-2.199616e-01
## 962	2.427990e-02	-1.703587e-03	-1.576993e-01	-2.228795e-01	-1.053394e-01

## 963	9.595925e-01	-1.100513e+00	-4.911327e+00	-6.721576e+00	-2.207494e+00
## 964	2.210442e-01	-5.059823e-03	-1.414932e+00	-2.040954e+00	-8.866248e-01
## 965	-5.896081e-06	1.942162e-04	-1.897049e-04	-3.306188e-04	-2.851963e-04
## 966	6.705889e-12	-2.578454e-11	-9.135875e-11	-3.215971e-11	-1.977211e-10
## 967	1.261621e-06	-8.308382e-05	-1.649259e-04	8.480210e-05	-5.583439e-04
## 968	3.792700e-06	-3.775061e-08	-2.433521e-05	-3.511629e-05	-1.529127e-05
## 969	2.464029e+00	-1.196407e+01	-2.086017e+00	8.018315e-01	8.342274e+00
## 971	2.036455e-02	-5.907361e-02	-2.085741e-01	-1.112437e-01	-3.845649e-01
## 975	3.765931e+00	-1.551262e+01	-6.378199e+00	-4.259803e+00	8.498008e+00
## 977	7.286265e-03	-1.864748e-01	-3.981040e-01	1.491844e-01	-1.269318e+00
## 978	1.377353e-01	-1.030032e+00	-9.487581e-01	4.240496e-01	-2.344529e+00
## 979	4.727351e-02	-5.958511e-02	-3.986597e-01	-3.646702e-01	-5.404378e-01
## 981	-6.700275e-04	-1.796411e-01	-3.345999e-01	2.149266e-01	-1.193057e+00
## 982	-3.395940e-01	1.201072e-01	2.371774e+00	2.984410e+00	2.041686e+00
## 983	2.696802e-02	-7.973111e-01	-1.677487e+00	6.761111e-01	-5.416272e+00
## 984	7.221681e-01	-1.160312e+00	-3.691991e+00	-3.684115e+00	-6.864778e-01
## 985	-5.131830e-02	2.524619e-01	3.966784e-02	-2.320029e-02	-1.787750e-01
## 988	7.438792e-05	-1.574907e-06	-4.763148e-04	-6.870947e-04	-2.985745e-04
## 989	1.514950e-02	-1.892723e-02	-7.583626e-02	-1.031864e-01	-3.291622e-02
## 990	8.588544e-05	-1.814778e-06	-5.499403e-04	-7.933006e-04	-3.447317e-04
## 991	-1.690274e-07	1.334495e-06	-4.474419e-07	-1.071245e-06	-1.358652e-06
## 992	-6.261641e-02	3.256257e-01	2.819211e-02	-6.308505e-02	-2.450448e-01
## 993	5.468398e-02	-3.747913e-01	-3.259979e-01	1.249785e-01	-7.405754e-01
## 994	1.724876e-02	-5.035324e-04	-1.103517e-01	-1.590644e-01	-6.919540e-02
## 995	-4.567163e-06	-8.150887e-04	-1.524601e-03	9.849926e-04	-5.450875e-03
## 996	4.493848e+00	-2.163304e+01	-4.019129e+00	1.092907e+00	1.492858e+01
## 997	7.875768e-02	-2.840306e-01	-2.770441e-01	1.387461e-02	2.325183e-01
## 999	7.300974e-02	-4.365324e-02	-5.469910e-01	-6.254606e-01	-5.734956e-01
## 1000	5.505236e-02	-2.852071e-01	-8.891780e-01	-1.787129e-01	-2.113843e+00
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## 1002	1.981321e-02	7.562525e-02	-2.142860e-01	-3.334244e-01	-1.959575e-01
## 1004	9.736961e-05	-2.065841e-06	-6.234643e-04	-8.993598e-04	-3.908105e-04
## 1006	-5.617016e-08	4.785589e-07	-1.898190e-07	-4.256061e-07	-5.073570e-07
## 1007	1.303716e-04	-2.779805e-06	-8.347621e-04	-1.204157e-03	-5.232474e-04

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## 1041 1.723294e-04 -3.637292e-06 -1.103481e-03 -1.591773e-03 -6.917642e-04
## 1044 5.227758e-02 -3.084310e-01 -2.197746e-01 6.095056e-02 -3.819821e-01
## 1045 -5.965011e-07 3.090548e-06 2.723770e-07 -5.808286e-07 -2.342053e-06
## 1046 3.861117e+00 -1.722953e+01 -5.013707e+00 -1.746248e+00 1.074856e+01
## 1049 1.017080e-01 -2.981359e-01 -4.273541e-01 -1.366984e-01 1.817325e-01
## 1050 6.181793e-07 -2.968932e-06 -1.552219e-06 1.999507e-06 3.229474e-06
## 1051 8.754265e-03 -8.562366e-04 -5.588061e-02 -7.969355e-02 -3.572078e-02
## 1055 -2.122100e-02 -1.052770e-01 -2.858512e-01 2.590929e-01 -1.217979e+00
## 1056 9.038869e-01 -4.290840e+00 -8.778330e-01 1.003511e-01 2.910253e+00
## 1057 1.881088e-02 -5.238911e-01 -1.054927e+00 4.487327e-01 -3.416827e+00
## 1058 -1.821101e-05 9.257259e-05 1.060557e-05 -1.414459e-05 -6.812109e-05
## 1059 8.495455e-01 -4.069656e+00 -7.827825e-01 1.670666e-01 2.791588e+00
## 1061 1.187156e-02 -5.773986e-02 -9.938251e-03 4.056277e-03 4.034161e-02
## 1062 4.955866e-01 -1.138877e-02 -3.174495e+00 -4.576382e+00 -1.993787e+00
## 1063 4.880160e-02 -3.582861e-01 -9.873212e-01 -3.593239e-02 -2.576213e+00

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## 1064	2.300472e-08	-1.083679e-07	-5.949445e-08	6.888350e-08	1.160667e-07
## 1065	1.872766e-02	-1.684949e-01	-4.373479e-01	2.223664e-02	-1.194920e+00
## 1066	1.225647e-04	-2.674107e-06	-7.847216e-04	-1.131893e-03	-4.917928e-04
## 1067	2.093192e-05	2.968315e-05	-1.745352e-04	-2.545095e-04	-1.459792e-04
## 1070	1.653315e-05	-2.594127e-07	-1.059752e-04	-1.528920e-04	-6.651810e-05
## 1074	1.381583e-02	-6.152116e-02	-1.809012e-02	-6.504789e-03	3.825874e-02
## 1075	-8.597273e-03	4.226295e-02	6.681808e-03	-3.824219e-03	-2.990153e-02
## 1080	-3.396158e-02	-9.080556e-01	-1.498724e+00	1.369055e+00	-5.917508e+00
## 1081	3.825244e-02	-7.270240e-02	-3.776458e-01	-2.690137e-01	-6.242101e-01
## 1082	9.883319e-03	-4.747162e-02	-2.481246e-02	3.198065e-02	5.164187e-02
## 1086	3.858745e+00	-1.891599e+01	-3.059989e+00	1.611518e+00	1.333962e+01
## 1087	6.449438e-01	-2.971830e+00	-1.721693e+00	1.758371e+00	3.126560e+00
## 1088	1.663812e-03	-3.553448e-05	-1.065319e-02	-1.536741e-02	-6.677543e-03
## 1091	1.372194e-04	-2.907031e-06	-8.786342e-04	-1.267444e-03	-5.507729e-04
## 1092	6.762763e-05	-1.422968e-06	-4.330394e-04	-6.246701e-04	-2.714577e-04
## 1093	-1.201790e-01	5.972131e-01	8.601244e-02	-6.617643e-02	-4.278277e-01
## 1095	5.586571e-05	-1.166584e-06	-3.577357e-04	-5.160443e-04	-2.242616e-04
## 1096	1.106399e-01	-4.435722e-01	-2.013104e-01	-1.492133e-01	2.312180e-01
## 1098	-5.699347e-05	2.890339e-04	3.409526e-05	-4.288449e-05	-2.118267e-04
## 1099	2.758291e-05	-4.402460e-07	-1.768038e-04	-2.550637e-04	-1.109900e-04
## 1100	6.422449e-02	-2.142401e-03	-4.126260e-01	-5.922858e-01	-2.627543e-01
## 1102	2.144706e-07	2.526430e-07	-1.670231e-06	-2.490048e-06	-1.258102e-06
## 1104	8.022443e-02	-8.154409e-02	-4.493879e-01	-5.314422e-01	-1.669018e-01
## 1105	1.375064e-02	-6.036468e-03	-8.338113e-02	-1.120047e-01	-4.407920e-02
## 1107	6.028079e-01	-2.729718e+00	-7.370045e-01	-1.939093e-01	1.739024e+00
## 1108	8.806475e-01	-4.239234e+00	-2.215400e+00	2.867417e+00	4.581105e+00
## 1110	1.025081e-01	-8.210191e-02	-8.042072e-01	-8.531690e-01	-9.355156e-01
## 1111	-2.641729e-03	-7.148555e-02	-1.181852e-01	1.074832e-01	-4.659638e-01
## 1112	5.596751e-05	-1.176171e-06	-3.583776e-04	-5.169695e-04	-2.246553e-04
## 1113	2.511912e-01	-5.041993e-01	-1.083954e+00	-1.241881e+00	-1.869057e-01
## 1114	1.832179e-01	-8.627227e-01	-1.860189e-01	6.434532e-03	5.791443e-01
## 1115	2.166828e+00	-6.715287e+00	-6.234482e+00	-6.829365e+00	1.441482e+00
## 1117	-7.782038e-02	3.948755e-01	4.631961e-02	-5.898768e-02	-2.895206e-01
## 1118	1.431256e-11	-1.998124e-11	-1.287928e-10	-1.093426e-10	-1.884944e-10

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## 1119 2.511277e-06 4.501781e-07 -1.665849e-05 -2.419135e-05 -1.084989e-05
## 1121 2.251853e-01 -2.749721e-01 -1.932888e+00 -1.760986e+00 -2.651843e+00
## 1122 1.676713e-02 -2.752395e-01 -6.264061e-01 1.643874e-01 -1.898243e+00
## 1127 2.530589e-02 -4.365149e-01 -7.634357e-01 3.322232e-01 -2.407381e+00
## 1129 -7.256520e-08 -5.106006e-07 -1.174264e-06 1.084421e-06 -4.931866e-06
## 1130 4.589882e-03 -2.240492e-02 -3.750746e-03 1.728175e-03 1.571725e-02
## 1131 1.745928e-01 -7.508530e-01 -5.100533e-01 3.366414e-01 7.430978e-01
## 1132 -1.265200e-05 -4.051441e-03 -7.722773e-03 4.781189e-03 -2.735045e-02
## 1134 4.535282e-05 -2.029831e-04 -1.411595e-04 1.313231e-04 2.169416e-04
## 1135 5.857525e-05 -1.098633e-06 -3.752720e-04 -5.413307e-04 -2.354442e-04
## 1136 2.708357e-02 -1.311460e-01 -2.334021e-02 8.105319e-03 9.114646e-02
## 1137 2.702719e-02 -1.522164e-01 -4.000327e-01 -5.756738e-02 -9.584796e-01
## 1138 9.470014e-03 -7.885681e-03 -7.512361e-02 -7.853900e-02 -8.913194e-02
## 1141 3.085189e-02 -1.503446e-01 -2.549417e-02 1.111485e-02 1.052845e-01
## 1142 2.837159e-04 -1.351351e-03 -4.357130e-03 -1.058184e-03 -1.010036e-02
## 1143 1.214931e-03 -6.240075e-01 -1.553139e+00 6.147536e-01 -5.151210e+00
## 1144 1.004041e+00 -4.829593e+00 -9.023294e-01 2.366963e-01 3.329630e+00
## 1145 3.798933e-02 -8.110167e-04 -2.432416e-01 -3.508804e-01 -1.524669e-01
## 1146 2.593215e-03 -5.719137e-03 -2.564631e-02 -1.648899e-02 -4.287879e-02
## 1147 -1.572368e-05 7.725123e-05 1.198635e-05 -6.983490e-06 -5.538786e-05
## 1148 9.044169e-02 -7.082213e-01 -6.095974e-01 3.352299e-01 -1.553388e+00
## 1150 1.777899e-04 -3.544376e-06 -1.139212e-03 -1.642765e-03 -7.154207e-04
## 1152 3.668571e-05 -6.797679e-07 -2.350307e-04 -3.390489e-04 -1.474395e-04
## 1153 2.384620e-02 2.129923e-03 -1.557187e-01 -2.254704e-01 -9.974600e-02
## 1156 3.178716e-03 -6.782547e-05 -2.035302e-02 -2.935961e-02 -1.275756e-02
## 1157 -6.261591e-04 6.433839e-03 -3.371127e-03 -6.916204e-03 -7.316005e-03
## 1158 -7.050851e-04 3.466094e-03 5.479887e-04 -3.136306e-04 -2.452319e-03
## 1159 5.072130e-01 -2.603742e+00 -5.841628e-01 3.587336e-01 1.078704e+00
## 1160 1.580195e-02 -7.224239e-02 -1.853165e-02 -3.726677e-03 4.663593e-02
## 1161 1.442502e-01 -2.493205e-01 -6.405918e-01 -8.452829e-01 -2.020439e-01
## 1163 9.401284e-02 -7.911615e-01 -7.730593e-01 4.027475e-01 -2.076873e+00
## 1166 -3.476107e-05 1.708729e-04 2.700572e-05 -1.545270e-05 -1.209402e-04
## 1167 -8.182112e-05 4.084790e-04 5.626878e-05 -4.880872e-05 -2.945039e-04
## 1168 3.977720e-01 -6.865228e-02 -2.477745e+00 -3.554942e+00 -1.504346e+00

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## 1169 6.900967e-05 -1.457757e-06 -4.418814e-04 -6.374243e-04 -2.769937e-04
## 1172 1.799564e-07 -4.027983e-09 -1.152083e-06 -1.661775e-06 -7.221042e-07
## 1175 -8.039576e-05 3.956956e-04 6.190122e-05 -3.672185e-05 -2.804335e-04
## 1176 2.700583e-04 -5.755086e-06 -1.729185e-03 -2.494361e-03 -1.083922e-03
## 1177 1.264035e-04 -2.738661e-06 -8.093156e-04 -1.167396e-03 -5.072335e-04
## 1178 -2.663249e-05 1.698741e-04 -2.494186e-05 -8.912661e-05 -1.545919e-04
## 1179 2.769212e-04 -8.163537e-03 -1.717836e-02 6.915783e-03 -5.545337e-02
## 1181 8.846350e-02 -1.029150e-01 -5.239549e-01 -6.370480e-01 -3.990252e-01
## 1182 8.574031e-05 -1.804203e-06 -5.490216e-04 -7.919754e-04 -3.441661e-04
## 1184 -2.122177e-07 1.314104e-06 -1.464018e-07 -6.301710e-07 -1.152691e-06
## 1185 -1.856901e-02 9.128266e-02 1.443177e-02 -8.259970e-03 -6.458360e-02
## 1186 -6.663266e-09 -8.756278e-06 -1.649329e-05 1.023046e-05 -5.830382e-05
## 1187 1.239759e-05 -2.151841e-07 -7.943974e-05 -1.146062e-04 -4.983899e-05
## 1188 3.562368e-02 -5.080879e-01 -1.028464e+00 3.025240e-01 -3.097284e+00
## 1189 3.613000e+00 -1.378862e+01 -7.373817e+00 -6.250022e+00 6.486079e+00
## 1190 7.460742e-02 -2.672472e-01 -2.616874e-01 4.205697e-03 2.140809e-01
## 1191 2.995501e-06 -1.287733e-05 -4.295327e-05 -1.256022e-05 -9.603042e-05
## 1194 -4.677763e-06 4.735167e-05 -2.490806e-05 -5.040416e-05 -5.502824e-05
## 1195 7.712608e-03 2.084545e-04 -4.981699e-02 -7.197524e-02 -3.153882e-02
## 1197 5.318160e-06 -2.556492e-05 -1.333460e-05 1.726261e-05 2.782818e-05
## 1198 1.350400e-03 -6.042557e-03 -3.752707e-03 3.214875e-03 6.200404e-03
## 1201 3.789120e-01 -3.352049e-02 -2.396904e+00 -3.449439e+00 -1.481811e+00
## 1203 -1.532154e-03 -4.096412e-02 -6.760980e-02 6.176144e-02 -2.669498e-01
## 1205 -6.922451e-08 1.256423e-06 -1.008900e-06 -1.845457e-06 -1.669174e-06
## 1206 2.348433e-02 -2.239589e-02 -1.858422e-01 -1.899032e-01 -2.242672e-01
## 1207 2.470909e-04 -5.285828e-06 -1.584729e-03 -2.282892e-03 -9.987933e-04
## 1208 1.500241e-04 -3.174269e-06 -9.606332e-04 -1.385725e-03 -6.021852e-04
## 1211 3.505048e-02 5.982515e-03 -2.322693e-01 -3.370787e-01 -1.512668e-01
## 1212 2.377009e-04 1.246776e-03 -2.960954e-03 -4.671607e-03 -2.870367e-03
## 1216 9.760842e-05 -2.748547e-06 -6.244352e-04 -8.998063e-04 -3.904599e-04
## 1217 2.881183e-07 2.042054e-07 -2.087768e-06 -3.077540e-06 -1.481530e-06
## 1218 2.858392e-06 -6.109854e-08 -1.830205e-05 -2.640082e-05 -1.147221e-05
## 1219 4.009119e-04 -1.852029e-03 -4.485039e-04 -5.674085e-05 1.211552e-03
## 1220 1.307713e-02 -5.634887e-03 -8.917504e-02 -1.133090e-01 -7.556627e-02

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## 1221	5.862579e-02	-2.818235e-01	-1.469937e-01	1.903070e-01	3.067766e-01
## 1224	6.738244e-01	-3.137511e+00	-7.247407e-01	-4.623901e-02	2.075856e+00
## 1225	2.686836e-01	-1.273205e+00	-6.886600e-01	8.242051e-01	1.370425e+00
## 1226	3.163472e-03	-1.515835e-02	-7.971703e-03	1.014133e-02	1.645918e-02
## 1227	4.105132e-07	3.490189e-07	-3.039704e-06	-4.499295e-06	-2.195175e-06
## 1229	4.152403e-02	-1.028751e-03	-2.657104e-01	-3.832465e-01	-1.664354e-01
## 1230	-3.075785e-02	1.512011e-01	2.390502e-02	-1.368163e-02	-1.069766e-01
## 1231	1.205807e-02	-5.559367e-02	-1.360379e-02	-1.919304e-03	3.630219e-02
## 1233	3.760626e-07	-1.805165e-06	-9.450589e-07	1.213888e-06	1.962750e-06
## 1234	6.169475e-02	-8.739947e-01	-9.887432e-01	7.270352e-01	-3.217863e+00
## 1235	2.635220e-04	-1.100604e-05	-1.709284e-03	-2.430894e-03	-1.125338e-03
## 1236	2.941482e+00	-1.163399e+01	-5.985606e+00	-3.433191e+00	6.444920e+00
## 1238	5.931790e-06	-4.177580e-05	-2.330902e-05	1.866753e-05	-4.958768e-05
## 1242	1.300094e-04	-2.676928e-06	-8.325640e-04	-1.201003e-03	-5.219709e-04
## 1247	1.044010e-04	-2.217990e-06	-6.684828e-04	-9.642995e-04	-4.190263e-04
## 1249	-7.931753e-06	-5.022144e-03	-9.434068e-03	5.905582e-03	-3.342553e-02
## 1251	4.740061e-04	-1.012349e-05	-3.035006e-03	-4.378048e-03	-1.902376e-03
## 1252	8.842939e-02	-7.226379e-02	-5.993693e-01	-6.827834e-01	-5.086488e-01
## 1253	2.562220e-02	2.119129e-02	-1.890508e-01	-2.796537e-01	-1.361286e-01
## 1256	2.460018e-04	-5.147466e-06	-1.575846e-03	-2.272512e-03	-9.890912e-04
## 1258	7.829941e-01	-3.379722e+00	-1.148060e+00	-5.800995e-01	2.004780e+00
## 1259	1.843462e-05	-3.499909e-07	-1.180877e-04	-1.703543e-04	-7.405998e-05
## 1263	-7.869762e-02	3.941668e-01	5.277256e-02	-4.944647e-02	-2.848866e-01
## 1264	-1.136678e-05	1.433438e-04	-9.226308e-05	-1.782123e-04	-1.749304e-04
## 1265	8.234040e-01	-3.790024e+00	-9.361650e-01	-1.434765e-01	2.469359e+00
## 1266	5.279299e-03	-2.554974e-02	-4.565972e-03	1.552072e-03	1.774481e-02
## 1269	2.676749e-04	-5.716840e-06	-1.713891e-03	-2.472317e-03	-1.074286e-03
## 1270	1.153369e-04	-2.448196e-06	-7.385093e-04	-1.065314e-03	-4.629249e-04
## 1271	2.269849e-05	-8.044055e-05	-5.366304e-05	-5.156180e-05	3.066706e-05
## 1272	1.799884e-01	-8.653191e-01	-4.512184e-01	5.844911e-01	9.420086e-01
## 1273	1.057921e-04	-2.222274e-06	-6.774209e-04	-9.771985e-04	-4.246536e-04
## 1274	7.967865e-02	-1.889990e-01	-3.577163e-01	-2.474218e-01	4.207697e-02
## 1276	8.574031e-05	-1.804203e-06	-5.490216e-04	-7.919754e-04	-3.441661e-04
## 1282	3.688717e+00	-1.813314e+01	-2.866941e+00	1.640690e+00	1.282936e+01

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## 1283 -5.541189e-04 -1.481558e-02 -2.445271e-02 2.233722e-02 -9.654838e-02
## 1284 4.147936e-02 -1.229279e-01 -1.662636e-01 -6.477404e-02 6.932871e-02
## 1285 2.230624e-02 -1.091060e-01 -1.796675e-02 8.837698e-03 7.674213e-02
## 1286 1.545050e-02 -9.640521e-03 -9.136705e-02 -1.183880e-01 -4.400070e-02
## 1287 2.491992e-06 -1.197756e-05 -6.249735e-06 8.084516e-06 1.303648e-05
## 1288 6.084677e-01 -2.911720e+00 -5.641882e-01 1.135698e-01 1.994699e+00
## 1289 5.180923e-04 -1.588508e-01 -3.032871e-01 1.796741e-01 -1.060213e+00
## 1290 2.821065e-04 -1.292058e-03 -7.594870e-04 7.486379e-04 1.352413e-03
## 1291 1.333906e-02 -6.323389e-02 -1.305615e-02 1.306819e-03 4.281201e-02
## 1293 -4.107359e-04 2.811747e-03 -5.922216e-04 -1.750593e-03 -2.642832e-03
## 1294 1.456354e-02 -3.526804e-03 -9.928424e-02 -1.307683e-01 -7.977076e-02
## 1296 6.780111e-02 -2.898647e-01 -9.789680e-01 -2.913389e-01 -2.193897e+00
## 1298 -7.862739e-03 -5.104542e-01 -9.142631e-01 6.655246e-01 -3.370821e+00
## 1299 1.428964e-11 -4.884280e-12 -9.998600e-11 -1.265816e-10 -8.735670e-11
## 1301 2.541407e-01 -1.647955e+00 -8.396213e-01 6.057439e-01 -1.473078e+00
## 1302 8.139244e-05 -1.314973e-06 -5.219447e-04 -7.526837e-04 -3.281495e-04
## 1304 2.522584e-01 -5.473748e-03 -1.615161e+00 -2.329777e+00 -1.012494e+00
## 1305 1.421855e-04 -3.004099e-06 -9.104450e-04 -1.313331e-03 -5.707253e-04
## 1306 -2.681462e-05 1.439687e-04 6.825669e-06 -3.597632e-05 -1.119892e-04
## 1308 3.952758e-01 -4.481950e-02 -2.489098e+00 -3.578922e+00 -1.530735e+00
## 1309 6.404106e-02 -1.538320e-01 -6.983238e-01 -4.145382e-01 -1.273620e+00
## 1311 3.501475e-02 -4.881621e-01 -8.397333e-01 3.246018e-01 -2.565165e+00
## 1312 -1.751290e-06 -7.650476e-05 -1.303694e-04 1.066507e-04 -4.934337e-04
## 1315 8.169740e-05 -1.520938e-06 -5.233841e-04 -7.550296e-04 -3.283022e-04
## 1317 2.256482e+00 -9.960128e+00 -3.055383e+00 -1.236154e+00 6.114693e+00
## 1318 5.670367e-08 -2.702206e-07 -1.441081e-07 1.778988e-07 2.921203e-07
## 1320 1.269948e-04 -2.692958e-06 -8.131603e-04 -1.172998e-03 -5.097245e-04
## 1321 4.738409e-08 -2.254460e-07 -1.207189e-07 1.477149e-07 2.434059e-07
## 1323 7.777017e-01 -4.478241e-01 -4.717371e+00 -6.392904e+00 -3.090817e+00
## 1324 -1.769458e-03 -4.734541e-02 -7.813535e-02 7.137389e-02 -3.084987e-01
## 1325 2.357151e-02 -1.848263e-01 -4.987598e-01 -3.590052e-03 -1.321793e+00
## 1326 -5.042584e-02 2.565467e-01 2.923667e-02 -3.956046e-02 -1.886380e-01
## 1327 -1.428043e-04 7.020053e-04 1.109875e-04 -6.352174e-05 -4.966776e-04
## 1328 -3.500127e-04 2.608243e-03 -7.485415e-04 -1.911476e-03 -2.576856e-03

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## 1329	1.533074e+00	-5.750426e+00	-3.244591e+00	-2.850666e+00	2.597621e+00
## 1330	7.885471e-03	-3.616403e-02	-9.116914e-03	-1.634732e-03	2.344630e-02
## 1331	8.506229e-02	-3.349387e-01	-1.617738e-01	-1.267630e-01	1.684362e-01
## 1332	6.350754e-05	-1.316171e-06	-4.066824e-04	-5.866536e-04	-2.549558e-04
## 1334	1.086007e-04	-2.531278e-06	-6.951852e-04	-1.002513e-03	-4.354495e-04
## 1335	3.896448e-02	-8.547504e-04	-2.494591e-01	-3.598418e-01	-1.563457e-01
## 1340	4.404379e-02	-3.228391e-02	-3.412097e-01	-3.704045e-01	-3.855915e-01
## 1341	1.235892e-02	-8.719865e-04	-7.877080e-02	-1.123145e-01	-4.826745e-02
## 1343	-2.873037e-06	1.566486e-05	4.612256e-07	-4.326851e-06	-1.235178e-05
## 1347	1.138864e-05	-1.857297e-07	-7.298905e-05	-1.053031e-04	-4.580280e-05
## 1348	8.017313e-02	-2.997989e-01	-2.723199e-01	4.001412e-02	2.560746e-01
## 1350	2.748727e-08	-1.298888e-07	-7.075660e-08	8.336255e-08	1.394680e-07
## 1352	1.344203e-01	-4.606934e-01	-1.701431e+00	-7.034663e-01	-3.525025e+00
## 1354	-8.193102e-02	4.111868e-01	5.399238e-02	-5.311013e-02	-2.978544e-01
## 1355	2.996250e-02	-5.852817e-01	-8.757623e-01	5.151537e-01	-2.881827e+00
## 1356	-1.964685e-04	-5.287792e-03	-8.719978e-03	7.964483e-03	-3.442167e-02
## 1357	8.065531e-05	-1.713147e-06	-5.164398e-04	-7.449735e-04	-3.237231e-04
## 1358	3.123703e-05	-5.660863e-07	-2.001376e-04	-2.887174e-04	-1.255601e-04
## 1359	5.484538e-02	-2.072634e-01	-1.143058e-01	-9.893090e-02	9.527781e-02
## 1360	1.381056e-02	-6.662167e-02	-2.135780e-01	-5.050438e-02	-4.969816e-01
## 1363	1.662486e-04	-3.373694e-06	-1.064723e-03	-1.535880e-03	-6.676265e-04
## 1364	1.762657e-05	-3.513313e-04	-7.975495e-04	2.388678e-04	-2.467759e-03
## 1368	2.351629e-05	8.686886e-06	-2.373121e-04	-2.558570e-04	-3.138731e-04
## 1369	-1.097211e-05	5.393368e-05	8.502882e-06	-4.881189e-06	-3.823339e-05
## 1370	1.065232e-02	-5.299228e-04	-6.800966e-02	-9.750460e-02	-4.210781e-02
## 1372	1.064679e-02	9.077798e-05	-6.882255e-02	-9.842722e-02	-4.287373e-02
## 1374	5.348131e-05	-1.077538e-06	-3.425211e-04	-4.940990e-04	-2.147738e-04
## 1375	-7.729980e-05	3.799940e-04	6.007656e-05	-3.438349e-05	-2.688541e-04
## 1376	2.642115e-04	-5.630588e-06	-1.692709e-03	-2.440617e-03	-1.063047e-03
## 1377	6.316028e-02	-2.992544e-01	-6.199969e-02	5.877351e-03	2.024780e-01
## 1378	6.227900e-02	-3.061546e-01	-4.840395e-02	2.770380e-02	2.166083e-01
## 1379	-1.783272e-05	9.760097e-05	2.429256e-06	-2.759108e-05	-7.725458e-05
## 1383	1.765384e-01	-4.318315e-01	-6.388759e-01	-7.830229e-01	-5.297008e-02
## 1384	1.368204e-04	-2.877689e-06	-8.761152e-04	-1.263803e-03	-5.492353e-04

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## 1385 1.106434e-01 -4.879456e-01 -1.503136e-01 -6.147298e-02 2.991671e-01
## 1386 1.763907e-02 -1.114835e-01 -3.050603e-01 -2.913187e-02 -7.631979e-01
## 1387 6.427749e-01 -1.753655e-02 -4.121881e+00 -5.932171e+00 -2.602592e+00
## 1388 2.790981e-02 -4.133864e-01 -7.964084e-01 2.650972e-01 -2.425413e+00
## 1389 2.959857e-03 -1.451681e-02 -2.339085e-03 1.250418e-03 1.024258e-02
## 1390 -8.465405e-05 -2.263576e-03 -3.735934e-03 3.412721e-03 -1.475082e-02
## 1391 8.588461e-02 -1.278995e+00 -1.546037e+00 1.447915e+00 -4.350602e+00
## 1393 5.428556e-01 -4.367877e-01 -4.105125e+00 -4.473493e+00 -4.542783e+00
## 1395 1.534172e-02 -9.040515e-02 -1.940654e-01 -1.712633e-02 -4.613335e-01
## 1397 1.377410e-04 -2.888827e-06 -8.820126e-04 -1.272321e-03 -5.529237e-04
## 1399 1.688428e-06 -8.115959e-06 -4.233907e-06 5.479337e-06 8.834066e-06
## 1400 4.008997e-01 -1.341576e-02 -2.561338e+00 -3.693219e+00 -1.601551e+00
## 1403 1.264191e-02 -2.664601e-03 -7.915951e-02 -1.102103e-01 -4.591451e-02
## 1404 2.638141e-04 -5.631264e-06 -1.689179e-03 -2.436665e-03 -1.058809e-03
## 1405 2.133995e-03 -5.105395e-03 -7.856573e-03 -9.704366e-03 -8.431826e-04
## 1406 1.213914e-02 -2.307014e-04 -7.775836e-02 -1.121769e-01 -4.876300e-02
## 1408 2.972476e-02 -4.734763e-01 -8.646967e-01 3.333238e-01 -2.679729e+00
## 1409 2.309307e-02 -5.436888e-01 -9.428190e-01 4.795787e-01 -3.088672e+00
## 1410 1.189172e-01 -2.637793e-03 -7.613008e-01 -1.098157e+00 -4.771142e-01
## 1412 6.628031e-02 -3.100520e-01 -1.007429e+00 -2.538148e-01 -2.322528e+00
## 1413 1.602494e-07 8.150191e-07 -1.966766e-06 -3.098946e-06 -1.895836e-06
## 1414 5.221320e-02 -3.875585e-02 -4.054159e-01 -4.385477e-01 -4.603452e-01
## 1415 3.805281e+00 -1.787358e+01 -3.914516e+00 4.573433e-02 1.196038e+01
## 1417 5.211354e+00 -2.470394e+01 -5.101210e+00 5.096003e-01 1.672570e+01
## 1418 2.824081e-02 -4.842408e-01 -1.094276e+00 3.007781e-01 -3.335435e+00
## 1420 5.568108e-02 -2.598559e-01 -5.921218e-02 -2.655228e-03 1.724361e-01
## 1421 -1.206103e-01 5.929408e-01 9.369476e-02 -5.372474e-02 -4.195438e-01
## 1422 5.538937e-02 -6.262835e-01 -1.049691e+00 3.448386e-01 -3.077348e+00
## 1423 4.410792e-04 1.694037e-03 -4.782222e-03 -7.443315e-03 -4.377798e-03
## 1424 2.195318e-04 -4.688774e-06 -1.405637e-03 -2.027655e-03 -8.810693e-04
## 1425 2.497917e+00 -8.501829e+00 -6.284188e+00 -6.360797e+00 2.903823e+00
## 1426 8.500285e-02 -6.343108e-02 -6.154234e-01 -7.014043e-01 -6.297183e-01
## 1427 -4.984299e-03 -8.561248e-01 -1.357267e+00 1.162336e+00 -4.959485e+00
## 1429 1.044010e-04 -2.217990e-06 -6.684828e-04 -9.642995e-04 -4.190263e-04

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## 1430 -1.152073e-03 2.422161e-05 7.376828e-03 1.064156e-02 4.623768e-03
## 1431 1.112869e-03 -4.569980e-03 -1.900297e-03 -1.286592e-03 2.491710e-03
## 1432 5.842185e-01 -2.693126e+00 -6.595785e-01 -9.380426e-02 1.758238e+00
## 1434 5.166816e-05 -1.072592e-06 -3.308648e-04 -4.772833e-04 -2.074233e-04
## 1436 7.506827e-06 1.418284e-04 -2.131826e-04 -3.506975e-04 -2.526226e-04
## 1437 -2.967802e-06 -7.679233e-05 -1.305232e-04 1.154850e-04 -5.118946e-04
## 1438 7.514075e-05 -4.101979e-05 -4.491530e-04 -5.909973e-04 -2.252831e-04
## 1439 5.281087e-02 -2.433644e-01 -7.959808e-01 -2.065686e-01 -1.826653e+00
## 1443 1.489676e-04 -3.044249e-06 -9.541065e-04 -1.376211e-03 -5.984177e-04
## 1445 1.179373e-04 6.536129e-04 -1.509289e-03 -2.387099e-03 -1.477592e-03
## 1446 1.350930e-02 -6.360082e-02 -3.496377e-02 4.035730e-02 6.810190e-02
## 1447 2.283887e-02 -3.898115e-01 -8.815060e-01 2.411661e-01 -2.685279e+00
## 1449 4.409734e+00 -1.974192e+01 -5.652192e+00 -1.867207e+00 1.237422e+01
## 1450 3.664400e-01 -3.010878e-01 -2.042785e+00 -2.813509e+00 -1.112375e+00
## 1452 1.453952e-01 -6.118145e-01 -4.354824e-01 2.447573e-01 5.925114e-01
## 1454 4.070590e-04 -1.588730e-02 -3.259211e-02 1.468028e-02 -1.074084e-01
## 1455 -4.659252e-05 -1.276215e-03 -2.113597e-03 1.913582e-03 -8.321063e-03
## 1456 1.415264e-04 -3.036980e-06 -9.061654e-04 -1.307139e-03 -5.679748e-04
## 1457 2.444347e-05 4.146664e-05 -2.249560e-04 -3.142446e-04 -2.168038e-04
## 1458 1.100786e-02 -1.057724e-03 -6.988070e-02 -9.939785e-02 -4.250821e-02
## 1459 2.178200e-04 -4.632417e-06 -1.395557e-03 -2.012114e-03 -8.765428e-04
## 1462 3.413603e-04 2.669048e-02 -3.295301e-02 -5.580762e-02 -4.213662e-02
## 1463 2.991708e-02 -4.706237e-01 -9.231925e-01 3.113856e-01 -2.830442e+00
## 1464 3.607202e-05 2.178694e-06 -2.343546e-04 -3.390041e-04 -1.492853e-04
## 1465 2.624306e-02 8.542080e-02 -2.669980e-01 -4.124856e-01 -2.372919e-01
## 1466 7.885471e-03 -3.616403e-02 -9.116914e-03 -1.634732e-03 2.344630e-02
## 1468 4.703186e-02 -5.665984e-01 -1.093646e+00 2.965144e-01 -3.213282e+00
## 1470 6.213746e-01 -3.051532e+00 -4.864453e-01 2.703552e-01 2.156478e+00
## 1472 2.672847e-02 -4.990576e-01 -9.392369e-01 3.786040e-01 -2.960686e+00
## 1474 2.705778e-08 -1.278416e-07 -6.966694e-08 8.201300e-08 1.372497e-07
## 1475 1.781971e-04 -3.720530e-06 -1.150986e-03 -1.648710e-03 -7.420378e-04
## 1477 1.187234e-04 -1.135616e-06 -7.743183e-04 -1.102701e-03 -5.124361e-04
## 1478 6.422723e-02 -2.218952e-02 -4.506029e-01 -5.690576e-01 -3.965822e-01
## 1479 1.496351e-06 -3.203128e-08 -9.581097e-06 -1.382061e-05 -6.005943e-06

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## 1480 2.787214e-05 -5.663855e-07 -1.784974e-04 -2.574923e-04 -1.119121e-04
## 1481 8.311332e-01 -3.912411e+00 -8.451715e-01 2.688463e-02 2.625415e+00
## 1482 1.936803e-02 -4.136448e-04 -1.240113e-01 -1.788884e-01 -7.773168e-02
## 1483 9.780685e-05 -2.048220e-06 -6.263065e-04 -9.034546e-04 -3.926380e-04
## 1484 3.516770e-01 -5.176210e-01 -3.208489e+00 -2.654021e+00 -4.791784e+00
## 1485 3.837577e-02 -8.190899e-04 -2.457162e-01 -3.544500e-01 -1.540183e-01
## 1486 8.136556e-03 -3.907251e-02 -2.043451e-02 2.630483e-02 4.249728e-02
## 1487 5.203092e-01 -2.433566e+00 -1.359652e+00 1.512581e+00 2.591992e+00
## 1489 8.688879e-02 -2.536650e-02 -5.988578e-01 -7.747197e-01 -5.002669e-01
## 1494 1.825295e-01 -5.848600e-01 -2.248585e+00 -1.006580e+00 -4.556126e+00
## 1496 1.916175e-05 -3.426932e-07 -1.227722e-04 -1.771162e-04 -7.701985e-05
## 1498 1.259550e-04 -2.361372e-06 -8.094897e-04 -1.164714e-03 -5.131208e-04
## 1500 7.956448e-01 -4.515541e-01 -4.854146e+00 -6.558930e+00 -3.227103e+00
## 1501 2.361767e-02 -5.275768e-01 -9.691887e-01 4.416383e-01 -3.127534e+00
## 1503 1.462330e-04 -3.060894e-06 -9.364010e-04 -1.350775e-03 -5.870317e-04
## 1504 3.723835e-02 -9.596126e-02 -1.609750e-01 -9.572174e-02 3.441164e-02
## 1505 6.946580e-06 2.269564e-06 -4.767915e-05 -6.905644e-05 -3.271789e-05
## 1507 9.439754e-04 -4.479369e-03 -2.414445e-03 2.911763e-03 4.826660e-03
## 1508 1.754087e-02 -2.828696e-02 -1.374591e-01 -1.221875e-01 -1.820050e-01
## 1509 5.440216e-01 -2.561095e+00 -1.408091e+00 1.624878e+00 2.742238e+00
## 1510 1.410779e-02 -4.778277e-03 -8.734909e-02 -1.173811e-01 -4.717753e-02
## 1511 1.953521e-01 -9.038762e-01 -2.167075e-01 -2.475239e-02 5.930411e-01
## 1513 1.116749e-01 -2.624731e-01 -1.204931e+00 -7.290748e-01 -2.177338e+00
## 1517 1.954365e-03 -8.502206e-03 -2.789305e-03 -1.316669e-03 5.105511e-03
## 1518 -2.032465e-03 -5.695857e-02 -9.374695e-02 8.543958e-02 -3.687537e-01
## 1519 8.907163e-02 -3.691682e-01 -1.481917e-01 -9.625711e-02 2.046291e-01
## 1520 7.705831e-01 -1.679526e-01 -4.810618e+00 -6.722222e+00 -2.799995e+00
## 1521 3.405213e-03 -9.924858e-02 -2.059165e-01 8.542259e-02 -6.642280e-01
## 1522 2.379064e+00 -1.104657e+01 -2.594494e+00 -2.245980e-01 7.281691e+00
## 1523 8.024076e-06 1.171913e-05 -6.522247e-05 -9.767936e-05 -5.088439e-05
## 1525 1.340369e-01 -6.443907e-01 -3.360298e-01 4.352420e-01 7.014915e-01
## 1526 6.736274e-04 -3.311457e-03 -5.235468e-04 2.996436e-04 2.342882e-03
## 1527 3.619745e-05 1.659594e-04 -4.268619e-04 -6.650468e-04 -4.097850e-04
## 1528 3.148944e-05 -6.453081e-07 -2.016567e-04 -2.908994e-04 -1.264273e-04

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## 1529  3.602459e-02 -7.505476e-04 -2.307718e-01 -3.327940e-01 -1.448496e-01
## 1531  6.354048e-01 -2.728454e+00 -9.479976e-01 -4.988677e-01  1.605130e+00
## 1532  9.539232e-05 -2.012181e-06 -6.108203e-04 -8.811205e-04 -3.829008e-04
## 1535  1.036778e-04 -2.097432e-06 -6.640018e-04 -9.578355e-04 -4.163620e-04
## 1536  9.112188e-03 -4.007814e-02 -1.250421e-02 -5.275327e-03  2.446975e-02
## 1537  8.083533e-02 -3.926869e-01 -6.821392e-02  2.668448e-02  2.739709e-01
## 1538  1.309499e-04 -2.793861e-06 -8.384621e-04 -1.209495e-03 -5.255641e-04
## 1539  4.742745e-03 -7.518627e-02 -1.713630e-01  4.381945e-02 -5.166727e-01
## 1540  7.998178e-03 -3.892196e-02 -6.671449e-03  2.774544e-03  2.721138e-02
## 1542 -1.191535e-02 -3.194372e-01 -5.274181e-01  4.813187e-01 -2.081769e+00
## 1543  7.506827e-06  1.418284e-04 -2.131826e-04 -3.506975e-04 -2.526226e-04
## 1544  3.935233e-01 -3.942960e-02 -2.484025e+00 -3.573322e+00 -1.531884e+00
## 1548  2.842596e-02 -4.099677e-01 -6.489696e-01  2.951295e-01 -2.015597e+00
## 1551  2.147829e-01 -4.217308e-01 -2.162968e+00 -1.499356e+00 -3.640764e+00
## 1553  2.883928e-02 -5.483898e-01 -8.784685e-01  4.613359e-01 -2.846167e+00
## 1556 -1.011219e-01  5.226346e-01  4.924332e-02 -9.548614e-02 -3.907864e-01
## 1558 -3.622078e-05  1.780932e-04  2.808905e-05 -1.619014e-05 -1.260852e-04
## 1559  2.032733e-01 -9.368124e-01 -5.425196e-01  5.545981e-01  9.857215e-01
## 1560 -2.553863e-04 -6.407550e-03 -1.047472e-02  9.806475e-03 -4.169331e-02
## 1561  2.345033e-02 -4.131971e-02 -1.169319e-01 -1.101162e-01 -1.524762e-02
## 1562  2.706612e-02 -8.483934e-02 -7.648712e-02 -8.333453e-02  2.024742e-02
## 1563  6.053103e-05 -2.910165e-04 -1.517429e-04  1.965809e-04  3.168124e-04
## 1565  1.794136e-05  4.464920e-07 -1.160189e-04 -1.674030e-04 -7.378493e-05
## 1566  1.346920e-05  2.174190e-06 -8.981174e-05 -1.294736e-04 -5.982201e-05
## 1568  1.178926e+00 -5.233832e+00 -1.561789e+00 -5.864175e-01  3.240677e+00
## 1569  4.567192e-07 -7.131874e-05 -9.891557e-05  8.898928e-05 -3.725709e-04
## 1570  4.933288e-04 -6.155169e-01 -1.165619e+00  7.102176e-01 -4.102441e+00
## 1571  1.128151e+00 -5.149547e+00 -1.332300e+00 -2.820095e-01  3.317147e+00
## 1572 -1.151551e-03  2.372794e-05  7.374073e-03  1.063770e-02  4.622508e-03
## 1573  2.965649e+00 -1.457870e+01 -2.304906e+00  1.319172e+00  1.031460e+01
## 1574  3.657436e+00 -1.749347e+01 -3.401128e+00  6.656849e-01  1.197683e+01
## 1575  1.961534e-02 -1.969848e-01 -4.724143e-01  5.365610e-02 -1.322387e+00
## 1577 -4.847153e-03  3.345565e-02 -7.298814e-03 -2.119933e-02 -3.159457e-02
## 1578 -1.075046e-01  5.626209e-01  4.430820e-02 -1.153547e-01 -4.261635e-01

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## 1579  2.738007e-02 -5.143726e-01 -8.402344e-01  4.258585e-01 -2.709079e+00
## 1580  2.033292e-03 -2.374072e-03 -1.085842e-02 -1.430946e-02 -5.990877e-03
## 1581 -5.961117e-04 -1.593783e-02 -2.630481e-02  2.402940e-02 -1.038616e-01
## 1582 -1.079988e-02  5.262666e-02  7.724357e-03 -4.209513e-03 -4.009519e-02
## 1584  1.188313e-02 -2.543090e-04 -7.608716e-02 -1.097551e-01 -4.769494e-02
## 1585  3.988050e-01 -5.135072e-02 -2.504271e+00 -3.598749e+00 -1.535007e+00
## 1586  7.680817e-02 -3.729044e-01 -7.539820e-01 -1.602755e-01 -1.597795e+00
## 1587  2.305187e-05  4.794061e-06 -1.552936e-04 -2.238048e-04 -1.049736e-04
## 1588  1.212332e-01 -4.970361e-01 -3.737914e-01  1.699196e-01  4.687390e-01
## 1590 -3.614225e-05  2.083559e-04 -7.595081e-06 -7.688346e-05 -1.737896e-04
## 1591  3.216136e-02  3.358219e-02 -2.454443e-01 -3.648355e-01 -1.818194e-01
## 1592  1.305859e-04 -2.786430e-06 -8.361310e-04 -1.206132e-03 -5.241024e-04
## 1593  1.881488e-05 -3.560844e-07 -1.205251e-04 -1.738706e-04 -7.558987e-05
## 1595  8.696229e-06  1.493809e-07 -5.609430e-05 -8.099113e-05 -3.549039e-05
## 1596 -1.260791e-01  6.197880e-01  9.798716e-02 -5.608499e-02 -4.385084e-01
## 1597  4.691178e-02 -5.937122e-01 -1.152557e+00  3.268365e-01 -3.416282e+00
## 1598  2.310189e-02 -4.518353e-01 -1.000309e+00  3.107592e-01 -3.099469e+00
## 1599  1.082084e-03 -6.391069e-01 -1.213865e+00  7.321785e-01 -4.261724e+00
## 1600  1.602079e-03 -7.645564e-03 -4.062415e-03  5.054802e-03  8.275378e-03
## 1601  8.685535e-01 -4.061241e+00 -9.146257e-01 -2.594273e-02  2.701803e+00
## 1602  8.013195e-02 -3.925538e-01 -6.384578e-02  3.294748e-02  2.766138e-01
## 1604 -1.347498e-04 -3.614936e-03 -5.969231e-03  5.445990e-03 -2.355913e-02
## 1605  5.179067e-03 -7.704058e-05 -3.319971e-02 -4.790144e-02 -2.083701e-02
## 1606  6.278352e-05 -1.059694e-06 -4.023995e-04 -5.804635e-04 -2.526235e-04
## 1607  4.052361e-02 -2.496501e-01 -7.296890e-01 -8.548025e-02 -1.821003e+00
## 1608 -2.193709e-02  4.347934e-01 -3.587477e-01 -6.564574e-01 -5.767271e-01
## 1609 -1.465382e-03  8.195842e-03 -1.568035e-06 -2.614423e-03 -6.615332e-03
## 1610  2.232927e-06 -1.073196e-05 -5.600364e-06  7.242948e-06  1.168041e-05
## 1611  5.264233e-03  2.258353e-02 -5.987392e-02 -9.336089e-02 -5.576833e-02
## 1612  7.208829e-03 -3.310094e-02 -8.288510e-03 -1.415149e-03  2.149579e-02
## 1614  1.876193e-04 -3.878438e-06 -1.201637e-03 -1.733207e-03 -7.536866e-04
## 1616 -9.263730e-02  4.570118e-01  7.013548e-02 -4.441151e-02 -3.246748e-01
## 1617  2.556172e-05 -4.811904e-07 -1.637495e-04 -2.362247e-04 -1.027058e-04
## 1618  5.154289e+00 -2.525208e+01 -4.104376e+00  2.123286e+00  1.779564e+01

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## 1619 3.262178e-02 4.027742e-02 -2.561824e-01 -3.822564e-01 -1.939439e-01
## 1621 1.312977e-02 -4.787088e-01 -9.877155e-01 4.342894e-01 -3.240172e+00
## 1622 1.973240e-02 -4.533350e-01 -9.816979e-01 3.437083e-01 -3.096401e+00
## 1623 1.016449e-03 -2.170860e-05 -6.508205e-03 -9.388199e-03 -4.079418e-03
## 1625 -1.403958e-02 -3.753642e-01 -6.195255e-01 5.659355e-01 -2.446128e+00
## 1627 -1.157117e-03 2.438945e-05 7.409108e-03 1.068804e-02 4.644074e-03
## 1629 2.696156e-02 1.145752e-02 -1.864784e-01 -2.728298e-01 -1.266678e-01
## 1630 2.473691e-02 -2.619521e-01 -4.377607e-01 1.327290e-01 -1.262820e+00
## 1631 1.868592e-02 -8.814466e-02 -4.822077e-02 5.627199e-02 9.453131e-02
## 1632 4.962957e-06 9.876545e-07 -3.306722e-05 -4.801126e-05 -2.168113e-05
## 1634 2.169655e-02 -4.649242e-01 -7.714828e-01 4.047272e-01 -2.521611e+00
## 1635 2.965767e-05 -6.096218e-07 -1.899237e-04 -2.739738e-04 -1.190692e-04
## 1636 1.829127e-03 -1.685481e-02 -4.288454e-02 2.946304e-03 -1.175051e-01
## 1637 3.342685e+00 -1.524392e+01 -3.963719e+00 -8.634079e-01 9.807163e+00
## 1639 4.049399e-01 -1.218077e-01 -2.462723e+00 -3.516311e+00 -1.451997e+00
## 1640 1.976938e-06 -4.087591e-05 -4.659195e-05 4.076836e-05 -1.635090e-04
## 1641 9.222896e-01 -4.360679e+00 -9.158403e-01 6.774055e-02 2.942695e+00
## 1643 1.221886e-04 -2.602613e-06 -7.823700e-04 -1.128582e-03 -4.904094e-04
## 1644 5.101825e+00 -2.436150e+01 -4.790804e+00 8.485475e-01 1.664476e+01
## 1645 1.116957e-02 -7.845104e-04 -7.254834e-02 -1.025311e-01 -4.846444e-02
## 1646 7.423079e-02 -6.526706e-01 -6.597886e-01 3.514279e-01 -1.816970e+00
## 1650 9.982722e-02 -3.763639e-01 -3.345596e-01 5.403831e-02 3.223662e-01
## 1651 -8.838612e-03 -2.363843e-01 -3.901274e-01 3.563795e-01 -1.540359e+00
## 1652 8.011475e-05 -1.409844e-06 -5.134920e-04 -7.406057e-04 -3.224801e-04
## 1654 5.397191e-01 -2.536665e+00 -1.400352e+00 1.601136e+00 2.712484e+00
## 1656 5.929416e+00 -2.892936e+01 -7.876325e+00 7.873015e+00 2.389795e+01
## 1657 -9.824150e-05 9.973445e-04 -5.149912e-04 -1.061191e-03 -1.129278e-03
## 1658 5.666634e-05 -1.197736e-06 -3.628447e-04 -5.234110e-04 -2.274503e-04
## 1659 -2.664053e-02 1.346819e-01 1.642823e-02 -1.921003e-02 -9.835163e-02
## 1661 6.368802e-05 -1.289673e-06 -4.078719e-04 -5.883803e-04 -2.557239e-04
## 1662 4.530390e-01 -2.138107e+00 -1.168260e+00 1.367037e+00 2.293926e+00
## 1663 3.997128e-03 -1.953378e-02 -3.474318e-03 1.486345e-03 1.309171e-02
## 1665 7.655977e-05 -7.159555e-07 -4.922590e-04 -7.092134e-04 -3.113665e-04
## 1668 2.185939e-07 -1.048202e-06 -5.502203e-07 7.027629e-07 1.138783e-06

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## 1669	1.644138e-04	-7.731167e-04	-1.683294e-04	3.623978e-06	5.175909e-04
## 1670	6.662437e-05	-9.462649e-04	-1.101474e-03	1.075873e-03	-3.033654e-03
## 1671	5.368121e-05	-1.112755e-06	-3.437581e-04	-4.958822e-04	-2.155087e-04
## 1673	1.642197e-01	-1.195475e-02	-1.041771e+00	-1.500069e+00	-6.461507e-01
## 1674	1.954434e-01	-9.396244e-01	-4.899610e-01	6.346870e-01	1.022902e+00
## 1675	4.748793e-02	-5.249280e-01	-1.191623e+00	1.971854e-01	-3.406058e+00
## 1677	7.281620e-03	-3.406104e-02	-1.902497e-02	2.117809e-02	3.628168e-02
## 1679	8.590746e-03	-4.196784e-02	-6.979172e-03	3.301037e-03	2.947592e-02
## 1680	-6.509667e-03	3.384256e-02	2.942172e-03	-6.538957e-03	-2.546008e-02
## 1683	-1.933209e-07	-4.411976e-06	-7.824462e-06	6.719743e-06	-3.059082e-05
## 1685	4.236319e-01	-1.971023e+00	-4.573945e-01	-3.208387e-02	1.302753e+00
## 1687	-2.323904e-02	1.142452e-01	1.805518e-02	-1.034785e-02	-8.083427e-02
## 1689	1.909965e+00	-9.135849e+00	-1.775533e+00	3.486418e-01	6.255242e+00
## 1690	1.489232e-04	-3.035821e-06	-9.537332e-04	-1.375789e-03	-5.979878e-04
## 1691	6.739468e-02	-1.515708e-01	-7.151345e-01	-4.481533e-01	-1.270847e+00
## 1692	4.588393e-02	-2.100948e-01	-6.887909e-01	-1.809763e-01	-1.577433e+00
## 1693	1.506202e-03	-7.187007e-03	-3.820122e-03	4.749666e-03	7.778187e-03
## 1694	7.244021e-03	-1.448464e-04	-4.639626e-02	-6.692314e-02	-2.908590e-02
## 1695	5.931701e-01	-2.563062e+00	-8.666300e-01	-4.341283e-01	1.522887e+00
## 1696	5.487340e-07	-2.635230e-06	-1.377996e-06	1.774420e-06	2.866317e-06
## 1697	2.943044e-06	-4.198909e-05	-4.206866e-05	3.654746e-05	-1.402214e-04
## 1698	8.493195e-07	1.767675e-07	-5.664179e-06	-8.230615e-06	-3.712540e-06
## 1699	-8.194871e-05	4.057072e-04	6.031428e-05	-4.213172e-05	-2.896387e-04
## 1701	4.110780e-02	-1.905517e-01	-4.519983e-02	-4.517122e-03	1.253282e-01
## 1704	9.687400e-05	-2.042382e-06	-6.203059e-04	-8.948076e-04	-3.888416e-04
## 1705	2.468559e-02	-1.138237e-01	-6.673318e-02	6.687473e-02	1.167061e-01
## 1706	2.191495e-04	-4.525203e-06	-1.403547e-03	-2.024479e-03	-8.802587e-04
## 1707	3.533396e-01	-8.279768e-03	-2.261553e+00	-3.262091e+00	-1.416979e+00
## 1708	7.119104e-02	-2.616428e-01	-2.441080e-01	2.094160e-02	2.168536e-01
## 1710	1.024861e-04	-2.173262e-06	-6.562276e-04	-9.466213e-04	-4.113497e-04
## 1711	4.042883e-02	-1.887487e-01	-4.290807e-02	-1.783454e-03	1.253159e-01
## 1713	4.957817e-02	-1.175608e-01	-1.845263e-01	-2.256541e-01	-1.953335e-02
## 1716	-9.985491e-02	4.908770e-01	7.760189e-02	-4.442657e-02	-3.473051e-01
## 1717	8.762911e-01	-4.645700e+00	-2.845915e+00	3.438344e+00	2.238048e+00

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## 1718 4.333863e-02 -8.956032e-01 -1.675172e+00 7.171710e-01 -5.346734e+00
## 1719 5.502214e-02 -6.746050e-01 -7.420999e-01 5.109464e-01 -2.328569e+00
## 1720 2.070236e+00 -9.479513e+00 -2.410665e+00 -4.586828e-01 6.132761e+00
## 1722 1.182839e-02 -4.379315e-01 -9.023411e-01 3.990103e-01 -2.963258e+00
## 1723 5.711463e-05 -8.423154e-07 -3.663063e-04 -5.283196e-04 -2.302713e-04
## 1724 5.452103e-02 -1.189870e-01 -5.499650e-01 -3.609284e-01 -9.453631e-01
## 1725 2.063517e-04 -4.337370e-06 -1.321410e-03 -1.906080e-03 -8.285044e-04
## 1726 3.210588e-03 -1.436748e-02 -4.122115e-03 -1.371312e-03 8.999976e-03
## 1727 2.656266e-02 -3.333126e-02 -1.950621e-01 -1.973743e-01 -2.253867e-01
## 1728 2.306691e-01 -1.083858e-02 -1.470153e+00 -2.118829e+00 -9.167200e-01
## 1729 4.097826e-05 -1.825565e-04 -5.551702e-05 -1.963289e-05 1.083713e-04
## 1730 1.365527e-01 -6.564865e-01 -3.423360e-01 4.434138e-01 7.146599e-01
## 1732 2.138306e-04 -4.703209e-06 -1.369711e-03 -1.974925e-03 -8.599616e-04
## 1733 3.307828e-08 5.810973e-07 -8.805152e-07 -1.456300e-06 -1.023254e-06
## 1735 5.268338e-03 -1.937255e-02 -1.159770e-02 -1.056500e-02 8.328579e-03
## 1737 1.151579e-04 -2.438626e-06 -7.373714e-04 -1.063672e-03 -4.622203e-04
## 1738 2.809100e-03 -5.989978e-05 -1.798645e-02 -2.594580e-02 -1.127419e-02
## 1739 -3.884898e-04 2.716096e-03 -6.250142e-04 -1.767744e-03 -2.585757e-03
## 1740 -1.068279e-01 5.251520e-01 8.302524e-02 -4.752157e-02 -3.715522e-01
## 1741 2.702734e-04 -9.989970e-06 -1.746122e-03 -2.493471e-03 -1.133382e-03
## 1743 -1.361738e-02 -3.644944e-01 -6.016427e-01 5.494247e-01 -2.375220e+00
## 1745 5.041087e-05 -1.577340e-04 -1.952586e-04 -5.701234e-05 1.003435e-04
## 1746 5.803537e-02 3.415825e-03 -3.773215e-01 -5.445303e-01 -2.395942e-01
## 1748 -3.453867e-05 1.697871e-04 2.684343e-05 -1.536336e-05 -1.201265e-04
## 1749 3.447597e-02 -7.472032e-01 -1.627816e+00 5.491455e-01 -5.103952e+00
## 1750 1.0977761e-04 -2.331208e-06 -7.029013e-04 -1.013949e-03 -4.406026e-04
## 1751 7.817537e-02 -1.439523e-01 -7.676733e-01 -5.563934e-01 -1.257335e+00
## 1752 2.365029e-11 -5.928177e-12 -1.612370e-10 -2.119101e-10 -1.296629e-10
## 1753 5.117853e-03 -3.096642e-02 -2.223365e-02 2.540487e-02 -7.292791e-03
## 1754 7.115660e-01 -1.954255e+00 -2.327930e+00 -2.736398e+00 1.116042e-01
## 1755 6.592212e-02 -1.501217e-03 -4.219846e-01 -6.086900e-01 -2.644297e-01
## 1756 7.893965e-06 -1.539003e-07 -5.056368e-05 -7.294057e-05 -3.171131e-05
## 1758 2.147556e-02 -3.116188e-02 -1.125246e-01 -1.182540e-01 -2.686032e-02
## 1759 -1.071628e-04 9.854475e-04 -4.440006e-04 -9.548894e-04 -1.075040e-03

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## 1760 3.266605e-01 -1.488065e+00 -8.860306e-01 8.459519e-01 1.550500e+00
## 1761 2.692675e-02 -2.813166e-02 -2.244840e-01 -2.167108e-01 -2.917328e-01
## 1762 1.671322e+00 -8.947381e+00 -5.556204e+00 6.677693e+00 3.803673e+00
## 1763 9.092307e-01 -1.109336e+00 -4.578115e+00 -6.243831e+00 -2.004274e+00
## 1764 -3.604433e-04 -9.656703e-03 -1.594216e-02 1.455268e-02 -6.293086e-02
## 1765 3.135025e-04 -1.573559e-05 -2.013326e-03 -2.882121e-03 -1.288592e-03
## 1767 1.819871e-02 -3.883975e-04 -1.165245e-01 -1.680887e-01 -7.303913e-02
## 1770 2.295336e-02 -4.555852e-02 -2.320819e-01 -1.596664e-01 -3.923561e-01
## 1771 3.700381e-02 -6.383222e-01 -8.201776e-01 5.654527e-01 -2.721596e+00
## 1772 3.138285e-07 -1.505995e-06 -7.890179e-07 1.011866e-06 1.637092e-06
## 1774 4.341356e-04 -2.846221e-02 -4.014452e-02 3.779593e-02 -1.392353e-01
## 1775 4.592396e-02 -1.695606e-01 -1.003001e-01 -9.072800e-02 7.366495e-02
## 1777 -9.300170e-04 -1.782061e-01 -3.177834e-01 2.224368e-01 -1.142710e+00
## 1778 1.953521e-01 -9.038762e-01 -2.167075e-01 -2.475239e-02 5.930411e-01
## 1779 2.256482e+00 -9.960128e+00 -3.055383e+00 -1.236154e+00 6.114693e+00
## 1780 -4.761820e-04 3.341571e-03 -7.801384e-04 -2.191210e-03 -3.187870e-03
## 1781 3.610723e-02 -1.727479e-01 -3.352817e-02 6.664139e-03 1.182955e-01
## 1783 1.586700e-04 -3.371737e-06 -1.015977e-03 -1.465556e-03 -6.368628e-04
## 1784 6.082085e-05 -1.133366e-06 -3.896736e-04 -5.621000e-04 -2.444987e-04
## 1785 2.333793e-05 -2.543127e-05 -2.639967e-04 -2.047416e-04 -4.417324e-04
## 1786 5.006122e-01 -2.336923e+00 -1.311869e+00 1.443558e+00 2.485154e+00
## 1787 2.864426e-04 -1.023187e-02 -1.380976e-02 1.315684e-02 -4.594339e-02
## 1788 8.827740e-05 -3.949703e-06 -5.635498e-04 -8.099698e-04 -3.503051e-04
## 1789 1.351398e-04 -2.863538e-06 -8.653174e-04 -1.248234e-03 -5.424238e-04
## 1791 4.577166e-04 -2.843113e-02 -5.660542e-02 2.877768e-02 -1.911722e-01
## 1793 -1.104396e-01 5.429111e-01 8.582707e-02 -4.913702e-02 -3.841207e-01
## 1796 -1.111347e-01 5.660050e-01 6.375053e-02 -8.836674e-02 -4.166556e-01
## 1797 9.039188e-05 -1.899908e-06 -5.788107e-04 -8.349462e-04 -3.628442e-04
## 1799 5.861441e-06 -4.126068e-05 -2.303009e-05 1.841398e-05 -4.896198e-05
## 1800 1.734845e-02 -3.699889e-04 -1.110807e-01 -1.602360e-01 -6.962707e-02
## 1801 1.568093e-02 -8.779601e-02 -1.687953e-01 -1.724896e-02 -3.845876e-01
## 1802 -1.800985e-04 -5.640030e-02 -1.053626e-01 6.716614e-02 -3.750112e-01
## 1803 8.277073e-02 -1.997520e-01 -3.688158e-01 -2.481067e-01 5.031480e-02
## 1804 5.611291e-01 -2.473679e+00 -7.634175e-01 -3.136292e-01 1.515739e+00

```

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## 1805 -1.003315e-05 5.578435e-05 -4.606410e-06 -1.858377e-05 -5.820572e-05
## 1806 1.943400e-04 -4.150652e-06 -1.244336e-03 -1.794977e-03 -7.799642e-04
## 1807 1.371752e-01 -1.677653e-01 -6.932369e-01 -9.421280e-01 -3.100567e-01
## 1809 1.544035e-04 -3.265436e-06 -9.886789e-04 -1.426180e-03 -6.197708e-04
## 1810 6.033296e-05 -1.252910e-06 -3.863481e-04 -5.573226e-04 -2.422009e-04
## 1813 5.770717e-03 5.972409e-04 -3.777800e-02 -5.472377e-02 -2.426220e-02
## 1814 1.145992e-04 -2.406699e-06 -7.338175e-04 -1.058551e-03 -4.600098e-04
## 1815 7.604410e-02 -1.393797e-01 -7.249988e-01 -5.364604e-01 -1.163399e+00
## 1818 9.544717e-04 -4.534582e-03 -9.231075e-04 1.130301e-04 3.077843e-03
## 1819 3.832193e-04 -2.711305e-03 -2.261222e-03 2.435802e-03 -2.700225e-03
## 1820 1.316679e-04 -6.341235e-04 -1.174940e-04 3.256726e-05 4.376695e-04
## 1821 -1.278332e-02 6.867311e-02 3.231784e-03 -1.722199e-02 -5.338729e-02
## 1823 6.202184e-01 -2.980101e+00 -5.611168e-01 1.397946e-01 2.051824e+00
## 1824 8.149371e-04 -3.833788e-03 -8.317992e-04 2.154967e-05 2.569642e-03
## 1825 -4.483578e-06 5.325163e-05 -3.238895e-05 -6.372829e-05 -6.336498e-05
## 1826 -8.173995e-02 4.018220e-01 6.352818e-02 -3.635969e-02 -2.842938e-01
## 1828 6.570069e-05 -2.416107e-04 -2.251500e-04 1.968301e-05 2.003957e-04
## 1829 1.830606e-01 -4.737108e-03 -1.171165e+00 -1.689160e+00 -7.334308e-01
## 1830 6.715962e-02 -6.052597e-02 -5.416604e-01 -5.516953e-01 -6.633214e-01
## 1832 -5.314720e-05 3.228241e-04 -3.018475e-05 -1.456013e-04 -2.810501e-04
## 1834 3.315690e-01 -2.603525e-02 -2.101213e+00 -3.024971e+00 -1.301712e+00
## 1835 -1.161271e-04 -3.112304e-03 -5.138529e-03 4.689812e-03 -2.028295e-02
## 1838 4.489458e-01 -1.941930e+00 -6.535533e-01 -3.245088e-01 1.155758e+00
## 1839 2.765438e-02 -2.360503e-01 -5.314478e-01 4.228546e-02 -1.436062e+00
## 1840 1.042339e-04 -2.209921e-06 -6.674196e-04 -9.627658e-04 -4.183660e-04
## 1841 1.960138e-01 -8.328359e-01 -2.684271e+00 -8.116548e-01 -5.940933e+00
## 1842 4.045837e-02 -8.550313e-04 -2.590606e-01 -3.737024e-01 -1.623895e-01
## 1843 6.144589e-03 -6.418458e-02 -1.599850e-01 1.780419e-02 -4.503344e-01
## 1844 9.659015e-03 2.928694e-04 -6.241927e-02 -9.020058e-02 -3.952950e-02
## 1846 7.178932e-02 -8.277813e-02 -6.131821e-01 -5.687412e-01 -8.295919e-01
## 1847 2.012643e+00 -9.893807e+00 -1.564294e+00 8.951464e-01 6.999936e+00
## 1848 1.755145e-04 -3.500265e-06 -1.124596e-03 -1.621728e-03 -7.061706e-04
## 1850 3.527374e-03 -1.690688e-02 -8.884777e-03 1.132050e-02 1.836185e-02
## 1852 -8.085754e-05 3.990525e-04 6.099858e-05 -3.908038e-05 -2.837362e-04

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## 1853 3.819219e-02 -5.641599e-01 -1.038508e+00 3.740124e-01 -3.178216e+00
## 1856 -1.737276e-04 -7.268358e-03 -1.262137e-02 1.004949e-02 -4.774773e-02
## 1858 7.405369e-02 -5.118104e-01 -1.344386e+00 -6.636291e-02 -3.444459e+00
## 1859 1.693671e-01 -8.087945e-01 -4.290523e-01 5.357472e-01 8.758197e-01
## 1861 6.489595e-02 -1.958144e-03 -4.148637e-01 -5.982649e-01 -2.595781e-01
## 1862 -6.038114e-06 3.372727e-05 -4.097530e-06 -1.179953e-05 -3.835942e-05
## 1863 -3.670245e-02 1.909533e-01 1.642290e-02 -3.715239e-02 -1.437680e-01
## 1864 6.417572e-05 -1.349481e-06 -4.109365e-04 -5.927868e-04 -2.576023e-04
## 1865 -8.948645e-09 -1.796059e-10 5.745200e-08 8.331246e-08 3.575050e-08
## 1867 2.805274e-03 -1.371129e-02 -2.271199e-03 1.091482e-03 9.635589e-03
## 1868 5.921057e-02 -4.607842e-01 -1.245170e+00 -1.277689e-02 -3.294061e+00
## 1869 -4.754790e-04 2.950215e-03 -3.351610e-04 -1.423735e-03 -2.592589e-03
## 1870 2.256482e+00 -9.960128e+00 -3.055383e+00 -1.236154e+00 6.114693e+00
## 1872 6.285746e-05 -1.281749e-06 -4.025494e-04 -5.806914e-04 -2.523937e-04
## 1873 1.010254e-01 -4.856764e-01 -2.532780e-01 3.280228e-01 5.287051e-01
## 1875 -2.987565e-04 -8.011778e-03 -1.321887e-02 1.207366e-02 -5.218659e-02
## 1876 1.373559e-04 -2.931825e-06 -8.794775e-04 -1.268660e-03 -5.512718e-04
## 1877 -7.073716e-04 3.497015e-03 5.271512e-04 -3.535753e-04 -2.490376e-03
## 1878 1.307605e-01 -2.921039e-03 -8.373830e-01 -1.207562e+00 -5.253704e-01
## 1879 1.026111e-04 -2.160860e-06 -6.570462e-04 -9.478052e-04 -4.118779e-04
## 1880 2.147800e+00 -1.087576e+01 -2.211058e+00 1.339614e+00 5.510952e+00
## 1881 2.703584e-04 -5.761004e-06 -1.731110e-03 -2.497135e-03 -1.085135e-03
## 1885 3.938081e-02 -8.406984e-04 -2.521512e-01 -3.637325e-01 -1.580517e-01
## 1887 6.960709e-02 -9.874677e-04 -4.462599e-01 -6.438968e-01 -2.801249e-01
## 1890 1.093236e-03 -4.959086e-03 -1.327458e-03 -3.349467e-04 3.165122e-03
## 1891 1.044010e-04 -2.217990e-06 -6.684828e-04 -9.642995e-04 -4.190263e-04
## 1892 1.493891e-04 -3.188989e-06 -9.565254e-04 -1.379802e-03 -5.995676e-04
## 1894 -4.872523e-02 2.395262e-01 3.786929e-02 -2.167385e-02 -1.694676e-01
## 1895 1.324216e+00 -6.026502e+00 -1.584526e+00 -3.666253e-01 3.866121e+00
## 1896 2.234262e-04 -5.633920e-06 -1.440778e-03 -2.064930e-03 -9.255750e-04
## 1897 -9.103931e-05 -2.446255e-03 -4.040358e-03 3.683982e-03 -1.594321e-02
## 1899 1.253966e-05 -6.028357e-05 -3.143815e-05 4.071435e-05 6.562407e-05
## 1900 2.267358e-01 -2.267454e-01 -1.209012e+00 -1.658587e+00 -6.035164e-01
## 1901 4.168106e-10 -1.582966e-09 -1.402468e-09 2.477239e-10 1.320764e-09

```

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## 1902 -5.812686e-02 3.155035e-01 1.097014e-02 -8.472023e-02 -2.477171e-01
## 1903 2.518681e-02 -5.173624e-02 -2.576248e-01 -1.730868e-01 -4.412551e-01
## 1905 -7.192868e-05 3.549410e-04 5.431943e-05 -3.467402e-05 -2.523221e-04
## 1906 -3.429606e-05 2.648935e-04 -8.555332e-05 -2.061399e-04 -2.707836e-04
## 1907 -3.727396e-03 1.840897e-02 2.798513e-03 -1.827383e-03 -1.309504e-02
## 1908 5.785563e-02 -5.365486e-01 -1.289298e+00 1.120396e-01 -3.549934e+00
## 1909 -2.812550e-05 1.384008e-04 2.162265e-05 -1.280787e-05 -9.823942e-05
## 1910 1.363228e-04 -2.902294e-06 -8.728741e-04 -1.259134e-03 -5.471441e-04
## 1911 1.662667e-06 -4.820871e-05 -5.881731e-05 5.209305e-05 -2.121572e-04
## 1913 1.826636e-02 -8.447427e-02 -2.031215e-02 -2.398587e-03 5.538690e-02
## 1915 7.879716e-05 -1.665158e-06 -5.045519e-04 -7.278276e-04 -3.162784e-04
## 1916 1.330642e-01 -2.428259e-01 -1.242285e+00 -9.334109e-01 -1.963052e+00
## 1917 2.093446e-02 -4.199462e-01 -9.263936e-01 2.937706e-01 -2.878912e+00
## 1918 1.208202e-01 -3.006761e-01 -1.332340e+00 -7.686194e-01 -2.459346e+00
## 1919 6.118311e-02 -2.106125e-01 -2.213860e-01 -1.917447e-02 1.588342e-01
## 1920 5.033810e+00 -2.323332e+01 -5.650424e+00 -7.518906e-01 1.519303e+01
## 1921 1.003798e-05 1.050826e-05 -7.659647e-05 -1.139223e-04 -5.669829e-05
## 1923 7.304435e-02 -1.605777e-01 -2.855101e-01 -3.590854e-01 -4.917795e-02
## 1924 1.018051e-01 -1.260209e-01 -8.833435e-01 -7.958357e-01 -1.227167e+00
## 1925 3.474057e-06 2.323843e-08 -2.235815e-05 -3.228064e-05 -1.409780e-05
## 1927 1.172247e-02 -5.823619e-04 -7.555031e-02 -1.059723e-01 -4.549245e-02
## 1929 -3.221579e-04 2.465201e-03 -7.630253e-04 -1.886959e-03 -2.470244e-03
## 1930 3.372738e-02 -8.686808e-02 -1.458401e-01 -8.680603e-02 3.108481e-02
## 1932 6.869543e-02 -5.158522e-01 -1.317510e+00 -1.193390e-02 -3.449518e+00
## 1933 1.713561e-04 -3.643577e-06 -1.097207e-03 -1.582727e-03 -6.877865e-04
## 1934 9.627889e-03 -4.379249e-04 -6.146810e-02 -8.829982e-02 -3.817954e-02
## 1935 -1.142125e-01 5.766723e-01 7.127189e-02 -8.090892e-02 -4.205298e-01
## 1937 -1.009071e-03 2.083162e-05 6.460755e-03 9.321198e-03 4.048112e-03
## 1938 -6.298000e-01 1.984711e-02 4.027350e+00 5.800282e+00 2.515258e+00
## 1939 1.033100e-01 -4.379824e-01 -1.127171e+00 -3.520914e-01 -2.354149e+00
## 1940 5.891129e-05 -1.200167e-06 -3.772802e-04 -5.442384e-04 -2.365541e-04
## 1943 2.922794e-02 -5.633826e-01 -9.367876e-01 4.677462e-01 -3.021794e+00
## 1944 2.465465e-04 -5.273157e-06 -1.578633e-03 -2.277164e-03 -9.895682e-04
## 1945 1.422449e-03 -1.615283e-03 -7.411396e-03 -1.003694e-02 -3.620901e-03

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## 1949	1.998102e-01	-8.811512e-01	-2.884583e+00	-8.135322e-01	-6.506472e+00
## 1951	6.774709e-05	-1.431479e-06	-4.337963e-04	-6.257614e-04	-2.719250e-04
## 1952	-1.446875e-02	7.146913e-02	1.084594e-02	-7.104554e-03	-5.084151e-02
## 1954	2.637322e-03	-1.155815e-02	-3.666548e-03	-1.608989e-03	7.019431e-03
## 1955	5.019120e-02	-3.319768e-01	-9.464694e-01	-7.935206e-02	-2.406308e+00
## 1956	3.942047e-02	-2.284642e-01	-6.822553e-01	-9.975798e-02	-1.674507e+00
## 1957	2.326015e-04	-1.576282e-04	-1.822578e-03	-1.983173e-03	-2.071728e-03
## 1958	5.602767e-01	-2.754225e+00	-4.354640e-01	2.491928e-01	1.948635e+00
## 1959	7.818687e-02	-3.763312e-01	-6.999044e-02	1.890732e-02	2.596525e-01
## 1960	3.529833e-02	-5.654530e-01	-9.720788e-01	4.158790e-01	-3.039557e+00
## 1962	-4.607625e-05	2.265041e-04	3.581037e-05	-2.049541e-05	-1.602548e-04
## 1963	2.820878e-02	-4.398879e-01	-9.297353e-01	2.712285e-01	-2.822560e+00
## 1965	8.603029e-05	-1.823292e-06	-5.508602e-04	-7.946274e-04	-3.453013e-04
## 1966	3.023871e-01	-1.873474e-02	-1.922039e+00	-2.768646e+00	-1.194812e+00
## 1968	-6.094781e-06	8.803835e-05	-7.267425e-05	-1.204503e-04	-1.388303e-04
## 1970	-2.304472e-04	1.132843e-03	1.791015e-04	-1.025049e-04	-8.015095e-04
## 1971	1.097761e-04	-2.331208e-06	-7.029013e-04	-1.013949e-03	-4.406026e-04
## 1972	2.212701e-01	-3.090285e-01	-1.067013e+00	-1.441816e+00	-4.223080e-01
## 1973	4.306679e-02	-2.932105e-02	-3.294227e-01	-3.648038e-01	-3.621381e-01
## 1975	2.742742e+00	-9.361864e+00	-6.869274e+00	-6.931490e+00	3.229256e+00
## 1978	6.055014e-02	-1.656792e-01	-6.647564e-01	-3.593830e-01	-1.248070e+00
## 1979	1.552252e-08	-7.249656e-08	-4.065747e-08	4.484659e-08	7.709421e-08
## 1982	-1.074516e-07	-2.929969e-06	-4.828245e-06	4.413797e-06	-1.902604e-05
## 1984	2.610596e-06	-5.581106e-08	-1.671545e-05	-2.411210e-05	-1.047774e-05
## 1986	3.229728e-01	-1.494664e+00	-8.610313e-01	9.047450e-01	1.582519e+00
## 1987	-2.324576e-03	-5.913674e-01	-1.100509e+00	7.090795e-01	-3.925710e+00
## 1988	-4.519610e-04	2.952050e-03	-4.882254e-04	-1.645522e-03	-2.690000e-03
## 1989	1.559710e-04	-3.247162e-06	-9.988234e-04	-1.440774e-03	-6.262716e-04
## 1990	4.981471e-05	-1.043516e-06	-3.189834e-04	-4.601430e-04	-1.999634e-04
## 1991	2.074284e-01	-4.605076e-01	-8.043149e-01	-1.013298e+00	-1.344353e-01
## 1994	4.409734e+00	-1.974192e+01	-5.652192e+00	-1.867207e+00	1.237422e+01
## 1995	3.816001e-05	-7.017705e-07	-2.444844e-04	-3.526855e-04	-1.533791e-04
## 1997	-3.927615e-02	2.028179e-01	1.932814e-02	-3.673990e-02	-1.515143e-01
## 1998	-1.917198e-02	-5.131498e-01	-8.470694e-01	7.734790e-01	-3.344112e+00

```

## 2002 1.790100e-01 -6.957874e-01 -2.357507e+00 -8.241525e-01 -5.070657e+00
## 2004 -1.010210e-07 4.956410e-07 7.714653e-08 -4.369530e-08 -3.565517e-07
## 2005 4.054959e-02 -6.379571e-01 -8.648566e-01 5.260596e-01 -2.794397e+00
## 2006 2.379566e-02 -2.454058e-03 -1.512594e-01 -2.138018e-01 -9.116545e-02
## 2007 9.406479e-05 -1.996378e-06 -6.023023e-04 -8.688332e-04 -3.775443e-04
## 2008 1.594003e-02 -1.464782e-01 -3.780242e-01 2.249373e-02 -1.037427e+00
## 2009 -1.279683e-01 6.344084e-01 9.332511e-02 -6.747482e-02 -4.532423e-01
## 2010 4.707991e-02 -2.767897e-01 -8.225570e-01 -1.146548e-01 -2.026908e+00
## 2011 1.534426e-01 -3.277636e-03 -9.824748e-01 -1.417237e+00 -6.158264e-01
## 2013 -4.595950e-02 2.278656e-01 3.349531e-02 -2.427160e-02 -1.628105e-01
## 2017 1.685012e-05 6.889859e-07 -1.093395e-04 -1.577726e-04 -6.989117e-05
## 2018 3.921617e-01 -1.757219e+00 -1.099368e+00 9.612201e-01 1.818341e+00
## 2019 5.780967e-05 -1.179085e-06 -3.702229e-04 -5.340585e-04 -2.321268e-04
## 2020 4.804901e-01 -2.646527e+00 -1.704401e+00 2.023736e+00 7.044112e-01
## 2021 4.748793e-02 -5.249280e-01 -1.191623e+00 1.971854e-01 -3.406058e+00
## 2022 1.472131e-02 -6.970963e-03 -8.884939e-02 -1.185925e-01 -4.621310e-02
## 2023 4.492885e+00 -2.163274e+01 -4.013290e+00 1.101242e+00 1.493201e+01
## 2025 6.101544e-10 -1.799055e-09 -2.465267e-09 -9.838096e-10 9.626604e-10
## 2026 1.073021e-01 -6.484367e-01 -1.895872e+00 -2.376386e-01 -4.704239e+00
## 2027 1.333511e-02 -6.271754e-02 -3.456406e-02 3.967155e-02 6.710130e-02
## 2028 -6.161652e-06 -1.327327e-03 -2.538984e-03 1.579251e-03 -9.011203e-03
## 2029 8.773746e-05 3.205590e-04 -9.325690e-04 -1.448176e-03 -8.461624e-04
## 2030 8.913461e-02 -3.594180e-01 -2.472126e-01 4.811677e-02 2.940515e-01
## 2031 3.191308e-02 -7.709180e-02 -1.421607e-01 -9.542386e-02 1.956907e-02
## 2032 -2.128837e-05 -5.693505e-04 -9.397349e-04 8.583457e-04 -3.710297e-03
## 2033 9.200533e-07 -1.044196e-07 -6.051076e-06 -8.399417e-06 -4.257232e-06
## 2034 5.817487e-02 -2.180161e-03 -3.742489e-01 -5.362275e-01 -2.397018e-01
## 2035 5.590963e-05 -6.988955e-07 -3.588086e-04 -5.174449e-04 -2.258376e-04
## 2036 1.601667e-01 -9.667608e-01 -2.836560e+00 -3.584079e-01 -7.038017e+00
## 2037 -6.869917e-07 3.748387e-06 8.391666e-08 -1.046140e-06 -3.020468e-06
## 2038 -4.138314e-08 -9.083940e-07 -1.545179e-06 1.413169e-06 -6.141919e-06
## 2039 -5.838354e-05 2.886340e-04 4.324161e-05 -2.926240e-05 -2.062587e-04
## 2041 -7.644032e-05 3.774520e-04 5.739329e-05 -3.735194e-05 -2.686587e-04
## 2042 4.415956e-02 -7.226331e-01 -1.069365e+00 5.851467e-01 -3.430778e+00

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## 2043	2.370116e-05	-1.101940e-05	-1.431985e-04	-1.914898e-04	-7.481177e-05
## 2044	6.079070e-02	-3.153461e-01	-9.825411e-01	-1.968385e-01	-2.336657e+00
## 2046	2.927032e-05	2.071098e-05	-2.417817e-04	-3.205732e-04	-2.306091e-04
## 2047	3.446748e-02	-1.656725e-01	-8.643587e-02	1.118385e-01	1.803260e-01
## 2048	6.556731e-03	-3.211460e-02	-5.230843e-03	2.684436e-03	2.262467e-02
## 2049	-6.227386e-03	-1.306621e+00	-2.350371e+00	1.595894e+00	-8.470961e+00
## 2051	4.715245e-06	1.265187e-05	-4.484883e-05	-6.877527e-05	-3.844301e-05
## 2053	3.607694e-02	-7.136173e-04	-2.310619e-01	-3.333289e-01	-1.448784e-01
## 2054	4.374715e-03	-2.109116e-02	-3.876500e-03	1.126394e-03	1.458052e-02
## 2055	3.792693e-04	-8.100164e-06	-2.428417e-03	-3.503034e-03	-1.522160e-03
## 2056	5.932950e-02	-2.411118e-01	-1.042143e-01	-7.358424e-02	1.289635e-01
## 2058	1.600741e-04	-4.427393e-04	-6.683787e-04	-3.306874e-04	2.075740e-04
## 2061	1.698154e-04	-3.552040e-06	-1.087428e-03	-1.568618e-03	-6.817420e-04
## 2064	2.688409e-04	-1.292523e-03	-6.739387e-04	8.731158e-04	1.407102e-03
## 2065	4.307648e-01	-1.988898e+00	-1.146957e+00	1.185307e+00	2.096265e+00
## 2066	3.210588e-03	-1.436748e-02	-4.122115e-03	-1.371312e-03	8.999976e-03
## 2067	6.272492e-08	2.056103e-06	-2.787485e-06	-4.654532e-06	-3.457623e-06
## 2068	6.170056e-02	-3.092644e-01	-9.770795e-01	-2.123905e-01	-2.300298e+00
## 2069	5.180158e-01	-2.212262e+00	-7.867892e-01	-4.306730e-01	1.290031e+00
## 2070	5.545050e-05	-1.086881e-06	-3.551779e-04	-5.123546e-04	-2.227557e-04
## 2071	1.360178e-04	-2.902803e-06	-8.709105e-04	-1.256302e-03	-5.459026e-04
## 2072	-8.262256e-03	-5.896823e-01	-1.054261e+00	7.649410e-01	-3.874691e+00
## 2073	-2.168188e-02	1.229982e-01	-2.013994e-03	-4.210905e-02	-1.005319e-01
## 2074	-1.203849e-02	-3.228294e-01	-5.330478e-01	4.863943e-01	-2.103913e+00
## 2076	3.654598e-02	-7.495123e-04	-2.340354e-01	-3.376099e-01	-1.467213e-01
## 2077	4.715280e-02	-4.591738e-01	-5.170155e-01	2.713254e-01	-1.488144e+00
## 2078	2.352676e-02	-1.334581e-01	-3.811616e-01	-5.737085e-02	-9.246684e-01
## 2081	1.146943e-06	5.717724e-07	-8.042195e-06	-1.177639e-05	-5.551123e-06
## 2082	1.552252e-08	-7.249656e-08	-4.065747e-08	4.484659e-08	7.709421e-08
## 2083	-1.565891e-07	8.756751e-07	-1.178293e-09	-2.794402e-07	-7.098258e-07
## 2084	-5.212446e-06	2.629098e-05	3.284071e-06	-3.638577e-06	-1.915045e-05
## 2085	8.010416e-02	-3.401159e-01	-1.110663e+00	-3.357701e-01	-2.464411e+00
## 2090	3.805281e+00	-1.787358e+01	-3.914516e+00	4.573433e-02	1.196038e+01
## 2091	7.568363e-05	5.896549e-04	-1.167574e-03	-1.869450e-03	-1.217851e-03

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## 2092 -3.976148e-05 -1.072129e-03 -1.771665e-03 1.613308e-03 -6.988025e-03
## 2093 -1.147228e-04 -3.072708e-03 -5.072384e-03 4.630986e-03 -2.002365e-02
## 2094 1.169084e+00 -6.189676e+00 -3.786028e+00 4.574975e+00 3.025572e+00
## 2095 9.947276e-02 -2.936452e-01 -1.181958e+00 -5.787399e-01 -2.326419e+00
## 2096 7.213899e-03 -3.380970e-02 -1.879548e-02 2.115316e-02 3.607156e-02
## 2097 3.327173e-02 -1.353448e-01 -1.007702e-01 3.878487e-02 1.233125e-01
## 2098 4.600772e+00 -2.088566e+01 -5.565454e+00 -1.377497e+00 1.335192e+01
## 2100 -1.555732e-05 -4.207961e-04 -6.949574e-04 6.331302e-04 -2.740649e-03
## 2101 2.826076e-06 3.687151e-06 -2.284367e-05 -3.363343e-05 -1.826805e-05
## 2104 1.954365e-03 -8.502206e-03 -2.789305e-03 -1.316669e-03 5.105511e-03
## 2105 1.067615e-08 -4.927719e-08 -2.844350e-08 2.931735e-08 5.188196e-08
## 2107 -1.753973e-06 9.032963e-06 8.911497e-07 -1.592518e-06 -6.728950e-06
## 2110 3.509324e-02 2.095495e-06 -2.255618e-01 -3.256171e-01 -1.419935e-01
## 2112 1.326650e-02 -4.699640e-01 -9.719707e-01 4.228948e-01 -3.182176e+00
## 2113 1.061718e-04 -2.255304e-06 -6.798220e-04 -9.806565e-04 -4.261346e-04
## 2114 8.419557e-02 -4.086911e-01 -2.161947e-01 2.778455e-01 4.194099e-01
## 2116 5.179886e-02 -2.448288e-01 -5.153030e-02 3.643330e-03 1.651469e-01
## 2117 2.119345e-06 -4.532075e-08 -1.357002e-05 -1.957477e-05 -8.506161e-06
## 2118 4.612527e-06 6.016290e-06 -3.676299e-05 -5.475143e-05 -2.841377e-05
## 2119 6.071795e-03 6.620202e-04 -3.978812e-02 -5.764451e-02 -2.557894e-02
## 2121 1.444742e-02 -6.941676e-02 -3.625225e-02 4.680877e-02 7.553409e-02
## 2122 8.302669e-05 -1.760304e-06 -5.316269e-04 -7.668830e-04 -3.332440e-04
## 2123 1.675770e-01 -8.970424e-03 -1.078800e+00 -1.540354e+00 -6.967176e-01
## 2124 2.345228e-01 -1.112009e+00 -6.005457e-01 7.211849e-01 1.197500e+00
## 2127 3.540629e-02 -7.231975e-04 -2.267403e-01 -3.270873e-01 -1.421502e-01
## 2128 4.999431e-02 -6.223204e-04 -3.206197e-01 -4.626420e-01 -2.013289e-01
## 2129 1.210786e-04 -2.568833e-06 -7.752761e-04 -1.118350e-03 -4.859742e-04
## 2130 4.681550e-01 -2.182423e+00 -5.005817e-01 -2.705169e-02 1.446175e+00
## 2132 1.293545e-01 -7.850587e-01 -2.249200e+00 -2.711142e-01 -5.578402e+00
## 2137 6.446492e-02 -9.611315e-04 -4.133106e-01 -5.961033e-01 -2.592743e-01
## 2139 -7.487958e-04 3.910972e-03 3.173772e-04 -7.875847e-04 -2.956105e-03
## 2140 1.079636e-04 -2.293044e-06 -6.912951e-04 -9.972066e-04 -4.333269e-04
## 2141 1.399160e-04 -2.972581e-06 -8.958903e-04 -1.292335e-03 -5.615804e-04
## 2142 -6.155952e-05 3.400540e-04 4.802288e-06 -1.014335e-04 -2.714397e-04

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## 2145 2.256482e+00 -9.960128e+00 -3.055383e+00 -1.236154e+00 6.114693e+00
## 2146 1.079636e-04 -2.293044e-06 -6.912951e-04 -9.972066e-04 -4.333269e-04
## 2147 3.152464e-02 -2.878428e-01 -6.206125e-01 7.553288e-02 -1.706348e+00
## 2149 -6.381986e-05 3.139953e-04 4.918759e-05 -2.894347e-05 -2.226639e-04
## 2151 2.340840e-06 8.837901e-05 -1.309422e-04 -2.003772e-04 -1.833447e-04
## 2154 3.083298e-02 -5.378812e-01 -7.931842e-01 4.516702e-01 -2.573206e+00
## 2155 4.689164e-04 -1.001482e-05 -3.002417e-03 -4.331038e-03 -1.881949e-03
## 2156 7.321804e-04 -3.568174e-03 -6.049155e-04 2.641080e-04 2.498653e-03
## 2157 1.112809e-01 -2.555666e-02 -7.562600e-01 -1.000893e+00 -6.009391e-01
## 2158 1.297455e-01 -6.034340e-01 -3.418984e-01 3.684480e-01 6.398613e-01
## 2159 8.802770e-02 -1.123141e-01 -7.721951e-01 -6.848037e-01 -1.088986e+00
## 2161 1.864584e-04 -3.918567e-06 -1.193945e-03 -1.722306e-03 -7.484297e-04
## 2163 4.966924e-03 -1.870013e-02 -1.043271e-02 -9.098201e-03 8.520398e-03
## 2164 8.357833e-02 -2.367367e-01 -3.439095e-01 -1.591234e-01 1.185069e-01
## 2166 9.673291e-03 -4.734241e-04 -6.175177e-02 -8.858929e-02 -3.826943e-02
## 2167 1.866437e-03 -3.986200e-05 -1.195058e-02 -1.723891e-02 -7.490757e-03
## 2168 1.539782e-02 -4.577288e-01 -7.253754e-01 4.526726e-01 -2.469673e+00
## 2169 1.879582e-04 -3.997445e-06 -1.203494e-03 -1.736066e-03 -7.543772e-04
## 2170 -1.160209e-07 5.688364e-07 8.803547e-08 -4.966976e-08 -4.116458e-07
## 2171 3.321699e-06 7.980713e-09 -2.136088e-05 -3.083668e-05 -1.345673e-05
## 2172 -4.382088e-02 2.154515e-01 3.401817e-02 -1.956021e-02 -1.524627e-01
## 2173 1.214302e-02 -1.638038e-03 -7.666175e-02 -1.084972e-01 -4.603120e-02
## 2174 1.441286e+00 -4.989089e+00 -3.532406e+00 -3.499437e+00 1.807647e+00
## 2176 5.236976e-05 -1.032827e-06 -3.354338e-04 -4.838755e-04 -2.103603e-04
## 2177 2.112408e-01 -9.123699e-01 -2.735550e+00 -8.076739e-01 -6.001684e+00
## 2179 7.832486e-02 -2.092894e-02 -5.378771e-01 -7.010694e-01 -4.426450e-01
## 2180 2.597581e-04 -5.547758e-06 -1.663201e-03 -2.399196e-03 -1.042514e-03
## 2182 1.110582e-05 1.453109e-04 -2.453854e-04 -3.923413e-04 -2.861809e-04
## 2183 7.539265e-05 -9.449614e-07 -4.840728e-04 -6.978180e-04 -3.051576e-04
## 2184 2.308143e-02 -9.145407e-02 -4.326675e-02 -3.327726e-02 4.651082e-02
## 2185 1.406401e-01 -6.708948e-01 -1.329514e-01 2.203577e-02 4.575042e-01
## 2186 -2.132175e-05 1.059980e-04 1.467219e-05 -1.196970e-05 -7.742229e-05
## 2189 3.640857e-01 -1.235915e-02 -2.327155e+00 -3.354058e+00 -1.457510e+00
## 2190 2.094057e+00 -8.399227e+00 -4.817315e+00 -9.152056e-01 5.593675e+00

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## 2191 1.815022e+00 -8.808744e+00 -1.541259e+00 5.825754e-01 6.138742e+00
## 2192 4.494267e-01 -1.655842e-01 -2.735362e+00 -3.852447e+00 -1.664822e+00
## 2194 1.027303e-10 -1.473881e-10 -5.484823e-10 -5.749114e-10 -1.600765e-10
## 2195 3.177897e-06 3.609034e-08 -2.046720e-05 -2.955755e-05 -1.291329e-05
## 2196 -4.386839e-05 4.819281e-04 -2.736926e-04 -5.466629e-04 -5.648021e-04
## 2197 3.746247e-02 -1.481436e-04 -2.406172e-01 -3.473030e-01 -1.513497e-01
## 2198 1.878869e-02 2.654657e-04 -1.210682e-01 -1.748562e-01 -7.642705e-02
## 2199 1.665851e-06 1.412921e-04 -1.812937e-04 -2.801401e-04 -2.142858e-04
## 2200 1.026512e-04 -2.181105e-06 -6.572782e-04 -9.481366e-04 -4.120024e-04
## 2201 -2.032329e-04 9.990636e-04 1.579527e-04 -9.040154e-05 -7.068493e-04
## 2203 2.715269e-05 -5.058709e-07 -1.739488e-04 -2.509382e-04 -1.091100e-04
## 2207 4.815763e-02 -3.120951e-01 -8.959047e-01 -8.358624e-02 -2.265776e+00
## 2209 8.484235e-01 -3.110371e+00 -1.878864e+00 -1.720131e+00 1.325971e+00
## 2210 2.921776e-02 -6.240114e-04 -1.870779e-01 -2.698631e-01 -1.172626e-01
## 2213 1.054287e-02 -7.266996e-04 -6.710028e-02 -9.606296e-02 -4.134158e-02
## 2214 3.877621e-04 2.282166e-01 -2.678017e-01 -4.495794e-01 -3.476755e-01
## 2215 6.986953e-05 -1.849182e-05 -4.341904e-04 -5.997531e-04 -2.467807e-04
## 2216 3.219077e-06 1.304967e-07 -2.084197e-05 -3.012679e-05 -1.322868e-05
## 2218 2.715147e-02 -4.428561e-01 -5.699046e-01 4.979703e-01 -1.658701e+00
## 2219 1.826636e-02 -8.447427e-02 -2.031215e-02 -2.398587e-03 5.538690e-02
## 2220 1.053671e-01 -4.254620e-01 -3.302063e-01 1.307029e-01 3.948127e-01
## 2221 1.837253e-04 -3.872565e-06 -1.176469e-03 -1.697048e-03 -7.375465e-04
## 2222 -7.880835e-03 6.977904e-02 -2.954974e-02 -6.489723e-02 -7.491590e-02
## 2223 4.256377e-02 -5.600107e-04 -2.729324e-01 -3.938210e-01 -1.713607e-01
## 2224 9.676955e-03 -4.471696e-02 -1.080104e-02 -1.339784e-03 2.928838e-02
## 2225 1.565173e-02 -7.118953e-04 -1.009155e-01 -1.441214e-01 -6.529490e-02
## 2226 4.934574e-05 -9.498692e-07 -3.160971e-04 -4.559824e-04 -1.982642e-04
## 2227 -1.231240e-05 6.222499e-05 -3.515456e-05 -2.004095e-05 -1.602293e-04
## 2229 3.187758e-02 -2.560912e-01 -6.203619e-01 1.994289e-02 -1.651166e+00
## 2230 1.944455e-04 -4.014635e-06 -1.245404e-03 -1.796287e-03 -7.812266e-04
## 2231 4.110780e-02 -1.905517e-01 -4.519983e-02 -4.517122e-03 1.253282e-01
## 2234 6.155893e-02 -2.946751e-01 -9.483657e-01 -2.279511e-01 -2.201858e+00
## 2235 -4.011137e-04 2.778994e-03 -6.164553e-04 -1.775099e-03 -2.631723e-03
## 2236 -5.552638e-04 3.205396e-03 -1.154853e-04 -1.188142e-03 -2.659899e-03

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## 2237	2.304892e-01	-1.450609e+00	-7.069652e-01	4.906255e-01	-1.119969e+00
## 2238	7.501509e-01	-3.627142e+00	-6.525494e-01	2.140296e-01	2.516449e+00
## 2241	6.272248e-02	-1.060175e-01	-2.821093e-01	-3.724942e-01	-9.372427e-02
## 2242	-8.610115e-05	4.367701e-04	4.996369e-05	-6.540068e-05	-3.239813e-04
## 2245	-1.914911e-06	9.368878e-06	1.412985e-06	-7.976742e-07	-6.933025e-06
## 2246	1.725730e-04	-3.661958e-06	-1.105011e-03	-1.593983e-03	-6.926931e-04
## 2248	2.058155e-02	-2.425888e-01	-4.870617e-01	1.185347e-01	-1.420600e+00
## 2249	9.302191e-02	-2.355196e-02	-6.350975e-01	-8.337994e-01	-5.136583e-01
## 2250	2.513150e+00	-8.231712e+00	-6.692686e+00	-7.036337e+00	2.428626e+00
## 2251	9.808364e-03	-9.038132e-05	-6.308731e-02	-9.054907e-02	-3.936943e-02
## 2252	6.271229e-01	-1.452164e-02	-4.017079e+00	-5.790846e+00	-2.523208e+00
## 2253	1.897718e-02	-8.833820e-02	-2.044046e-02	-1.351430e-03	5.842291e-02
## 2254	1.494110e-03	-5.746638e-03	-2.998521e-03	-2.496631e-03	2.749429e-03
## 2258	3.334221e-01	-1.576132e+00	-8.577196e-01	1.012752e+00	1.693187e+00
## 2259	1.347575e-02	-8.773908e-02	-1.799057e-01	-3.680128e-03	-4.437588e-01
## 2260	-9.422957e-10	4.095626e-07	-4.661109e-07	-8.017344e-07	-6.268874e-07
## 2263	1.389563e-02	-6.676302e-02	-3.486971e-02	4.501446e-02	7.264437e-02
## 2266	5.043072e-02	-2.487584e-01	-5.324258e-01	-1.087445e-01	-1.156017e+00
## 2269	2.001229e-01	-1.739367e-02	-1.266285e+00	-1.822440e+00	-7.830937e-01
## 2270	1.083767e-06	7.533998e-06	-1.562533e-05	-2.495764e-05	-1.591641e-05
## 2271	-1.405256e-08	-4.518193e-08	-1.511816e-07	1.408720e-07	-6.652875e-07
## 2272	-5.924225e-03	-1.299986e+00	-2.340628e+00	1.585150e+00	-8.430250e+00
## 2273	7.336195e-03	-1.100741e-02	-3.466540e-02	-4.634102e-02	-1.327825e-02
## 2275	1.243612e-04	-2.651927e-06	-7.962767e-04	-1.148642e-03	-4.991228e-04
## 2276	2.933736e-06	-2.454308e-05	-6.501413e-05	1.332580e-06	-1.748496e-04
## 2277	5.231084e+00	-2.428973e+01	-5.704108e+00	-4.927546e-01	1.601191e+01
## 2278	-1.200612e-06	5.633927e-06	5.315172e-07	-1.945535e-07	-5.679385e-06
## 2280	8.442979e-02	-7.606013e-01	-9.627374e-01	3.731115e-01	-2.667753e+00
## 2281	1.097761e-04	-2.331208e-06	-7.029013e-04	-1.013949e-03	-4.406026e-04
## 2284	1.208790e+00	-5.834789e+00	-1.062978e+00	3.251610e-01	4.039731e+00
## 2285	3.507266e-07	-1.683236e-06	-8.816357e-07	1.131298e-06	1.829933e-06
## 2286	-1.179096e-06	-3.519020e-05	-5.895246e-05	5.178643e-05	-2.298537e-04
## 2287	2.563273e-04	-7.339684e-06	-1.645069e-03	-2.365426e-03	-1.042014e-03
## 2288	8.901423e-02	-3.542586e-01	-1.649842e-01	-1.252216e-01	1.819749e-01

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## 2289 5.580485e-06 -9.530932e-07 -3.970648e-05 -5.121976e-05 -3.442516e-05
## 2290 7.540903e-02 -2.940846e-01 -1.466854e-01 -1.180027e-01 1.449637e-01
## 2293 4.946618e-01 -2.293712e+00 -1.318325e+00 1.403962e+00 2.437134e+00
## 2294 4.115983e-02 6.262612e-04 -2.659086e-01 -3.833119e-01 -1.692121e-01
## 2295 3.210588e-03 -1.436748e-02 -4.122115e-03 -1.371312e-03 8.999976e-03
## 2298 1.738131e+00 -8.463443e+00 -1.443927e+00 6.130239e-01 5.921352e+00
## 2301 2.703349e-04 -6.053776e-06 -1.733314e-03 -2.497061e-03 -1.091849e-03
## 2303 2.668005e-02 -8.212916e-02 -7.712383e-02 -8.511378e-02 1.765293e-02
## 2304 -1.486514e-04 7.307444e-04 1.155259e-04 -6.611726e-05 -5.170363e-04
## 2306 4.023819e-08 -1.911034e-07 -1.027926e-07 1.245424e-07 2.060363e-07
## 2307 3.876472e+00 -1.774390e+01 -4.521162e+00 -8.713140e-01 1.147379e+01
## 2308 3.325162e-02 2.706740e-02 -2.448335e-01 -3.620637e-01 -1.759681e-01
## 2310 8.613753e-01 -3.920312e+00 -1.030483e+00 -2.380939e-01 2.515110e+00
## 2312 2.698757e-02 -2.259566e-04 -1.732010e-01 -2.499576e-01 -1.088483e-01
## 2313 1.951161e-04 -4.106896e-06 -1.249432e-03 -1.802279e-03 -7.833252e-04
## 2314 -1.193724e-01 5.868254e-01 9.276693e-02 -5.311508e-02 -4.151925e-01
## 2315 2.896596e-05 -1.327521e-09 -1.863619e-04 -2.688087e-04 -1.177004e-04
## 2316 1.894237e-03 1.304224e-03 -1.367446e-02 -2.015549e-02 -9.661342e-03
## 2318 1.882902e-04 -3.966569e-06 -1.205708e-03 -1.739219e-03 -7.558901e-04
## 2320 1.026786e-04 -1.918003e-06 -6.579703e-04 -9.489690e-04 -4.130914e-04
## 2321 2.607527e+00 -1.187334e+01 -3.112652e+00 -7.090773e-01 7.622716e+00
## 2322 5.904716e-03 -2.833825e-02 -1.484300e-02 1.904578e-02 3.080800e-02
## 2323 2.528565e-03 2.609192e-03 -1.925116e-02 -2.862218e-02 -1.422438e-02
## 2324 -1.228054e-07 7.350615e-07 -5.554858e-08 -3.144659e-07 -6.281896e-07
## 2325 5.478470e-02 -2.118476e-01 -7.487721e-01 -2.613820e-01 -1.623672e+00
## 2329 -1.980026e-02 1.176969e-01 -8.014740e-03 -4.908200e-02 -1.000310e-01
## 2330 1.746024e-04 -3.684290e-06 -1.118039e-03 -1.612771e-03 -7.008949e-04
## 2331 3.831425e-05 -7.592838e-07 -2.453974e-04 -3.539996e-04 -1.538821e-04
## 2332 3.860498e+00 -1.821919e+01 -3.872164e+00 2.170189e-01 1.226598e+01
## 2334 7.384749e-02 -2.152642e-01 -8.767200e-01 -4.340121e-01 -1.720787e+00
## 2335 2.180227e-03 -1.614083e-02 -1.383141e-02 1.489472e-02 -1.890618e-02
## 2336 -3.103212e-05 1.540191e-04 2.208169e-05 -1.680385e-05 -1.111165e-04
## 2337 -2.101300e-01 5.115320e-03 1.344955e+00 1.939128e+00 8.420902e-01
## 2338 3.210588e-03 -1.436748e-02 -4.122115e-03 -1.371312e-03 8.999976e-03

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## 2340 4.869793e-01 -2.270804e+00 -1.278216e+00 1.397883e+00 2.412754e+00
## 2341 9.492368e-05 -2.004714e-06 -6.078134e-04 -8.767860e-04 -3.810071e-04
## 2343 8.041453e-03 -3.195824e-02 -1.114769e-01 -3.733783e-02 -2.438947e-01
## 2344 3.163853e-01 -1.261718e+00 -5.833855e-01 -4.399455e-01 6.509764e-01
## 2345 3.660260e-01 -1.103974e-02 -2.339922e+00 -3.374343e+00 -1.464087e+00
## 2346 5.126277e-01 -2.707737e+00 -1.656547e+00 1.994180e+00 1.342213e+00
## 2348 3.865774e-01 -3.800414e-01 -3.018048e+00 -3.095964e+00 -3.598662e+00
## 2352 2.374537e-04 -5.112680e-06 -1.520754e-03 -2.193215e-03 -9.540486e-04
## 2353 5.402866e-02 -3.559066e-01 -1.016224e+00 -8.714122e-02 -2.580971e+00
## 2354 8.773493e-01 -4.732551e-01 -5.113700e+00 -7.209403e+00 -2.875498e+00
## 2355 4.174972e-01 -1.094124e-01 -2.557678e+00 -3.657341e+00 -1.521769e+00
## 2356 1.700614e-04 -3.590365e-06 -1.088956e-03 -1.570822e-03 -6.826544e-04
## 2357 3.664560e-02 -7.079603e-01 -1.176097e+00 5.887013e-01 -3.795414e+00
## 2359 9.159533e-03 -1.772390e-04 -5.869596e-02 -8.458488e-02 -3.675639e-02
## 2360 2.807942e-06 -1.349638e-05 -7.041921e-06 9.110125e-06 1.468980e-05
## 2361 2.157461e-02 -4.226838e-01 -5.769637e-01 4.830179e-01 -1.759152e+00
## 2362 1.654064e-01 -2.720767e-01 -1.563032e+00 -1.215022e+00 -2.444176e+00
## 2363 2.628730e-02 -5.957949e-01 -1.231479e+00 4.648246e-01 -3.906407e+00
## 2364 1.118069e-05 -1.993257e-07 -7.163562e-05 -1.033463e-04 -4.493737e-05
## 2365 1.586206e-01 -4.685995e-03 -1.014137e+00 -1.462495e+00 -6.346222e-01
## 2366 8.260347e-05 -1.729927e-06 -5.289471e-04 -7.630177e-04 -3.315932e-04
## 2367 1.547525e-02 -8.233167e-03 -9.284721e-02 -1.219579e-01 -4.660876e-02
## 2368 8.459110e-06 -9.891750e-08 -5.426034e-05 -7.829330e-05 -3.408487e-05
## 2370 -7.903552e-03 5.102011e-02 -7.842414e-03 -2.758216e-02 -4.611192e-02
## 2371 7.213965e-05 -1.413596e-06 -4.620917e-04 -6.665645e-04 -2.898381e-04
## 2372 3.624038e-02 -2.033642e-01 -5.599910e-01 -8.476962e-02 -1.347672e+00
## 2374 1.073086e-01 -5.523433e-03 -6.833703e-01 -9.847393e-01 -4.257267e-01
## 2376 -1.612647e-04 7.927540e-04 1.253351e-04 -7.173339e-05 -5.608827e-04
## 2377 6.231936e-02 -2.153784e-01 -2.247995e-01 -1.730669e-02 1.634311e-01
## 2379 -1.124613e-01 6.284021e-01 5.591118e-04 -1.994757e-01 -5.067915e-01
## 2380 1.016876e-02 -2.678059e-01 -5.703927e-01 2.168613e-01 -1.823199e+00
## 2381 -9.233317e-02 4.538968e-01 7.176110e-02 -4.107197e-02 -3.211375e-01
## 2382 -2.127084e-07 9.800878e-07 7.219504e-08 -1.023910e-08 -1.093780e-06
## 2383 6.405848e-02 -2.375962e-01 -8.564341e-01 -3.173739e-01 -1.831183e+00

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## 2384 1.201156e-02 -1.112441e-03 -7.634786e-02 -1.084542e-01 -4.639099e-02
## 2385 4.619220e-02 -4.135552e-01 -9.956901e-01 7.376295e-02 -2.720165e+00
## 2387 5.942383e-02 -3.442451e-01 -1.029248e+00 -1.508422e-01 -2.526113e+00
## 2388 7.029200e-05 -1.484428e-06 -4.500930e-04 -6.492697e-04 -2.821418e-04
## 2389 3.302142e-02 -5.843577e-01 -9.264116e-01 4.768991e-01 -2.976320e+00
## 2390 -3.843271e-05 1.936283e-04 2.390140e-05 -2.654199e-05 -1.423931e-04
## 2392 8.539681e-04 -3.707495e-03 -2.464978e-03 1.735097e-03 3.700467e-03
## 2394 2.349387e-04 -4.854174e-06 -1.504778e-03 -2.170363e-03 -9.439759e-04
## 2396 3.533518e-05 5.131476e-05 -3.163138e-04 -4.374796e-04 -3.030010e-04
## 2397 -3.723653e-05 1.830494e-04 2.894023e-05 -1.656344e-05 -1.295097e-04
## 2400 1.866035e-01 -1.175320e-01 -1.352658e+00 -1.576451e+00 -1.352754e+00
## 2402 1.547187e-02 -4.922485e-01 -1.028167e+00 4.283294e-01 -3.339378e+00
## 2404 2.110834e-04 -4.501445e-06 -1.351585e-03 -1.949646e-03 -8.472674e-04
## 2405 6.431824e-07 -1.376930e-08 -4.118283e-06 -5.940568e-06 -2.581566e-06
## 2406 -1.299182e-02 -2.479628e-01 -4.324022e-01 3.957049e-01 -1.727698e+00
## 2407 6.983978e-02 -7.853029e-04 -4.479885e-01 -6.464545e-01 -2.813751e-01
## 2408 3.856052e-02 -8.131003e-02 -3.819030e-01 -2.581185e-01 -6.451019e-01
## 2410 4.505905e-05 -9.308527e-07 -2.885477e-04 -4.162408e-04 -1.808982e-04
## 2411 6.099911e-01 -2.834692e+00 -6.625150e-01 -5.292416e-02 1.870639e+00
## 2413 9.491210e-03 -7.312946e-04 -6.076767e-02 -8.678026e-02 -3.891209e-02
## 2414 1.013076e-03 3.945050e-04 -6.965929e-03 -1.018043e-02 -4.705544e-03
## 2415 1.539788e-04 -5.781731e-04 -3.259798e-04 -2.853205e-04 2.596708e-04
## 2416 -5.330632e-05 2.623057e-04 4.109025e-05 -2.423599e-05 -1.859089e-04
## 2417 3.891751e-05 -7.129019e-07 -2.493420e-04 -3.596924e-04 -1.564315e-04
## 2418 2.436968e-04 -1.160746e-03 -2.323659e-04 3.471192e-05 7.901368e-04
## 2419 3.592919e-03 1.554434e-03 -2.487989e-02 -3.641155e-02 -1.691646e-02
## 2420 -1.129404e-05 1.345731e-04 -8.476207e-05 -1.621070e-04 -1.674970e-04
## 2422 1.849700e-02 -9.117571e-02 -1.409113e-02 8.716789e-03 6.471320e-02
## 2423 -1.575197e-01 8.207644e-01 5.790121e-02 -1.648871e-01 -6.490244e-01
## 2424 1.380371e-04 -2.939668e-06 -8.838496e-04 -1.274966e-03 -5.540230e-04
## 2426 1.929072e+00 -6.435614e+00 -5.007720e+00 -5.171130e+00 2.029480e+00
## 2427 5.133464e-02 -9.806601e-02 -5.120421e-01 -3.615910e-01 -8.526097e-01
## 2428 3.991274e-02 -1.055807e-01 -1.703857e-01 -9.534807e-02 4.224054e-02
## 2430 3.822801e-02 -8.090696e-04 -2.447780e-01 -3.530988e-01 -1.534356e-01

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## 2433 3.623382e-06 -9.266378e-09 -2.327987e-05 -3.360167e-05 -1.465035e-05
## 2434 2.023015e-02 -4.807691e-01 -8.158723e-01 4.303110e-01 -2.685658e+00
## 2436 1.926042e-02 -2.461756e-01 -4.965741e-01 1.319392e-01 -1.469432e+00
## 2437 2.483207e-05 3.955538e-06 -1.735101e-04 -2.407440e-04 -1.317606e-04
## 2438 1.151773e-01 -5.537162e-01 -2.887534e-01 3.739866e-01 6.027773e-01
## 2439 2.349780e-03 -2.827167e-02 -6.833830e-02 1.107112e-02 -1.974226e-01
## 2441 -3.156936e-04 -1.247928e-02 -2.156425e-02 1.741423e-02 -8.192574e-02
## 2443 5.119301e-02 -2.691143e-02 -3.711025e-01 -4.413883e-01 -3.627846e-01
## 2444 -2.772044e-03 -7.473315e-02 -1.234874e-01 1.124618e-01 -4.870893e-01
## 2445 1.090155e-05 -1.597912e-07 -6.988914e-05 -1.008352e-04 -4.387442e-05
## 2448 1.610589e-04 -3.403746e-06 -1.031301e-03 -1.487660e-03 -6.464974e-04
## 2449 3.573639e-02 -7.577007e-04 -2.288224e-01 -3.300819e-01 -1.434332e-01
## 2450 1.019467e-04 -2.111647e-06 -6.528368e-04 -9.417391e-04 -4.092770e-04
## 2451 5.735043e-03 -1.752787e-04 -3.670105e-02 -5.287698e-02 -2.304658e-02
## 2452 4.390888e-01 -2.036708e+00 -1.161245e+00 1.232211e+00 2.154596e+00
## 2453 3.746131e-02 -3.142886e-01 -4.417219e-01 1.229345e-01 -1.186551e+00
## 2454 2.164948e-02 -2.294925e-01 -3.979222e-01 1.125766e-01 -1.145482e+00
## 2456 2.682064e-02 -1.251232e-01 -2.857280e-02 -1.367970e-03 8.299194e-02
## 2458 2.708890e-01 -1.257731e+00 -7.177640e-01 7.674874e-01 1.333891e+00
## 2460 5.792779e-05 -1.394188e-06 -3.708050e-04 -5.345836e-04 -2.321667e-04
## 2461 7.145417e-02 -8.332423e-01 -1.890489e+00 3.429191e-01 -5.455972e+00
## 2462 3.661364e-05 2.932277e-03 -3.605661e-03 -6.139627e-03 -4.636233e-03
## 2463 1.046495e-02 -4.913615e-02 -2.719198e-02 3.091795e-02 5.249963e-02
## 2469 2.155385e-03 8.139972e-04 -7.568657e-03 -1.966776e-02 9.504685e-03
## 2470 6.303557e-08 5.009642e-07 -9.809595e-07 -1.575760e-06 -1.021814e-06
## 2471 -7.458798e-04 -1.995245e-02 -3.293310e-02 3.007872e-02 -1.300246e-01
## 2473 5.285443e-02 -1.817179e-01 -6.795280e-01 -2.784782e-01 -1.415318e+00
## 2474 2.246853e-08 -1.058161e-07 -5.813110e-08 6.720905e-08 1.133042e-07
## 2477 3.870763e-01 -1.852061e+00 -3.591685e-01 7.179673e-02 1.268582e+00
## 2479 9.080024e-05 -1.936759e-06 -5.813930e-04 -8.386623e-04 -3.644400e-04
## 2481 3.328844e-06 3.518209e-08 -2.145884e-05 -3.096234e-05 -1.358326e-05
## 2482 -1.270809e-05 5.240674e-04 -5.209918e-04 -9.187532e-04 -7.515586e-04
## 2483 8.575310e-02 -1.734939e-01 -3.521877e-01 -4.517950e-01 -8.108733e-02
## 2485 6.371918e-06 2.413154e-05 -7.572413e-05 -1.087435e-04 -8.168114e-05

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## 2488 5.048838e-03 -1.367674e+00 -2.307310e+00 1.624221e+00 -8.300804e+00
## 2490 7.505575e-02 -2.809071e-01 -1.008557e+00 -3.690204e-01 -2.163247e+00
## 2491 1.235693e-04 -2.614778e-06 -7.912372e-04 -1.141370e-03 -4.959961e-04
## 2492 -4.411448e-05 2.229203e-04 2.677297e-05 -3.175638e-05 -1.641832e-04
## 2495 4.347305e-02 -1.942919e-01 -6.435692e-01 -1.769904e-01 -1.462723e+00
## 2496 4.708318e-01 -2.226326e+00 -1.210685e+00 1.431796e+00 2.392218e+00
## 2497 1.239548e-02 -4.487295e-01 -9.263371e-01 4.062992e-01 -3.037374e+00
## 2498 -3.268904e-06 1.506502e-05 -1.090663e-05 -3.392640e-06 -4.920809e-05
## 2499 -5.142045e-03 -5.962510e-01 -9.827130e-01 7.992480e-01 -3.600441e+00
## 2500 8.702751e-01 -4.190262e+00 -2.190723e+00 2.834967e+00 4.522015e+00
## 2501 6.118158e-02 -2.836252e-01 -6.724505e-02 -6.676886e-03 1.865642e-01
## 2503 1.089055e-04 -2.259852e-06 -6.974116e-04 -1.006019e-03 -4.372535e-04
## 2506 4.119669e-02 -3.440560e-01 -8.244842e-01 4.151485e-02 -2.215811e+00
## 2508 1.619552e-04 -3.475928e-06 -1.036962e-03 -1.495829e-03 -6.499669e-04
## 2509 1.908000e-02 -4.194462e-01 -8.521187e-01 3.269054e-01 -2.702472e+00
## 2510 1.381978e-02 -5.446570e-03 -8.489539e-02 -1.130759e-01 -4.479122e-02
## 2511 2.738113e-02 -9.704203e-01 -1.374987e+00 1.211659e+00 -4.561321e+00
## 2513 7.595527e-05 -1.555584e-06 -4.864093e-04 -7.016752e-04 -3.049409e-04
## 2514 -1.899289e-04 -5.077994e-03 -8.381045e-03 7.656071e-03 -3.309162e-02
## 2515 9.481923e-03 -1.285975e-02 -6.247003e-02 -6.692576e-02 -6.265514e-02
## 2516 4.877079e-02 -1.264567e-02 -3.340045e-01 -4.369351e-01 -2.725441e-01
## 2517 -6.966238e-11 -1.862602e-09 -3.074177e-09 2.808207e-09 -1.213798e-08
## 2518 1.945630e-01 -1.015113e+00 -1.856321e+00 7.041703e-02 -3.389319e+00
## 2520 3.647658e-02 -7.684650e-04 -2.335675e-01 -3.369285e-01 -1.464114e-01
## 2521 3.993522e-02 1.026418e-02 -2.684796e-01 -3.908419e-01 -1.772948e-01
## 2522 4.461870e-05 -7.928991e-07 -2.859107e-04 -4.124372e-04 -1.794212e-04
## 2523 -1.097015e-01 5.392772e-01 8.525958e-02 -4.879808e-02 -3.815453e-01
## 2524 2.018666e-02 -3.944881e-01 -8.292504e-01 2.830427e-01 -2.586942e+00
## 2525 1.858584e-01 -8.031181e-01 -5.396283e-01 3.678854e-01 7.981442e-01
## 2526 -1.886720e-02 -5.044389e-01 -8.325582e-01 7.605405e-01 -3.287263e+00
## 2528 9.873032e-03 -4.632526e-02 -2.567966e-02 2.908648e-02 4.946891e-02
## 2529 9.928443e-06 -1.090981e-07 -6.369176e-05 -9.190614e-05 -4.001186e-05
## 2531 8.859980e-02 -4.870702e-01 -1.436355e+00 -2.422097e-01 -3.460384e+00
## 2532 -2.406449e-05 1.217479e-04 1.380380e-05 -1.777986e-05 -9.149485e-05

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## 2533 4.890972e+00 -2.328677e+01 -4.670851e+00 6.791773e-01 1.585292e+01
## 2535 3.617915e-02 -7.062433e-04 -2.317273e-01 -3.342919e-01 -1.453032e-01
## 2537 8.186727e-12 -3.416904e-11 -1.166111e-10 -3.613513e-11 -2.592964e-10
## 2538 7.465809e-02 -3.535038e-01 -1.915796e-01 2.282941e-01 3.802583e-01
## 2539 -3.648801e-02 -1.073404e+00 -1.794900e+00 1.584473e+00 -7.009189e+00
## 2540 1.032220e-02 -2.844384e-04 -6.610793e-02 -9.523620e-02 -4.157082e-02
## 2542 1.746024e-04 -3.684290e-06 -1.118039e-03 -1.612771e-03 -7.008949e-04
## 2545 2.888515e+00 -1.306123e+01 -3.553344e+00 -9.666447e-01 8.303960e+00
## 2546 1.029625e-04 -2.186321e-06 -6.592732e-04 -9.510148e-04 -4.132544e-04
## 2547 1.218696e-01 -1.364484e+00 -1.501044e+00 1.447047e+00 -3.674885e+00
## 2549 5.883736e-04 -1.256607e-05 -3.767288e-03 -5.434378e-03 -2.361379e-03
## 2552 4.093911e-01 -1.889809e+00 -4.592094e-01 -6.058778e-02 1.236067e+00
## 2553 1.619131e-01 -6.145377e-01 -2.178739e+00 -7.826057e-01 -4.688260e+00
## 2554 1.868500e-04 -3.941066e-06 -1.196493e-03 -1.725910e-03 -7.501344e-04
## 2555 5.373413e-02 -7.176226e-01 -8.162039e-01 5.725459e-01 -2.613009e+00
## 2556 1.017003e-06 2.409008e-07 -6.817566e-06 -9.913832e-06 -4.494284e-06
## 2558 1.666667e-04 -3.552444e-06 -1.067165e-03 -1.539395e-03 -6.689351e-04
## 2559 7.176546e-03 -3.436611e-02 -1.810192e-02 2.294992e-02 3.729701e-02
## 2560 3.171113e-02 -4.214790e-01 -9.978311e-01 1.957541e-01 -2.930775e+00
## 2562 4.413973e-02 -5.520775e-01 -9.983642e-01 3.197311e-01 -2.971982e+00
## 2564 -3.328222e-04 -8.965767e-03 -1.480015e-02 1.350158e-02 -5.839362e-02
## 2567 3.385073e-02 -1.647454e-01 -2.821688e-02 1.177424e-02 1.151924e-01
## 2569 1.551023e-03 -9.973166e-03 -7.608349e-03 8.511655e-03 -5.363533e-03
## 2570 1.954365e-03 -8.502206e-03 -2.789305e-03 -1.316669e-03 5.105511e-03
## 2571 5.441148e-01 -2.668041e+00 -4.306434e-01 2.286832e-01 1.882115e+00
## 2572 1.281673e-08 -5.953272e-08 -3.383879e-08 3.617572e-08 6.301642e-08
## 2573 1.205835e-01 -2.366517e-01 -1.213495e+00 -8.417384e-01 -2.041552e+00
## 2574 4.754373e-06 2.072333e-06 -3.321072e-05 -4.828518e-05 -2.313766e-05
## 2576 8.102975e-05 -1.740635e-06 -5.188160e-04 -7.483865e-04 -3.251860e-04
## 2577 2.278952e-02 -2.622312e-02 -1.163783e-01 -1.595957e-01 -5.218200e-02
## 2578 4.454197e-06 -1.469491e-05 -5.609048e-05 -2.418530e-05 -1.151323e-04
## 2579 2.289872e-05 -2.971629e-07 -1.468662e-04 -2.118858e-04 -9.227037e-05
## 2580 1.210754e-02 -6.561045e-04 -7.827384e-02 -1.113669e-01 -5.124037e-02
## 2581 -1.606077e-01 7.974185e-01 1.157510e-01 -8.705542e-02 -5.706803e-01

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## 2582 1.381355e-02 -4.592923e-01 -9.552194e-01 4.054722e-01 -3.112963e+00
## 2584 4.349194e-07 1.996661e-05 -3.232499e-05 -4.529733e-05 -5.006486e-05
## 2585 2.751900e-01 -1.948641e-02 -1.746367e+00 -2.514811e+00 -1.083619e+00
## 2588 -1.176634e-01 5.900676e-01 7.805608e-02 -7.538470e-02 -4.270696e-01
## 2589 -1.982863e-02 9.758006e-02 1.528972e-02 -9.028536e-03 -6.912575e-02
## 2591 -3.463515e-05 1.728986e-04 2.344313e-05 -2.074199e-05 -1.256962e-04
## 2592 9.671315e-03 -3.850245e-02 -1.791145e-02 -1.358047e-02 1.978924e-02
## 2593 -7.431292e-03 3.653116e-02 5.775606e-03 -3.305571e-03 -2.584622e-02
## 2594 3.343853e-01 -1.442207e+00 -4.915812e-01 -2.499802e-01 8.544621e-01
## 2596 -1.350595e-01 6.750441e-01 9.219715e-02 -8.205444e-02 -4.867469e-01
## 2597 9.444192e-03 -2.017021e-04 -6.047006e-02 -8.722911e-02 -3.790333e-02
## 2598 3.262178e-02 4.027742e-02 -2.561824e-01 -3.822564e-01 -1.939439e-01
## 2601 1.753575e-06 -3.328946e-05 -3.737951e-05 3.226988e-05 -1.297310e-04
## 2602 1.590524e-05 -2.781372e-07 -1.019142e-04 -1.470280e-04 -6.393926e-05
## 2603 3.100849e-02 -1.517169e-01 -2.492340e-02 1.237607e-02 1.067514e-01
## 2604 3.567267e-02 -7.247346e-04 -2.284507e-01 -3.295559e-01 -1.432257e-01
## 2605 1.269457e-01 -2.403782e-01 -1.242327e+00 -8.913082e-01 -2.040618e+00
## 2606 6.146951e-03 -2.517220e-02 -8.663928e-02 -2.768959e-02 -1.914544e-01
## 2607 -7.439400e-07 -2.622022e-05 -4.478191e-05 3.733950e-05 -1.717851e-04
## 2608 2.680676e-04 -5.713905e-06 -1.716431e-03 -2.475970e-03 -1.075915e-03
## 2610 5.037845e-02 -9.885560e-02 -2.101872e-01 -2.719072e-01 -5.254733e-02
## 2611 2.402569e-06 2.184534e-05 -4.256577e-05 -6.604290e-05 -4.858989e-05
## 2612 8.586747e-02 -4.127989e-01 -2.152808e-01 2.787900e-01 4.493658e-01
## 2613 7.885471e-03 -3.616403e-02 -9.116914e-03 -1.634732e-03 2.344630e-02
## 2614 2.576019e-03 -2.353553e-02 -6.083235e-02 3.476177e-03 -1.667448e-01
## 2615 -1.080018e-06 5.310347e-06 7.901456e-07 -4.027819e-07 -3.719214e-06
## 2616 -3.712966e-05 1.976077e-04 1.035052e-05 -4.666512e-05 -1.553789e-04
## 2617 1.494020e-04 -3.144006e-06 -9.566730e-04 -1.380014e-03 -5.997234e-04
## 2619 1.500241e-04 -3.174269e-06 -9.606332e-04 -1.385725e-03 -6.021852e-04
## 2620 2.452852e-02 -1.178867e-01 -6.152189e-02 7.955546e-02 1.283028e-01
## 2621 1.854647e-02 -1.872006e-02 -1.038405e-01 -1.235000e-01 -3.903003e-02
## 2622 -1.532288e-04 -5.604533e-03 -8.991119e-03 8.258425e-03 -3.477676e-02
## 2624 -5.054106e-04 2.308552e-03 1.166174e-04 -5.368135e-06 -2.778714e-03
## 2628 -7.180700e-02 3.529931e-01 5.580819e-02 -3.194149e-02 -2.497469e-01

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## 2629  3.182433e-02 -5.487596e-03 -2.129153e-01 -2.883730e-01 -1.599359e-01
## 2630 -1.481805e-02  7.284661e-02  1.151291e-02 -6.597683e-03 -5.154247e-02
## 2631  1.333703e-02 -1.528834e-01 -2.956288e-01  7.498188e-02 -8.598782e-01
## 2634 -5.132904e-02  2.523270e-01  3.989203e-02 -2.283369e-02 -1.785249e-01
## 2635  6.439083e-02 -1.155504e-03 -4.125395e-01 -5.951657e-01 -2.587625e-01
## 2636 -1.414708e-01  6.954499e-01  1.099511e-01 -6.292894e-02 -4.920390e-01
## 2637  4.337581e-04 -9.263900e-06 -2.777302e-03 -4.006307e-03 -1.740845e-03
## 2638  2.505481e-02 -2.567433e-01 -5.249797e-01  9.818871e-02 -1.485625e+00
## 2639  1.042339e-04 -2.209921e-06 -6.674196e-04 -9.627658e-04 -4.183660e-04
## 2643 -8.236863e-03  4.194378e-02  4.732150e-03 -6.536983e-03 -3.087126e-02
## 2644  4.662258e-02 -5.278854e-01 -1.176109e+00  2.128257e-01 -3.380358e+00
## 2645  6.992564e-02 -3.021909e-01 -1.016212e+00 -2.968204e-01 -2.285443e+00
## 2646  2.688450e-02 -1.316912e-01 -2.143393e-02  1.103084e-02  9.278670e-02
## 2647  3.343299e-06 -5.538570e-04 -1.067197e-03  6.122372e-04 -3.702440e-03
## 2648  4.913205e-06 -1.049435e-07 -3.145869e-05 -4.537967e-05 -1.971873e-05
## 2649  3.560649e-05 -1.711841e-04 -8.926230e-05  1.156302e-04  1.863561e-04
## 2650  3.949300e-02 -1.421936e-01 -9.042229e-02 -8.518928e-02  5.779396e-02
## 2651  3.540848e-02 -7.560035e-04 -2.267169e-01 -3.270428e-01 -1.421094e-01
## 2652  8.689723e-05 -4.199757e-04 -7.587176e-05  2.439868e-05  2.910475e-04
## 2653  3.781488e-02 -1.053455e-01 -1.570422e-01 -7.659474e-02  5.020909e-02
## 2654  4.916185e-02 -5.217114e-01 -1.215804e+00  1.726773e-01 -3.443979e+00
## 2655 -1.305512e-04  6.417708e-04  1.014645e-04 -5.807148e-05 -4.540603e-04
## 2656  1.069246e-06 -3.060317e-05 -3.803795e-05  3.277669e-05 -1.363843e-04
## 2657  1.820826e-04 -2.630347e-04 -8.840294e-04 -1.173496e-03 -3.773692e-04
## 2658  4.250574e-02 -9.066150e-04 -2.721607e-01 -3.925969e-01 -1.705944e-01
## 2659  4.499537e-03 -7.328083e-04 -2.825560e-02 -4.034725e-02 -1.756235e-02
## 2660  7.846910e-03 -1.682225e-02 -3.116498e-02 -3.955146e-02 -6.176286e-03
## 2661  1.500013e-02 -7.154950e-02 -1.417459e-02  2.342507e-03  4.881910e-02
## 2662 -8.544654e-03  7.412815e-02 -3.028190e-02 -6.734030e-02 -7.888669e-02
## 2663  8.964634e-02 -3.419605e-01 -2.972129e-01  5.893067e-02  2.971914e-01
## 2665 -1.512483e-05  7.435832e-05  1.174719e-05 -6.741292e-06 -5.261499e-05
## 2667  3.516675e+00 -1.702985e+01 -3.029269e+00  1.054726e+00  1.183677e+01
## 2670  1.628589e-02 -2.434957e-01 -3.093706e-01  2.679849e-01 -8.771417e-01
## 2671  1.116093e-04 -2.369790e-06 -7.146398e-04 -1.030882e-03 -4.479613e-04

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## 2672 8.545760e-02 -6.770355e-02 -6.682574e-01 -7.119104e-01 -7.728558e-01
## 2673 -2.805494e-04 -7.520157e-03 -1.240894e-02 1.133341e-02 -4.898925e-02
## 2675 1.628862e-02 -1.077404e-02 -9.581157e-02 -1.232465e-01 -4.522788e-02
## 2679 6.405814e-03 -2.054677e-03 -4.141682e-02 -5.607281e-02 -2.979989e-02
## 2681 2.895839e-01 -2.481974e-02 -1.832754e+00 -2.637816e+00 -1.133696e+00
## 2683 8.992368e-05 -1.886134e-06 -5.758127e-04 -8.306281e-04 -3.609586e-04
## 2685 7.823185e-01 -3.663559e+00 -8.174521e-01 -1.240765e-02 2.442020e+00
## 2687 4.108335e-01 -1.664078e-02 -2.624087e+00 -3.774106e+00 -1.633676e+00
## 2688 4.751648e-02 -5.916207e-02 -2.569994e-01 -2.872616e-01 -7.864120e-02
## 2690 -3.853389e-05 2.896080e-04 -8.700156e-05 -2.157786e-04 -2.922196e-04
## 2692 3.349169e-05 -6.928824e-07 -2.144709e-04 -3.093831e-04 -1.344546e-04
## 2695 2.643158e-02 -7.986020e-02 -7.813832e-02 -8.729725e-02 1.517580e-02
## 2696 3.059875e-01 -1.479262e+00 -7.832481e-01 1.002787e+00 1.544697e+00
## 2698 1.439728e-06 8.953851e-05 -1.127140e-04 -1.906082e-04 -1.443427e-04
## 2700 7.899201e-05 -1.531386e-06 -5.060209e-04 -7.299170e-04 -3.174411e-04
## 2703 3.786728e-02 -4.562553e-01 -1.102653e+00 1.791328e-01 -3.186214e+00
## 2708 1.436264e-04 -3.060144e-06 -9.196361e-04 -1.326588e-03 -5.764542e-04
## 2709 -8.650687e-08 -3.672284e-07 -5.279541e-08 1.251884e-06 -1.867920e-06
## 2710 9.542048e-05 -2.984080e-06 -6.101962e-04 -8.788616e-04 -3.811333e-04
## 2713 -2.708028e-02 -5.767686e-01 -9.860732e-01 9.020020e-01 -3.923850e+00
## 2714 3.103736e-02 -5.656695e-01 -1.048384e+00 4.279008e-01 -3.302280e+00
## 2715 -4.142804e-02 2.036549e-01 3.219714e-02 -1.842926e-02 -1.440888e-01
## 2716 1.099078e-04 -2.321131e-06 -7.037606e-04 -1.015191e-03 -4.411541e-04
## 2717 4.220349e-03 -2.074196e-02 -3.285444e-03 1.868052e-03 1.467128e-02
## 2719 7.947911e-08 6.525902e-07 -1.262234e-06 -2.028592e-06 -1.323948e-06
## 2721 4.600772e+00 -2.088566e+01 -5.565454e+00 -1.377497e+00 1.335192e+01
## 2722 -1.312045e-05 6.705657e-05 5.036776e-06 -1.149326e-05 -5.553539e-05
## 2724 5.611326e-02 -6.045487e-01 -9.979009e-01 3.170204e-01 -2.893969e+00
## 2725 5.630638e-02 -6.153635e-01 -7.079828e-01 6.281093e-01 -1.734001e+00
## 2726 1.371814e-04 -2.928329e-06 -8.783619e-04 -1.267049e-03 -5.505757e-04
## 2727 -1.751623e-03 8.692571e-03 1.267292e-03 -9.410365e-04 -6.217459e-03
## 2728 1.114342e-04 -2.360750e-06 -7.135264e-04 -1.029275e-03 -4.472711e-04
## 2729 1.147985e-04 -2.412259e-06 -7.350999e-04 -1.060392e-03 -4.608281e-04
## 2730 2.019493e-06 7.062577e-06 -2.109780e-05 -3.270734e-05 -1.898090e-05

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## 2731 2.335882e-04 -4.897181e-06 -1.495967e-03 -2.157725e-03 -9.382259e-04
## 2732 8.087675e-11 -5.448781e-11 -4.774606e-10 -6.107607e-10 -2.308052e-10
## 2733 2.989230e-02 -1.416950e-01 -2.926828e-02 2.909850e-03 9.592803e-02
## 2734 7.003083e-02 -1.170649e-03 -4.487736e-01 -6.474650e-01 -2.815583e-01
## 2735 -6.673071e-05 3.295636e-04 5.000841e-05 -3.272692e-05 -2.347000e-04
## 2736 9.964512e-08 -4.765456e-07 -2.518585e-07 3.170281e-07 5.166285e-07
## 2737 1.683423e-05 -2.233659e-07 -1.079573e-04 -1.557583e-04 -6.780644e-05
## 2741 4.953182e-05 5.262601e-05 -3.849267e-04 -5.653070e-04 -2.973452e-04
## 2742 -1.014719e-01 5.055374e-01 7.114470e-02 -5.842055e-02 -3.632013e-01
## 2743 3.764265e-06 2.367732e-08 -2.422456e-05 -3.497436e-05 -1.527432e-05
## 2744 1.732653e-05 -9.928360e-05 -2.993591e-04 -4.560063e-05 -7.328353e-04
## 2746 -4.073497e-06 1.954470e-05 -4.723459e-06 -3.131678e-06 -3.619600e-05
## 2747 1.392715e-04 -2.495015e-06 -8.932503e-04 -1.287556e-03 -5.622747e-04
## 2749 9.588393e-03 9.626919e-04 -6.273525e-02 -9.087018e-02 -4.026897e-02
## 2750 4.505905e-05 -9.308527e-07 -2.885477e-04 -4.162408e-04 -1.808982e-04
## 2751 1.278963e-01 -2.871170e-01 -1.354602e+00 -8.506626e-01 -2.404088e+00
## 2752 4.793159e-02 -2.266369e-01 -4.758357e-02 3.543118e-03 1.529491e-01
## 2754 1.169251e-01 -5.442982e-01 -1.259180e-01 -8.294911e-03 3.600018e-01
## 2756 5.174975e-06 5.644358e-06 -4.320163e-05 -6.010841e-05 -3.888722e-05
## 2757 1.296531e-02 -2.550525e-03 -8.116778e-02 -1.138168e-01 -4.764160e-02
## 2758 -2.254345e-03 -6.107944e-02 -1.009976e-01 9.181151e-02 -3.981401e-01
## 2760 8.661989e-02 -2.566336e-02 -5.935542e-01 -7.707682e-01 -4.900035e-01
## 2761 1.980852e-02 -3.151361e-01 -7.211720e-01 1.825200e-01 -2.176007e+00
## 2763 3.178082e-03 -8.884505e-04 -2.031589e-02 -2.797524e-02 -1.395337e-02
## 2764 -4.486630e-04 -1.305161e-02 -2.179251e-02 1.931207e-02 -8.520596e-02
## 2765 1.394418e-01 -3.591610e-01 -1.557988e+00 -8.722747e-01 -2.912189e+00
## 2767 1.275913e-01 -5.158567e-01 -2.271822e-01 -1.635226e-01 2.732669e-01
## 2768 1.267516e-01 -4.524354e-01 -4.454998e-01 2.267093e-03 3.601666e-01
## 2769 4.097637e-02 -7.666336e-03 -2.752484e-01 -3.705974e-01 -2.098469e-01
## 2770 -9.263267e-05 6.102028e-04 -1.086900e-04 -3.479182e-04 -5.660062e-04
## 2771 -6.376747e-02 3.137912e-01 4.919146e-02 -2.899468e-02 -2.222728e-01
## 2773 2.372331e-02 -1.145280e-01 -3.258667e-01 -7.558393e-02 -7.432441e-01
## 2774 6.075447e-05 -1.309593e-04 -6.655332e-04 -4.190811e-04 -1.192976e-03
## 2776 1.555781e-04 -3.248817e-06 -9.962912e-04 -1.437123e-03 -6.246664e-04

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## 2777	-2.015631e-03	-9.605974e-03	-2.647206e-02	2.413508e-02	-1.132389e-01
## 2778	1.591345e-04	-3.259487e-06	-1.019116e-03	-1.470094e-03	-6.389814e-04
## 2779	3.621093e-02	-1.818612e-03	-2.337669e-01	-3.332236e-01	-1.521264e-01
## 2781	4.667622e-06	3.360077e-08	-3.004370e-05	-4.337620e-05	-1.894854e-05
## 2782	9.012217e-01	-4.085820e+00	-2.482806e+00	2.324851e+00	4.266586e+00
## 2784	8.189461e-02	-3.789495e-01	-9.081160e-02	-1.031599e-02	2.486599e-01
## 2787	1.047392e-02	7.341347e-04	-6.816477e-02	-9.863464e-02	-4.350362e-02
## 2788	4.482682e-02	-1.541689e-01	-5.512705e-01	-2.293643e-01	-1.132886e+00
## 2790	-2.337497e-07	1.387255e-06	-9.208597e-08	-5.750762e-07	-1.177534e-06
## 2791	9.692070e-04	-4.437282e-03	-2.610785e-03	2.567697e-03	4.643134e-03
## 2792	1.621658e-01	-1.854723e-01	-8.353118e-01	-1.139464e+00	-3.889290e-01
## 2793	9.818869e-02	-5.201466e-01	-3.180622e-01	3.848275e-01	2.536584e-01
## 2794	3.802943e-02	-1.061517e-01	-1.577625e-01	-7.648762e-02	5.089521e-02
## 2795	3.989110e-06	8.122185e-08	-2.573877e-05	-3.717520e-05	-1.627995e-05
## 2798	1.334603e-01	-6.416489e-01	-3.345614e-01	4.334523e-01	6.985346e-01
## 2799	1.510208e+00	-3.856470e+00	-5.296461e+00	-6.345341e+00	-1.859237e-01
## 2800	7.659462e-03	-9.768158e-03	-6.715364e-02	-5.958381e-02	-9.464914e-02
## 2802	8.387540e-08	-4.007522e-07	-2.123058e-07	2.658751e-07	4.341407e-07
## 2807	-1.656279e-08	4.423155e-07	-4.030411e-07	-7.214982e-07	-6.129643e-07
## 2811	7.285401e-03	-1.790080e-01	-3.841508e-01	1.405489e-01	-1.219863e+00
## 2812	6.178649e-02	-3.133689e-01	-9.851959e-01	-2.083709e-01	-2.327483e+00
## 2813	-3.901478e-05	2.751960e-04	-6.643363e-05	-1.825651e-04	-2.657557e-04
## 2814	7.369641e-02	-3.543165e-01	-1.847431e-01	2.393485e-01	3.857271e-01
## 2815	-2.732366e-02	-1.072897e+00	-1.852251e+00	1.499013e+00	-7.041289e+00
## 2816	1.426445e-01	-5.992090e-01	-4.280879e-01	2.374483e-01	5.793173e-01
## 2817	1.883979e+00	-9.451114e+00	-1.853794e+00	1.049982e+00	5.204296e+00
## 2818	1.142830e+00	-5.251787e+00	-1.309126e+00	-2.159827e-01	3.414271e+00
## 2820	2.992267e-02	-2.620516e-01	-5.807364e-01	5.530372e-02	-1.579634e+00
## 2821	2.687022e-04	-1.176073e-05	-1.742891e-03	-2.477783e-03	-1.148324e-03
## 2822	3.039835e-04	-1.478782e-03	-2.542180e-04	1.044239e-04	1.033234e-03
## 2823	6.429530e-06	-3.090809e-05	-1.612065e-05	2.087191e-05	3.364498e-05
## 2824	2.223296e-05	-4.408495e-07	-1.423964e-04	-2.054175e-04	-8.928794e-05
## 2826	1.972683e-04	-3.978542e-06	-1.263480e-03	-1.822521e-03	-7.924119e-04
## 2827	1.143663e-04	-2.237672e-06	-7.325879e-04	-1.056744e-03	-4.595233e-04

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## 2828 8.128139e-01 -2.432981e-01 -5.020424e+00 -6.918108e+00 -2.825656e+00
## 2829 -2.892538e-05 1.424574e-04 2.206333e-05 -1.342001e-05 -1.013142e-04
## 2831 2.320419e-04 -5.203952e-06 -1.491382e-03 -2.144305e-03 -9.468878e-04
## 2832 4.041738e+00 -2.013086e+01 -3.791908e+00 2.060629e+00 1.189115e+01
## 2833 5.571620e+00 -2.728023e+01 -4.455611e+00 2.262656e+00 1.921132e+01
## 2834 1.064906e-04 -2.260552e-06 -6.818652e-04 -9.836040e-04 -4.274169e-04
## 2835 1.901221e-01 -9.729610e-01 -5.652193e-01 6.979671e-01 6.746413e-01
## 2837 -1.855045e-02 -4.961506e-01 -8.189219e-01 7.479816e-01 -3.233278e+00
## 2838 -4.343047e-06 9.205634e-06 2.039116e-05 1.634360e-05 -1.767687e-07
## 2839 9.982748e-05 -1.261635e-06 -6.404561e-04 -9.238283e-04 -4.027133e-04
## 2840 -1.046328e-03 -2.800874e-02 -4.623546e-02 4.221696e-02 -1.825287e-01
## 2843 -6.552768e-08 3.188643e-07 4.630262e-08 -2.495003e-08 -2.454957e-07
## 2845 3.576380e+00 -1.758096e+01 -2.779571e+00 1.590829e+00 1.243873e+01
## 2846 -2.571063e-47 5.491088e-49 1.646222e-46 2.374704e-46 1.031871e-46
## 2847 8.148666e-02 -3.696855e-01 -9.884044e-02 -2.485543e-02 2.361233e-01
## 2848 4.666193e-05 -9.305231e-07 -2.988579e-04 -4.311158e-04 -1.874040e-04
## 2850 1.072233e-06 -1.414506e-07 -7.089260e-06 -9.765762e-06 -5.093022e-06
## 2852 1.876983e-02 -2.276103e-02 -1.019913e-01 -1.150237e-01 -3.212031e-02
## 2853 -3.069763e-06 -1.823804e-04 -3.248832e-04 2.402294e-04 -1.203038e-03
## 2855 6.774709e-05 -1.431479e-06 -4.337963e-04 -6.257614e-04 -2.719250e-04
## 2856 6.736704e-02 -6.365304e-01 -7.373976e-01 3.554531e-01 -2.092129e+00
## 2857 9.267498e-06 -7.069775e-04 -1.008213e-03 9.417735e-04 -3.518457e-03
## 2860 2.800565e-06 1.621033e-08 -1.802050e-05 -2.601753e-05 -1.136000e-05
## 2861 -3.891754e-05 1.913823e-04 3.014053e-05 -1.745543e-05 -1.355338e-04
## 2862 -1.508119e-04 1.761566e-03 -1.055619e-03 -2.085046e-03 -2.086635e-03
## 2864 5.917047e-04 -1.263721e-05 -3.788616e-03 -5.465144e-03 -2.374748e-03
## 2865 3.322809e-05 -6.264211e-07 -2.128627e-04 -3.070713e-04 -1.335160e-04
## 2866 6.511161e-05 -8.942830e-07 -4.177775e-04 -6.024522e-04 -2.629012e-04
## 2867 5.279463e-02 -1.649500e-01 -6.474616e-01 -2.973915e-01 -1.303332e+00
## 2868 1.079497e-06 7.849822e-08 -7.029672e-06 -1.017167e-05 -4.490737e-06
## 2869 5.057588e-04 -1.452163e-03 -1.583729e-03 -1.820945e-03 1.706461e-04
## 2870 3.926268e-02 -1.698348e-01 -1.226291e-01 -4.597587e-02 -7.548527e-02
## 2871 2.686576e-04 -5.723287e-06 -1.720238e-03 -2.481433e-03 -1.078356e-03
## 2872 -7.329521e-05 9.790936e-04 -6.543222e-04 -1.256547e-03 -1.202192e-03

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## 2873 9.156853e-02 -1.622198e-01 -8.889319e-01 -6.596300e-01 -1.435042e+00
## 2875 1.329199e-02 1.955396e-03 -8.768086e-02 -1.271976e-01 -5.677348e-02
## 2877 1.109402e-02 -5.436096e-02 -8.851724e-03 4.632598e-03 3.833736e-02
## 2878 2.948439e-02 9.469276e-03 -2.004160e-01 -2.923074e-01 -1.338527e-01
## 2879 5.982223e-01 -1.479657e+00 -2.144847e+00 -2.624060e+00 -1.571162e-01
## 2880 1.076912e-02 2.185242e-04 -6.957039e-02 -1.001631e-01 -4.378592e-02
## 2881 3.224437e-02 -6.915998e-04 -2.064537e-01 -2.978115e-01 -1.294049e-01
## 2883 1.284311e-01 -4.499999e-02 -7.737890e-01 -1.102650e+00 -4.508471e-01
## 2884 3.537451e-02 -6.586350e-04 -2.266169e-01 -3.269219e-01 -1.421385e-01
## 2885 7.948269e-06 -9.850133e-08 -5.097663e-05 -7.355407e-05 -3.201645e-05
## 2887 3.185908e-06 3.923283e-09 -2.048317e-05 -2.956864e-05 -1.290040e-05
## 2888 5.218226e+00 -2.356787e+01 -6.451208e+00 -1.801265e+00 1.495894e+01
## 2889 8.351390e-02 -4.014828e-01 -2.093814e-01 2.711446e-01 4.370461e-01
## 2890 5.307001e-02 -1.141644e-03 -3.397919e-01 -4.901528e-01 -2.129795e-01
## 2891 9.978849e-04 -4.870548e-03 -8.157722e-04 3.748022e-04 3.416994e-03
## 2892 3.169523e-01 -7.013792e-03 -2.029133e+00 -2.926975e+00 -1.271697e+00
## 2893 1.281673e-08 -5.953272e-08 -3.383879e-08 3.617572e-08 6.301642e-08
## 2894 5.408752e-01 -8.114935e-02 -3.585498e+00 -4.912400e+00 -2.609848e+00
## 2895 7.884792e-01 -3.581931e+00 -9.508705e-01 -2.310257e-01 2.292159e+00
## 2896 4.521505e-05 -9.301875e-07 -2.895515e-04 -4.176897e-04 -1.815312e-04
## 2898 1.389365e-02 -6.810612e-02 -1.102017e-02 5.798251e-03 4.802666e-02
## 2901 6.277126e-02 -2.696465e-01 -8.598699e-01 -2.550872e-01 -1.907837e+00
## 2903 7.894702e-02 -1.286486e-01 -6.871748e-01 -5.661212e-01 -1.005993e+00
## 2904 1.082752e-02 -6.559275e-02 -9.470015e-02 2.259584e-03 -2.144265e-01
## 2905 1.923329e-05 -1.119912e-03 -3.481190e-03 7.880439e-04 -1.088919e-02
## 2906 -3.332504e-06 3.439834e-05 -1.842109e-05 -3.719918e-05 -3.998418e-05
## 2907 4.929403e-08 -2.345820e-07 -1.255415e-07 1.537981e-07 2.533224e-07
## 2908 1.046403e-03 -8.326618e-03 -7.496412e-03 7.948925e-03 -1.218302e-02
## 2909 4.700816e-01 -1.811026e+00 -9.400059e-01 -7.795783e-01 8.694930e-01
## 2910 -6.032423e-02 3.476576e-01 -1.186397e-02 -1.279312e-01 -2.880408e-01
## 2911 1.114382e-01 -3.622048e-01 -1.357769e+00 -6.019253e-01 -2.749112e+00
## 2912 7.535986e-02 -1.521302e-01 -7.668368e-01 -5.212608e-01 -1.305319e+00
## 2913 1.290043e-04 -2.735076e-06 -8.260279e-04 -1.191559e-03 -5.177915e-04
## 2914 1.533233e-02 -1.286671e-01 -3.405194e-01 7.438631e-03 -9.164172e-01

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## 2916 5.884625e-06 -3.191251e-05 -1.092214e-05 5.892036e-06 -1.335873e-06
## 2918 8.315017e-01 -2.774511e-01 -5.112467e+00 -7.002934e+00 -2.835609e+00
## 2920 1.308025e-02 -4.832533e-02 -2.852959e-02 -2.578056e-02 2.103720e-02
## 2921 -6.227386e-03 -1.306621e+00 -2.350371e+00 1.595894e+00 -8.470961e+00
## 2922 2.392115e-04 -5.014737e-06 -1.532031e-03 -2.209683e-03 -9.609503e-04
## 2923 6.049323e-05 -2.239839e-05 -4.863537e-04 -5.501255e-04 -5.429307e-04
## 2924 1.231480e-05 4.560481e-07 -7.978864e-05 -1.151952e-04 -5.082666e-05
## 2925 5.575220e-07 -2.677458e-06 -1.400043e-06 1.802902e-06 2.912273e-06
## 2926 -2.413163e-05 1.241017e-04 1.119884e-05 -2.190160e-05 -9.571865e-05
## 2927 3.948848e-02 3.692602e-03 -2.580540e-01 -3.736983e-01 -1.654265e-01
## 2928 4.283047e-02 -3.455227e-01 -5.259514e-01 1.118796e-01 -1.391358e+00
## 2929 6.541926e-02 -3.105723e-01 -6.350945e-02 7.303836e-03 2.106638e-01
## 2930 1.576178e-02 -6.298586e-01 -9.760536e-01 6.698152e-01 -3.410899e+00
## 2931 2.051480e+00 -9.720575e+00 -2.013036e+00 1.921535e-01 6.577620e+00
## 2933 1.028449e-03 -4.887908e-03 -2.624243e-03 3.192395e-03 5.273446e-03
## 2934 4.275829e-01 -1.976193e+00 -4.768521e-01 -5.851884e-02 1.294666e+00
## 2935 6.457083e-02 -5.965115e-01 -5.509727e-01 3.598917e-01 -1.563766e+00
## 2936 1.984200e-04 -4.237791e-06 -1.270468e-03 -1.832663e-03 -7.963621e-04
## 2938 1.991931e-02 -1.377673e-01 -2.618282e-01 9.139455e-03 -6.575562e-01
## 2939 -5.422035e-04 -1.452317e-02 -2.396645e-02 2.189258e-02 -9.461527e-02
## 2940 4.777476e-02 -2.187164e-01 -4.832064e-01 -1.255980e-01 -1.011442e+00
## 2941 1.153369e-04 -2.448196e-06 -7.385093e-04 -1.065314e-03 -4.629249e-04
## 2943 1.456152e-01 -1.694416e-02 -9.165052e-01 -1.317591e+00 -5.633699e-01
## 2945 -2.537492e-02 -6.784784e-01 -1.119815e+00 1.022923e+00 -4.421428e+00
## 2946 1.532231e-01 -7.826605e-01 -2.068563e+00 -4.067802e-01 -4.770389e+00
## 2947 2.057832e-02 -9.889425e-02 -5.162010e-02 6.672423e-02 1.076260e-01
## 2948 5.331610e+00 -2.555049e+01 -4.901124e+00 1.068241e+00 1.753487e+01
## 2950 1.167755e-01 -1.713030e-01 -1.051843e+00 -8.785942e-01 -1.553696e+00
## 2954 2.122020e-02 -2.769813e-02 -1.140596e-01 -1.242471e-01 -3.208983e-02
## 2955 4.776381e-02 -5.915284e-01 -1.310421e+00 2.743206e-01 -3.827245e+00
## 2956 -5.315035e-05 2.619383e-04 4.046912e-05 -2.496753e-05 -1.860880e-04
## 2957 3.574647e-03 -1.206609e-02 -9.114711e-03 -9.303284e-03 3.984440e-03
## 2959 2.899911e-02 -3.775503e-01 -7.571391e-01 2.076195e-01 -2.248818e+00
## 2961 1.412357e-02 -1.213606e-01 -1.720509e-01 4.965314e-02 -4.667203e-01

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## 2962 6.810929e-02 -1.463855e-01 -6.966041e-01 -4.572217e-01 -1.203246e+00
## 2964 2.892115e-02 -4.755078e-01 -7.573409e-01 3.716420e-01 -2.404089e+00
## 2965 -4.616272e-04 3.013374e-03 -4.967215e-04 -1.677167e-03 -2.745128e-03
## 2966 -3.914873e-07 2.411464e-06 -2.706647e-07 -1.141432e-06 -2.147970e-06
## 2967 2.442130e-05 -1.021441e-04 -4.100780e-05 -2.488380e-05 5.374452e-05
## 2968 -3.722409e-03 2.067018e-02 1.674318e-04 -6.346214e-03 -1.657620e-02
## 2969 1.691168e-05 8.012902e-05 -2.013428e-04 -3.155531e-04 -1.925390e-04
## 2970 8.366418e-03 -1.667562e-04 -5.359704e-02 -7.727168e-02 -3.357941e-02
## 2974 8.091121e-02 -6.726086e-02 -4.460990e-01 -6.185993e-01 -2.334777e-01
## 2976 1.820654e-02 -3.023446e-01 -5.423256e-01 2.213418e-01 -1.694938e+00
## 2977 3.363482e-02 -4.185797e-01 -8.811963e-01 2.077440e-01 -2.586141e+00
## 2979 1.091887e-03 -2.331972e-05 -6.991223e-03 -1.008496e-02 -4.382178e-03
## 2980 1.793139e-03 -8.584752e-03 -4.745079e-03 6.140796e-03 9.574370e-03
## 2981 4.402113e-01 -2.026454e-01 -2.596511e+00 -3.683684e+00 -1.470972e+00
## 2982 2.813055e-07 -1.349570e-06 -7.075334e-07 9.060836e-07 1.466765e-06
## 2985 1.112869e-03 -4.569980e-03 -1.900297e-03 -1.286592e-03 2.491710e-03
## 2986 6.758545e-05 -1.343838e-06 -4.328796e-04 -6.244407e-04 -2.714629e-04
## 2987 -7.174784e-05 3.527061e-04 5.575713e-05 -3.192297e-05 -2.495488e-04
## 2988 3.203017e-02 -6.668475e-01 -1.462958e+00 4.778194e-01 -4.565807e+00
## 2989 2.455097e-02 -1.186603e-01 -2.141315e-02 6.907945e-03 8.228285e-02
## 2992 8.086246e-05 -2.329364e-06 -5.172627e-04 -7.452965e-04 -3.233700e-04
## 2994 -9.640987e-03 -5.099251e-01 -1.042041e+00 6.437186e-01 -3.738194e+00
## 2995 1.487787e-02 -3.177506e-04 -9.526127e-02 -1.374160e-01 -5.971086e-02
## 2996 -1.367756e-04 -3.670438e-03 -6.061153e-03 5.529206e-03 -2.392101e-02
## 2997 -5.476901e-04 -1.476345e-02 -2.434673e-02 2.224306e-02 -9.607199e-02
## 2998 3.835927e-04 -1.264108e-03 -1.015546e-03 -1.059625e-03 3.747253e-04
## [,6] [,7] [,8] [,9] [,10]
## 3 4.511338e-01 -3.044518e+00 4.402260e+00 -1.776337e-01 -2.262693e-01
## 4 4.396395e-05 -2.572194e-04 3.737787e-04 -1.468399e-05 -2.675801e-05
## 6 1.729403e-04 -1.013237e-03 1.454440e-03 -5.854070e-05 -1.046750e-04
## 7 1.049304e+00 -6.202891e+00 9.010208e+00 -3.547262e-01 -6.310254e-01
## 8 3.549666e-07 -2.062116e-07 4.041856e-07 6.562774e-09 -4.397603e-07
## 9 2.428715e-04 -1.421226e-03 2.065236e-03 -8.113769e-05 -1.477881e-04
## 10 1.137700e-05 -6.573271e-05 9.562607e-05 -3.733119e-06 -7.034891e-06

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## 11	2.989395e-04	-1.749434e-03	2.541594e-03	-9.990071e-05	-1.818760e-04
## 13	1.663837e-01	6.724524e-02	-4.156418e-02	1.366473e-02	-2.253612e-01
## 15	-1.890144e-02	-3.378734e-02	-1.778804e+00	-7.288097e-02	7.073386e-02
## 16	-4.064698e-03	2.916478e-03	-2.671333e-01	-1.004094e-02	1.100670e-02
## 18	9.395782e-02	-5.498254e-01	7.989654e-01	-3.139068e-02	-5.717169e-02
## 21	3.244219e-06	-9.888708e-06	1.531316e-05	-3.938969e-07	-3.142431e-06
## 22	-6.853190e-03	4.112037e-02	9.517809e-02	3.135610e-02	-2.458926e-02
## 23	9.532435e-02	-5.458044e-01	2.619250e+00	3.107528e-01	-3.969844e-01
## 24	2.915950e-06	-1.647127e-05	2.398021e-05	-9.322734e-07	-1.847425e-06
## 25	1.031237e-04	-1.072616e-03	-4.357688e-03	-2.909475e-04	1.292312e-04
## 26	4.455434e-05	-2.605050e-04	3.785863e-04	-1.486547e-05	-2.714187e-05
## 27	-2.831476e-03	-8.222727e-03	1.061440e-02	-7.028857e-04	4.678601e-03
## 28	-2.915265e+00	-6.382864e+00	8.010633e+00	-5.856700e-01	4.569220e+00
## 29	2.241761e-02	-1.310480e-01	1.900790e-01	-7.494171e-03	-1.364872e-02
## 30	5.181550e-04	9.480886e-05	3.106440e-05	3.495762e-05	-6.881849e-04
## 31	3.629603e-02	-2.155084e-01	2.737661e-01	-1.383306e-02	-2.080904e-02
## 32	1.148715e-01	-6.662750e-01	1.975578e+00	1.505808e-01	-2.568228e-01
## 35	1.080160e-01	-6.321085e-01	9.185321e-01	-3.608858e-02	-6.572384e-02
## 36	1.860675e-01	-1.088832e+00	1.587104e+00	-6.124737e-02	-1.141242e-01
## 38	8.560530e-06	-4.095615e-05	6.000742e-05	-2.252010e-06	-6.298651e-06
## 39	-1.615175e-02	-2.214972e-01	-3.660321e+00	-1.672612e-01	1.390745e-01
## 40	-4.286804e+00	-3.505653e+00	3.551814e+00	-4.700276e-01	6.017759e+00
## 41	-1.201440e-02	6.618429e-02	7.921038e-02	4.735994e-02	-3.633317e-02
## 44	6.848215e-04	-1.954708e-03	2.951401e-03	-9.217865e-05	-6.615208e-04
## 45	5.524999e-05	-3.232736e-04	4.697630e-04	-1.845529e-05	-3.362413e-05
## 47	2.557535e-03	-1.496667e-02	2.174842e-02	-8.544827e-04	-1.556167e-03
## 49	1.995468e-02	-1.138925e-01	1.656291e-01	-6.476188e-03	-1.248476e-02
## 50	3.691868e-02	-2.380494e-01	6.583893e-02	-2.446355e-02	-1.340001e-02
## 52	6.582787e-02	-3.873326e-01	6.077248e-01	-1.370861e-02	-4.812265e-02
## 53	-2.222610e-08	9.621932e-09	-1.531174e-06	-5.835513e-08	6.276749e-08
## 55	8.795136e-05	-5.145898e-04	7.477834e-04	-2.937535e-05	-5.353002e-05
## 56	6.967709e-02	-4.229352e-01	2.479919e+00	3.251280e-01	-3.856557e-01
## 57	1.038273e-01	-5.958851e-01	8.668400e-01	-3.385130e-02	-6.462949e-02
## 58	8.558920e-07	-4.343426e-06	6.353271e-06	-2.406020e-07	-6.011866e-07

## 59	-3.382754e+00	-2.820653e+00	2.878763e+00	-3.745158e-01	4.755141e+00
## 60	8.226263e-02	-4.949395e-01	2.301501e+00	2.680181e-01	-3.411550e-01
## 63	3.393871e-02	-2.439298e-01	-2.173226e-01	-3.612639e-02	-2.099233e-03
## 65	5.309046e-05	-2.914134e-05	5.768701e-05	1.022547e-06	-6.590413e-05
## 66	1.030694e-04	-4.401102e-04	6.489337e-04	-2.347488e-05	-8.226825e-05
## 67	-1.286022e-02	7.854786e-02	3.876260e-01	9.843230e-02	-8.531568e-02
## 69	-6.318402e+00	-4.201777e+00	3.884474e+00	-6.285662e-01	8.754592e+00
## 71	-6.124375e-01	-1.831420e+00	2.369226e+00	-1.556639e-01	1.018382e+00
## 76	8.091816e-05	-4.733693e-04	6.879012e-04	-2.701897e-05	-4.926040e-05
## 77	4.724716e-04	-2.764765e-03	4.017667e-03	-1.578246e-04	-2.875186e-04
## 78	1.147554e-01	-6.673379e-01	1.595783e+00	7.911973e-02	-1.860485e-01
## 79	6.487871e-02	-3.646465e-01	2.811477e+00	4.063755e-01	-4.630070e-01
## 80	1.202739e-04	-7.033242e-04	1.022330e-03	-4.009627e-05	-7.329664e-05
## 81	2.013681e-04	-1.178264e-03	1.712360e-03	-6.723331e-05	-1.225767e-04
## 82	9.800745e-03	3.049663e-03	-1.173134e-03	7.442798e-04	-1.316611e-02
## 83	-5.123165e-04	-5.678576e-04	6.334739e-04	-6.595526e-05	7.368154e-04
## 87	-5.405296e+00	-6.092765e+00	6.818552e+00	-7.039386e-01	7.787313e+00
## 90	3.004419e-04	-1.758154e-03	2.554825e-03	-1.003757e-04	-1.828126e-04
## 93	3.095089e-04	-1.811215e-03	2.631929e-03	-1.034050e-04	-1.883295e-04
## 94	1.202886e-03	-7.039276e-03	1.022894e-02	-4.018890e-04	-7.319125e-04
## 95	1.292671e-05	-7.549534e-05	1.097184e-04	-4.307622e-06	-7.884659e-06
## 96	3.551821e-02	-2.386496e-01	-4.214053e-02	-2.872519e-02	-8.996527e-03
## 97	-1.225709e-02	-1.737900e-02	2.044735e-02	-1.833259e-03	1.808339e-02
## 98	4.285860e-02	1.718724e-02	-1.051843e-02	3.510944e-03	-5.803453e-02
## 99	-6.335375e-03	-2.387188e-02	3.141516e-02	-1.935560e-03	1.111969e-02
## 100	7.020437e-05	-1.949384e-04	3.072343e-04	-6.785124e-06	-7.073880e-05
## 102	1.325137e+00	-7.765456e+00	1.510578e+01	2.722113e-01	-1.511771e+00
## 103	-1.339070e-03	7.607321e-03	1.225513e-02	5.576460e-03	-4.314804e-03
## 104	-8.115921e-09	-4.224527e-10	-6.029632e-07	-2.345633e-08	2.452712e-08
## 105	-7.431113e-05	4.358213e-04	1.012972e-03	3.331277e-04	-2.592999e-04
## 106	-1.798004e+00	-1.101492e+00	9.735919e-01	-1.726033e-01	2.480030e+00
## 107	-4.388218e-02	-1.773544e-02	1.096235e-02	-3.603957e-03	5.943697e-02
## 108	-8.136625e-01	-1.256333e+00	1.500990e+00	-1.285295e-01	1.212673e+00
## 109	-6.379300e+00	-4.563840e+00	4.371845e+00	-6.560177e-01	8.877314e+00

## 110	8.353511e-02	-6.488971e-02	7.954517e-01	1.272991e-01	-2.268040e-01
## 111	-1.575394e-01	6.712645e-01	2.339282e+00	6.591324e-01	-4.896755e-01
## 112	1.862297e-04	-1.088513e-03	1.582779e-03	-6.195282e-05	-1.136476e-04
## 113	1.549631e-01	6.261749e-02	-3.869437e-02	1.272599e-02	-2.098910e-01
## 115	-1.990426e-01	-7.886392e-01	1.040662e+00	-6.345539e-02	3.540352e-01
## 118	-2.323429e-02	2.559073e-02	1.486914e+00	2.869047e-01	-2.556225e-01
## 119	9.795630e-02	-5.732248e-01	8.329676e-01	-3.272661e-02	-5.960458e-02
## 120	9.161054e-04	3.344147e-04	-1.787100e-04	7.285353e-05	-1.236561e-03
## 121	-1.531964e-02	9.121145e-02	2.036058e-01	6.945196e-02	-5.442395e-02
## 122	-1.896710e-02	1.450195e-01	6.830113e+00	1.326576e+00	-1.294095e+00
## 124	2.481739e-04	-1.452223e-03	2.110272e-03	-8.290867e-05	-1.510167e-04
## 125	7.245849e-01	-5.358556e+00	7.728382e+00	-3.160330e-01	-3.079915e-01
## 126	2.271359e-04	-1.329173e-03	1.931459e-03	-7.588458e-05	-1.382076e-04
## 127	1.122203e-01	-6.567099e-01	9.542810e-01	-3.749311e-02	-6.828228e-02
## 128	2.804036e-01	-1.165536e+01	1.640054e+01	-7.591977e-01	1.022785e+00
## 130	7.263716e-02	-2.446334e-02	5.715872e-02	2.384786e-03	-9.196693e-02
## 131	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
## 133	8.056372e-07	-1.932886e-07	5.416528e-07	3.480371e-08	-1.032456e-06
## 134	5.804270e-06	-3.287504e-05	2.142819e-04	2.929955e-05	-3.444026e-05
## 135	1.516689e-04	-1.021166e-03	-2.088816e-04	-1.240193e-04	-3.743137e-05
## 136	-4.103678e-02	-4.039884e-01	5.523643e-01	-2.913241e-02	1.017659e-01
## 137	-3.563367e-03	-4.344641e-02	-6.677821e-01	-3.089875e-02	2.662594e-02
## 138	5.261968e-04	-2.908302e-03	4.237256e-03	-1.640706e-04	-3.409144e-04
## 141	1.366766e-04	-7.997925e-04	1.162205e-03	-4.566070e-05	-8.316818e-05
## 143	9.224327e-06	-5.387995e-05	7.830236e-05	-3.074681e-06	-5.625174e-06
## 144	1.191295e-01	-1.659899e-02	6.083179e-02	5.476187e-03	-1.536365e-01
## 146	1.688794e-04	-9.882488e-04	1.436055e-03	-5.642022e-05	-1.027617e-04
## 147	1.142233e-01	-4.463365e+00	6.283784e+00	-2.901441e-01	3.825238e-01
## 148	8.456392e-05	-3.912019e-05	8.336936e-05	2.431333e-06	-1.061572e-04
## 149	-6.023694e+00	-2.434766e+00	1.505116e+00	-4.947293e-01	8.158923e+00
## 150	-7.263240e-02	3.466149e-01	2.557308e+00	5.929754e-01	-5.132401e-01
## 151	8.286109e-05	3.303906e-05	-2.003377e-05	6.782055e-06	-1.121857e-04
## 153	9.132664e-05	-5.343903e-04	7.765381e-04	-3.050912e-05	-5.557517e-05
## 154	2.027191e-05	-3.884982e-06	1.193526e-05	8.800464e-07	-2.603590e-05

## 155	1.535654e-05	2.982385e-06	6.748607e-07	1.046697e-06	-2.041548e-05
## 157	7.645173e-01	-4.584485e+00	6.655880e+00	-2.627791e-01	-4.520035e-01
## 158	-1.633854e+00	-6.603493e-01	4.081723e-01	-1.341859e-01	2.213003e+00
## 159	2.048290e+00	-1.203710e+01	1.688189e+01	-7.109074e-01	-1.226273e+00
## 162	3.051494e-01	-1.788688e+00	2.599026e+00	-1.021483e-01	-1.853198e-01
## 163	5.853896e-04	-1.851551e-03	2.775583e-03	-9.082576e-05	-5.439187e-04
## 164	7.099429e-04	-4.146820e-03	6.133101e-03	-2.166742e-04	-4.526551e-04
## 165	-7.402911e-03	-2.198431e-02	-7.906981e-01	-3.319599e-02	3.120712e-02
## 166	6.902406e-03	-4.039280e-02	5.869577e-02	-2.306117e-03	-4.199869e-03
## 167	-8.751126e-02	-4.556711e-01	6.099788e-01	-3.514333e-02	1.686422e-01
## 168	1.051430e-01	-6.419791e-01	5.967408e-01	-4.970322e-02	-5.306494e-02
## 169	-4.974092e-03	3.599921e-03	-3.265541e-01	-1.227050e-02	1.345658e-02
## 171	-5.078212e-02	1.190938e-01	1.310491e+00	2.846950e-01	-2.239642e-01
## 172	3.060109e-02	-1.741506e-01	2.533281e-01	-9.896167e-03	-1.920712e-02
## 174	-7.201256e-03	-6.865572e-03	7.333928e-03	-8.543684e-04	1.022529e-02
## 175	6.313500e-05	1.268626e-05	2.912396e-06	4.468639e-06	-8.411974e-05
## 176	-1.411395e-01	1.188341e-01	-9.027537e+00	-3.285363e-01	3.645442e-01
## 177	-1.486722e-01	8.942709e-01	2.736607e+00	8.112825e-01	-6.634176e-01
## 178	2.456912e-02	-2.645011e-01	3.781412e-01	-1.618426e-02	-6.095937e-04
## 179	1.094308e+00	-6.406467e+00	9.278716e+00	-3.669527e-01	-6.648325e-01
## 180	-2.912500e-01	-3.994307e-01	4.669366e-01	-4.266247e-02	4.280811e-01
## 182	-4.945873e-01	-2.879279e-01	2.467346e-01	-4.647606e-02	6.803993e-01
## 183	2.790525e-02	-9.524283e-04	1.014175e-02	1.478079e-03	-3.633832e-02
## 185	1.448809e-05	5.853479e-06	-3.588177e-06	1.195041e-06	-1.962863e-05
## 186	-8.601942e-03	5.161351e-02	1.195134e-01	3.936650e-02	-3.087285e-02
## 188	1.303040e-04	-1.859678e-03	2.652208e-03	-1.148351e-04	4.986787e-05
## 189	1.070773e-02	2.645358e-03	-3.211165e-04	7.674797e-04	-1.430266e-02
## 190	2.531515e-02	-1.481872e-01	2.144571e-01	-8.494119e-03	-1.537810e-02
## 192	1.162696e-01	6.905314e-03	2.704221e-02	6.881987e-03	-1.527033e-01
## 194	-1.264199e-06	7.400366e-06	-1.072428e-05	4.236549e-07	7.682603e-07
## 195	4.291521e-02	-2.511393e-01	3.649366e-01	-1.433814e-02	-2.611235e-02
## 196	2.909602e-04	-1.702561e-03	2.474060e-03	-9.719821e-05	-1.770585e-04
## 197	-1.000803e-09	-3.390370e-09	-1.115281e-07	-4.710615e-09	4.384339e-09
## 199	-8.292774e-04	-3.606657e-03	4.784800e-03	-2.857230e-04	1.513291e-03

## 200	-1.979044e-02	1.187464e-01	2.748799e-01	9.055440e-02	-7.101327e-02
## 201	8.701120e-04	-3.324187e-03	4.925893e-03	-1.730850e-04	-7.402324e-04
## 203	-4.418050e-03	-2.049648e-03	1.473308e-03	-3.803809e-04	6.015558e-03
## 204	5.652651e-06	-3.289639e-05	4.781670e-05	-1.875604e-06	-3.462031e-06
## 208	1.658764e-01	-9.705518e-01	1.433547e+00	-5.106453e-02	-1.052393e-01
## 209	2.972914e-02	-1.731667e-01	2.466923e-01	-1.006946e-02	-1.807035e-02
## 210	1.092167e-04	-4.238390e-04	6.275047e-04	-2.216573e-05	-9.212702e-05
## 211	-2.432626e-02	-1.944851e-03	-1.817550e+00	-7.078936e-02	7.386561e-02
## 212	1.809865e-05	-4.826512e-05	7.324497e-05	-2.211415e-06	-1.788650e-05
## 214	-4.931679e-03	-1.414727e-02	1.824132e-02	-1.212990e-03	8.128427e-03
## 215	4.467521e-03	-7.371248e-03	1.172365e-02	-2.436527e-04	-4.956829e-03
## 219	-2.284723e-07	1.621970e-07	-1.503459e-05	-5.653342e-07	6.193802e-07
## 220	1.565324e-04	-9.159359e-04	1.331343e-03	-5.222296e-05	-9.532328e-05
## 222	-4.179918e-01	-5.829834e-01	6.837515e-01	-6.187529e-02	6.155278e-01
## 223	-5.135231e-06	8.140632e-06	3.337425e-05	8.943119e-06	-2.839818e-06
## 224	1.227984e-01	-4.059846e-02	9.556954e-02	4.082123e-03	-1.555672e-01
## 226	6.697783e-04	-2.485243e-03	3.689417e-03	-1.282226e-04	-5.786910e-04
## 228	1.553855e-02	-1.194730e-01	3.158570e+00	5.520983e-01	-5.582831e-01
## 230	-9.825033e-02	5.974529e-01	2.568181e+00	6.776216e-01	-5.782070e-01
## 231	1.197678e-01	-6.964928e-01	1.679154e+00	8.513282e-02	-1.967000e-01
## 232	1.038879e+00	-6.125933e+00	8.899247e+00	-3.501804e-01	-6.265864e-01
## 233	-2.197696e-02	-2.420059e-01	-4.317782e+00	-1.951169e-01	1.649320e-01
## 235	1.695999e-02	4.372273e-03	-7.636668e-04	1.227740e-03	-2.267575e-02
## 237	1.321700e-05	5.340746e-06	-3.267058e-06	1.091645e-06	-1.790802e-05
## 238	5.547738e-04	-2.401274e-03	3.535354e-03	-1.290392e-04	-4.384264e-04
## 239	-1.168161e-06	8.630444e-07	-7.649478e-05	-2.872100e-06	3.153066e-06
## 242	3.007807e-07	1.656098e-07	1.888169e-08	5.677653e-08	-4.414308e-07
## 244	2.803091e-04	-1.640345e-03	2.383630e-03	-9.365014e-05	-1.705613e-04
## 246	1.150057e-05	-1.273147e-05	4.047273e-05	3.351123e-06	-1.702332e-05
## 247	-1.943340e-01	1.166036e+00	2.698501e+00	8.890730e-01	-6.971885e-01
## 248	1.011888e-01	-5.878923e-01	1.501201e+00	8.756155e-02	-1.816571e-01
## 249	-4.081940e-02	-2.140031e-01	-5.394663e+00	-2.337503e-01	2.100317e-01
## 250	1.144743e-03	6.338825e-05	2.726791e-04	6.745147e-05	-1.502907e-03
## 252	9.787923e-01	-5.751503e+00	8.356378e+00	-3.285891e-01	-5.927437e-01

## 253	-9.713110e-02	-1.341241e-01	-8.655304e+00	-3.512843e-01	3.463695e-01
## 254	-1.013348e-08	9.473225e-10	-7.364267e-07	-2.848307e-08	3.002253e-08
## 255	-9.068635e-01	-6.158997e-01	5.754798e-01	-9.106995e-02	1.258053e+00
## 256	-7.889504e-02	3.313051e-01	2.560787e+00	5.886216e-01	-5.002817e-01
## 258	3.164859e-02	-2.736196e-01	-7.164876e-01	-5.887792e-02	1.690203e-02
## 259	-1.879360e-08	7.069157e-09	-1.306597e-06	-4.992623e-08	5.351069e-08
## 260	-3.985612e-01	-2.142137e-01	1.739077e-01	-3.626757e-02	5.461732e-01
## 261	1.011871e-01	-7.745160e-01	1.118041e+00	-4.548906e-02	-4.026797e-02
## 266	-2.867216e-03	1.677892e-02	-2.438185e-02	9.579485e-04	1.744597e-03
## 267	7.526649e-03	-4.315430e-02	2.040306e-01	2.406855e-02	-3.088702e-02
## 268	6.439112e-11	-3.765132e-10	6.132951e-10	-8.839091e-12	-5.173870e-11
## 269	-5.929750e-04	2.947634e-04	-4.042703e-02	-1.536203e-03	1.659146e-03
## 270	-3.025421e-08	1.763455e-07	-2.549713e-07	1.030822e-08	1.824848e-08
## 271	-4.461637e-03	-7.557130e-03	9.165548e-03	-7.492030e-04	6.729217e-03
## 273	1.518745e-04	-8.885090e-04	1.291219e-03	-5.070763e-05	-9.245774e-05
## 274	7.468748e-05	-4.369347e-04	6.349480e-04	-2.494055e-05	-4.546456e-05
## 275	-1.123238e+00	-6.663066e-01	5.777049e-01	-1.063754e-01	1.546708e+00
## 276	3.802714e-04	-2.225302e-03	3.233774e-03	-1.270226e-04	-2.314108e-04
## 277	2.182679e-03	8.821478e-04	-5.452555e-04	1.792588e-04	-2.956366e-03
## 278	9.306624e-05	-5.428753e-04	7.889615e-04	-3.097711e-05	-5.683621e-05
## 279	2.850398e-04	-1.668028e-03	2.423858e-03	-9.523057e-05	-1.734399e-04
## 280	3.045079e-04	-1.781950e-03	2.589403e-03	-1.017343e-04	-1.852863e-04
## 281	1.201292e-01	4.855119e-02	-3.000948e-02	9.865956e-03	-1.627110e-01
## 283	5.168639e-05	-3.023529e-04	4.393746e-04	-1.725869e-05	-3.146527e-05
## 284	8.225688e-07	-2.127659e-04	-2.310347e-03	-1.138556e-04	8.452817e-05
## 286	3.762982e-02	-2.249286e-01	2.672192e-01	-1.515652e-02	-2.096289e-02
## 287	-9.143726e-05	-7.749171e-04	1.056518e-03	-5.639491e-05	2.116359e-04
## 288	2.572851e-04	-1.505833e-03	2.185598e-03	-8.607105e-05	-1.564655e-04
## 289	5.484793e-05	-3.207849e-04	4.661749e-04	-1.830801e-05	-3.339955e-05
## 292	4.764939e-05	-2.142776e-04	4.020878e-04	4.709208e-06	-5.282216e-05
## 295	1.835258e-04	7.417356e-05	-4.584649e-05	1.507264e-05	-2.485797e-04
## 296	1.643215e-04	-1.037166e-03	5.472213e-04	-9.647956e-05	-6.890193e-05
## 297	2.334475e-04	-1.303661e-03	2.192614e-03	-1.862965e-05	-2.040166e-04
## 298	3.201426e-03	-1.873471e-02	2.722386e-02	-1.069609e-03	-1.947952e-03

## 299	1.684134e-02	-6.657183e-02	6.657503e+00	1.224608e+00	-1.226889e+00
## 300	3.246723e-04	-1.899875e-03	2.760778e-03	-1.084639e-04	-1.975672e-04
## 301	3.411315e-02	-1.990832e-01	2.718832e-01	-1.202786e-02	-2.041908e-02
## 302	-7.035117e-01	-3.059138e-01	2.059439e-01	-5.921394e-02	9.554570e-01
## 303	1.818229e-05	-1.063184e-04	1.545019e-04	-6.068528e-06	-1.107394e-05
## 305	-2.539557e-01	5.840256e-01	-1.060588e+01	-8.561121e-02	2.030156e-01
## 306	-3.301468e-02	-1.873167e-02	1.578717e-02	-3.069881e-03	4.535978e-02
## 308	4.187991e-04	-2.450717e-03	3.561256e-03	-1.399058e-04	-2.548453e-04
## 310	8.301021e-03	-4.225582e-02	1.022061e+00	1.774563e-01	-1.833769e-01
## 311	-7.532511e-02	4.614051e-01	2.466945e+00	6.137874e-01	-5.365695e-01
## 312	8.923980e-05	-5.219445e-04	7.585328e-04	-2.978375e-05	-5.434571e-05
## 314	-7.219971e-03	-1.080306e-02	1.283646e-02	-1.117522e-03	1.071941e-02
## 315	1.699209e-05	-6.699849e-05	1.005569e-04	-3.247430e-06	-1.447530e-05
## 316	1.483199e-04	-5.773333e-04	8.639867e-04	-2.846319e-05	-1.266362e-04
## 317	9.385935e-05	-5.492213e-04	7.980937e-04	-3.135506e-05	-5.711596e-05
## 318	-4.881072e-08	2.899872e-08	-3.274960e-06	-1.238617e-07	1.346320e-07
## 320	-2.421213e-01	1.426969e+00	5.445963e+00	1.489409e+00	-1.244210e+00
## 321	9.399594e-05	-5.486076e-04	7.972756e-04	-3.130710e-05	-5.736716e-05
## 322	-2.011314e-01	-2.717684e-01	3.167617e-01	-2.919104e-02	2.951389e-01
## 323	1.792012e-04	-9.682051e-04	1.454708e-03	-4.638288e-05	-1.266673e-04
## 324	-5.271378e-02	-2.130474e-02	1.316848e-02	-4.329273e-03	7.139907e-02
## 325	-2.444912e-02	9.016926e-02	1.216321e+00	2.574587e-01	-2.284797e-01
## 328	1.572636e-01	6.355940e-02	-3.928606e-02	1.291573e-02	-2.130083e-01
## 329	-1.054263e+00	-6.713809e-01	6.149029e-01	-1.013444e-01	1.455673e+00
## 330	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
## 332	7.738993e-02	-4.373195e-01	2.991900e+00	4.162354e-01	-4.845139e-01
## 334	3.674697e-01	-5.244510e+00	7.451978e+00	-3.285974e-01	1.452861e-01
## 335	-9.564003e-03	-3.210263e-02	4.190031e-02	-2.663746e-03	1.632083e-02
## 336	-2.374328e-01	-2.426594e+00	3.268972e+00	-1.764936e-01	6.006600e-01
## 338	-8.684806e-02	2.714293e-01	2.116321e+00	4.857612e-01	-3.855402e-01
## 340	1.737035e-04	-1.018416e-03	1.453001e-03	-5.918465e-05	-1.048481e-04
## 341	-2.371243e-01	9.382874e-01	-4.019428e+00	4.364684e-01	-2.711137e-01
## 342	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 344	-8.694681e-02	-3.814180e-02	2.592013e-02	-7.340405e-03	1.181244e-01

## 345	5.205992e-04	-3.046354e-03	4.426949e-03	-1.738827e-04	-3.168266e-04
## 346	2.093455e-04	-1.213305e-03	1.789549e-03	-6.432257e-05	-1.335607e-04
## 349	-7.886884e-02	-8.870211e-02	9.921365e-02	-1.025796e-02	1.136013e-01
## 351	-7.032102e-02	-2.828709e-02	9.948051e-03	-6.050616e-03	9.540315e-02
## 352	1.497127e-01	-8.763204e-01	1.273392e+00	-5.003309e-02	-9.107052e-02
## 353	4.609542e-04	-2.697306e-03	3.919699e-03	-1.539625e-04	-2.805277e-04
## 354	2.048544e-03	-9.868736e-04	2.027499e-03	4.750071e-05	-2.558281e-03
## 358	9.944342e-02	-5.919876e-01	7.321036e-01	-3.877178e-02	-5.636367e-02
## 359	-2.287325e-01	1.295472e+00	2.213793e+00	9.834292e-01	-7.682727e-01
## 361	-6.501252e-06	3.235992e-05	8.998256e-05	2.750401e-05	-2.075660e-05
## 362	-4.922845e-02	-3.271065e-01	4.421762e-01	-2.447555e-02	1.033045e-01
## 364	8.708035e-03	-5.250708e-02	7.622363e-02	-3.010900e-03	-5.115410e-03
## 367	1.104190e-04	-9.592732e-05	1.710675e-04	8.994518e-08	-1.331669e-04
## 368	1.954446e-01	-1.233013e+00	2.866383e+00	1.308819e-01	-3.078814e-01
## 370	1.568104e-05	-9.168043e-05	1.332308e-04	-5.232864e-06	-9.552037e-06
## 372	-1.037747e+00	-2.314558e+00	2.910954e+00	-2.113026e-01	1.631565e+00
## 373	1.822117e-04	-1.045355e-03	1.942225e-03	1.954277e-05	-1.914105e-04
## 375	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
## 377	-1.760570e-03	-1.476936e-02	2.011678e-02	-1.078467e-03	4.059536e-03
## 378	4.688654e-02	-5.073049e-01	-3.451003e+00	-1.907813e-01	9.560299e-02
## 379	1.189840e-04	-6.962401e-04	1.011734e-03	-3.974804e-05	-7.240516e-05
## 380	1.383306e-04	-8.093615e-04	1.176149e-03	-4.619985e-05	-8.419382e-05
## 381	3.559872e-02	1.429291e-02	-8.760521e-03	2.917357e-03	-4.820601e-02
## 382	-8.932742e-02	5.359789e-01	1.240342e+00	4.086614e-01	-3.204600e-01
## 383	9.019314e-02	-5.311816e-01	9.450444e-01	2.100255e-03	-8.653182e-02
## 386	8.873172e-02	-5.063055e-01	2.701527e+00	3.391596e-01	-4.189004e-01
## 388	-1.091986e-01	-1.081146e-01	-9.256546e+00	-3.716756e-01	3.719875e-01
## 389	-1.733867e-02	1.286377e-02	-1.134789e+00	-4.260032e-02	4.677801e-02
## 391	8.697408e-02	-5.939465e-01	-8.084456e-01	-9.836268e-02	-4.398063e-03
## 392	7.502039e-02	-2.067545e-02	5.261112e-02	2.768447e-03	-9.553176e-02
## 393	1.766420e-03	-2.559155e-01	-2.722405e+00	-1.347520e-01	9.935673e-02
## 395	1.814747e-02	-1.879561e-01	1.139444e+00	1.515319e-01	-1.622993e-01
## 396	-9.130977e-02	-3.582123e-03	-6.771827e+00	-2.633362e-01	2.755300e-01
## 397	1.485052e-01	-8.635787e-01	2.082571e+00	1.056671e-01	-2.440043e-01

## 398	2.382141e-02	9.531949e-03	-5.816730e-03	1.950082e-03	-3.225395e-02
## 402	1.792451e-04	-9.880638e-04	1.473110e-03	-4.946136e-05	-1.226188e-04
## 403	8.624221e-05	-2.609707e-03	3.687842e-03	-1.671478e-04	1.968389e-04
## 404	6.063631e-04	-3.547603e-03	5.155979e-03	-2.023787e-04	-3.692012e-04
## 405	7.612477e-02	1.454852e-02	3.675077e-03	5.172961e-03	-1.011746e-01
## 406	2.211010e-01	-1.294101e+00	1.880478e+00	-7.388521e-02	-1.345059e-01
## 407	2.705815e-04	-1.583413e-03	2.300904e-03	-9.039942e-05	-1.646434e-04
## 408	1.189840e-04	-6.962401e-04	1.011734e-03	-3.974804e-05	-7.240516e-05
## 410	1.464400e-04	-7.760086e-04	1.131892e-03	-4.354430e-05	-9.875430e-05
## 411	8.843794e-05	-5.175008e-04	7.519985e-04	-2.954430e-05	-5.381639e-05
## 412	-4.461637e-03	-7.557130e-03	9.165548e-03	-7.492030e-04	6.729217e-03
## 414	3.235424e-04	-1.893383e-03	2.751104e-03	-1.081061e-04	-1.968568e-04
## 415	3.611406e-01	-2.093326e+00	6.158446e+00	4.640191e-01	-7.982187e-01
## 416	-1.956605e-02	-1.245898e-02	1.125611e-02	-1.909647e-03	2.704420e-02
## 417	3.648168e-02	-2.397906e-01	1.361610e-02	-2.668851e-02	-1.136252e-02
## 418	-1.896905e+00	-1.404286e+00	1.366048e+00	-1.982090e-01	2.645326e+00
## 419	2.823733e-04	-1.652284e-03	2.401064e-03	-9.431588e-05	-1.718483e-04
## 420	2.509497e-05	3.913028e-06	4.232901e-06	1.980950e-06	-3.357774e-05
## 421	9.977201e-05	-5.838297e-04	8.483827e-04	-3.333119e-05	-6.071252e-05
## 422	4.202412e-04	-2.459003e-03	3.573326e-03	-1.403736e-04	-2.557448e-04
## 423	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
## 424	8.545335e-04	-2.367311e-01	-2.576037e+00	-1.268910e-01	9.425368e-02
## 425	-3.628188e-06	-5.780320e-06	1.768595e-05	1.427105e-06	3.441561e-06
## 426	5.167932e-05	-3.022844e-04	4.392748e-04	-1.725485e-05	-3.146388e-05
## 428	9.220662e-02	-5.382577e-01	7.822134e-01	-3.071834e-02	-5.626318e-02
## 429	1.110987e-01	-6.501025e-01	9.446820e-01	-3.711547e-02	-6.760502e-02
## 430	1.994739e-02	-1.161147e-01	2.639253e-01	1.120923e-02	-2.982309e-02
## 431	1.374994e-05	-8.022144e-05	1.165974e-04	-4.575387e-06	-8.397649e-06
## 434	6.054652e-06	2.443814e-06	-1.507972e-06	4.970473e-07	-8.200447e-06
## 435	-2.417468e-02	-1.041864e-01	1.219604e+00	1.942241e-01	-1.559697e-01
## 436	-3.485818e-01	1.479684e+00	-4.218366e+00	8.111775e-01	-5.536453e-01
## 437	9.516216e-02	-5.360124e-01	4.243895e+00	6.181667e-01	-7.008949e-01
## 438	-3.315589e-02	-3.010127e-02	3.165071e-02	-3.834122e-03	4.689999e-02
## 439	9.713177e-02	-5.778641e-01	4.643375e+00	6.792084e-01	-7.614019e-01

## 442	5.210077e-07	2.123094e-07	-1.264390e-07	4.405623e-08	-7.070320e-07
## 444	-7.589517e-01	-8.750039e+00	1.200067e+01	-6.240947e-01	2.034751e+00
## 447	1.641992e-01	-9.583070e-01	1.390809e+00	-5.475910e-02	-1.001744e-01
## 448	3.188981e-04	-1.867530e-03	2.729847e-03	-1.036069e-04	-1.968677e-04
## 450	-1.208549e-02	-1.553244e-02	1.791780e-02	-1.700934e-03	1.763905e-02
## 451	-9.900228e-01	-4.841528e-01	3.648865e-01	-8.689894e-02	1.350973e+00
## 452	-3.138203e-03	-1.669550e-03	1.345623e-03	-2.843735e-04	4.298381e-03
## 455	3.739850e-02	-2.285548e-01	1.977689e-01	-1.825799e-02	-1.850873e-02
## 456	-8.170006e-02	-3.830812e-02	2.780930e-02	-7.061619e-03	1.112905e-01
## 457	5.685545e-03	-7.938458e-02	5.338468e-01	7.385599e-02	-7.580368e-02
## 458	-3.700010e-01	3.328011e-01	-2.334391e+01	-8.326345e-01	9.300537e-01
## 460	2.488808e-02	-2.729542e-01	-1.207433e+00	-7.786433e-02	3.692000e-02
## 462	3.044283e-03	-1.395137e-02	6.084738e-01	1.093382e-01	-1.110419e-01
## 464	6.837404e-02	-5.318295e-01	1.724177e+00	1.478557e-01	-2.031278e-01
## 465	9.527131e-05	1.529182e-05	9.231918e-06	6.383522e-06	-1.263760e-04
## 466	2.123942e-04	-1.242811e-03	1.805977e-03	-7.095160e-05	-1.292505e-04
## 467	3.024840e-02	-1.763472e-01	2.502260e-01	-1.029370e-02	-1.834445e-02
## 468	9.323517e-05	-4.441967e-04	6.541125e-04	-2.380962e-05	-6.940917e-05
## 469	6.950019e-03	-2.858840e-02	1.882980e+00	3.431520e-01	-3.460521e-01
## 470	-3.623244e-02	-2.155749e-02	1.872564e-02	-3.435555e-03	4.989994e-02
## 473	-4.077999e-01	3.501015e-01	-2.598094e+01	-9.401178e-01	1.045121e+00
## 474	-1.074849e+00	-1.518300e+00	1.785097e+00	-1.603824e-01	1.585089e+00
## 475	3.874781e-04	-2.267506e-03	3.294978e-03	-1.294555e-04	-2.357694e-04
## 476	-2.049170e-02	1.229659e-01	2.865083e-01	9.412074e-02	-7.388338e-02
## 477	-1.326559e-01	-5.363515e-02	3.316841e-02	-1.089616e-02	1.796805e-01
## 478	5.099623e-11	-2.981896e-10	4.709167e-10	-9.968626e-12	-3.802501e-11
## 479	6.007585e-04	-2.128256e-03	6.888445e-03	5.883012e-04	-1.219020e-03
## 480	1.709308e-01	-1.000286e+00	1.453542e+00	-5.710826e-02	-1.040055e-01
## 481	-3.724161e-03	1.877383e-02	-1.426230e-03	1.241177e-02	-9.240706e-03
## 482	-9.049275e-02	-1.413317e-01	-8.246347e+00	-3.362237e-01	3.293949e-01
## 485	-8.453769e-03	-8.658139e-03	9.446808e-03	-1.042790e-03	1.207514e-02
## 487	-2.755921e-03	-5.189457e-04	-1.438910e-04	-1.867595e-04	3.661869e-03
## 488	3.626281e-04	-2.122092e-03	3.083667e-03	-1.211545e-04	-2.206472e-04
## 489	1.540334e-01	4.390341e-02	-1.280351e-02	1.142955e-02	-2.064449e-01

## 490	-1.975624e-03	-7.209424e-03	9.465827e-03	-5.883717e-04	3.439973e-03
## 491	-1.306811e-01	4.167693e-01	2.113319e+00	5.331147e-01	-3.852192e-01
## 493	5.600703e-02	2.263527e-02	-1.399051e-02	4.599710e-03	-7.585962e-02
## 495	1.751671e-01	-1.025597e+00	1.552368e+00	-4.693562e-02	-1.179991e-01
## 496	3.146713e-04	-1.841434e-03	2.675844e-03	-1.051297e-04	-1.914703e-04
## 497	1.261019e-04	-7.378862e-04	1.072253e-03	-4.212524e-05	-7.673746e-05
## 500	2.567198e-02	-1.546727e-01	7.259532e-01	8.501535e-02	-1.078108e-01
## 502	-1.613916e-03	-1.388880e-03	1.434490e-03	-1.814280e-04	2.273706e-03
## 503	-1.213748e+00	-2.968785e+00	3.770791e+00	-2.645486e-01	1.939480e+00
## 504	3.248248e-04	-1.900840e-03	2.762168e-03	-1.085215e-04	-1.976496e-04
## 506	1.078830e-01	4.360169e-02	-2.695011e-02	8.860194e-03	-1.461239e-01
## 507	-1.461601e-04	9.491557e-04	1.106679e-02	2.384507e-03	-2.222706e-03
## 508	7.841328e-05	-3.695540e-04	5.427629e-04	-2.008021e-05	-5.853560e-05
## 509	1.232810e-01	-7.169962e-01	1.042124e+00	-4.089310e-02	-7.554181e-02
## 510	2.946657e-04	-1.724356e-03	2.505710e-03	-9.844629e-05	-1.792973e-04
## 512	-4.404429e-09	2.642728e-08	6.115703e-08	2.014970e-08	-1.580079e-08
## 514	6.571414e-02	2.654484e-02	-1.639637e-02	5.396028e-03	-8.900595e-02
## 515	-1.942399e+00	-3.919837e+00	4.871451e+00	-3.680754e-01	3.004705e+00
## 516	1.093433e-02	-1.096964e-01	2.781935e+00	4.848072e-01	-4.865893e-01
## 517	2.023804e-01	-1.193417e+00	1.734018e+00	-6.815987e-02	-1.221174e-01
## 519	5.026113e-03	-2.941259e-02	4.276692e-02	-1.674220e-03	-3.063179e-03
## 520	-4.503376e-02	2.127974e-01	5.053357e-01	1.646992e-01	-1.176735e-01
## 521	3.591501e-02	-2.100703e-01	3.242805e-01	-8.431773e-03	-2.538173e-02
## 522	3.581145e-04	-2.095678e-03	3.045284e-03	-1.196465e-04	-2.179009e-04
## 523	6.231266e-02	2.506026e-02	-1.539296e-02	5.109363e-03	-8.438566e-02
## 524	-1.969239e-03	-3.469125e-02	3.191682e+00	5.862176e-01	-5.746022e-01
## 526	-5.016706e-02	-2.285078e-02	1.613590e-02	-4.291405e-03	6.825666e-02
## 527	2.537686e-05	-1.483286e-04	2.155622e-04	-8.464381e-06	-1.546429e-05
## 529	7.844401e-06	3.282256e-06	-1.718445e-06	7.261523e-07	-1.071186e-05
## 531	1.577737e-01	-9.215078e-01	1.727927e+00	2.019778e-02	-1.680985e-01
## 532	-1.475466e-01	8.604366e-01	2.025565e+00	7.123717e-01	-5.698004e-01
## 533	8.443564e-05	-4.941022e-04	7.179970e-04	-2.820853e-05	-5.137852e-05
## 535	1.060500e-01	4.267876e-02	-2.623087e-02	8.698762e-03	-1.436208e-01
## 536	1.151279e-04	-6.292651e-05	1.254310e-04	2.367990e-06	-1.430776e-04

## 537	4.471015e-05	-2.615269e-04	3.800483e-04	-1.492804e-05	-2.722041e-05
## 538	-3.050271e-04	-7.540387e-04	1.018819e-03	-5.576856e-05	4.772547e-04
## 541	-1.466963e-02	1.086539e-02	-9.603069e-01	-3.605253e-02	3.958464e-02
## 542	4.158644e-05	-7.942188e-05	1.253556e-04	-2.780549e-06	-4.505653e-05
## 544	4.299122e-05	-2.515081e-04	3.654824e-04	-1.435738e-05	-2.616875e-05
## 545	8.811219e-05	-5.155594e-04	7.491853e-04	-2.943205e-05	-5.362343e-05
## 546	2.406075e-01	-1.411984e+00	2.340922e+00	-2.647378e-02	-1.994327e-01
## 547	4.439133e-03	1.793391e-03	-1.107932e-03	3.645287e-04	-6.012572e-03
## 548	1.601258e-01	-9.542661e-01	3.059063e+00	2.586673e-01	-4.047916e-01
## 550	2.351099e-05	-1.360300e-04	1.977524e-04	-7.751590e-06	-1.449112e-05
## 551	-1.142807e-01	3.795357e-01	2.041617e+00	5.073941e-01	-3.783539e-01
## 552	-4.606900e-02	-1.007423e-01	-4.818933e+00	-1.983502e-01	1.863753e-01
## 553	1.020113e+00	-6.023334e+00	8.749763e+00	-3.443919e-01	-6.143065e-01
## 554	3.196681e-04	-1.870664e-03	2.718317e-03	-1.067988e-04	-1.945116e-04
## 555	2.680229e-02	-1.191636e-01	1.751170e-01	-6.450515e-03	-2.079994e-02
## 556	1.936173e-01	-1.325373e+00	1.915617e+00	-7.747296e-02	-9.488641e-02
## 557	-3.079347e-03	8.610522e-04	-2.176855e-03	-1.128115e-04	3.919796e-03
## 558	1.037094e+00	-6.191584e+00	8.990534e+00	-3.546481e-01	-6.164255e-01
## 560	2.876547e-04	-1.683327e-03	2.446091e-03	-9.610352e-05	-1.750318e-04
## 561	7.064908e-04	-4.920348e-04	9.084602e-04	6.175440e-06	-8.641300e-04
## 562	2.587749e-01	-2.817000e+00	4.030406e+00	-1.717724e-01	-3.458797e-03
## 563	-1.166549e-01	5.134706e-01	3.579106e+00	8.392801e-01	-7.103099e-01
## 564	1.550591e-01	-9.074130e-01	1.318572e+00	-5.180688e-02	-9.434650e-02
## 565	4.971758e-04	-2.909108e-03	4.228314e-03	-1.658975e-04	-3.027410e-04
## 566	-7.289705e-04	-5.954685e-03	8.099682e-03	-4.351488e-04	1.660852e-03
## 570	-2.912500e-01	-3.994307e-01	4.669366e-01	-4.266247e-02	4.280811e-01
## 571	1.677675e-02	-9.817736e-02	1.426639e-01	-5.605180e-03	-1.020804e-02
## 573	1.124259e-04	-2.248498e-04	3.547681e-04	-7.874590e-06	-1.209111e-04
## 574	2.409825e-04	-1.341673e-03	2.299423e-03	-1.114740e-05	-2.188023e-04
## 575	7.642562e-02	-1.346524e-02	4.296633e-02	3.325777e-03	-9.822715e-02
## 578	3.797093e-06	-2.118566e-05	3.087684e-05	-1.193102e-06	-2.440383e-06
## 582	9.814948e-03	-8.697222e-02	2.029758e-01	9.395513e-03	-1.690778e-02
## 583	9.623578e-02	-5.851745e-01	3.257561e+00	4.173323e-01	-5.012709e-01
## 584	1.867781e-01	-1.104550e+00	6.437191e+00	8.417107e-01	-1.005896e+00

## 585	-3.111590e-01	1.343898e+00	-3.386332e+00	7.611818e-01	-5.279860e-01
## 586	-4.074623e-01	-3.297239e-01	3.327277e-01	-4.444242e-02	5.715724e-01
## 587	4.542914e-02	-9.639916e-01	1.341513e+00	-6.244618e-02	5.609799e-02
## 588	-1.262126e-01	6.197462e-01	2.318928e+00	6.382759e-01	-5.055327e-01
## 589	-4.724526e-02	2.983802e-01	2.899604e+00	6.411246e-01	-5.899856e-01
## 590	6.855435e-01	-4.011856e+00	5.829998e+00	-2.289952e-01	-4.171719e-01
## 591	-9.518075e-02	2.654457e-01	1.744295e+00	4.141700e-01	-3.040892e-01
## 592	3.810321e-02	-2.539076e-01	-2.096183e-02	-2.963512e-02	-1.053120e-02
## 594	3.310937e-06	-2.348421e-07	1.373783e-06	1.672670e-07	-4.296987e-06
## 595	-5.929750e-04	2.947634e-04	-4.042703e-02	-1.536203e-03	1.659146e-03
## 597	9.171003e-02	-1.763972e-01	2.738289e-01	-6.744012e-03	-9.871958e-02
## 598	-9.312166e-02	5.587454e-01	1.293095e+00	4.260327e-01	-3.340847e-01
## 599	1.621210e-04	-9.480202e-04	1.377015e-03	-5.414033e-05	-9.871648e-05
## 601	-2.827411e-05	1.590840e-04	3.737849e-04	1.223575e-04	-9.396114e-05
## 602	5.173141e-04	-3.025927e-03	4.400591e-03	-1.720946e-04	-3.155741e-04
## 606	-3.391549e-03	-6.159463e-03	7.549380e-03	-5.968015e-04	5.164428e-03
## 608	-4.673925e-01	4.706842e-01	1.825227e+00	4.981872e-01	6.785626e-02
## 609	1.376628e-05	-8.038584e-05	1.168279e-04	-4.586301e-06	-8.398517e-06
## 610	-1.406620e-01	8.489679e-01	2.763657e+00	7.977302e-01	-6.572702e-01
## 612	2.515961e-02	-1.472848e-01	2.141693e-01	-8.381428e-03	-1.533018e-02
## 613	-1.839405e+00	3.444013e-01	-1.024519e+00	-7.740754e-02	2.361004e+00
## 614	-3.065214e-03	2.160658e-03	-2.018778e-01	-7.593061e-03	8.316036e-03
## 615	3.269403e-02	-1.930210e-01	2.583387e-01	-1.187925e-02	-1.918179e-02
## 616	-2.633835e+00	-4.188404e+00	5.028928e+00	-4.241422e-01	3.939939e+00
## 618	9.977820e-02	-5.838903e-01	8.484657e-01	-3.333557e-02	-6.071269e-02
## 620	5.469621e-11	-3.197911e-10	5.116108e-10	-9.438920e-12	-4.202500e-11
## 621	-1.002883e+00	-1.262653e+00	1.450095e+00	-1.394030e-01	1.460601e+00
## 622	2.207080e-01	-1.289424e+00	5.357499e+00	5.786856e-01	-7.787165e-01
## 623	1.448809e-05	5.853479e-06	-3.588177e-06	1.195041e-06	-1.962863e-05
## 624	-6.089499e-02	3.373682e-01	4.925262e+00	1.033265e+00	-9.622490e-01
## 625	1.042978e-01	-6.103584e-01	8.869263e-01	-3.484685e-02	-6.346042e-02
## 627	2.995599e-04	-1.752996e-03	2.547329e-03	-1.000813e-04	-1.822755e-04
## 628	-3.664596e+00	-1.912455e+00	1.519029e+00	-3.296659e-01	5.015013e+00
## 629	6.047742e-07	-7.540772e-07	1.258664e-06	-1.439295e-08	-7.024227e-07

## 631	-3.134210e-04	1.873297e-03	4.339375e-03	1.429113e-03	-1.119312e-03
## 632	1.358403e-03	-7.944617e-03	1.154477e-02	-4.535324e-04	-8.271043e-04
## 633	2.898255e-04	-1.696033e-03	2.464552e-03	-9.682932e-05	-1.763520e-04
## 634	5.042484e-01	-2.950952e+00	4.288396e+00	-1.684212e-01	-3.068613e-01
## 637	1.753350e-02	-1.970844e-03	-2.351404e-03	4.304601e-04	-2.242286e-02
## 639	-2.052377e+00	-3.183105e+00	3.805875e+00	-3.251416e-01	3.060524e+00
## 641	1.407763e-05	-8.225124e-05	1.195337e-04	-4.693683e-06	-8.582320e-06
## 642	1.101864e-01	-6.338438e-01	2.585903e+00	2.755294e-01	-3.760887e-01
## 644	-2.315068e-03	1.354678e-02	-1.968496e-02	7.734541e-04	1.408706e-03
## 645	4.287033e-05	3.482217e-06	8.780414e-06	2.622121e-06	-5.643769e-05
## 646	5.478201e-03	1.565140e-03	-4.608224e-04	4.067312e-04	-7.342658e-03
## 647	-4.490441e-02	2.126914e-01	-5.998229e-01	-4.226462e-02	8.655931e-02
## 649	-5.298745e+00	-3.672338e+00	3.465580e+00	-5.370168e-01	7.359508e+00
## 650	1.717547e-04	-1.005061e-03	1.460489e-03	-5.737922e-05	-1.045137e-04
## 651	-1.023521e-03	2.602480e-02	3.056333e+00	5.808175e-01	-5.737037e-01
## 653	1.160268e-05	-6.757242e-05	9.822543e-05	-3.851660e-06	-7.101813e-06
## 654	-4.187984e-02	-2.073015e-01	2.768517e-01	-1.610170e-02	7.942208e-02
## 656	-4.556546e+00	-6.567795e+00	7.751169e+00	-6.886537e-01	6.735251e+00
## 657	-3.012442e-02	2.031356e-01	1.062188e+00	2.657319e-01	-2.355942e-01
## 658	3.959893e-05	-2.316692e-04	3.366518e-04	-1.322516e-05	-2.410284e-05
## 659	1.165379e-05	-6.722849e-05	9.777485e-05	-3.823236e-06	-7.212277e-06
## 660	-2.243721e-02	-2.255787e-01	-4.168640e+00	-1.874613e-01	1.595961e-01
## 661	9.764385e-05	-5.713641e-04	8.302710e-04	-3.261905e-05	-5.941933e-05
## 662	-5.126282e-04	2.247793e-04	-3.528406e-02	-1.344461e-03	1.446620e-03
## 663	-1.050146e-02	3.382596e-02	-2.143907e-01	2.508496e-02	-1.876428e-02
## 664	-7.295756e-02	4.760463e-01	2.655744e+00	6.539277e-01	-5.799567e-01
## 665	3.204594e-02	-1.887153e-01	2.587918e-01	-1.137303e-02	-1.900296e-02
## 666	-6.919092e-02	4.061137e-01	3.123898e+00	7.185959e-01	-6.447911e-01
## 668	4.719441e-04	-2.717288e-03	4.332275e-03	-8.331910e-05	-3.629787e-04
## 669	3.319503e-02	-1.931001e-01	4.588394e-01	2.234833e-02	-5.328282e-02
## 672	-3.637151e+00	-1.979524e+00	1.621546e+00	-3.326100e-01	4.987157e+00
## 673	-6.649159e-02	2.609268e-01	2.844611e+00	6.185964e-01	-5.416412e-01
## 678	3.485132e-02	-2.039497e-01	2.963635e-01	-1.164398e-02	-2.120574e-02
## 679	5.349247e-02	-2.969352e-01	2.873703e+00	4.403148e-01	-4.858968e-01

## 681	2.035535e-04	-1.191108e-03	1.730841e-03	-6.800069e-05	-1.238667e-04
## 683	-4.159212e-03	-1.899021e-03	1.344247e-03	-3.560650e-04	5.659486e-03
## 684	-2.218114e-01	1.635302e-01	1.685286e+00	3.701307e-01	-9.663488e-02
## 685	-6.642773e-02	3.468147e-01	1.726278e+00	4.374160e-01	-3.673932e-01
## 687	-2.599568e-02	8.264905e-02	2.222582e+00	4.434054e-01	-4.097745e-01
## 688	7.831704e-05	-4.582711e-04	6.659306e-04	-2.616273e-05	-4.765844e-05
## 689	1.776339e-04	-1.039413e-03	1.510428e-03	-5.933669e-05	-1.081004e-04
## 690	-7.795623e-03	4.677613e-02	1.084168e-01	3.569652e-02	-2.799882e-02
## 691	5.844385e-04	-3.420018e-03	4.969921e-03	-1.952177e-04	-3.556604e-04
## 693	9.573056e-01	-5.832992e+00	8.775076e+00	-2.768795e-01	-6.125518e-01
## 695	3.425142e-02	-1.753818e-01	2.517322e-01	-9.947418e-03	-2.372540e-02
## 696	1.066466e-04	-6.231491e-04	9.059472e-04	-3.549638e-05	-6.507416e-05
## 697	-5.756457e-05	-8.176112e-04	1.128492e-03	-5.707531e-05	1.721944e-04
## 698	-2.801168e-01	5.836320e-01	-1.266804e+01	-1.866404e-01	3.074769e-01
## 699	-1.461240e-03	8.767475e-03	2.029735e-02	6.686832e-03	-5.244028e-03
## 700	5.597587e-05	-3.273769e-04	4.757564e-04	-1.868389e-05	-3.408728e-05
## 701	1.242223e-01	-6.519327e-01	9.474510e-01	-3.660127e-02	-8.450573e-02
## 702	-2.186265e-01	3.660165e-01	1.706747e+00	4.406560e-01	-1.811103e-01
## 704	-2.506276e-02	-3.373167e-03	-1.885818e+00	-7.360306e-02	7.661504e-02
## 705	3.758774e-02	-2.715293e-01	-2.552774e-01	-4.073324e-02	-1.780083e-03
## 706	9.838698e-01	-5.759752e+00	8.369528e+00	-3.288564e-01	-5.983938e-01
## 707	2.621434e-01	-1.534044e+00	2.231658e+00	-8.711381e-02	-1.599691e-01
## 711	1.162719e-01	-6.378225e-01	9.291334e-01	-3.601266e-02	-7.582696e-02
## 712	-1.068963e-02	-1.826136e-02	2.217704e-02	-1.805325e-03	1.614101e-02
## 713	3.045202e-02	-1.781759e-01	2.560242e-01	-1.028268e-02	-1.846570e-02
## 714	3.402371e-07	-2.049206e-07	3.974480e-07	5.782364e-09	-4.206216e-07
## 715	-1.246282e-01	-3.980858e-01	5.176783e-01	-3.336450e-02	2.102626e-01
## 716	3.292599e-02	-1.904401e-01	6.188258e-01	5.317886e-02	-8.353543e-02
## 718	-1.950502e-03	-1.474418e-03	1.447818e-03	-2.057304e-04	2.723597e-03
## 719	-2.591755e-02	-1.510271e-01	2.031671e-01	-1.147323e-02	5.185795e-02
## 720	2.006137e-02	-2.356726e-01	3.363146e-01	-1.452785e-02	1.853586e-03
## 721	6.536261e-03	-3.678342e-02	5.353000e-02	-2.086209e-03	-4.151972e-03
## 722	-1.750544e-01	2.884941e-01	-9.039615e+00	-2.131136e-01	2.778382e-01
## 723	2.898255e-04	-1.696033e-03	2.464552e-03	-9.682932e-05	-1.763520e-04

## 724	3.315542e-01	-1.938141e+00	3.148225e+00	-4.851645e-02	-2.633343e-01
## 725	-1.627762e-01	2.133871e-01	2.349284e+00	5.106071e-01	-3.119285e-01
## 726	-9.678071e-05	5.807014e-04	1.344069e-03	4.428039e-04	-3.472427e-04
## 727	4.146334e-04	-2.447587e-03	4.575609e-03	5.106449e-05	-4.383930e-04
## 729	-1.202503e-03	7.560140e-04	-8.021898e-02	-3.028850e-03	3.299897e-03
## 730	1.414765e-04	-8.087904e-04	2.840985e-03	2.656975e-04	-3.961791e-04
## 732	-1.981423e-02	-1.066628e-02	8.669519e-03	-1.804075e-03	2.715461e-02
## 733	-1.890170e-01	-1.149791e+01	1.602901e+01	-7.752182e-01	1.617760e+00
## 738	-4.083127e-02	1.076700e-01	1.069314e+00	2.357460e-01	-1.874682e-01
## 739	6.190911e-02	2.502093e-02	-1.546531e-02	5.084455e-03	-8.385382e-02
## 740	-9.886944e-02	4.586445e-01	2.837647e+00	6.823703e-01	-5.746793e-01
## 742	-6.073127e-02	2.797070e-01	2.286092e+00	5.201672e-01	-4.526524e-01
## 743	2.602046e-04	-1.522668e-03	2.212634e-03	-8.693125e-05	-1.583316e-04
## 744	-1.138752e-01	-5.912304e-02	4.677643e-02	-1.022371e-02	1.558021e-01
## 747	3.672316e-02	-2.382660e-01	3.871264e+00	6.464353e-01	-6.716035e-01
## 748	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
## 749	1.001288e-02	3.033638e-03	-1.083889e-03	7.549274e-04	-1.344130e-02
## 750	7.022430e-02	-4.109565e-01	5.971695e-01	-2.346256e-02	-4.272836e-02
## 751	-9.409759e-02	3.532522e-01	2.586486e+00	6.007021e-01	-4.943575e-01
## 752	-1.376865e-03	8.851742e-04	-9.163297e-02	-3.457360e-03	3.770392e-03
## 753	7.130712e-04	-4.171651e-03	6.078167e-03	-2.351295e-04	-4.370157e-04
## 754	5.389693e-04	-3.153891e-03	4.583167e-03	-1.800309e-04	-3.279918e-04
## 755	1.696464e+00	-9.927687e+00	1.442616e+01	-5.667951e-01	-1.032237e+00
## 757	8.222206e-02	-1.902265e-02	5.257197e-02	3.276220e-03	-1.051362e-01
## 758	3.544273e-02	-2.379637e-01	-4.018515e-02	-2.857136e-02	-9.047561e-03
## 759	-1.131743e-05	2.081788e-06	2.261571e-05	4.962218e-06	9.154345e-06
## 761	7.165324e-05	-4.192904e-04	6.092872e-04	-2.393714e-05	-4.360213e-05
## 762	-2.840734e-02	-3.779046e-02	4.390846e-02	-4.083360e-03	4.161393e-02
## 763	2.803091e-04	-1.640345e-03	2.383630e-03	-9.365014e-05	-1.705613e-04
## 764	2.441567e-03	-5.732493e-02	1.843285e-01	1.567204e-02	-1.546409e-02
## 765	1.428275e-02	-2.702953e-01	-1.959440e+00	-1.067607e-01	6.765861e-02
## 769	5.624503e-02	2.211412e-02	-1.318623e-02	4.578191e-03	-7.610837e-02
## 770	-4.487859e-07	-1.823628e-06	-5.340454e-05	-2.280546e-06	2.092577e-06
## 772	1.233472e-01	1.525692e-02	1.759108e-02	7.828591e-03	-1.629445e-01

## 773	3.376026e-05	1.108885e-05	-4.292977e-06	2.708397e-06	-4.552686e-05
## 774	-1.463445e-01	8.780907e-01	2.032045e+00	6.695074e-01	-5.250077e-01
## 775	-1.553479e+00	-3.848144e+00	4.893956e+00	-3.418143e-01	2.488113e+00
## 777	4.388246e-05	-2.567200e-04	3.730566e-04	-1.465482e-05	-2.671156e-05
## 778	-4.177255e-04	-1.264908e-03	-4.490769e-02	-1.887205e-03	1.771342e-03
## 779	-1.265859e+00	-7.880985e-01	7.030926e-01	-1.223564e-01	1.747532e+00
## 780	1.553299e-01	2.094236e-02	1.973243e-02	9.973533e-03	-2.054006e-01
## 781	1.098612e-04	-6.428452e-04	9.341462e-04	-3.669928e-05	-6.685554e-05
## 782	2.710135e-04	-1.585949e-03	2.304585e-03	-9.054469e-05	-1.649049e-04
## 783	-2.879325e-01	-1.163736e-01	7.193311e-02	-2.364751e-02	3.899955e-01
## 784	5.992743e-05	-3.506360e-04	5.095261e-04	-2.001711e-05	-3.647163e-05
## 785	1.405852e-02	-1.154818e-01	1.022863e+00	1.535281e-01	-1.630326e-01
## 788	-4.559183e-02	2.735694e-01	6.350001e-01	2.089439e-01	-1.639229e-01
## 789	2.946657e-04	-1.724356e-03	2.505710e-03	-9.844629e-05	-1.792973e-04
## 790	4.950474e-11	-2.887992e-10	5.606502e-10	9.955078e-12	-5.633977e-11
## 791	1.831072e-01	-1.066999e+00	1.550088e+00	-6.089908e-02	-1.119409e-01
## 792	2.373428e-04	-1.388917e-03	2.018277e-03	-7.929515e-05	-1.444170e-04
## 793	4.515999e-02	-2.480541e-01	2.825897e+00	4.474540e-01	-4.851343e-01
## 794	4.117059e-06	-2.035462e-05	2.999264e-05	-1.086888e-06	-2.990277e-06
## 795	2.374526e-01	-1.390198e+00	2.151952e+00	-5.468721e-02	-1.687876e-01
## 796	-4.263199e-04	2.558140e-03	5.942528e-03	1.954702e-03	-1.533710e-03
## 797	3.021625e-08	-1.767839e-07	2.631830e-07	-8.914555e-09	-1.955383e-08
## 798	4.683008e-01	-2.749496e+00	3.994980e+00	-1.570404e-01	-2.838899e-01
## 799	1.000296e-01	-5.853720e-01	8.506183e-01	-3.342025e-02	-6.086444e-02
## 800	2.384180e-05	-1.393684e-04	2.025378e-04	-7.953551e-06	-1.452703e-05
## 803	-9.768731e-01	-7.863937e-01	7.919309e-01	-1.062804e-01	1.369835e+00
## 804	1.382695e-04	-8.090796e-04	1.175711e-03	-4.618901e-05	-8.414311e-05
## 806	-1.770421e-02	-1.258608e-02	1.202212e-02	-1.815178e-03	2.462720e-02
## 807	7.200877e-05	-4.213309e-04	6.122563e-04	-2.405291e-05	-4.382356e-05
## 810	-2.498934e-04	1.494794e-03	3.464334e-03	1.140683e-03	-8.937246e-04
## 811	1.064445e-05	-6.229119e-05	9.051717e-05	-3.556289e-06	-6.476825e-06
## 814	6.832593e-05	-3.554657e-05	2.318150e-04	3.146291e-05	-1.146934e-04
## 815	-1.657245e-01	9.974549e-01	2.999856e+00	8.931474e-01	-7.283070e-01
## 816	1.657535e-02	-9.620311e-02	1.398380e-01	-5.484954e-03	-1.018038e-02

## 817	1.378239e-04	-5.478676e-04	8.144632e-04	-2.801545e-05	-1.155179e-04
## 819	8.000047e-05	-4.658234e-04	6.782133e-04	-2.635044e-05	-4.917591e-05
## 820	1.783415e-02	-9.851642e-02	1.077653e+00	1.693455e-01	-1.842875e-01
## 822	-1.619912e-03	-1.113426e-03	1.046976e-03	-1.634722e-04	2.248731e-03
## 823	2.881072e-11	-1.675323e-10	4.063588e-10	2.093862e-11	-4.777162e-11
## 825	-3.956389e-03	1.088745e-02	-1.390156e-01	9.028287e-04	1.179255e-03
## 826	1.007346e-02	-4.816861e-02	7.057653e-02	-2.648295e-03	-7.414919e-03
## 827	-3.725550e-04	1.204533e-04	-2.612099e-02	-1.000528e-03	1.068882e-03
## 830	-1.862731e-01	1.139804e+00	6.101624e+00	1.517621e+00	-1.326602e+00
## 831	8.681258e-12	-4.954084e-11	2.644813e-10	3.321281e-11	-4.101375e-11
## 832	9.228741e-02	-5.400733e-01	7.847811e-01	-3.083461e-02	-5.615226e-02
## 833	9.945373e-02	3.761481e-02	-2.123433e-02	7.996258e-03	-1.343991e-01
## 834	5.260638e-07	3.967580e-06	8.990300e-06	2.984696e-06	-3.818471e-06
## 835	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 837	4.855164e-03	-4.294412e-03	7.541334e-03	-1.752081e-05	-5.830095e-03
## 842	8.451896e-02	-4.798155e-01	2.900788e+00	3.851876e-01	-4.605008e-01
## 843	9.191710e-01	-5.382450e+00	7.777670e+00	-3.089935e-01	-5.578636e-01
## 844	4.372453e-05	-2.557204e-04	3.716180e-04	-1.459520e-05	-2.662626e-05
## 845	1.818173e-04	-1.063935e-03	1.546038e-03	-6.074107e-05	-1.106370e-04
## 846	-3.114233e-02	2.014182e-01	2.626623e+00	5.580969e-01	-5.229560e-01
## 847	3.532788e-01	-2.069060e+00	3.006512e+00	-1.181432e-01	-2.147575e-01
## 848	1.043833e-05	-6.072403e-05	8.827680e-05	-3.460144e-06	-6.397674e-06
## 849	-3.840632e-04	-1.015257e-01	2.624181e-01	1.578386e-02	-9.671138e-03
## 851	3.476934e-03	-2.034698e-02	2.956668e-02	-1.161658e-03	-2.115588e-03
## 852	-2.036979e-01	1.171140e+00	2.407876e+00	9.338292e-01	-7.395381e-01
## 855	3.549666e-07	-2.062116e-07	4.041856e-07	6.562774e-09	-4.397603e-07
## 858	-2.420943e-01	-9.784444e-02	6.047765e-02	-1.988270e-02	3.279087e-01
## 859	-1.041438e-05	4.722712e-05	1.175578e-04	3.756637e-05	-2.659160e-05
## 860	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 862	8.529737e-01	-5.007566e+00	7.275756e+00	-2.860442e-01	-5.170991e-01
## 863	5.965076e-06	2.438254e-06	3.557484e-07	8.445279e-07	-8.431183e-06
## 864	7.785429e-05	3.083762e-05	-1.851835e-05	6.361974e-06	-1.053858e-04
## 866	-1.388597e-01	8.384704e-01	2.766555e+00	7.945571e-01	-6.558049e-01
## 867	1.063609e-01	4.221574e-02	-2.549141e-02	8.683908e-03	-1.439704e-01

## 868	4.434665e-04	-2.595155e-03	3.771097e-03	-1.481610e-04	-2.698365e-04
## 869	1.232916e-04	-5.229849e-04	7.843639e-04	-2.542071e-05	-1.012222e-04
## 872	1.026921e-06	-3.061637e-06	4.653808e-06	-1.383856e-07	-9.848384e-07
## 873	2.937951e-04	-1.719264e-03	2.498311e-03	-9.815570e-05	-1.787672e-04
## 876	-1.935414e-01	1.119349e+00	2.415851e+00	9.017972e-01	-7.162227e-01
## 877	1.226584e-01	-7.177313e-01	1.052365e+00	-3.921456e-02	-7.638080e-02
## 878	6.172142e-02	2.359176e-02	-1.900395e+00	-6.717424e-02	-3.986977e-02
## 879	2.738836e-01	-1.647012e+00	6.462009e+00	6.678150e-01	-9.141531e-01
## 880	-8.682791e-04	1.962891e-02	2.181783e+00	4.149664e-01	-4.097679e-01
## 881	1.094711e-04	1.603728e-05	1.228468e-05	7.145072e-06	-1.449423e-04
## 886	2.028230e-01	-1.936032e+00	2.770510e+00	-1.176507e-01	-3.407649e-02
## 887	-7.011095e-02	3.198386e-01	2.414029e+00	5.573419e-01	-4.797725e-01
## 888	4.663768e-08	-2.729157e-07	3.977246e-07	-1.536715e-08	-2.858975e-08
## 890	2.850398e-04	-1.668028e-03	2.423858e-03	-9.523057e-05	-1.734399e-04
## 892	-3.798094e+00	-6.225998e+00	7.512377e+00	-6.240147e-01	5.703746e+00
## 893	1.955009e-10	-1.202798e-09	1.014481e-09	-9.609922e-11	-9.622957e-11
## 895	2.349578e-02	-1.335106e-01	1.938491e-01	-7.599092e-03	-1.476306e-02
## 897	1.673105e-01	-9.790990e-01	1.422753e+00	-5.589897e-02	-1.018025e-01
## 898	6.332502e-02	-2.643031e-02	5.697121e-02	1.739531e-03	-7.956818e-02
## 899	2.767593e-02	-1.157015e-01	1.706240e-01	-6.169037e-03	-2.235572e-02
## 902	5.492132e-07	-2.847484e-06	4.159355e-06	-1.587663e-07	-3.782190e-07
## 903	1.768047e-02	-1.021806e-01	1.485408e-01	-5.821963e-03	-1.091097e-02
## 904	5.194245e-02	-3.045810e-01	4.533072e-01	-1.538291e-02	-3.351896e-02
## 905	1.354436e-02	-1.173396e-01	4.250511e+00	7.572605e-01	-7.585109e-01
## 906	-1.307279e-01	4.750371e-01	1.808516e+00	4.951855e-01	-3.508230e-01
## 907	3.317416e-02	-2.657135e-01	-6.336851e-01	-5.469686e-02	1.181037e-02
## 909	1.585395e-04	1.341870e-05	3.134849e-05	9.664477e-06	-2.087101e-04
## 911	1.788338e-06	-7.907653e-06	1.169057e-05	-4.157538e-07	-1.404551e-06
## 912	-2.647027e-02	1.588259e-01	3.675498e-01	1.210983e-01	-9.496166e-02
## 913	4.065513e-04	-2.379131e-03	3.457177e-03	-1.358294e-04	-2.473729e-04
## 914	8.136157e-05	-4.760670e-04	6.917945e-04	-2.717794e-05	-4.951400e-05
## 915	2.510778e-02	-1.330047e-01	2.303823e+00	3.875742e-01	-4.070593e-01
## 917	1.234562e-04	-2.470304e-04	3.883792e-04	-8.910532e-06	-1.325074e-04
## 919	3.799273e-04	-8.736548e-04	1.342868e-03	-3.703935e-05	-3.922101e-04

## 921	6.903927e-05	-4.039361e-04	5.869829e-04	-2.305918e-05	-4.201924e-05
## 922	1.208112e-01	4.772610e-02	-2.865183e-02	9.848325e-03	-1.635032e-01
## 923	-2.072811e-02	1.540188e-02	-1.356362e+00	-5.091522e-02	5.591281e-02
## 924	3.100365e-04	-1.814314e-03	2.636430e-03	-1.035824e-04	-1.886488e-04
## 925	1.615293e-02	-9.436817e-02	1.613226e-01	-8.577566e-04	-1.431950e-02
## 927	4.187991e-04	-2.450717e-03	3.561256e-03	-1.399058e-04	-2.548453e-04
## 928	9.035329e-02	-6.162728e-01	-2.070419e-01	-7.799375e-02	-1.918807e-02
## 929	-1.545077e-01	9.064505e-01	2.107009e+00	6.928917e-01	-5.394014e-01
## 932	1.557481e-02	-9.247621e-02	1.361051e-01	-4.955692e-03	-9.650193e-03
## 933	2.572851e-04	-1.505833e-03	2.185598e-03	-8.607105e-05	-1.564655e-04
## 935	7.259074e-04	-5.321543e-04	9.740873e-04	4.759091e-06	-8.848433e-04
## 936	-2.408213e-06	4.451587e-06	2.921292e-05	6.942106e-06	-4.079717e-06
## 937	2.995599e-04	-1.752996e-03	2.547329e-03	-1.000813e-04	-1.822755e-04
## 939	4.231315e-02	-2.530232e-01	2.990126e-01	-1.711123e-02	-2.352251e-02
## 940	2.431842e-07	-1.912498e-07	3.460944e-07	1.033481e-09	-2.951803e-07
## 941	6.550349e-04	-3.821882e-03	5.655143e-03	-1.992079e-04	-4.185715e-04
## 942	-2.055280e-01	2.515899e-01	-1.196004e+01	-3.732053e-01	4.367910e-01
## 946	2.200338e-04	-1.263110e-03	5.575751e-03	6.281982e-04	-8.281780e-04
## 947	-4.824750e-01	1.224674e+00	-1.837865e+01	-1.892218e-03	2.413239e-01
## 949	1.559860e-01	-9.081254e-01	2.032937e+00	8.171057e-02	-2.273247e-01
## 950	3.913209e-04	-2.290002e-03	3.327662e-03	-1.307409e-04	-2.381057e-04
## 952	3.116983e-02	-1.823574e-01	2.608446e-01	-1.056930e-02	-1.887572e-02
## 957	5.903608e-04	-3.454565e-03	5.020249e-03	-1.971662e-04	-3.592995e-04
## 958	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 960	-3.962952e-01	2.973710e-01	-2.589172e+01	-9.702818e-01	1.066238e+00
## 961	1.297253e-01	-6.433535e-01	9.393767e-01	-3.566506e-02	-9.274340e-02
## 962	6.387865e-02	-3.737669e-01	5.507800e-01	-1.990683e-02	-4.028796e-02
## 963	1.675776e+00	-1.152938e+01	1.663104e+01	-6.740478e-01	-8.152603e-01
## 964	5.832980e-01	-3.413998e+00	4.960937e+00	-1.949177e-01	-3.548514e-01
## 965	1.399599e-04	-5.041233e-04	7.588284e-04	-2.407016e-05	-1.244299e-04
## 966	1.291081e-11	-7.446892e-11	2.737412e-10	2.674111e-11	-3.858217e-11
## 967	-1.219470e-05	7.487797e-05	4.273743e-04	1.046665e-04	-9.210892e-05
## 968	1.004764e-05	-5.872831e-05	8.534603e-05	-3.351766e-06	-6.122512e-06
## 969	-2.985699e+00	-1.708641e+00	1.448182e+00	-2.786023e-01	4.103881e+00

## 971	3.626713e-02	-2.274627e-01	6.389701e-01	4.477534e-02	-7.743647e-02
## 975	-2.353299e+00	-1.107726e+01	1.476251e+01	-8.657985e-01	4.393773e+00
## 977	-1.567230e-02	9.938024e-02	1.057524e+00	2.307177e-01	-2.135507e-01
## 978	-2.043242e-01	2.203740e-01	2.276989e+00	4.995268e-01	-2.493537e-01
## 979	1.109155e-01	-6.545634e-01	1.297764e+00	2.753049e-02	-1.309785e-01
## 981	-3.542685e-02	2.147156e-01	8.469534e-01	2.292570e-01	-1.935560e-01
## 982	-8.750537e-01	5.098306e+00	-7.997683e+00	1.673295e-01	6.584401e-01
## 983	-7.768731e-02	4.884650e-01	4.434087e+00	9.910003e-01	-9.075804e-01
## 984	1.206246e+00	-7.410303e+00	6.344921e+00	-5.948122e-01	-5.903559e-01
## 985	6.480177e-02	2.555379e-02	-1.529775e-02	5.279700e-03	-8.769597e-02
## 988	1.963992e-04	-1.149303e-03	1.670084e-03	-6.561549e-05	-1.195053e-04
## 989	2.521619e-02	-1.774033e-01	2.566439e-01	-1.032306e-02	-1.187100e-02
## 990	2.267581e-04	-1.326952e-03	1.928235e-03	-7.575721e-05	-1.379794e-04
## 991	6.141887e-07	-1.451109e-06	2.224250e-06	-6.261782e-08	-6.292635e-07
## 992	9.307770e-02	-2.249014e-02	6.085053e-02	3.645172e-03	-1.189032e-01
## 993	-7.196278e-02	3.997029e-02	7.823455e-01	1.598946e-01	-6.996785e-02
## 994	4.544301e-02	-2.661141e-01	3.868256e-01	-1.516883e-02	-2.765435e-02
## 995	-1.615429e-04	9.876849e-04	3.858323e-03	1.047519e-03	-8.851602e-04
## 996	-5.296429e+00	-3.686352e+00	3.485914e+00	-5.378224e-01	7.358155e+00
## 997	3.665375e-02	-2.910189e-01	-6.972934e-01	-6.001676e-02	1.259444e-02
## 999	1.848862e-01	-1.080156e+00	1.841399e+00	-1.077877e-02	-1.629507e-01
## 1000	9.231017e-02	-5.280109e-01	2.601519e+00	3.132900e-01	-3.966697e-01
## 1001	-5.323674e-05	-2.039083e-04	-6.196678e-03	-2.637449e-04	2.431522e-04
## 1002	1.129052e-01	-5.382511e-01	7.887843e-01	-2.956798e-02	-8.330820e-02
## 1004	2.570720e-04	-1.504359e-03	2.186027e-03	-8.588631e-05	-1.564227e-04
## 1006	2.322210e-07	-5.898319e-07	9.002849e-07	-2.609731e-08	-2.333245e-07
## 1007	3.441918e-04	-2.014197e-03	2.926885e-03	-1.149942e-04	-2.094302e-04
## 1008	-1.517143e-02	-1.976500e-02	2.286739e-02	-2.152687e-03	2.217453e-02
## 1009	-1.095917e-02	-1.500232e-03	-8.260923e-01	-3.224415e-02	3.353954e-02
## 1010	-2.745266e-04	-4.721924e-04	5.999983e-04	-4.171387e-05	4.101067e-04
## 1011	9.940275e-02	-5.817110e-01	8.468202e-01	-3.292630e-02	-6.076360e-02
## 1012	7.767798e-02	-4.275203e-01	6.227017e-01	-2.415235e-02	-5.049027e-02
## 1013	-1.257946e-01	7.514799e-01	2.223999e+00	6.768330e-01	-5.524722e-01
## 1014	4.462923e-02	1.561477e-02	-7.759320e-03	3.504132e-03	-6.015995e-02

##	1016	2.848062e-05	-1.192476e-04	1.809395e-04	-5.405608e-06	-2.392705e-05
##	1017	2.152034e-02	5.727166e-01	1.202495e+00	4.132148e-01	-4.656743e-01
##	1018	-1.272707e-03	-2.315559e-03	2.839714e-03	-2.240613e-04	1.938323e-03
##	1020	4.273082e-04	-2.499870e-03	3.633752e-03	-1.425122e-04	-2.602908e-04
##	1023	-9.810214e-02	-5.546838e-02	4.664231e-02	-9.109248e-03	1.347623e-01
##	1024	9.624919e-06	3.632450e-06	-2.028774e-06	7.762012e-07	-1.300875e-05
##	1025	4.138619e-03	-1.083950e-01	-9.028114e-01	-4.735776e-02	3.189966e-02
##	1032	-4.468901e-01	2.544135e-01	1.508768e+00	3.678067e-01	1.825304e-01
##	1033	1.063563e-01	-6.008166e-01	8.742253e-01	-3.409832e-02	-6.728715e-02
##	1034	-1.223713e-05	2.526051e-06	2.392380e-05	5.356648e-06	9.892246e-06
##	1035	-2.181774e-03	-1.611729e-03	-1.788125e-01	-7.125701e-03	7.207546e-03
##	1039	-2.486966e-07	1.422953e-06	-5.796452e-07	3.598877e-07	-1.202951e-07
##	1041	4.549979e-04	-2.662558e-03	3.869088e-03	-1.520005e-04	-2.768701e-04
##	1044	-5.901400e-02	-1.989517e-02	5.153709e-01	9.018991e-02	-1.413354e-02
##	1045	8.794365e-07	-1.851902e-07	5.565996e-07	3.997725e-08	-1.130375e-06
##	1046	-3.468972e+00	-7.311391e+00	9.135024e+00	-6.780307e-01	5.403231e+00
##	1049	9.668343e-02	-5.922977e-01	-4.669463e-01	-8.459722e-02	-2.524289e-02
##	1050	-1.758905e-07	1.226810e-07	-1.159883e-05	-4.364216e-07	4.777289e-07
##	1051	2.269835e-02	-1.335832e-01	1.953413e-01	-7.396105e-03	-1.395599e-02
##	1055	-3.120815e-02	3.079079e-01	7.133688e-01	2.348426e-01	-2.093421e-01
##	1056	-1.017188e+00	-9.258493e-01	9.743373e-01	-1.177838e-01	1.439125e+00
##	1057	-5.905146e-02	3.382933e-01	2.771350e+00	6.302661e-01	-5.666209e-01
##	1058	2.538113e-05	-6.423304e-08	8.192480e-06	1.414650e-06	-3.316375e-05
##	1059	-9.853409e-01	-7.579175e-01	7.494202e-01	-1.048525e-01	1.377500e+00
##	1061	-1.446270e-02	-7.934178e-03	6.536175e-03	-1.326695e-03	1.983827e-02
##	1062	1.308181e+00	-7.655541e+00	1.112920e+01	-4.361843e-01	-7.968500e-01
##	1063	6.210431e-02	-3.481980e-01	2.812662e+00	4.120117e-01	-4.659809e-01
##	1064	-5.249485e-09	-2.368712e-09	-4.133505e-07	-1.631536e-08	1.672025e-08
##	1065	1.802070e-02	-9.834373e-02	1.228057e+00	1.975631e-01	-2.123968e-01
##	1066	3.235424e-04	-1.893383e-03	2.751104e-03	-1.081061e-04	-1.968568e-04
##	1067	8.044889e-05	-4.190692e-04	6.242386e-04	-2.109902e-05	-5.742649e-05
##	1070	4.372453e-05	-2.557204e-04	3.716180e-04	-1.459520e-05	-2.662626e-05
##	1074	-1.230925e-02	-2.655751e-02	3.327634e-02	-2.446227e-03	1.924543e-02
##	1075	1.083096e-02	4.377424e-03	-2.705685e-03	8.895242e-04	-1.467018e-02

##	1080	-2.595347e-01	1.557251e+00	3.603837e+00	1.187358e+00	-9.310949e-01
##	1081	8.694258e-02	-5.073940e-01	1.194841e+00	5.669893e-02	-1.376560e-01
##	1082	-2.815139e-03	1.977659e-03	-1.854826e-01	-6.977254e-03	7.640322e-03
##	1086	-4.819034e+00	-2.126653e+00	1.454298e+00	-4.076863e-01	6.548567e+00
##	1087	-1.066540e-01	-2.832040e-01	-1.101803e+01	-4.599450e-01	4.358942e-01
##	1088	4.392546e-03	-2.570513e-02	3.735274e-02	-1.467567e-03	-2.672705e-03
##	1091	3.622863e-04	-2.120053e-03	3.080718e-03	-1.210355e-04	-2.204461e-04
##	1092	1.785580e-04	-1.044883e-03	1.518353e-03	-5.965330e-05	-1.086515e-04
##	1093	1.565267e-01	4.156273e-02	-8.741384e-03	1.141155e-02	-2.094228e-01
##	1095	1.475101e-04	-8.631829e-04	1.254322e-03	-4.927935e-05	-8.976127e-05
##	1096	-5.945072e-02	-3.625622e-01	4.885588e-01	-2.739903e-02	1.208853e-01
##	1098	7.886523e-05	1.958465e-06	2.218566e-05	4.492268e-06	-1.032586e-04
##	1099	7.294339e-05	-4.266119e-04	6.199816e-04	-2.434494e-05	-4.442232e-05
##	1100	1.694015e-01	-9.913308e-01	1.445391e+00	-5.568654e-02	-1.039747e-01
##	1102	7.714362e-07	-4.099495e-06	5.982330e-06	-2.295957e-07	-5.194007e-07
##	1104	1.633537e-01	-9.777074e-01	1.104384e+00	-6.807761e-02	-8.952175e-02
##	1105	3.279614e-02	-1.936392e-01	2.590640e-01	-1.192131e-02	-1.923749e-02
##	1107	-5.732965e-01	-1.019988e+00	1.246181e+00	-9.952731e-02	8.705066e-01
##	1108	-2.546341e-01	1.971187e-01	-1.654754e+01	-6.158371e-01	6.783478e-01
##	1110	2.550764e-01	-1.490982e+00	2.675896e+00	1.023847e-02	-2.495698e-01
##	1111	-2.034781e-02	1.221017e-01	2.844085e-01	9.344323e-02	-7.334816e-02
##	1112	1.477727e-04	-8.647322e-04	1.256570e-03	-4.936845e-05	-8.991902e-05
##	1113	2.926372e-01	-2.326247e+00	2.788672e+00	-1.598923e-01	-9.205464e-02
##	1114	-2.005819e-01	-2.091314e-01	2.292979e-01	-2.499276e-02	2.869514e-01
##	1115	4.119506e-01	-1.313575e+01	1.856417e+01	-8.409180e-01	1.018087e+00
##	1117	1.078570e-01	2.011478e-03	3.123387e-02	6.091691e-03	-1.411306e-01
##	1118	3.410723e-11	-1.987632e-10	4.158260e-10	1.243167e-11	-4.432826e-11
##	1119	7.031327e-06	-4.033596e-05	5.865691e-05	-2.295218e-06	-4.375047e-06
##	1121	5.401591e-01	-3.159980e+00	6.294698e+00	1.384288e-01	-6.436527e-01
##	1122	-7.123156e-03	5.331773e-02	1.696830e+00	3.352694e-01	-3.250381e-01
##	1127	-5.923469e-02	2.443706e-01	1.981461e+00	4.515142e-01	-3.848349e-01
##	1129	-1.524573e-07	1.279277e-06	2.893955e-06	9.627087e-07	-8.283889e-07
##	1130	-5.655970e-03	-2.821130e-03	2.165111e-03	-4.995006e-04	7.724031e-03
##	1131	4.111196e-03	-2.520545e-01	-2.523929e+00	-1.265975e-01	9.114273e-02

##	1132	-7.601803e-04	4.702916e-03	1.965043e-02	5.227229e-03	-4.462453e-03
##	1134	3.702042e-06	-3.271066e-05	-8.714291e-04	-3.631653e-05	1.943023e-05
##	1135	1.547723e-04	-9.054551e-04	1.315852e-03	-5.167360e-05	-9.422381e-05
##	1136	-3.253229e-02	-1.987343e-02	1.753716e-02	-3.119166e-03	4.486577e-02
##	1137	3.108695e-02	-2.078072e-01	1.153004e+00	1.474996e-01	-1.734509e-01
##	1138	2.356077e-02	-1.375639e-01	2.494522e-01	1.424525e-03	-2.353327e-02
##	1141	-3.781678e-02	-1.973448e-02	1.567457e-02	-3.401824e-03	5.175218e-02
##	1142	4.975607e-04	-2.854775e-03	1.283306e-02	1.463092e-03	-1.914854e-03
##	1143	-3.975169e-02	4.586881e-01	4.152051e+00	9.282633e-01	-8.915145e-01
##	1144	-1.180342e+00	-8.351811e-01	7.959675e-01	-1.207647e-01	1.641438e+00
##	1145	1.002940e-01	-5.869188e-01	8.528658e-01	-3.350859e-02	-6.102532e-02
##	1146	5.527658e-03	-3.232163e-02	7.721638e-02	4.169199e-03	-9.340488e-03
##	1147	1.983094e-05	7.960916e-06	-4.273508e-06	1.738368e-06	-2.696579e-05
##	1148	-1.548922e-01	2.273199e-01	1.422378e+00	3.416010e-01	-1.556396e-01
##	1150	4.696867e-04	-2.747894e-03	3.994243e-03	-1.566571e-04	-2.860890e-04
##	1152	9.693820e-05	-5.671048e-04	8.241196e-04	-3.236887e-05	-5.901115e-05
##	1153	6.505820e-02	-3.764695e-01	5.472878e-01	-2.145311e-02	-4.009269e-02
##	1156	8.392020e-03	-4.910990e-02	7.136278e-02	-2.803800e-03	-5.106251e-03
##	1157	3.462789e-03	-9.924964e-03	1.498151e-02	-4.687514e-04	-3.340155e-03
##	1158	8.882751e-04	3.590082e-04	-2.218908e-04	7.295539e-05	-1.203143e-03
##	1159	-6.633252e-01	-1.212325e-01	6.332084e-01	8.130114e-02	7.565000e-01
##	1160	-1.557475e-02	-2.464457e-02	2.956616e-02	-2.499859e-03	2.328348e-02
##	1161	1.846275e-01	-1.476956e+00	2.124811e+00	-8.806580e-02	-6.505702e-02
##	1163	-1.641430e-01	2.763194e-01	1.851896e+00	4.381561e-01	-2.420374e-01
##	1166	4.379037e-05	1.770982e-05	-1.091465e-05	3.604826e-06	-5.932154e-05
##	1167	1.080918e-04	2.247562e-05	2.950225e-06	7.517711e-06	-1.439285e-04
##	1168	1.002206e+00	-5.961767e+00	8.657964e+00	-3.412854e-01	-5.982553e-01
##	1169	1.822022e-04	-1.066218e-03	1.549353e-03	-6.087186e-05	-1.108675e-04
##	1172	4.749579e-07	-2.779715e-06	4.039374e-06	-1.586810e-07	-2.889846e-07
##	1175	1.016732e-04	3.944628e-05	-2.303492e-05	8.252191e-06	-1.375281e-04
##	1176	7.129811e-04	-4.172327e-03	6.062950e-03	-2.382003e-04	-4.338341e-04
##	1177	3.336878e-04	-1.952749e-03	2.837437e-03	-1.114928e-04	-2.030322e-04
##	1178	6.476327e-05	-1.058900e-04	1.704496e-04	-3.121974e-06	-7.231323e-05
##	1179	-7.937619e-04	4.990346e-03	4.541089e-02	1.014514e-02	-9.292533e-03

## 1181	1.678382e-01	-1.104801e+00	1.755257e+00	-3.493800e-02	-1.164332e-01
## 1182	2.263813e-04	-1.324734e-03	1.925017e-03	-7.562964e-05	-1.377524e-04
## 1184	4.831819e-07	-7.187797e-07	1.158233e-06	-2.113134e-08	-5.454582e-07
## 1185	2.339356e-02	9.454454e-03	-5.843605e-03	1.921247e-03	-3.168577e-02
## 1186	-1.654391e-06	1.005202e-05	4.192102e-05	1.115785e-05	-9.486377e-06
## 1187	3.277025e-05	-1.916899e-04	2.785588e-04	-1.094230e-05	-1.995015e-05
## 1188	-3.244040e-02	1.255264e-01	2.753087e+00	5.568471e-01	-5.160336e-01
## 1189	-1.386586e+00	-1.396519e+01	1.910209e+01	-1.005720e+00	3.476515e+00
## 1190	3.459911e-02	-2.830947e-01	-6.175855e-01	-5.610608e-02	1.222179e-02
## 1191	5.446498e-06	-3.138559e-05	1.267075e-04	1.348270e-05	-1.846095e-05
## 1194	2.541011e-05	-7.231200e-05	1.103643e-04	-3.189223e-06	-2.478532e-05
## 1195	2.066004e-02	-1.202986e-01	1.748523e-01	-6.860392e-03	-1.264489e-02
## 1197	-1.527474e-06	1.131924e-06	-9.998559e-05	-3.753656e-06	4.121513e-06
## 1198	-1.125269e-04	-1.181005e-03	-2.153491e-02	-9.701500e-04	8.224469e-04
## 1201	9.800864e-01	-5.776400e+00	8.391620e+00	-3.301743e-01	-5.914651e-01
## 1203	-1.170832e-02	7.025182e-02	1.625741e-01	5.356407e-02	-4.200334e-02
## 1205	8.191157e-07	-2.767340e-06	4.151229e-06	-1.350036e-07	-7.438199e-07
## 1206	5.672850e-02	-3.342421e-01	6.143912e-01	5.015687e-03	-5.806654e-02
## 1207	6.528563e-04	-3.819083e-03	5.555296e-03	-2.169751e-04	-3.984481e-04
## 1208	3.960973e-04	-2.317902e-03	3.368228e-03	-1.323292e-04	-2.410221e-04
## 1211	9.792004e-02	-5.621289e-01	8.176614e-01	-3.194724e-02	-6.092294e-02
## 1212	1.625023e-03	-7.493703e-03	1.099828e-02	-4.087579e-04	-1.229198e-03
## 1216	2.572851e-04	-1.505833e-03	2.185598e-03	-8.607105e-05	-1.564655e-04
## 1217	9.284975e-07	-5.094167e-06	7.423305e-06	-2.871589e-07	-6.058968e-07
## 1218	7.546288e-06	-4.416079e-05	6.417143e-05	-2.521183e-06	-4.591704e-06
## 1219	-4.103445e-04	-5.669884e-04	6.645706e-04	-6.024174e-05	6.034858e-04
## 1220	3.258566e-02	-1.930048e-01	3.049757e-01	-6.427262e-03	-2.410755e-02
## 1221	-1.684058e-02	1.248953e-02	-1.102242e+00	-4.137908e-02	4.543612e-02
## 1224	-7.095256e-01	-8.770042e-01	1.003108e+00	-9.754091e-02	1.031411e+00
## 1225	-6.592267e-02	-2.972070e-03	-4.893092e+00	-1.903215e-01	1.990757e-01
## 1226	-8.787724e-04	5.136812e-04	-5.905534e-02	-2.234636e-03	2.427386e-03
## 1227	1.368854e-06	-7.434378e-06	1.083415e-05	-4.190080e-07	-9.015990e-07
## 1229	1.095124e-01	-6.410941e-01	9.315769e-01	-3.660373e-02	-6.660711e-02
## 1230	3.874916e-02	1.566079e-02	-9.679935e-03	3.182387e-03	-5.248445e-02

##	1231	-1.225709e-02	-1.737900e-02	2.044735e-02	-1.833259e-03	1.808339e-02
##	1233	-1.064168e-07	7.150583e-08	-7.047768e-06	-2.655240e-07	2.901424e-07
##	1234	-2.119002e-01	7.034280e-01	2.340917e+00	6.702151e-01	-4.342977e-01
##	1235	6.970803e-04	-4.072644e-03	5.978246e-03	-2.212516e-04	-4.360056e-04
##	1236	-1.204980e+00	-9.827551e+00	8.194254e+00	-9.182895e-01	2.865373e+00
##	1238	-1.086020e-05	1.454736e-05	4.674351e-05	1.357320e-05	-5.892334e-07
##	1242	3.433137e-04	-2.008899e-03	2.919219e-03	-1.146856e-04	-2.089196e-04
##	1247	2.756336e-04	-1.612985e-03	2.343872e-03	-9.208815e-05	-1.677162e-04
##	1249	-9.596335e-04	5.828578e-03	2.395347e-02	6.403492e-03	-5.434689e-03
##	1251	1.251400e-03	-7.323177e-03	1.064148e-02	-4.180976e-04	-7.614313e-04
##	1252	2.044399e-01	-1.208075e+00	1.836145e+00	-3.362145e-02	-1.600125e-01
##	1253	8.496659e-02	-4.622133e-01	6.735607e-01	-2.605487e-02	-5.587729e-02
##	1256	6.496629e-04	-3.801320e-03	5.525097e-03	-2.167821e-04	-3.955924e-04
##	1258	-6.124375e-01	-1.831420e+00	2.369226e+00	-1.556639e-01	1.018382e+00
##	1259	4.870371e-05	-2.849416e-04	4.140653e-04	-1.626620e-05	-2.964412e-05
##	1263	1.049614e-01	1.778484e-02	8.250026e-03	6.981173e-03	-1.392291e-01
##	1264	8.412526e-05	-2.615583e-04	3.937228e-04	-1.253044e-05	-7.892328e-05
##	1265	-8.319945e-01	-1.205909e+00	1.424650e+00	-1.261874e-01	1.230607e+00
##	1266	-6.330155e-03	-3.916900e-03	3.482631e-03	-6.101756e-04	8.735889e-03
##	1269	7.066750e-04	-4.135454e-03	6.009327e-03	-2.361029e-04	-4.299861e-04
##	1270	3.045079e-04	-1.781950e-03	2.589403e-03	-1.017343e-04	-1.852863e-04
##	1271	-3.736746e-06	-1.067611e-04	1.486817e-04	-7.218905e-06	1.752238e-05
##	1272	-5.175547e-02	3.862710e-02	-3.384762e+00	-1.270357e-01	1.395375e-01
##	1273	2.793267e-04	-1.634555e-03	2.375223e-03	-9.331843e-05	-1.699691e-04
##	1274	9.579253e-02	-6.180274e-01	1.743767e-01	-6.338356e-02	-3.479548e-02
##	1276	2.263813e-04	-1.324734e-03	1.925017e-03	-7.562964e-05	-1.377524e-04
##	1282	-4.647049e+00	-1.878342e+00	1.161158e+00	-3.816656e-01	6.294297e+00
##	1283	-4.234523e-03	2.540783e-02	5.879898e-02	1.937262e-02	-1.519147e-02
##	1284	3.486751e-02	-2.414185e-01	-1.209160e-01	-3.209813e-02	-5.912551e-03
##	1285	-2.766482e-02	-1.303125e-02	9.500107e-03	-2.395104e-03	3.769167e-02
##	1286	3.510496e-02	-2.082209e-01	2.663979e-01	-1.329160e-02	-2.019601e-02
##	1287	-7.147086e-07	5.248461e-07	-4.683677e-05	-1.758954e-06	1.930419e-06
##	1288	-7.032755e-01	-5.522365e-01	5.506759e-01	-7.558771e-02	9.845194e-01
##	1289	-2.832127e-02	1.724632e-01	7.748168e-01	2.018416e-01	-1.731137e-01

##	1290	-4.184526e-05	-1.495943e-04	-4.751688e-03	-2.014747e-04	1.867551e-04
##	1291	-1.494092e-02	-1.393196e-02	1.477797e-02	-1.752007e-03	2.117800e-02
##	1293	1.149087e-03	-2.210610e-03	3.456651e-03	-8.343928e-05	-1.237582e-03
##	1294	3.783990e-02	-2.213228e-01	3.422890e-01	-8.763902e-03	-2.686071e-02
##	1296	1.251237e-01	-7.199150e-01	2.908431e+00	3.075858e-01	-4.218355e-01
##	1298	-1.161403e-01	7.014386e-01	2.277797e+00	6.573726e-01	-5.413733e-01
##	1299	3.684486e-11	-2.154421e-10	3.420282e-10	-6.843866e-12	-2.782946e-11
##	1301	-4.169080e-01	3.933598e-01	1.655374e+00	4.407868e-01	6.548983e-02
##	1302	2.152800e-04	-1.258965e-03	1.830140e-03	-7.174521e-05	-1.312141e-04
##	1304	6.659219e-01	-3.897063e+00	5.663078e+00	-2.224622e-01	-4.052087e-01
##	1305	3.754049e-04	-2.196807e-03	3.192258e-03	-1.254162e-04	-2.284313e-04
##	1306	4.347342e-05	-2.347044e-05	4.666369e-05	8.587239e-07	-5.400810e-05
##	1308	1.014564e+00	-5.995791e+00	8.709478e+00	-3.428649e-01	-6.103424e-01
##	1309	1.406438e-01	-8.163998e-01	2.171346e+00	1.378185e-01	-2.684414e-01
##	1311	-5.988254e-02	2.051814e-01	2.191711e+00	4.780095e-01	-4.080915e-01
##	1312	-1.939679e-05	1.163662e-04	3.137178e-04	9.767130e-05	-7.846881e-05
##	1315	2.158692e-04	-1.262888e-03	1.835213e-03	-7.208668e-05	-1.314043e-04
##	1317	-1.940445e+00	-4.605632e+00	5.831673e+00	-4.135845e-01	3.083920e+00
##	1318	-1.484145e-08	4.338424e-09	-1.045684e-06	-4.010471e-08	4.276457e-08
##	1320	3.352891e-04	-1.962074e-03	2.851149e-03	-1.120171e-04	-2.040173e-04
##	1321	-1.218047e-08	2.439232e-09	-8.706930e-07	-3.352617e-08	3.555518e-08
##	1323	1.756457e+00	-1.084613e+01	1.622614e+01	-5.317230e-01	-1.092794e+00
##	1324	-1.353166e-02	8.118390e-02	1.878833e-01	6.190131e-02	-4.853984e-02
##	1325	2.772547e-02	-1.545842e-01	1.414008e+00	2.138671e-01	-2.376346e-01
##	1326	7.042776e-02	-7.611422e-04	2.329761e-02	3.839688e-03	-9.190717e-02
##	1327	1.799068e-04	7.271102e-05	-4.494219e-05	1.477550e-05	-2.436780e-04
##	1328	1.148270e-03	-2.531480e-03	3.905200e-03	-1.048604e-04	-1.198226e-03
##	1329	-5.083057e-01	-6.232365e+00	8.560460e+00	-4.425926e-01	1.407020e+00
##	1330	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
##	1331	-4.085466e-02	-2.973342e-01	4.031625e-01	-2.203226e-02	8.881591e-02
##	1332	1.676961e-04	-9.812881e-04	1.425947e-03	-5.602150e-05	-1.020469e-04
##	1334	2.865816e-04	-1.677137e-03	2.436271e-03	-9.578343e-05	-1.743481e-04
##	1335	1.028502e-01	-6.019145e-01	8.746545e-01	-3.436505e-02	-6.257630e-02
##	1340	1.104215e-01	-6.448520e-01	1.139416e+00	1.073832e-03	-1.047526e-01

## 1341	3.232966e-02	-1.888624e-01	2.705935e-01	-1.092728e-02	-1.962158e-02
## 1343	4.847679e-06	-3.242339e-06	6.066931e-06	5.206065e-08	-5.945769e-06
## 1347	3.011296e-05	-1.761266e-04	2.559448e-04	-1.005347e-05	-1.833498e-05
## 1348	3.022515e-02	-2.620221e-01	-7.892412e-01	-6.032974e-02	1.867379e-02
## 1350	-6.520239e-09	-1.504065e-09	-4.973888e-07	-1.947996e-08	2.018031e-08
## 1352	2.645164e-01	-1.541530e+00	5.144256e+00	4.557690e-01	-6.986675e-01
## 1354	1.099313e-01	1.599684e-02	1.232068e-02	7.136746e-03	-1.455079e-01
## 1355	-1.145281e-01	4.663944e-01	2.191630e+00	5.640174e-01	-4.386135e-01
## 1356	-1.511037e-03	9.057994e-03	2.096681e-02	6.907308e-03	-5.414934e-03
## 1357	2.129420e-04	-1.246118e-03	1.810770e-03	-7.114270e-05	-1.295704e-04
## 1358	8.255072e-05	-4.829153e-04	7.017756e-04	-2.756346e-05	-5.025510e-05
## 1359	-1.941313e-02	-2.182541e-01	2.992848e-01	-1.558633e-02	5.137743e-02
## 1360	2.404166e-02	-1.379410e-01	6.284008e-01	7.225265e-02	-9.406197e-02
## 1363	4.390554e-04	-2.569035e-03	3.733249e-03	-1.466497e-04	-2.672059e-04
## 1364	-1.466445e-05	1.125987e-04	2.149235e-03	4.394668e-04	-4.216720e-04
## 1368	8.469911e-05	-4.394192e-04	8.033910e-04	5.743580e-06	-8.816570e-05
## 1369	1.382572e-05	5.579456e-06	-3.380988e-06	1.146377e-06	-1.873679e-05
## 1370	2.796540e-02	-1.635508e-01	2.359258e-01	-9.403034e-03	-1.698799e-02
## 1372	2.851980e-02	-1.652710e-01	2.369585e-01	-9.546112e-03	-1.747129e-02
## 1374	1.412473e-04	-8.264668e-04	1.200991e-03	-4.717907e-05	-8.596185e-05
## 1375	9.738317e-05	3.935921e-05	-2.432518e-05	7.998599e-06	-1.319030e-04
## 1376	6.977380e-04	-4.082602e-03	5.934638e-03	-2.326906e-04	-4.249989e-04
## 1377	-7.062016e-02	-6.644636e-02	7.067931e-02	-8.321320e-03	1.001721e-01
## 1378	-7.845961e-02	-3.170996e-02	1.959370e-02	-6.443916e-03	1.062710e-01
## 1379	3.038584e-05	-2.126040e-05	3.935602e-05	2.671079e-07	-3.716016e-05
## 1383	1.252658e-01	-1.420528e+00	2.021972e+00	-8.776564e-02	5.852119e-03
## 1384	3.612519e-04	-2.113960e-03	3.071891e-03	-1.206825e-04	-2.198261e-04
## 1385	-9.480085e-02	-2.271571e-01	2.879069e-01	-2.034980e-02	1.509228e-01
## 1386	2.224617e-02	-1.351111e-01	8.754753e-01	1.194512e-01	-1.385773e-01
## 1387	1.696060e+00	-9.925667e+00	1.444582e+01	-5.624488e-01	-1.036132e+00
## 1388	-3.596474e-02	1.398993e-01	2.112999e+00	4.417332e-01	-3.987098e-01
## 1389	-3.702185e-03	-1.609240e-03	1.083478e-03	-3.114627e-04	5.027853e-03
## 1390	-6.469641e-04	3.881850e-03	8.983419e-03	2.959783e-03	-2.320972e-03
## 1391	-2.345006e-01	1.243488e+00	1.031830e+00	9.029119e-01	-6.942989e-01

## 1393	1.318822e+00	-7.794213e+00	1.369681e+01	-1.023826e-03	-1.232491e+00
## 1395	8.754701e-03	-8.782520e-02	5.491681e-01	7.394001e-02	-7.927647e-02
## 1397	3.636877e-04	-2.128205e-03	3.092576e-03	-1.214986e-04	-2.213065e-04
## 1399	-4.846534e-07	3.577911e-07	-3.173963e-05	-1.191743e-06	1.308274e-06
## 1400	1.054529e+00	-6.178903e+00	8.978297e+00	-3.528408e-01	-6.407118e-01
## 1403	3.200109e-02	-1.873672e-01	2.611689e-01	-1.112238e-02	-1.920374e-02
## 1404	6.964857e-04	-4.075819e-03	5.922681e-03	-2.326962e-04	-4.237891e-04
## 1405	1.603981e-03	-1.752962e-02	2.505161e-02	-1.074270e-03	-8.310200e-06
## 1406	3.207070e-02	-1.876314e-01	2.726542e-01	-1.071188e-02	-1.951935e-02
## 1408	-5.378825e-02	2.158787e-01	2.268068e+00	4.957973e-01	-4.338590e-01
## 1409	-8.691151e-02	4.060150e-01	2.419517e+00	5.867447e-01	-4.923936e-01
## 1410	3.138693e-01	-1.836917e+00	2.669261e+00	-1.048751e-01	-1.909596e-01
## 1412	1.173321e-01	-6.734549e-01	2.971482e+00	3.346843e-01	-4.413314e-01
## 1413	1.075189e-06	-4.974060e-06	7.299020e-06	-2.715406e-07	-8.113676e-07
## 1414	1.308132e-01	-7.639143e-01	1.353095e+00	1.890509e-03	-1.247094e-01
## 1415	-4.130508e+00	-4.479137e+00	4.963255e+00	-5.261576e-01	5.929671e+00
## 1417	-5.836808e+00	-5.444418e+00	5.775208e+00	-6.846337e-01	8.273670e+00
## 1418	-1.582016e-02	1.131190e-01	2.958075e+00	5.910888e-01	-5.699890e-01
## 1420	-5.910070e-02	-7.067201e-02	8.022895e-02	-7.966003e-03	8.562829e-02
## 1421	1.519768e-01	6.129447e-02	-3.778596e-02	1.247300e-02	-2.058322e-01
## 1422	-6.806814e-02	1.607099e-01	2.756419e+00	5.691670e-01	-4.854879e-01
## 1423	2.521782e-03	-1.201432e-02	1.760650e-02	-6.599899e-04	-1.861555e-03
## 1424	5.795749e-04	-3.391665e-03	4.928511e-03	-1.936382e-04	-3.526503e-04
## 1425	-1.367863e-01	-1.280328e+01	1.787168e+01	-8.590895e-01	1.705084e+00
## 1426	2.038206e-01	-1.214736e+00	2.065588e+00	-1.308634e-02	-1.771672e-01
## 1427	-2.090062e-01	1.229925e+00	2.870489e+00	9.906381e-01	-7.873034e-01
## 1429	2.756336e-04	-1.612985e-03	2.343872e-03	-9.208815e-05	-1.677162e-04
## 1430	-3.041796e-03	1.780005e-02	-2.586527e-02	1.016324e-03	1.850802e-03
## 1431	-6.843057e-04	-3.316138e-03	4.424045e-03	-2.583921e-04	1.289282e-03
## 1432	-5.935342e-01	-8.432742e-01	9.925322e-01	-8.888916e-02	8.758716e-01
## 1434	1.364320e-04	-7.983463e-04	1.160108e-03	-4.557739e-05	-8.302169e-05
## 1436	1.333378e-04	-5.506046e-04	8.165593e-04	-2.850478e-05	-1.092727e-04
## 1437	-2.132045e-05	1.304066e-04	3.161031e-04	1.021094e-04	-8.113368e-05
## 1438	1.743316e-04	-1.031820e-03	1.345749e-03	-6.486885e-05	-1.011549e-04

## 1439	9.422147e-02	-5.409200e-01	2.350644e+00	2.620681e-01	-3.477864e-01
## 1443	3.934168e-04	-2.301980e-03	3.345347e-03	-1.313725e-04	-2.394640e-04
## 1445	8.341564e-04	-3.824909e-03	5.615062e-03	-2.084000e-04	-6.335421e-04
## 1446	-3.060427e-03	-1.508962e-03	-2.424427e-01	-9.584607e-03	9.802696e-03
## 1447	-1.246695e-02	8.946568e-02	2.383421e+00	4.757091e-01	-4.589757e-01
## 1449	-4.013095e+00	-8.154005e+00	1.014223e+01	-7.641469e-01	6.214481e+00
## 1450	7.404955e-01	-4.787338e+00	7.003451e+00	-2.642475e-01	-4.096241e-01
## 1452	1.153149e-02	-2.541485e-01	-1.982798e+00	-1.058346e-01	6.932494e-02
## 1454	-1.893462e-03	1.175245e-02	8.542797e-02	1.986358e-02	-1.787558e-02
## 1455	-3.617512e-04	2.171010e-03	5.090362e-03	1.667718e-03	-1.310392e-03
## 1456	3.736280e-04	-2.186471e-03	3.177159e-03	-1.248329e-04	-2.273373e-04
## 1457	1.020404e-04	-5.185436e-04	8.006295e-04	-2.083391e-05	-7.938906e-05
## 1458	2.859578e-02	-1.673294e-01	2.392041e-01	-9.704033e-03	-1.730989e-02
## 1459	5.752436e-04	-3.365821e-03	4.892804e-03	-1.918167e-04	-3.504113e-04
## 1462	2.221835e-02	-8.671528e-02	1.274152e-01	-4.577473e-03	-1.866164e-02
## 1463	-4.016737e-02	1.701358e-01	2.451043e+00	5.149774e-01	-4.674011e-01
## 1464	9.758173e-05	-5.662982e-04	8.231577e-04	-3.228649e-05	-5.994121e-05
## 1465	1.378211e-01	-6.679843e-01	9.783908e-01	-3.677588e-02	-1.004325e-01
## 1466	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
## 1468	-3.688220e-02	8.984831e-02	2.927168e+00	5.777383e-01	-5.291948e-01
## 1470	-7.803817e-01	-3.257080e-01	2.093751e-01	-6.477670e-02	1.058230e+00
## 1472	-5.739908e-02	2.627357e-01	2.463086e+00	5.477192e-01	-4.831240e-01
## 1474	-6.407293e-09	-1.539692e-09	-4.894568e-07	-1.917552e-08	1.985528e-08
## 1475	4.725071e-04	-2.759576e-03	4.031362e-03	-1.535558e-04	-2.920565e-04
## 1477	3.170681e-04	-1.846404e-03	2.710176e-03	-1.003432e-04	-1.989312e-04
## 1478	1.656818e-01	-9.686597e-01	1.542082e+00	-3.012018e-02	-1.257808e-01
## 1479	3.950427e-06	-2.311785e-05	3.359357e-05	-1.319764e-06	-2.403779e-06
## 1480	7.360729e-05	-4.307013e-04	6.258696e-04	-2.458845e-05	-4.479391e-05
## 1481	-9.089742e-01	-9.522393e-01	1.045415e+00	-1.135634e-01	1.300916e+00
## 1482	5.113258e-02	-2.992272e-01	4.348143e-01	-1.708360e-02	-3.111232e-02
## 1483	2.582502e-04	-1.511204e-03	2.196000e-03	-8.627199e-05	-1.571501e-04
## 1484	8.317733e-01	-4.849515e+00	1.032586e+01	3.370573e-01	-1.114374e+00
## 1485	1.013144e-01	-5.928896e-01	8.615424e-01	-3.384945e-02	-6.164625e-02
## 1486	-2.312061e-03	1.598518e-03	-1.526227e-01	-5.744438e-03	6.285481e-03

## 1487	-1.080817e-01	-1.105250e-01	-9.199552e+00	-3.697370e-01	3.695856e-01
## 1489	2.246186e-01	-1.314493e+00	2.057849e+00	-4.738717e-02	-1.639855e-01
## 1494	3.698293e-01	-2.149031e+00	6.836129e+00	5.725740e-01	-9.133166e-01
## 1496	5.064207e-05	-2.962468e-04	4.305004e-04	-1.691030e-05	-3.082905e-05
## 1498	3.333188e-04	-1.948614e-03	2.837285e-03	-1.101838e-04	-2.040821e-04
## 1500	1.806327e+00	-1.112936e+01	1.669284e+01	-5.375763e-01	-1.134273e+00
## 1501	-7.178064e-02	3.458691e-01	2.517964e+00	5.853604e-01	-5.067460e-01
## 1503	3.861153e-04	-2.259433e-03	3.283278e-03	-1.289888e-04	-2.349567e-04
## 1504	4.010424e-02	-2.638617e-01	1.566411e-02	-2.934306e-02	-1.246763e-02
## 1505	2.035058e-05	-1.149683e-04	1.681818e-04	-6.357092e-06	-1.303995e-05
## 1507	-2.353974e-04	9.743483e-06	-1.724398e-02	-6.684270e-04	7.025041e-04
## 1508	3.555768e-02	-2.218969e-01	4.432713e-01	9.964115e-03	-4.246829e-02
## 1509	-1.231721e-01	-6.115950e-02	-9.762140e+00	-3.859769e-01	3.946977e-01
## 1510	3.487265e-02	-2.028718e-01	2.700364e-01	-1.252048e-02	-2.078883e-02
## 1511	-2.011314e-01	-2.717684e-01	3.167617e-01	-2.919104e-02	2.951389e-01
## 1513	2.459551e-01	-1.429011e+00	3.752817e+00	2.322732e-01	-4.607428e-01
## 1517	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 1518	-1.616041e-02	9.686357e-02	2.238702e-01	7.398560e-02	-5.804102e-02
## 1519	-5.747688e-02	-2.550476e-01	3.387296e-01	-2.014061e-02	1.054902e-01
## 1520	1.941702e+00	-1.140937e+01	1.599411e+01	-6.741074e-01	-1.162451e+00
## 1521	-1.004734e-02	6.258479e-02	5.371701e-01	1.218517e-01	-1.111763e-01
## 1522	-2.480402e+00	-3.191099e+00	3.681959e+00	-3.493136e-01	3.620591e+00
## 1523	3.069396e-05	-1.603764e-04	2.344640e-04	-8.903647e-06	-2.104100e-05
## 1525	-3.853580e-02	2.873138e-02	-2.520534e+00	-9.460356e-02	1.039080e-01
## 1526	-8.486455e-04	-3.429846e-04	2.120074e-04	-6.969531e-05	1.149460e-03
## 1527	2.291063e-04	-1.070361e-03	1.577287e-03	-5.718380e-05	-1.729988e-04
## 1528	8.315582e-05	-4.865818e-04	7.070709e-04	-2.777881e-05	-5.060353e-05
## 1529	9.513957e-02	-5.566770e-01	8.091138e-01	-3.174592e-02	-5.793327e-02
## 1531	-4.856719e-01	-1.529596e+00	1.986930e+00	-1.285819e-01	8.168021e-01
## 1532	2.518616e-04	-1.473848e-03	2.141698e-03	-8.414290e-05	-1.532560e-04
## 1535	2.738138e-04	-1.602150e-03	2.328199e-03	-9.145646e-05	-1.666422e-04
## 1536	-7.721645e-03	-1.903633e-02	2.420111e-02	-1.692411e-03	1.235590e-02
## 1537	-9.810214e-02	-5.546838e-02	4.664231e-02	-9.109248e-03	1.347623e-01
## 1538	3.457169e-04	-2.023126e-03	2.939857e-03	-1.155042e-04	-2.103577e-04

## 1539	-1.639451e-03	1.266956e-02	4.632570e-01	9.107790e-02	-8.858769e-02
## 1540	-9.760705e-03	-5.281081e-03	4.308294e-03	-8.904571e-04	1.337982e-02
## 1542	-9.121682e-02	5.473273e-01	1.268435e+00	4.176585e-01	-3.275879e-01
## 1543	1.333378e-04	-5.506046e-04	8.165593e-04	-2.850478e-05	-1.092727e-04
## 1544	1.014201e+00	-5.985053e+00	8.694331e+00	-3.421720e-01	-6.111479e-01
## 1548	-6.292332e-02	2.190327e-01	1.665166e+00	3.839820e-01	-3.121692e-01
## 1551	4.890603e-01	-2.844330e+00	6.826046e+00	3.418107e-01	-7.974425e-01
## 1553	-9.463769e-02	3.916960e-01	2.233433e+00	5.472283e-01	-4.429312e-01
## 1556	1.477399e-01	-2.645496e-02	8.365380e-02	6.400850e-03	-1.898342e-01
## 1558	4.566483e-05	1.831706e-05	-1.117271e-05	3.748740e-06	-6.184247e-05
## 1559	-3.370783e-02	-8.876450e-02	-3.473966e+00	-1.449598e-01	1.374604e-01
## 1560	-1.873115e-03	1.123248e-02	2.507617e-02	8.392486e-03	-6.544835e-03
## 1561	3.694667e-02	-2.287042e-01	1.745393e-01	-1.918345e-02	-1.736308e-02
## 1562	4.324777e-03	-1.609750e-01	2.266723e-01	-1.045716e-02	1.353213e-02
## 1563	-1.740880e-05	1.300741e-05	-1.138358e-03	-4.272258e-05	4.692975e-05
## 1565	4.806506e-05	-2.798374e-04	4.071172e-04	-1.588790e-05	-2.949157e-05
## 1566	3.766956e-05	-2.160747e-04	3.157919e-04	-1.200050e-05	-2.373215e-05
## 1568	-1.037747e+00	-2.314558e+00	2.910954e+00	-2.113026e-01	1.631565e+00
## 1569	-1.988719e-05	9.835953e-05	2.341278e-04	7.622707e-05	-5.565158e-05
## 1570	-1.137266e-01	6.916530e-01	2.968576e+00	7.834979e-01	-6.684277e-01
## 1571	-1.105505e+00	-1.784069e+00	2.147287e+00	-1.797562e-01	1.656824e+00
## 1572	-3.040808e-03	1.779347e-02	-2.585583e-02	1.015926e-03	1.850311e-03
## 1573	-3.736165e+00	-1.510005e+00	9.333358e-01	-3.068435e-01	5.060512e+00
## 1574	-4.220480e+00	-3.345624e+00	3.348829e+00	-4.557194e-01	5.912042e+00
## 1575	1.014727e-02	-6.432832e-02	1.309913e+00	2.240945e-01	-2.305640e-01
## 1577	1.377776e-02	-2.692054e-02	4.201605e-02	-1.030005e-03	-1.478743e-02
## 1578	1.626410e-01	-4.948584e-02	1.205821e-01	5.691683e-03	-2.065529e-01
## 1579	-8.505267e-02	3.533643e-01	2.145735e+00	5.181784e-01	-4.241883e-01
## 1580	3.615021e-03	-2.462612e-02	3.669861e-02	-1.232570e-03	-1.989302e-03
## 1581	-4.555333e-03	2.733273e-02	6.325241e-02	2.084007e-02	-1.634216e-02
## 1582	1.347757e-02	6.156626e-03	-1.804856e-03	1.632445e-03	-1.881193e-02
## 1584	3.137193e-02	-1.835882e-01	2.667796e-01	-1.048090e-02	-1.908926e-02
## 1585	1.018736e+00	-6.030607e+00	8.759502e+00	-3.449524e-01	-6.116399e-01
## 1586	4.526300e-02	-4.879455e-01	2.160486e+00	2.440554e-01	-2.715515e-01

## 1587	6.539524e-05	-3.732988e-04	5.463955e-04	-2.057988e-05	-4.154669e-05
## 1588	1.763731e-02	-2.547987e-01	-1.540454e+00	-8.873330e-02	5.127747e-02
## 1590	7.006584e-05	-7.552751e-05	1.286762e-04	-9.896240e-07	-8.268197e-05
## 1591	1.122443e-01	-6.015464e-01	8.771721e-01	-3.378273e-02	-7.493246e-02
## 1592	3.447557e-04	-2.017501e-03	2.931684e-03	-1.151832e-04	-2.097726e-04
## 1593	4.970928e-05	-2.908228e-04	4.226122e-04	-1.660185e-05	-3.025647e-05
## 1595	2.323115e-05	-1.353934e-04	1.968333e-04	-7.713482e-06	-1.421256e-05
## 1596	1.588373e-01	6.419066e-02	-3.967253e-02	1.304466e-02	-2.151393e-01
## 1597	-4.056709e-02	1.171688e-01	3.080767e+00	6.154874e-01	-5.633245e-01
## 1598	-2.336495e-02	1.558667e-01	2.687295e+00	5.544624e-01	-5.266630e-01
## 1599	-1.165884e-01	7.093794e-01	3.094886e+00	8.129866e-01	-6.949167e-01
## 1600	-4.260240e-04	1.584140e-04	-2.963949e-02	-1.132832e-03	1.213835e-03
## 1601	-9.281309e-01	-1.078506e+00	1.216040e+00	-1.230221e-01	1.340996e+00
## 1602	-9.986502e-02	-4.496194e-02	3.138481e-02	-8.507727e-03	1.358124e-01
## 1604	-1.032008e-03	6.192396e-03	1.435680e-02	4.726421e-03	-3.707368e-03
## 1605	1.369982e-02	-8.011663e-02	1.164210e-01	-4.573573e-03	-8.342331e-03
## 1606	1.659919e-04	-9.708859e-04	1.411016e-03	-5.539339e-05	-1.010910e-04
## 1607	6.056178e-02	-3.436579e-01	2.106304e+00	2.812516e-01	-3.351599e-01
## 1608	2.881487e-01	-9.868519e-01	1.471746e+00	-4.973999e-02	-2.587256e-01
## 1609	2.636707e-03	-2.282662e-03	4.026211e-03	-6.221413e-06	-3.172069e-03
## 1610	-6.401477e-07	4.688894e-07	-4.196401e-05	-1.576113e-06	1.729525e-06
## 1611	3.202644e-02	-1.505557e-01	2.198336e-01	-8.283233e-03	-2.386104e-02
## 1612	-7.219971e-03	-1.080306e-02	1.283646e-02	-1.117522e-03	1.071941e-02
## 1614	4.954639e-04	-2.899142e-03	4.213221e-03	-1.654425e-04	-3.015811e-04
## 1616	1.179967e-01	4.222177e-02	-2.182665e-02	9.327056e-03	-1.591707e-01
## 1617	6.753708e-05	-3.951185e-04	5.741756e-04	-2.255469e-05	-4.110923e-05
## 1618	-6.425191e+00	-2.885858e+00	2.009530e+00	-5.469193e-01	8.737178e+00
## 1619	1.188381e-01	-6.291096e-01	9.172599e-01	-3.526447e-02	-8.025617e-02
## 1621	-5.473420e-02	3.406391e-01	2.593901e+00	5.977947e-01	-5.400830e-01
## 1622	-3.255513e-02	2.097132e-01	2.619180e+00	5.594341e-01	-5.229523e-01
## 1623	2.683476e-03	-1.570367e-02	2.281938e-02	-8.965601e-04	-1.632798e-03
## 1625	-1.072862e-01	6.437351e-01	1.489708e+00	4.908211e-01	-3.848873e-01
## 1627	-3.055074e-03	1.787782e-02	-2.597840e-02	1.020741e-03	1.858897e-03
## 1629	8.077100e-02	-4.532852e-01	6.597587e-01	-2.568991e-02	-5.146400e-02

## 1630	-2.658386e-02	5.004439e-02	1.153373e+00	2.324992e-01	-1.990104e-01
## 1631	-4.338869e-03	-1.522026e-03	-3.368311e-01	-1.325091e-02	1.364500e-02
## 1632	1.398047e-05	-8.003455e-05	1.164661e-04	-4.539462e-06	-8.731694e-06
## 1634	-7.863298e-02	3.467796e-01	1.967791e+00	4.826723e-01	-3.968070e-01
## 1635	7.831704e-05	-4.582711e-04	6.659306e-04	-2.616273e-05	-4.765844e-05
## 1636	1.594179e-03	-8.692216e-03	1.189592e-01	1.953599e-02	-2.083524e-02
## 1637	-3.264381e+00	-5.329081e+00	6.425907e+00	-5.348607e-01	4.899621e+00
## 1639	9.788986e-01	-5.910721e+00	8.579189e+00	-3.391757e-01	-5.738976e-01
## 1640	-1.108186e-05	4.308956e-05	1.080000e-04	3.442013e-05	-2.242747e-05
## 1641	-1.023938e+00	-9.981779e-01	1.073402e+00	-1.229698e-01	1.456568e+00
## 1643	3.225901e-04	-1.887781e-03	2.743186e-03	-1.077768e-04	-1.962869e-04
## 1644	-5.854989e+00	-4.790379e+00	4.854333e+00	-6.421267e-01	8.219432e+00
## 1645	2.938615e-02	-1.719443e-01	2.533803e-01	-9.156869e-03	-1.853458e-02
## 1646	-1.355280e-01	2.521492e-01	1.586078e+00	3.803338e-01	-2.194584e-01
## 1650	3.464227e-02	-3.175323e-01	-9.845255e-01	-7.427039e-02	2.585836e-02
## 1651	-6.756269e-02	4.053688e-01	9.380949e-01	3.090778e-01	-2.423660e-01
## 1652	2.117831e-04	-1.238769e-03	1.800500e-03	-7.064704e-05	-1.290027e-04
## 1654	-1.196451e-01	-7.433982e-02	-9.648933e+00	-3.830776e-01	3.894996e-01
## 1656	-5.630737e+00	-1.706246e+00	-3.399117e+01	-1.747743e+00	8.357755e+00
## 1657	5.336541e-04	-1.520247e-03	2.295765e-03	-7.162853e-05	-5.158564e-04
## 1658	1.496124e-04	-8.755086e-04	1.272229e-03	-4.998373e-05	-9.103720e-05
## 1659	3.652690e-02	2.206276e-03	8.443835e-03	2.164481e-03	-4.797721e-02
## 1661	1.681965e-04	-9.841684e-04	1.430133e-03	-5.618589e-05	-1.023568e-04
## 1662	-1.058341e-01	-3.348293e-02	-8.175463e+00	-3.212295e-01	3.313416e-01
## 1663	-4.896413e-03	-2.536041e-03	2.501671e-03	-3.457496e-04	6.606174e-03
## 1665	2.030546e-04	-1.186249e-03	1.725999e-03	-6.730924e-05	-1.241852e-04
## 1668	-6.119228e-08	3.800839e-08	-4.087285e-06	-1.543802e-07	1.681095e-07
## 1669	-1.791128e-04	-1.910250e-04	2.111251e-04	-2.253029e-05	2.566768e-04
## 1670	-1.750861e-04	9.212923e-04	5.244421e-04	6.368547e-04	-4.822729e-04
## 1671	1.417489e-04	-8.294561e-04	1.205316e-03	-4.735319e-05	-8.625773e-05
## 1673	4.268175e-01	-2.511334e+00	3.648546e+00	-1.435063e-01	-2.580810e-01
## 1674	-5.620128e-02	4.195307e-02	-3.675426e+00	-1.379438e-01	1.515205e-01
## 1675	6.997716e-03	-7.416868e-02	3.270673e+00	5.880043e-01	-5.854772e-01
## 1677	-1.514901e-03	-1.534424e-03	-1.287782e-01	-5.174249e-03	5.174163e-03

##	1679	-1.061314e-02	-5.177049e-03	3.893524e-03	-9.306442e-04	1.448095e-02
##	1680	9.668627e-03	-2.308113e-03	6.281659e-03	3.805185e-04	-1.235465e-02
##	1683	-1.190767e-06	7.548407e-06	1.909631e-05	6.059921e-06	-4.898155e-06
##	1685	-4.448632e-01	-5.560214e-01	6.375434e-01	-6.156591e-02	6.474142e-01
##	1687	2.928118e-02	1.181595e-02	-7.289156e-03	2.403586e-03	-3.965821e-02
##	1689	-2.204402e+00	-1.745572e+00	1.746503e+00	-2.379003e-01	3.087697e+00
##	1690	3.932859e-04	-2.301256e-03	3.344085e-03	-1.313704e-04	-2.393412e-04
##	1691	1.498821e-01	-8.707004e-01	2.234638e+00	1.317952e-01	-2.711496e-01
##	1692	8.206724e-02	-4.713524e-01	2.035110e+00	2.258889e-01	-3.005681e-01
##	1693	-3.999114e-04	1.456314e-04	-2.785702e-02	-1.065075e-03	1.140690e-03
##	1694	1.913367e-02	-1.119455e-01	1.626471e-01	-6.391932e-03	-1.164452e-02
##	1695	-4.661117e-01	-1.379188e+00	1.782643e+00	-1.174972e-01	7.733186e-01
##	1696	-1.560219e-07	1.083149e-07	-1.029428e-05	-3.873982e-07	4.239697e-07
##	1697	-1.129964e-05	3.746191e-05	9.572341e-05	3.027355e-05	-1.775859e-05
##	1698	2.397959e-06	-1.371785e-05	1.995510e-05	-7.793913e-07	-1.497440e-06
##	1699	1.055363e-04	3.294102e-05	-1.258342e-05	8.057111e-06	-1.418227e-04
##	1701	-4.260250e-02	-5.612088e-02	6.507500e-02	-6.087013e-03	6.234246e-02
##	1704	2.557739e-04	-1.496742e-03	2.174959e-03	-8.545113e-05	-1.556354e-04
##	1705	-4.011129e-03	-1.138835e-02	-4.168918e-01	-1.714277e-02	1.619411e-02
##	1706	5.787255e-04	-3.386347e-03	4.921184e-03	-1.932596e-04	-3.522458e-04
##	1707	9.322505e-01	-5.456699e+00	7.929203e+00	-3.115459e-01	-5.671012e-01
##	1708	2.884833e-02	-2.485533e-01	-6.440585e-01	-5.322009e-02	1.506808e-02
##	1710	2.705815e-04	-1.583413e-03	2.300904e-03	-9.039942e-05	-1.646434e-04
##	1711	-4.297001e-02	-5.109033e-02	5.792027e-02	-5.772638e-03	6.222268e-02
##	1713	3.860273e-02	-4.097087e-01	5.742910e-01	-2.554815e-02	-1.318155e-03
##	1716	1.258023e-01	5.082813e-02	-3.140441e-02	1.033082e-02	-1.703932e-01
##	1717	-3.593182e-01	8.128103e-01	-1.523522e+01	-1.442561e-01	3.084211e-01
##	1718	-1.114151e-01	5.310830e-01	4.375365e+00	9.941364e-01	-8.707412e-01
##	1719	-1.576723e-01	4.714140e-01	1.762981e+00	4.855738e-01	-3.074099e-01
##	1720	-2.052377e+00	-3.183105e+00	3.805875e+00	-3.251416e-01	3.060524e+00
##	1722	-5.057063e-02	3.145011e-01	2.368629e+00	5.470123e-01	-4.937447e-01
##	1723	1.511212e-04	-8.836570e-04	1.284471e-03	-5.037419e-05	-9.210396e-05
##	1724	1.175724e-01	-6.948118e-01	1.723684e+00	9.403122e-02	-2.028296e-01
##	1725	5.448512e-04	-3.188305e-03	4.633189e-03	-1.819932e-04	-3.315738e-04

##	1726	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
##	1727	5.659682e-02	-3.498851e-01	6.404922e-01	4.764417e-03	-5.681605e-02
##	1728	6.042675e-01	-3.545686e+00	5.151809e+00	-2.025214e-01	-3.665398e-01
##	1729	-3.617890e-05	-7.973880e-05	1.041648e-04	-6.532930e-06	5.600493e-05
##	1730	-3.925972e-02	2.927402e-02	-2.567852e+00	-9.637916e-02	1.058588e-01
##	1732	5.645623e-04	-3.303632e-03	4.802158e-03	-1.883181e-04	-3.438260e-04
##	1733	5.509009e-07	-2.286991e-06	3.373820e-06	-1.217263e-07	-4.469192e-07
##	1735	-1.436949e-03	-2.260399e-02	3.117855e-02	-1.582296e-03	4.571473e-03
##	1737	3.040401e-04	-1.779203e-03	2.585415e-03	-1.015766e-04	-1.850037e-04
##	1738	7.416240e-03	-4.339960e-02	6.306501e-02	-2.477785e-03	-4.512531e-03
##	1739	1.131933e-03	-2.263621e-03	3.524871e-03	-8.801460e-05	-1.208753e-03
##	1740	1.345843e-01	5.438891e-02	-3.361428e-02	1.105283e-02	-1.822895e-01
##	1741	7.142784e-04	-4.175621e-03	6.111350e-03	-2.302249e-04	-4.431578e-04
##	1743	-1.041447e-01	6.248850e-01	1.446711e+00	4.765745e-01	-3.737419e-01
##	1745	3.726547e-05	-2.661295e-04	-2.185849e-04	-3.869612e-05	-3.026777e-06
##	1746	1.571336e-01	-9.105828e-01	1.319351e+00	-5.206795e-02	-9.657892e-02
##	1748	4.351228e-05	1.758590e-05	-1.086970e-05	3.573610e-06	-5.893598e-05
##	1749	-4.903474e-02	3.171317e-01	4.352481e+00	9.193246e-01	-8.634883e-01
##	1750	2.898255e-04	-1.696033e-03	2.464552e-03	-9.682932e-05	-1.763520e-04
##	1751	1.794761e-01	-1.045123e+00	2.433839e+00	1.116785e-01	-2.789883e-01
##	1752	6.135599e-11	-3.588812e-10	5.548498e-10	-1.415279e-11	-4.361879e-11
##	1753	-3.070998e-03	1.038989e-02	-7.864375e-02	3.295394e-03	-1.404002e-03
##	1754	3.337748e-01	-5.074430e+00	7.202798e+00	-3.191764e-01	1.690458e-01
##	1755	1.739634e-01	-1.018182e+00	1.479537e+00	-5.813175e-02	-1.058326e-01
##	1756	2.085270e-05	-1.220047e-04	1.772949e-04	-6.964241e-06	-1.269215e-05
##	1758	3.792234e-02	-2.312981e-01	2.173554e-01	-1.781550e-02	-1.922590e-02
##	1759	5.004752e-04	-1.345536e-03	2.040891e-03	-6.182758e-05	-4.933586e-04
##	1760	-4.350600e-02	-1.995426e-01	-5.433254e+00	-2.336063e-01	2.122212e-01
##	1761	6.594422e-02	-3.847190e-01	7.370165e-01	1.135796e-02	-7.316293e-02
##	1762	-7.071346e-01	1.677003e+00	-2.881757e+01	-1.809036e-01	5.149630e-01
##	1763	1.533942e+00	-1.072558e+01	1.550611e+01	-6.254994e-01	-7.281683e-01
##	1764	-2.758230e-03	1.654978e-02	3.833926e-02	1.262607e-02	-9.902517e-03
##	1765	8.237511e-04	-4.826219e-03	7.047623e-03	-2.690715e-04	-5.069914e-04
##	1767	4.804572e-02	-2.811625e-01	4.085641e-01	-1.605224e-02	-2.923413e-02

## 1770	5.217476e-02	-3.034155e-01	7.318527e-01	3.715382e-02	-8.575527e-02
## 1771	-1.460865e-01	5.442110e-01	1.988074e+00	5.515898e-01	-3.910044e-01
## 1772	-8.853935e-08	5.824571e-08	-5.877682e-06	-2.215984e-07	2.419098e-07
## 1774	-6.744801e-03	3.856065e-02	6.514831e-02	2.836384e-02	-2.197476e-02
## 1775	-1.307671e-02	-1.949284e-01	2.686503e-01	-1.368404e-02	4.031854e-02
## 1777	-3.778662e-02	2.270141e-01	7.716690e-01	2.219324e-01	-1.842953e-01
## 1778	-2.011314e-01	-2.717684e-01	3.167617e-01	-2.919104e-02	2.951389e-01
## 1779	-1.940445e+00	-4.605632e+00	5.831673e+00	-4.135845e-01	3.083920e+00
## 1780	1.397267e-03	-2.812256e-03	4.375942e-03	-1.099211e-04	-1.489871e-03
## 1781	-4.170242e-02	-3.288774e-02	3.286384e-02	-4.489301e-03	5.839409e-02
## 1783	4.189127e-04	-2.451439e-03	3.562270e-03	-1.399537e-04	-2.549016e-04
## 1784	1.607130e-04	-9.401941e-04	1.366350e-03	-5.365348e-05	-9.784471e-05
## 1785	7.050019e-05	-3.748000e-04	8.509217e-04	3.592633e-05	-1.036595e-04
## 1786	-1.012212e-01	-1.211184e-01	-8.812481e+00	-3.559104e-01	3.533410e-01
## 1787	-2.308072e-03	1.299212e-02	1.912466e-02	9.413789e-03	-7.256423e-03
## 1788	2.317941e-04	-1.357090e-03	1.964044e-03	-7.778903e-05	-1.407795e-04
## 1789	3.567953e-04	-2.087922e-03	3.034026e-03	-1.192012e-04	-2.171046e-04
## 1791	-4.103733e-03	2.521919e-02	1.468359e-01	3.579406e-02	-3.156223e-02
## 1793	1.391380e-01	5.621412e-02	-3.473055e-02	1.142581e-02	-1.884555e-01
## 1796	1.556921e-01	-3.496276e-03	5.404081e-02	8.367597e-03	-2.029596e-01
## 1797	2.386649e-04	-1.396611e-03	2.029466e-03	-7.973261e-05	-1.452279e-04
## 1799	-1.072077e-05	1.433063e-05	4.620102e-05	1.339989e-05	-5.809997e-07
## 1800	4.580118e-02	-2.680271e-01	3.894767e-01	-1.530230e-02	-2.786846e-02
## 1801	5.622087e-03	-8.184476e-02	4.751276e-01	6.205353e-02	-6.393690e-02
## 1802	-1.101885e-02	6.686901e-02	2.669530e-01	7.199387e-02	-6.088577e-02
## 1803	9.741909e-02	-6.308231e-01	1.516743e-01	-6.571749e-02	-3.444487e-02
## 1804	-4.800291e-01	-1.154917e+00	1.464438e+00	-1.033477e-01	7.647585e-01
## 1805	1.878833e-05	-1.775803e-05	4.134805e-05	1.835536e-06	-2.437972e-05
## 1806	5.130673e-04	-3.002464e-03	4.362952e-03	-1.714178e-04	-3.121828e-04
## 1807	2.316903e-01	-1.618900e+00	2.347577e+00	-9.316765e-02	-1.113286e-01
## 1809	4.076615e-04	-2.385571e-03	3.466563e-03	-1.361917e-04	-2.480599e-04
## 1810	1.593109e-04	-9.322268e-04	1.354649e-03	-5.322161e-05	-9.694274e-05
## 1813	1.580941e-02	-9.135378e-02	1.328037e-01	-5.204913e-03	-9.757932e-03
## 1814	3.025811e-04	-1.770633e-03	2.572964e-03	-1.010868e-04	-1.841200e-04

## 1815	1.705844e-01	-1.004422e+00	2.301364e+00	1.002796e-01	-2.587803e-01
## 1818	-1.076931e-03	-9.668276e-04	1.013449e-03	-1.236913e-04	1.521935e-03
## 1819	-3.261182e-04	1.338631e-03	-4.722705e-03	6.803869e-04	-4.460394e-04
## 1820	-1.553972e-04	-1.071801e-04	1.010405e-04	-1.569007e-05	2.157474e-04
## 1821	2.075158e-02	-1.129377e-02	2.235288e-02	3.948940e-04	-2.576054e-02
## 1823	-7.265382e-01	-5.258140e-01	5.063568e-01	-7.511583e-02	1.011757e+00
## 1824	-8.892902e-04	-9.411852e-04	1.036922e-03	-1.115984e-04	1.273745e-03
## 1825	3.051695e-05	-9.298824e-05	1.397409e-04	-4.500949e-06	-2.877527e-05
## 1826	1.029772e-01	4.161857e-02	-2.572401e-02	8.457268e-03	-1.394792e-01
## 1828	2.652684e-05	-2.289149e-04	-5.954862e-04	-4.910543e-05	1.398570e-05
## 1829	4.826299e-01	-2.825677e+00	4.105988e+00	-1.613369e-01	-2.935042e-01
## 1830	1.662699e-01	-9.704795e-01	1.791815e+00	1.603942e-02	-1.720049e-01
## 1832	1.161532e-04	-1.613139e-04	2.639342e-04	-4.024289e-06	-1.327807e-04
## 1834	8.602568e-01	-5.064733e+00	7.358042e+00	-2.894453e-01	-5.197961e-01
## 1835	-8.888144e-04	5.333139e-03	1.235805e-02	4.069348e-03	-3.191704e-03
## 1838	-3.544182e-01	-1.037577e+00	1.339911e+00	-8.860224e-02	5.866842e-01
## 1839	1.087313e-02	-1.027739e-01	1.474961e+00	2.423653e-01	-2.474577e-01
## 1840	2.751964e-04	-1.610418e-03	2.340146e-03	-9.194108e-05	-1.674516e-04
## 1841	3.353607e-01	-2.001249e+00	7.965369e+00	8.326933e-01	-1.134967e+00
## 1842	1.068193e-01	-6.250910e-01	9.083355e-01	-3.568780e-02	-6.499743e-02
## 1843	4.198827e-03	-2.190094e-02	4.441045e-01	7.601085e-02	-7.915512e-02
## 1844	2.589800e-02	-1.507510e-01	2.191033e-01	-8.599148e-03	-1.585384e-02
## 1846	1.743602e-01	-1.016863e+00	2.002321e+00	4.018554e-02	-2.034940e-01
## 1847	-2.535510e+00	-1.024940e+00	6.336658e-01	-2.082489e-01	3.434287e+00
## 1848	4.636675e-04	-2.712699e-03	3.943012e-03	-1.546644e-04	-2.824069e-04
## 1850	-9.828123e-04	5.885690e-04	-6.589023e-02	-2.491514e-03	2.709016e-03
## 1852	1.031235e-04	3.635594e-05	-1.822711e-05	8.131575e-06	-1.390588e-04
## 1853	-5.865255e-02	2.202592e-01	2.735440e+00	5.847651e-01	-5.158658e-01
## 1856	-1.817809e-03	1.094601e-02	3.104146e-02	9.415097e-03	-7.608612e-03
## 1858	8.139884e-02	-5.055136e-01	3.827450e+00	5.502646e-01	-6.182427e-01
## 1859	-4.535844e-02	1.846229e-02	-3.137874e+00	-1.197333e-01	1.285767e-01
## 1861	1.708727e-01	-1.000866e+00	1.454334e+00	-5.715049e-02	-1.038600e-01
## 1862	1.166111e-05	-1.188460e-05	2.910739e-05	1.500675e-06	-1.544218e-05
## 1863	5.462785e-02	-1.345299e-02	3.606808e-02	2.122515e-03	-6.975475e-02

## 1864	1.694445e-04	-9.915516e-04	1.440855e-03	-5.660867e-05	-1.031061e-04
## 1865	-2.386581e-08	1.392130e-07	-2.017418e-07	8.051643e-09	1.446853e-08
## 1867	-3.471130e-03	-1.669660e-03	1.240589e-03	-3.027879e-04	4.733304e-03
## 1868	7.007698e-02	-3.915817e-01	3.531775e+00	5.323746e-01	-5.925033e-01
## 1869	1.087373e-03	-1.628758e-03	2.622878e-03	-4.816976e-05	-1.226316e-03
## 1870	-1.940445e+00	-4.605632e+00	5.831673e+00	-4.135845e-01	3.083920e+00
## 1872	1.659973e-04	-9.713110e-04	1.411463e-03	-5.544926e-05	-1.010199e-04
## 1873	-2.903909e-02	2.162390e-02	-1.899678e+00	-7.130433e-02	7.831212e-02
## 1875	-2.289544e-03	1.373223e-02	3.178570e-02	1.047158e-02	-8.210645e-03
## 1876	3.626281e-04	-2.122092e-03	3.083667e-03	-1.211545e-04	-2.206472e-04
## 1877	9.068363e-04	3.000989e-04	-1.336222e-04	7.005842e-05	-1.220361e-03
## 1878	3.451694e-01	-2.019978e+00	2.935885e+00	-1.152119e-01	-2.101296e-01
## 1879	2.709236e-04	-1.585390e-03	2.303780e-03	-9.051148e-05	-1.648550e-04
## 1880	-2.776773e+00	-6.964060e-01	2.023954e+00	1.609278e-01	3.354108e+00
## 1881	7.137745e-04	-4.176967e-03	6.069699e-03	-2.384641e-04	-4.343183e-04
## 1885	1.039676e-01	-6.084166e-01	8.841050e-01	-3.473592e-02	-6.326062e-02
## 1887	1.841640e-01	-1.076921e+00	1.564942e+00	-6.147647e-02	-1.121530e-01
## 1890	-1.046389e-03	-1.824161e-03	2.223447e-03	-1.788956e-04	1.584123e-03
## 1891	2.756336e-04	-1.612985e-03	2.343872e-03	-9.208815e-05	-1.677162e-04
## 1892	3.943965e-04	-2.308000e-03	3.353815e-03	-1.317682e-04	-2.399774e-04
## 1894	6.138472e-02	2.480914e-02	-1.533453e-02	5.041398e-03	-8.314357e-02
## 1895	-1.283293e+00	-2.149072e+00	2.601852e+00	-2.138643e-01	1.932590e+00
## 1896	5.914173e-04	-3.456264e-03	5.046421e-03	-1.928281e-04	-3.648152e-04
## 1897	-6.979795e-04	4.188167e-03	9.718638e-03	3.198271e-03	-2.509036e-03
## 1899	-3.604190e-06	2.682692e-06	-2.357917e-04	-8.850577e-06	9.720189e-06
## 1900	4.242546e-01	-2.833369e+00	4.124456e+00	-1.601803e-01	-2.211649e-01
## 1901	1.399496e-10	-1.299876e-09	-4.136058e-09	-3.028472e-10	1.049467e-10
## 1902	9.694154e-02	-6.124657e-02	1.162975e-01	1.280076e-03	-1.193290e-01
## 1903	5.685825e-02	-3.307459e-01	8.104231e-01	4.286850e-02	-9.579802e-02
## 1905	9.169883e-05	3.248245e-05	-1.643354e-05	7.239112e-06	-1.236696e-04
## 1906	1.202421e-04	-2.774497e-04	4.293959e-04	-1.121132e-05	-1.245834e-04
## 1907	4.764053e-03	1.636474e-03	-7.858033e-04	3.720371e-04	-6.418296e-03
## 1908	3.419842e-02	-2.275526e-01	3.588176e+00	5.969595e-01	-6.201566e-01
## 1909	3.555959e-05	1.384557e-05	-7.986274e-06	2.915523e-06	-4.813127e-05

## 1910	3.599073e-04	-2.106156e-03	3.060516e-03	-1.202436e-04	-2.189943e-04
## 1911	-1.320773e-05	5.604602e-05	1.373663e-04	4.418322e-05	-3.010178e-05
## 1913	-1.877287e-02	-2.554149e-02	2.981129e-02	-2.736235e-03	2.756808e-02
## 1915	2.080431e-04	-1.217436e-03	1.769092e-03	-6.950505e-05	-1.265912e-04
## 1916	2.938087e-01	-1.743430e+00	3.947184e+00	1.651907e-01	-4.375604e-01
## 1917	-2.311605e-02	1.531108e-01	2.485957e+00	5.158558e-01	-4.887006e-01
## 1918	2.624079e-01	-1.525275e+00	4.131766e+00	2.715399e-01	-5.149614e-01
## 1919	3.350618e-02	-2.602477e-01	-4.306471e-01	-4.626161e-02	5.861743e-03
## 1920	-5.136775e+00	-7.178953e+00	8.423221e+00	-7.613473e-01	7.566048e+00
## 1921	3.504440e-05	-1.878128e-04	2.738467e-04	-1.055970e-05	-2.338217e-05
## 1923	6.645237e-02	-6.427547e-01	9.139576e-01	-3.932622e-02	-1.002443e-02
## 1924	2.451428e-01	-1.430627e+00	2.873256e+00	6.705785e-02	-2.964796e-01
## 1925	9.249756e-06	-5.397138e-05	7.844028e-05	-3.078995e-06	-5.647849e-06
## 1927	3.116592e-02	-1.795193e-01	2.509894e-01	-1.060566e-02	-1.907319e-02
## 1929	1.108280e-03	-2.526917e-03	3.885895e-03	-1.068213e-04	-1.146477e-03
## 1930	3.635382e-02	-2.391298e-01	1.451796e-02	-2.657998e-02	-1.131766e-02
## 1932	6.639225e-02	-4.177459e-01	3.725847e+00	5.601315e-01	-6.139017e-01
## 1933	4.524045e-04	-2.647432e-03	3.847081e-03	-1.511418e-04	-2.752818e-04
## 1934	2.528198e-02	-1.479793e-01	2.140145e-01	-8.487562e-03	-1.535626e-02
## 1935	1.560138e-01	1.169293e-02	3.288992e-02	9.395929e-03	-2.051910e-01
## 1937	-2.664363e-03	1.559123e-02	-2.265382e-02	8.905473e-04	1.620832e-03
## 1938	-1.658802e+00	9.709175e+00	-1.408370e+01	5.552875e-01	1.008523e+00
## 1939	1.195667e-01	-8.756087e-01	3.316168e+00	3.328044e-01	-4.314488e-01
## 1940	1.555773e-04	-9.103367e-04	1.322862e-03	-5.196782e-05	-9.467947e-05
## 1943	-9.088514e-02	3.853487e-01	2.398687e+00	5.760707e-01	-4.757721e-01
## 1944	6.508957e-04	-3.809028e-03	5.535062e-03	-2.174532e-04	-3.960602e-04
## 1945	2.517663e-03	-1.721733e-02	2.515108e-02	-9.565915e-04	-1.284920e-03
## 1949	3.534146e-01	-2.058663e+00	8.543062e+00	9.219284e-01	-1.242616e+00
## 1951	1.788684e-04	-1.046710e-03	1.521004e-03	-5.975814e-05	-1.088387e-04
## 1952	1.850391e-02	6.323761e-03	-3.064828e-03	1.440658e-03	-2.492392e-02
## 1954	-2.201792e-03	-5.636376e-03	7.191569e-03	-4.965601e-04	3.548182e-03
## 1955	7.069435e-02	-3.995867e-01	2.717282e+00	3.772378e-01	-4.396407e-01
## 1956	6.152356e-02	-3.504029e-01	1.978615e+00	2.551237e-01	-3.101997e-01
## 1957	5.945709e-04	-3.448499e-03	6.093455e-03	5.755857e-06	-5.652918e-04

##	1958	-7.058330e-01	-2.853164e-01	1.763916e-01	-5.797178e-02	9.560331e-01
##	1959	-9.210723e-02	-6.430398e-02	6.089781e-02	-9.365863e-03	1.279848e-01
##	1960	-7.667562e-02	2.983372e-01	2.522058e+00	5.705311e-01	-4.834293e-01
##	1962	5.804746e-05	2.346051e-05	-1.450055e-05	4.767418e-06	-7.862348e-05
##	1963	-2.379096e-02	1.140504e-01	2.496864e+00	5.050687e-01	-4.751116e-01
##	1965	2.271359e-04	-1.329173e-03	1.931459e-03	-7.588458e-05	-1.382076e-04
##	1966	7.885353e-01	-4.634268e+00	6.733101e+00	-2.647677e-01	-4.774382e-01
##	1968	5.609300e-05	-1.808997e-04	2.934591e-04	-4.697901e-06	-5.588817e-05
##	1970	2.903200e-04	1.173377e-04	-7.251970e-05	2.384516e-05	-3.932308e-04
##	1971	2.898255e-04	-1.696033e-03	2.464552e-03	-9.682932e-05	-1.763520e-04
##	1972	3.417018e-01	-2.489647e+00	3.591351e+00	-1.467619e-01	-1.494858e-01
##	1973	1.083970e-01	-6.331160e-01	1.103423e+00	-1.802333e-03	-1.000065e-01
##	1975	-1.715608e-01	-1.397655e+01	1.950348e+01	-9.389987e-01	1.890358e+00
##	1978	1.224278e-01	-7.276447e-01	2.046695e+00	1.437066e-01	-2.562069e-01
##	1979	-3.159049e-09	-3.647635e-09	-2.734991e-07	-1.102977e-08	1.096834e-08
##	1982	-8.343404e-07	5.011297e-06	1.153700e-05	3.817942e-06	-2.995196e-06
##	1984	6.892093e-06	-4.033245e-05	5.860841e-05	-2.302608e-06	-4.193655e-06
##	1986	-5.513958e-02	-1.182316e-01	-5.620978e+00	-2.314840e-01	2.192985e-01
##	1987	-1.169164e-01	7.090439e-01	2.781985e+00	7.545939e-01	-6.368519e-01
##	1988	1.151283e-03	-1.999106e-03	3.160801e-03	-6.936085e-05	-1.265558e-03
##	1989	4.118508e-04	-2.409977e-03	3.502137e-03	-1.375648e-04	-2.506410e-04
##	1990	1.315300e-04	-7.696780e-04	1.118444e-03	-4.394157e-05	-8.003614e-05
##	1991	1.843962e-01	-1.812406e+00	2.591300e+00	-1.104654e-01	-2.473156e-02
##	1994	-4.013095e+00	-8.154005e+00	1.014223e+01	-7.641469e-01	6.214481e+00
##	1995	1.008386e-04	-5.899129e-04	8.572699e-04	-3.366969e-05	-6.138759e-05
##	1997	5.724290e-02	-9.739219e-03	3.169736e-02	2.514049e-03	-7.361356e-02
##	1998	-1.466122e-01	8.797056e-01	2.037007e+00	6.709680e-01	-5.262015e-01
##	2002	3.240965e-01	-1.919229e+00	7.050445e+00	6.883722e-01	-9.827329e-01
##	2004	1.269967e-07	5.281649e-08	-2.855276e-08	1.151334e-08	-1.731624e-07
##	2005	-1.320642e-01	4.745420e-01	2.135587e+00	5.562686e-01	-4.094470e-01
##	2006	6.189772e-02	-3.609472e-01	5.115523e-01	-2.109304e-02	-3.751431e-02
##	2007	2.483462e-04	-1.453298e-03	2.111827e-03	-8.297123e-05	-1.511129e-04
##	2008	1.476456e-02	-8.021389e-02	1.059906e+00	1.720520e-01	-1.840985e-01
##	2009	1.654670e-01	4.887200e-02	-1.614611e-02	1.239169e-02	-2.219728e-01

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## 2010 7.280413e-02 -4.142108e-01 2.382913e+00 3.098186e-01 -3.749182e-01
## 2011 4.050958e-01 -2.370617e+00 3.444801e+00 -1.353441e-01 -2.464861e-01
## 2013 5.944246e-02 1.749335e-02 -5.711555e-03 4.447378e-03 -7.973408e-02
## 2017 4.536997e-05 -2.636825e-04 3.837812e-04 -1.493979e-05 -2.791931e-05
## 2018 -2.786705e-02 -3.276820e-01 -6.412711e+00 -2.857031e-01 2.338731e-01
## 2019 1.526668e-04 -8.933091e-04 1.298116e-03 -5.099607e-05 -9.290769e-05
## 2020 -2.223808e-01 5.926769e-01 -8.092790e+00 2.736654e-02 8.693890e-02
## 2021 6.997716e-03 -7.416868e-02 3.270673e+00 5.880043e-01 -5.854772e-01
## 2022 3.479816e-02 -2.056472e-01 2.730166e-01 -1.274274e-02 -2.034043e-02
## 2023 -5.298745e+00 -3.672338e+00 3.465580e+00 -5.370168e-01 7.359508e+00
## 2025 5.203260e-10 -3.591189e-09 -1.635513e-09 -4.667837e-10 -9.862751e-11
## 2026 1.602181e-01 -9.164406e-01 5.478448e+00 7.240957e-01 -8.665703e-01
## 2027 -2.982488e-03 -1.696482e-03 -2.387682e-01 -9.463229e-03 9.645016e-03
## 2028 -2.500266e-04 1.558284e-03 6.459377e-03 1.722329e-03 -1.471367e-03
## 2029 4.885802e-04 -2.339848e-03 3.428519e-03 -1.286077e-04 -3.592853e-04
## 2030 -1.298092e-03 -2.283969e-01 -6.834211e-01 -5.360391e-02 5.207848e-02
## 2031 3.752647e-02 -2.429597e-01 5.757366e-02 -2.534276e-02 -1.325454e-02
## 2032 -1.627135e-04 9.763101e-04 2.259728e-03 7.444682e-04 -5.838050e-04
## 2033 2.413141e-06 -1.411809e-05 2.106257e-05 -7.035733e-07 -1.569890e-06
## 2034 1.534075e-01 -8.977041e-01 1.310510e+00 -5.012221e-02 -9.446254e-02
## 2035 1.480503e-04 -8.654516e-04 1.258204e-03 -4.929980e-05 -9.029573e-05
## 2036 2.411336e-01 -1.374794e+00 8.199063e+00 1.082613e+00 -1.297371e+00
## 2037 1.165958e-06 -7.981072e-07 1.534306e-06 2.058243e-08 -1.437052e-06
## 2038 -2.605435e-07 1.613788e-06 3.725257e-06 1.228670e-06 -9.736566e-07
## 2039 7.490287e-05 2.458930e-05 -1.020330e-05 5.877641e-06 -1.008786e-04
## 2041 9.765765e-05 3.373309e-05 -1.619499e-05 7.671573e-06 -1.316224e-04
## 2042 -1.340042e-01 5.012441e-01 2.689515e+00 6.687647e-01 -5.195448e-01
## 2043 5.614174e-05 -3.317656e-04 4.414761e-04 -2.051834e-05 -3.284181e-05
## 2044 1.018362e-01 -5.825213e-01 2.874368e+00 3.464336e-01 -4.384065e-01
## 2046 1.002667e-04 -5.361668e-04 8.452435e-04 -1.826301e-05 -7.876427e-05
## 2047 -9.889840e-03 7.283334e-03 -6.478770e-01 -2.432841e-02 2.670391e-02
## 2048 -8.166749e-03 -3.696680e-03 2.594403e-03 -6.970353e-04 1.110878e-02
## 2049 -2.762611e-01 1.629824e+00 5.900665e+00 1.641319e+00 -1.362357e+00
## 2051 2.260955e-05 -1.117754e-04 1.635313e-04 -6.187685e-06 -1.620579e-05

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## 2053	9.529026e-02	-5.575459e-01	8.101883e-01	-3.183075e-02	-5.799160e-02
## 2054	-5.181156e-03	-3.492289e-03	3.251315e-03	-5.184423e-04	7.184336e-03
## 2055	1.001290e-03	-5.859537e-03	8.514634e-03	-3.345349e-04	-6.092486e-04
## 2056	-3.446998e-02	-1.844974e-01	2.472833e-01	-1.417528e-02	6.702363e-02
## 2058	1.544620e-04	-1.034616e-03	-2.057879e-04	-1.253955e-04	-3.909204e-05
## 2061	4.483875e-04	-2.623820e-03	3.812814e-03	-1.497855e-04	-2.728572e-04
## 2064	-7.732519e-05	5.780400e-05	-5.055960e-03	-1.897466e-04	2.084376e-04
## 2065	-7.352659e-02	-1.759557e-01	-7.396551e+00	-3.071504e-01	2.929801e-01
## 2066	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
## 2067	1.809165e-06	-7.262669e-06	1.077764e-05	-3.748840e-07	-1.505515e-06
## 2068	1.054258e-01	-6.036581e-01	2.866200e+00	3.379467e-01	-4.333867e-01
## 2069	-3.862895e-01	-1.284000e+00	1.674663e+00	-1.067534e-01	6.576969e-01
## 2070	1.464743e-04	-8.569965e-04	1.245380e-03	-4.891729e-05	-8.915343e-05
## 2071	3.590959e-04	-2.101420e-03	3.053629e-03	-1.199743e-04	-2.184981e-04
## 2072	-1.331320e-01	8.031866e-01	2.614946e+00	7.554277e-01	-6.225286e-01
## 2073	4.039294e-02	-3.906144e-02	6.740523e-02	-3.675749e-04	-4.810642e-02
## 2074	-9.217534e-02	5.530810e-01	1.282018e+00	4.220941e-01	-3.310764e-01
## 2076	9.650794e-02	-5.647134e-01	8.206014e-01	-3.224034e-02	-5.872756e-02
## 2077	-9.167189e-02	2.021799e-01	1.263809e+00	3.034073e-01	-1.957094e-01
## 2078	3.313230e-02	-1.994462e-01	1.103856e+00	1.410360e-01	-1.700755e-01
## 2081	3.505717e-06	-1.954812e-05	2.848586e-05	-1.101705e-06	-2.253593e-06
## 2082	-3.159049e-09	-3.647635e-09	-2.734991e-07	-1.102977e-08	1.096834e-08
## 2083	2.818886e-07	-2.442734e-07	4.332171e-07	-2.224214e-10	-3.395484e-07
## 2084	7.098446e-06	6.169122e-07	1.377667e-06	4.331522e-07	-9.346076e-06
## 2085	1.399328e-01	-8.270283e-01	3.297450e+00	3.451799e-01	-4.717640e-01
## 2090	-4.130508e+00	-4.479137e+00	4.963255e+00	-5.261576e-01	5.929671e+00
## 2091	6.716032e-04	-2.976255e-03	4.383507e-03	-1.595726e-04	-5.237268e-04
## 2092	-3.055394e-04	1.833418e-03	4.262522e-03	1.401592e-03	-1.099864e-03
## 2093	-8.777475e-04	5.266660e-03	1.219768e-02	4.017502e-03	-3.150803e-03
## 2094	-4.770659e-01	1.071148e+00	-2.034141e+01	-2.007812e-01	4.176132e-01
## 2095	2.070216e-01	-1.202129e+00	3.616994e+00	2.815261e-01	-4.727960e-01
## 2096	-1.540441e-03	-1.305511e-03	-1.281534e-01	-5.123983e-03	5.158221e-03
## 2097	4.005664e-03	-7.519179e-02	-3.805934e-01	-2.340197e-02	1.497512e-02
## 2098	-4.416810e+00	-7.626664e+00	9.276880e+00	-7.513734e-01	6.678972e+00

## 2100	-1.199027e-04	7.193989e-04	1.670561e-03	5.497388e-04	-4.313454e-04
## 2101	1.053553e-05	-5.537915e-05	8.174869e-05	-2.926975e-06	-7.332039e-06
## 2104	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 2105	-1.814416e-09	-4.425834e-09	-1.830482e-07	-7.605864e-09	7.250569e-09
## 2107	2.536908e-06	-3.605560e-07	1.305334e-06	1.161468e-07	-3.270903e-06
## 2110	9.324678e-02	-5.444686e-01	7.912453e-01	-3.107360e-02	-5.688161e-02
## 2112	-5.275830e-02	3.286511e-01	2.554632e+00	5.864962e-01	-5.307566e-01
## 2113	2.803091e-04	-1.640345e-03	2.383630e-03	-9.365014e-05	-1.705613e-04
## 2114	-2.551204e-02	2.350657e-02	-1.566389e+00	-5.503152e-02	6.232873e-02
## 2116	-5.744285e-02	-5.630977e-02	6.065436e-02	-6.919366e-03	8.175057e-02
## 2117	5.595165e-06	-3.274284e-05	4.757977e-05	-1.869297e-06	-3.404523e-06
## 2118	1.708988e-05	-9.005369e-05	1.318237e-04	-4.967361e-06	-1.166481e-05
## 2119	1.666129e-02	-9.622234e-02	1.398788e-01	-5.481991e-03	-1.029004e-02
## 2121	-4.129121e-03	2.965607e-03	-2.713348e-01	-1.019850e-02	1.117996e-02
## 2122	2.192053e-04	-1.282765e-03	1.864021e-03	-7.323518e-05	-1.333818e-04
## 2123	4.405291e-01	-2.580114e+00	3.774645e+00	-1.425438e-01	-2.725123e-01
## 2124	-5.795937e-02	-3.677935e-04	-4.276810e+00	-1.660976e-01	1.741054e-01
## 2127	9.350066e-02	-5.471116e-01	7.950240e-01	-3.123540e-02	-5.689810e-02
## 2128	1.323424e-01	-7.737488e-01	1.124391e+00	-4.416841e-02	-8.061108e-02
## 2129	3.196681e-04	-1.870664e-03	2.718317e-03	-1.067988e-04	-1.945116e-04
## 2130	-4.950032e-01	-6.014885e-01	6.853308e-01	-6.736076e-02	7.183325e-01
## 2132	1.839567e-01	-1.074069e+00	6.489556e+00	8.615397e-01	-1.023579e+00
## 2137	1.705612e-01	-9.971753e-01	1.448251e+00	-5.695350e-02	-1.038743e-01
## 2139	1.126728e-03	-3.206648e-04	8.017841e-04	4.080747e-05	-1.433520e-03
## 2140	2.850398e-04	-1.668028e-03	2.423858e-03	-9.523057e-05	-1.734399e-04
## 2141	3.693990e-04	-2.161690e-03	3.141219e-03	-1.234132e-04	-2.247719e-04
## 2142	1.073848e-04	-8.293799e-05	1.499719e-04	4.189308e-07	-1.303893e-04
## 2145	-1.940445e+00	-4.605632e+00	5.831673e+00	-4.135845e-01	3.083920e+00
## 2146	2.850398e-04	-1.668028e-03	2.423858e-03	-9.523057e-05	-1.734399e-04
## 2147	4.746384e-03	-8.282971e-02	1.708151e+00	2.926031e-01	-2.904694e-01
## 2149	8.063474e-05	3.161469e-05	-1.855177e-05	6.600233e-06	-1.091431e-04
## 2151	7.951260e-05	-3.151228e-04	4.964231e-04	-1.087974e-05	-7.191187e-05
## 2154	-1.030859e-01	3.981875e-01	1.987632e+00	5.033701e-01	-3.893914e-01
## 2155	1.237963e-03	-7.244543e-03	1.052722e-02	-4.136082e-04	-7.532553e-04

## 2156	-8.975961e-04	-4.678525e-04	3.714600e-04	-8.067085e-05	1.228257e-03
## 2157	2.894477e-01	-1.692882e+00	2.609537e+00	-6.864602e-02	-2.038805e-01
## 2158	-2.482411e-02	-3.865463e-02	-2.265643e+00	-9.235315e-02	9.042330e-02
## 2159	2.117578e-01	-1.234522e+00	2.506866e+00	6.300729e-02	-2.611899e-01
## 2161	4.923103e-04	-2.880891e-03	4.186298e-03	-1.644760e-04	-2.995651e-04
## 2163	-1.702159e-03	-1.997985e-02	2.742203e-02	-1.422574e-03	4.605213e-03
## 2164	7.694664e-02	-5.223083e-01	-1.489878e-01	-6.507269e-02	-1.735469e-02
## 2166	2.539239e-02	-1.485538e-01	2.144772e-01	-8.534092e-03	-1.542326e-02
## 2167	4.927486e-03	-2.883559e-02	4.190169e-02	-1.646293e-03	-2.998196e-03
## 2168	-9.242503e-02	4.313027e-01	1.815661e+00	4.820079e-01	-3.834124e-01
## 2169	4.962324e-04	-2.903919e-03	4.219756e-03	-1.657914e-04	-3.019426e-04
## 2170	1.457414e-07	6.123017e-08	-3.145084e-08	1.366218e-08	-1.991981e-07
## 2171	8.832681e-06	-5.156072e-05	7.493467e-05	-2.941834e-06	-5.390305e-06
## 2172	5.523350e-02	2.220723e-02	-1.363580e-02	4.528504e-03	-7.479814e-02
## 2173	3.123342e-02	-1.830699e-01	2.603183e-01	-1.067220e-02	-1.883820e-02
## 2174	-1.440152e-01	-7.130267e+00	9.898347e+00	-4.835440e-01	1.039060e+00
## 2176	1.383306e-04	-8.093615e-04	1.176149e-03	-4.619985e-05	-8.419382e-05
## 2177	3.214470e-01	-2.022990e+00	8.086617e+00	8.483071e-01	-1.131806e+00
## 2179	2.031837e-01	-1.188209e+00	1.850943e+00	-4.455937e-02	-1.467087e-01
## 2180	6.857745e-04	-4.013144e-03	5.831596e-03	-2.291199e-04	-4.172689e-04
## 2182	1.466927e-04	-6.202690e-04	9.290137e-04	-3.038621e-05	-1.204016e-04
## 2183	1.996864e-04	-1.167177e-03	1.697355e-03	-6.639396e-05	-1.218942e-04
## 2184	-1.153456e-02	-7.895834e-02	1.068967e-01	-5.878954e-03	2.447126e-02
## 2185	-1.608455e-01	-1.341719e-01	1.372006e-01	-1.776555e-02	2.260619e-01
## 2186	2.791248e-05	6.904254e-06	2.961683e-07	2.215595e-06	-3.749636e-05
## 2189	9.577985e-01	-5.611740e+00	8.156794e+00	-3.199637e-01	-5.824662e-01
## 2190	-5.698692e-01	-6.185918e+00	-3.130524e+00	-8.868353e-01	1.750010e+00
## 2191	-2.196041e+00	-1.271035e+00	1.085170e+00	-2.058685e-01	3.020191e+00
## 2192	1.069655e+00	-6.490647e+00	9.497902e+00	-3.580211e-01	-6.378390e-01
## 2194	1.838015e-10	-1.118991e-09	1.098999e-09	-8.119465e-11	-9.798478e-11
## 2195	8.472642e-06	-4.941439e-05	7.181427e-05	-2.819605e-06	-5.175257e-06
## 2196	2.677794e-04	-7.915631e-04	1.195749e-03	-3.718380e-05	-2.560845e-04
## 2197	9.942228e-02	-5.807681e-01	8.439843e-01	-3.314754e-02	-6.062004e-02
## 2198	5.013434e-02	-2.923119e-01	4.248234e-01	-1.667865e-02	-3.063295e-02

## 2199	1.214265e-04	-4.521201e-04	5.808077e-04	-2.673105e-05	-1.027187e-04
## 2200	2.710135e-04	-1.585949e-03	2.304585e-03	-9.054469e-05	-1.649049e-04
## 2201	2.560356e-04	1.034790e-04	-6.396018e-05	2.102771e-05	-3.467918e-04
## 2203	7.174509e-05	-4.197278e-04	6.099405e-04	-2.395884e-05	-4.367224e-05
## 2207	6.901774e-02	-3.906586e-01	2.576066e+00	3.537363e-01	-4.148109e-01
## 2209	-2.238377e-01	-3.669152e+00	5.064646e+00	-2.561981e-01	7.296371e-01
## 2210	7.713635e-02	-4.514010e-01	6.559417e-01	-2.577156e-02	-4.693467e-02
## 2213	2.752880e-02	-1.612395e-01	2.323289e-01	-9.281826e-03	-1.668826e-02
## 2214	1.844901e-01	-7.008037e-01	1.005753e+00	-3.766613e-02	-1.567003e-01
## 2215	1.744259e-04	-1.023383e-03	1.413975e-03	-6.124335e-05	-1.041312e-04
## 2216	8.657600e-06	-5.034246e-05	7.317456e-05	-2.870504e-06	-5.306819e-06
## 2218	-8.001316e-02	4.302307e-01	5.530146e-01	3.383462e-01	-2.661908e-01
## 2219	-1.877287e-02	-2.554149e-02	2.981129e-02	-2.736235e-03	2.756808e-02
## 2220	1.933285e-02	-2.427948e-01	-1.282873e+00	-7.736893e-02	4.130766e-02
## 2221	4.850925e-04	-2.838652e-03	4.125002e-03	-1.620490e-04	-2.951888e-04
## 2222	3.465900e-02	-9.073034e-02	1.378892e-01	-4.121927e-03	-3.445516e-02
## 2223	1.126487e-01	-6.586564e-01	9.571406e-01	-3.759881e-02	-6.860981e-02
## 2224	-9.917439e-03	-1.363775e-02	1.595149e-02	-1.455062e-03	1.458100e-02
## 2225	4.124799e-02	-2.413743e-01	3.531548e-01	-1.332977e-02	-2.554409e-02
## 2226	1.303626e-04	-7.627008e-04	1.108356e-03	-4.353375e-05	-7.935121e-05
## 2227	2.549968e-05	-2.572099e-05	1.330343e-04	1.659503e-05	-4.695307e-05
## 2229	2.315110e-02	-1.606164e-01	1.739920e+00	2.729265e-01	-2.899104e-01
## 2230	5.135027e-04	-3.004663e-03	4.366661e-03	-1.714476e-04	-3.125808e-04
## 2231	-4.260250e-02	-5.612088e-02	6.507500e-02	-6.087013e-03	6.234246e-02
## 2234	1.077259e-01	-6.178778e-01	2.792137e+00	3.193989e-01	-4.171874e-01
## 2235	1.148563e-03	-2.259939e-03	3.525578e-03	-8.673698e-05	-1.231029e-03
## 2236	1.078670e-03	-1.169748e-03	1.977540e-03	-1.817791e-05	-1.269617e-03
## 2237	-3.641591e-01	2.887815e-01	1.377629e+00	3.542227e-01	9.054905e-02
## 2238	-8.968509e-01	-5.666022e-01	5.096663e-01	-8.723666e-02	1.239095e+00
## 2241	8.234931e-02	-6.500232e-01	9.372379e-01	-3.837202e-02	-3.038206e-02
## 2242	1.195223e-04	1.704487e-06	3.835847e-05	7.282020e-06	-1.568917e-04
## 2245	2.402329e-06	1.031199e-06	-4.157616e-07	2.516203e-07	-3.310748e-06
## 2246	4.556241e-04	-2.666258e-03	3.874448e-03	-1.522149e-04	-2.772441e-04
## 2248	-1.140530e-02	2.149967e-02	1.312293e+00	2.528192e-01	-2.365487e-01

## 2249	2.413033e-01	-1.411864e+00	2.188169e+00	-5.503838e-02	-1.721009e-01
## 2250	1.189557e-01	-1.386415e+01	1.943633e+01	-9.155387e-01	1.497503e+00
## 2251	2.607148e-02	-1.518007e-01	2.189225e-01	-8.724570e-03	-1.591593e-02
## 2252	1.655335e+00	-9.687198e+00	1.408302e+01	-5.518813e-01	-1.008359e+00
## 2253	-1.996275e-02	-2.477550e-02	2.836550e-02	-2.750701e-03	2.903076e-02
## 2254	-6.088151e-04	-5.639417e-03	7.699128e-03	-4.086876e-04	1.467601e-03
## 2258	-7.945465e-02	-1.628397e-02	-6.038860e+00	-2.363194e-01	2.451295e-01
## 2259	4.870894e-03	-6.371377e-02	5.030942e-01	7.324912e-02	-7.502364e-02
## 2260	3.241149e-07	-1.236460e-06	1.835365e-06	-6.379499e-08	-2.765013e-07
## 2263	-3.969884e-03	2.844132e-03	-2.609501e-01	-9.809081e-03	1.075172e-02
## 2266	3.500524e-02	-3.348366e-01	1.529397e+00	1.762290e-01	-1.999264e-01
## 2269	5.178811e-01	-3.051760e+00	4.433447e+00	-1.744316e-01	-3.125928e-01
## 2270	8.882620e-06	-3.981177e-05	5.850790e-05	-2.158080e-06	-6.855849e-06
## 2271	-1.443027e-08	1.708381e-07	3.797603e-07	1.272841e-07	-1.167844e-07
## 2272	-2.740469e-01	1.617053e+00	5.878197e+00	1.632908e+00	-1.356138e+00
## 2273	1.075521e-02	-8.032282e-02	1.161303e-01	-4.684557e-03	-4.535831e-03
## 2275	3.283233e-04	-1.921337e-03	2.791945e-03	-1.096928e-04	-1.997745e-04
## 2276	3.169193e-06	-1.751015e-05	1.834799e-04	2.858999e-05	-3.126377e-05
## 2277	-5.454348e+00	-7.014895e+00	8.093309e+00	-7.679959e-01	7.961343e+00
## 2278	1.441412e-06	9.819768e-07	5.888100e-07	4.272628e-07	-2.278769e-06
## 2280	-1.218633e-01	1.953663e-01	2.437675e+00	5.210789e-01	-3.725170e-01
## 2281	2.898255e-04	-1.696033e-03	2.464552e-03	-9.682932e-05	-1.763520e-04
## 2284	-1.437236e+00	-9.434617e-01	8.663752e-01	-1.421592e-01	1.989923e+00
## 2285	-9.905801e-08	6.567539e-08	-6.570295e-06	-2.476492e-07	2.704437e-07
## 2286	-9.695529e-06	5.822832e-05	1.427230e-04	4.588952e-05	-3.630000e-05
## 2287	6.764310e-04	-3.958217e-03	5.764496e-03	-2.236033e-04	-4.139622e-04
## 2288	-4.574471e-02	-2.996839e-01	4.049396e-01	-2.245252e-02	9.547773e-02
## 2289	1.505879e-05	-8.678270e-05	1.366593e-04	-2.979542e-06	-1.126067e-05
## 2290	-3.395205e-02	-2.722731e-01	3.702764e-01	-1.998363e-02	7.681086e-02
## 2293	-8.534302e-02	-1.639655e-01	-8.690522e+00	-3.557030e-01	3.363914e-01
## 2294	1.099913e-01	-6.408971e-01	9.328052e-01	-3.631092e-02	-6.750617e-02
## 2295	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
## 2298	-2.125216e+00	-1.132111e+00	9.131387e-01	-1.927151e-01	2.911111e+00
## 2301	7.140190e-04	-4.177406e-03	6.076108e-03	-2.374093e-04	-4.356425e-04

## 2303	5.459010e-03	-1.632599e-01	2.302340e-01	-1.054528e-02	1.232174e-02
## 2304	1.872718e-04	7.569408e-05	-4.676831e-05	1.538505e-05	-2.536586e-04
## 2306	-1.013348e-08	9.473225e-10	-7.364267e-07	-2.848307e-08	3.002253e-08
## 2307	-3.838019e+00	-5.979498e+00	7.154906e+00	-6.098144e-01	5.726500e+00
## 2308	1.099187e-01	-5.985129e-01	8.721265e-01	-3.374827e-02	-7.221534e-02
## 2310	-8.349113e-01	-1.397330e+00	1.691585e+00	-1.390797e-01	1.257239e+00
## 2312	7.152774e-02	-4.180152e-01	6.074584e-01	-2.386016e-02	-4.358932e-02
## 2313	5.151757e-04	-3.014674e-03	4.380823e-03	-1.720910e-04	-3.135034e-04
## 2314	1.503934e-01	6.075523e-02	-3.753129e-02	1.234966e-02	-2.036996e-01
## 2315	7.700094e-05	-4.495130e-04	6.536539e-04	-2.557915e-05	-4.705628e-05
## 2316	6.072366e-03	-3.336991e-02	4.860812e-02	-1.884599e-03	-3.953163e-03
## 2318	4.971482e-04	-2.909193e-03	4.227520e-03	-1.660736e-04	-3.025279e-04
## 2320	2.713389e-04	-1.587312e-03	2.307049e-03	-9.053259e-05	-1.652511e-04
## 2321	-2.532119e+00	-4.211934e+00	5.093995e+00	-4.200825e-01	3.809870e+00
## 2322	-1.667620e-03	1.105219e-03	-1.106142e-01	-4.169368e-03	4.553050e-03
## 2323	8.797533e-03	-4.719453e-02	6.881084e-02	-2.653968e-03	-5.864357e-03
## 2324	2.593840e-07	-3.384708e-07	5.554640e-07	-8.191029e-09	-2.984662e-07
## 2325	1.052815e-01	-6.071146e-01	2.242563e+00	2.200427e-01	-3.165839e-01
## 2329	4.116854e-02	-5.207219e-02	8.585446e-02	-1.190359e-03	-4.756813e-02
## 2330	4.610004e-04	-2.697682e-03	3.920131e-03	-1.540049e-04	-2.805237e-04
## 2331	1.012001e-04	-5.921226e-04	8.604498e-04	-3.380161e-05	-6.159155e-05
## 2332	-4.259177e+00	-4.280820e+00	4.645140e+00	-5.200734e-01	6.074102e+00
## 2334	1.550874e-01	-8.983378e-01	2.685622e+00	2.071374e-01	-3.505904e-01
## 2335	-2.049556e-03	8.732808e-03	-2.534072e-02	4.606233e-03	-3.088589e-03
## 2336	4.033540e-05	1.109536e-05	-2.053456e-06	3.104419e-06	-5.414855e-05
## 2337	-5.543851e-01	3.244340e+00	-4.711690e+00	1.853324e-01	3.372501e-01
## 2338	-2.917026e-03	-5.954983e-03	7.411472e-03	-5.572849e-04	4.520484e-03
## 2340	-9.691801e-02	-1.258973e-01	-8.551799e+00	-3.463295e-01	3.424559e-01
## 2341	2.506217e-04	-1.466598e-03	2.131155e-03	-8.373035e-05	-1.524995e-04
## 2343	1.528219e-02	-8.809006e-02	3.330555e-01	3.337177e-02	-4.737022e-02
## 2344	-1.646466e-01	-1.057269e+00	1.427219e+00	-7.943171e-02	3.411381e-01
## 2345	9.637602e-01	-5.645100e+00	8.202759e+00	-3.223398e-01	-5.857960e-01
## 2346	-2.066762e-01	4.558096e-01	-8.908127e+00	-9.227660e-02	1.850777e-01
## 2348	9.191162e-01	-5.449561e+00	9.975998e+00	7.408912e-02	-9.318800e-01

## 2352	6.269396e-04	-3.668685e-03	5.331941e-03	-2.092880e-04	-3.816513e-04
## 2353	7.639754e-02	-4.318717e-01	2.918468e+00	4.042795e-01	-4.717563e-01
## 2354	1.957818e+00	-1.217894e+01	1.769795e+01	-6.947607e-01	-1.112477e+00
## 2355	1.022140e+00	-6.143379e+00	8.918364e+00	-3.522673e-01	-6.026387e-01
## 2356	4.490088e-04	-2.627514e-03	3.818160e-03	-1.500005e-04	-2.732248e-04
## 2357	-1.145413e-01	4.858787e-01	3.010658e+00	7.237723e-01	-5.974074e-01
## 2359	2.421138e-02	-1.415488e-01	2.053815e-01	-8.092057e-03	-1.474073e-02
## 2360	-8.054655e-07	5.921476e-07	-5.277704e-05	-1.981960e-06	2.175288e-06
## 2361	-7.831429e-02	4.298554e-01	7.320234e-01	3.546289e-01	-2.826928e-01
## 2362	3.858461e-01	-2.248330e+00	4.993875e+00	1.949498e-01	-5.551226e-01
## 2363	-5.408997e-02	3.085936e-01	3.263006e+00	7.125473e-01	-6.524987e-01
## 2364	2.954934e-05	-1.728580e-04	2.511910e-04	-9.867616e-06	-1.798803e-05
## 2365	4.177319e-01	-2.446653e+00	3.555178e+00	-1.397047e-01	-2.539256e-01
## 2366	2.181061e-04	-1.276295e-03	1.854634e-03	-7.286323e-05	-1.327196e-04
## 2367	3.612851e-02	-2.130952e-01	2.769386e-01	-1.342950e-02	-2.103020e-02
## 2368	2.239835e-05	-1.309412e-04	1.902889e-04	-7.473017e-06	-1.364597e-05
## 2370	1.965180e-02	-3.311655e-02	5.253969e-02	-1.117762e-03	-2.172170e-02
## 2371	1.905624e-04	-1.114940e-03	1.620252e-03	-6.363499e-05	-1.159948e-04
## 2372	4.683963e-02	-2.952519e-01	1.619220e+00	2.060056e-01	-2.462653e-01
## 2374	2.807252e-01	-1.648004e+00	2.394474e+00	-9.413754e-02	-1.701907e-01
## 2376	2.031635e-04	8.211023e-05	-5.075231e-05	1.668539e-05	-2.751782e-04
## 2377	3.360434e-02	-2.622860e-01	-4.459780e-01	-4.708824e-02	6.397068e-03
## 2379	2.018841e-01	-1.733794e-01	3.063197e-01	-3.834297e-04	-2.430416e-01
## 2380	-2.317853e-02	1.469695e-01	1.513676e+00	3.318041e-01	-3.065331e-01
## 2381	1.163228e-01	4.701190e-02	-2.905732e-02	9.553286e-03	-1.575553e-01
## 2382	2.495604e-07	2.021392e-07	1.538387e-07	9.424426e-08	-4.162746e-07
## 2383	1.249953e-01	-7.213802e-01	2.573619e+00	2.444152e-01	-3.592116e-01
## 2384	3.126261e-02	-1.826827e-01	2.606230e-01	-1.061282e-02	-1.894181e-02
## 2385	2.893357e-02	-1.949371e-01	2.776106e+00	4.556435e-01	-4.757548e-01
## 2387	9.298682e-02	-5.290590e-01	2.985217e+00	3.847860e-01	-4.680671e-01
## 2388	1.855882e-04	-1.086032e-03	1.578145e-03	-6.200299e-05	-1.129280e-04
## 2389	-9.965630e-02	3.972381e-01	2.356659e+00	5.721412e-01	-4.615490e-01
## 2390	5.227590e-05	4.867665e-06	1.089816e-05	3.437392e-06	-6.909015e-05
## 2392	-2.007888e-06	-1.119452e-03	-1.262934e-02	-6.174278e-04	4.639050e-04

## 2394	6.204415e-04	-3.630387e-03	5.276074e-03	-2.071421e-04	-3.776871e-04
## 2396	1.408413e-04	-7.239155e-04	1.121543e-03	-2.836378e-05	-1.095254e-04
## 2397	4.691109e-05	1.895955e-05	-1.171879e-05	3.852737e-06	-6.353955e-05
## 2400	4.600614e-01	-2.718243e+00	4.561126e+00	-4.073702e-02	-3.901062e-01
## 2402	-5.107612e-02	3.197946e-01	2.711224e+00	6.129014e-01	-5.584648e-01
## 2404	5.572831e-04	-3.261184e-03	4.738981e-03	-1.861745e-04	-3.391039e-04
## 2405	1.698027e-06	-9.936835e-06	1.443967e-05	-5.672781e-07	-1.033227e-06
## 2406	-7.130501e-02	4.532505e-01	1.044663e+00	3.447805e-01	-2.755042e-01
## 2407	1.849437e-01	-1.081148e+00	1.571094e+00	-6.171490e-02	-1.126673e-01
## 2408	8.334603e-02	-4.935764e-01	1.200226e+00	6.226044e-02	-1.393862e-01
## 2410	1.189840e-04	-6.962401e-04	1.011734e-03	-3.974804e-05	-7.240516e-05
## 2411	-6.378527e-01	-8.110003e-01	9.333838e-01	-8.919017e-02	9.299154e-01
## 2413	2.475738e-02	-1.454024e-01	2.125429e-01	-8.066012e-03	-1.523896e-02
## 2414	3.006351e-03	-1.692247e-02	2.462877e-02	-9.594117e-04	-1.909624e-03
## 2415	-5.137959e-05	-6.246047e-04	8.594934e-04	-4.406111e-05	1.412668e-04
## 2416	6.737108e-05	2.632350e-05	-1.547615e-05	5.489202e-06	-9.116015e-05
## 2417	1.028428e-04	-6.016324e-04	8.743039e-04	-3.433803e-05	-6.260882e-05
## 2418	-2.773125e-04	-2.378389e-04	2.456001e-04	-3.107428e-05	3.905397e-04
## 2419	1.078518e-02	-6.048807e-02	8.803836e-02	-3.428614e-03	-6.875600e-03
## 2420	7.775425e-05	-2.372468e-04	3.621830e-04	-1.042465e-05	-7.432974e-05
## 2422	-2.349982e-02	-8.663210e-03	4.701447e-03	-1.874759e-03	3.173051e-02
## 2423	2.376746e-01	-6.853901e-02	1.946522e-01	1.301097e-02	-3.066822e-01
## 2424	3.644325e-04	-2.132639e-03	3.098999e-03	-1.217555e-04	-2.217476e-04
## 2426	-9.701236e-04	-1.028807e+01	1.440680e+01	-6.822427e-01	1.225785e+00
## 2427	1.174463e-01	-6.830654e-01	1.619073e+00	7.830335e-02	-1.877686e-01
## 2428	4.135505e-02	-2.738376e-01	-7.593413e-03	-3.137622e-02	-1.204317e-02
## 2430	1.009297e-01	-5.906277e-01	8.582560e-01	-3.372024e-02	-6.141349e-02
## 2433	9.620484e-06	-5.618846e-05	8.165792e-05	-3.206299e-06	-5.867476e-06
## 2434	-8.069454e-02	3.724617e-01	2.084213e+00	5.129160e-01	-4.254689e-01
## 2436	-1.333154e-02	3.898779e-02	1.334220e+00	2.626772e-01	-2.448092e-01
## 2437	7.101070e-05	-4.032397e-04	6.064994e-04	-1.918379e-05	-4.835138e-05
## 2438	-3.311016e-02	2.467017e-02	-2.165834e+00	-8.129260e-02	8.928485e-02
## 2439	9.278980e-04	-4.236674e-03	1.883393e-01	3.386902e-02	-3.438230e-02
## 2441	-3.166097e-03	1.905987e-02	5.292231e-02	1.618276e-02	-1.303881e-02

## 2443	1.292347e-01	-7.581448e-01	1.256642e+00	-1.426794e-02	-1.070850e-01
## 2444	-2.129977e-02	1.278089e-01	2.970963e-01	9.769728e-02	-7.666324e-02
## 2445	2.883960e-05	-1.686493e-04	2.450830e-04	-9.625937e-06	-1.756363e-05
## 2448	4.252358e-04	-2.488407e-03	3.616006e-03	-1.420613e-04	-2.587557e-04
## 2449	9.435029e-02	-5.521278e-01	8.023109e-01	-3.152217e-02	-5.740984e-02
## 2450	2.691983e-04	-1.575235e-03	2.289037e-03	-8.992938e-05	-1.638140e-04
## 2451	1.510695e-02	-8.846844e-02	1.286392e-01	-5.035188e-03	-9.200623e-03
## 2452	-8.081754e-02	-1.488270e-01	-7.617329e+00	-3.126512e-01	3.034374e-01
## 2453	-3.802238e-02	2.353083e-02	1.149325e+00	2.230755e-01	-1.739665e-01
## 2454	-2.042789e-02	3.500968e-02	1.054623e+00	2.090465e-01	-1.827501e-01
## 2456	-2.843201e-02	-3.417875e-02	3.884718e-02	-3.844442e-03	4.121550e-02
## 2458	-4.935592e-02	-8.646577e-02	-4.736497e+00	-1.935990e-01	1.865485e-01
## 2460	1.528502e-04	-8.944309e-04	1.298853e-03	-5.109666e-05	-9.299071e-05
## 2461	5.535862e-03	-7.209342e-02	5.177487e+00	9.457212e-01	-9.370249e-01
## 2462	2.433681e-03	-9.518781e-03	1.408675e-02	-4.988670e-04	-2.044003e-03
## 2463	-2.290037e-03	-1.601269e-03	-1.866676e-01	-7.429508e-03	7.527982e-03
## 2469	4.926025e-03	-3.137019e-02	3.010889e-02	-4.687003e-03	1.422134e-04
## 2470	5.666506e-07	-2.507165e-06	3.686856e-06	-1.355049e-07	-4.412383e-07
## 2471	-5.701789e-03	3.421178e-02	7.919306e-02	2.608910e-02	-2.045914e-02
## 2473	1.057968e-01	-6.114387e-01	2.054468e+00	1.834016e-01	-2.808122e-01
## 2474	-5.110898e-09	-2.400243e-09	-4.034813e-07	-1.593502e-08	1.631632e-08
## 2477	-4.472069e-01	-3.520000e-01	3.513386e-01	-4.812192e-02	6.261480e-01
## 2479	2.397205e-04	-1.402834e-03	2.038507e-03	-8.008834e-05	-1.458649e-04
## 2481	8.877512e-06	-5.176769e-05	7.528243e-05	-2.944872e-06	-5.432341e-06
## 2482	3.838661e-04	-1.402743e-03	2.084538e-03	-7.199739e-05	-3.342903e-04
## 2483	8.983405e-02	-8.006283e-01	1.144309e+00	-4.845355e-02	-2.179562e-02
## 2485	3.757009e-05	-1.769559e-04	2.743927e-04	-6.900629e-06	-3.073844e-05
## 2488	-3.040525e-01	1.669855e+00	5.739511e+00	1.624403e+00	-1.313008e+00
## 2490	1.460494e-01	-8.425685e-01	3.028583e+00	2.897088e-01	-4.238073e-01
## 2491	3.262504e-04	-1.909169e-03	2.774282e-03	-1.089948e-04	-1.985206e-04
## 2492	6.051443e-05	3.618224e-06	1.520397e-05	3.801275e-06	-7.969496e-05
## 2495	7.863879e-02	-4.519773e-01	1.905186e+00	2.079403e-01	-2.795887e-01
## 2496	-1.125888e-01	-2.090398e-02	-8.533120e+00	-3.336884e-01	3.464685e-01
## 2497	-5.109032e-02	3.179969e-01	2.433171e+00	5.602474e-01	-5.063518e-01

## 2498	6.249261e-06	-4.480421e-06	3.926035e-05	5.855007e-06	-1.336463e-05
## 2499	-1.424255e-01	8.444341e-01	2.200612e+00	7.134514e-01	-5.738182e-01
## 2500	-2.518757e-01	1.961960e-01	-1.634999e+01	-6.075433e-01	6.695490e-01
## 2501	-6.342473e-02	-8.345479e-02	9.674708e-02	-9.055742e-03	9.280134e-02
## 2503	2.875740e-04	-1.682759e-03	2.445320e-03	-9.606112e-05	-1.750030e-04
## 2506	2.707485e-02	-1.914446e-01	2.305452e+00	3.686733e-01	-3.877270e-01
## 2508	4.275565e-04	-2.502083e-03	3.635836e-03	-1.428499e-04	-2.601496e-04
## 2509	-4.027864e-02	2.200528e-01	2.253192e+00	4.943308e-01	-4.495445e-01
## 2510	3.366629e-02	-1.962548e-01	2.584981e-01	-1.221950e-02	-1.995818e-02
## 2511	-2.082998e-01	1.178407e+00	2.135856e+00	9.218642e-01	-7.259514e-01
## 2513	2.005788e-04	-1.173677e-03	1.705505e-03	-6.700704e-05	-1.220577e-04
## 2514	-1.451387e-03	8.708556e-03	2.015301e-02	6.639909e-03	-5.206818e-03
## 2515	1.822126e-02	-1.181416e-01	2.056935e-01	-3.676678e-04	-1.611965e-02
## 2516	1.265515e-01	-7.401865e-01	1.150100e+00	-2.830669e-02	-9.082381e-02
## 2517	-5.323582e-10	3.194236e-09	7.392172e-09	2.435507e-09	-1.909859e-09
## 2518	1.202827e-01	-8.317225e-01	2.787757e+00	5.222611e-01	-6.487763e-01
## 2520	9.630842e-02	-5.635787e-01	8.189508e-01	-3.217588e-02	-5.860222e-02
## 2521	1.142891e-01	-6.509163e-01	9.468303e-01	-3.699292e-02	-7.167599e-02
## 2522	1.179308e-04	-6.898512e-04	1.002536e-03	-3.936734e-05	-7.180493e-05
## 2523	1.382038e-01	5.585469e-02	-3.452257e-02	1.135029e-02	-1.871923e-01
## 2524	-2.922979e-02	1.637071e-01	2.210889e+00	4.678569e-01	-4.342135e-01
## 2525	1.915344e-03	-2.559792e-01	-2.716874e+00	-1.345419e-01	9.904543e-02
## 2526	-1.441782e-01	8.650925e-01	2.001965e+00	6.595968e-01	-5.172360e-01
## 2528	-2.141181e-03	-1.614340e-03	-1.758356e-01	-7.010422e-03	7.086466e-03
## 2529	2.629417e-05	-1.537059e-04	2.233686e-04	-8.772753e-06	-1.602008e-05
## 2531	1.337465e-01	-7.878117e-01	4.175313e+00	5.224571e-01	-6.411917e-01
## 2532	3.325334e-05	1.131864e-06	1.089644e-05	2.283412e-06	-4.393955e-05
## 2533	-5.558907e+00	-4.799659e+00	4.960794e+00	-6.263872e-01	7.833773e+00
## 2535	9.556772e-02	-5.591542e-01	8.125262e-01	-3.192242e-02	-5.816226e-02
## 2537	1.525843e-11	-8.785408e-11	3.471019e-10	3.607149e-11	-5.001847e-11
## 2538	-1.814895e-02	-1.733090e-03	-1.357223e+00	-5.289366e-02	5.517926e-02
## 2539	-2.971225e-01	1.784214e+00	4.341801e+00	1.400239e+00	-1.106429e+00
## 2540	2.721814e-02	-1.593345e-01	2.317202e-01	-9.061664e-03	-1.658997e-02
## 2542	4.610004e-04	-2.697682e-03	3.920131e-03	-1.540049e-04	-2.805237e-04

## 2545	-2.732006e+00	-4.945386e+00	6.057136e+00	-4.799198e-01	4.158434e+00
## 2546	2.718366e-04	-1.590763e-03	2.311581e-03	-9.081945e-05	-1.654060e-04
## 2547	-2.237653e-01	1.128012e+00	8.397433e-02	7.798151e-01	-5.890840e-01
## 2549	1.553336e-03	-9.090103e-03	1.320905e-02	-5.189757e-04	-9.451484e-04
## 2552	-4.179918e-01	-5.829834e-01	6.837515e-01	-6.187529e-02	6.155278e-01
## 2553	3.108317e-01	-1.799630e+00	6.534212e+00	6.310544e-01	-9.159275e-01
## 2554	4.933443e-04	-2.886934e-03	4.195201e-03	-1.647981e-04	-3.002179e-04
## 2555	-1.689056e-01	5.395508e-01	1.944141e+00	5.419211e-01	-3.526433e-01
## 2556	2.894987e-06	-1.651638e-05	2.403169e-05	-9.373717e-07	-1.813735e-06
## 2558	4.400159e-04	-2.574952e-03	3.741744e-03	-1.470065e-04	-2.677391e-04
## 2559	-1.980338e-03	1.094613e-03	-1.337847e-01	-5.070215e-03	5.495935e-03
## 2560	5.086543e-03	-1.188811e-02	2.734077e+00	5.080003e-01	-5.074107e-01
## 2562	-5.174386e-02	1.493007e-01	2.640918e+00	5.437295e-01	-4.801894e-01
## 2564	-2.558057e-03	1.534767e-02	3.557136e-02	1.171501e-02	-9.189274e-03
## 2567	-4.132302e-02	-2.230239e-02	1.816075e-02	-3.766337e-03	5.663848e-02
## 2569	-1.078580e-03	4.007930e-03	-2.220407e-02	1.637817e-03	-9.225880e-04
## 2570	-1.581532e-03	-4.368675e-03	5.613512e-03	-3.779777e-04	2.586810e-03
## 2571	-6.801060e-01	-2.976441e-01	2.017618e-01	-5.737084e-02	9.238967e-01
## 2572	-2.408145e-09	-4.083055e-09	-2.229958e-07	-9.118013e-09	8.892359e-09
## 2573	2.744660e-01	-1.596607e+00	3.829820e+00	1.915237e-01	-4.472150e-01
## 2574	1.433818e-05	-8.025917e-05	1.173977e-04	-4.440205e-06	-9.265432e-06
## 2576	2.139165e-04	-1.251840e-03	1.819040e-03	-7.147194e-05	-1.301592e-04
## 2577	3.966728e-02	-2.735534e-01	3.953594e-01	-1.599255e-02	-1.921298e-02
## 2578	9.030231e-06	-5.222699e-05	1.701425e-04	1.466511e-05	-2.298981e-05
## 2579	6.061223e-05	-3.543780e-04	5.150317e-04	-2.021817e-05	-3.692991e-05
## 2580	3.189021e-02	-1.866043e-01	2.737252e-01	-1.017322e-02	-1.988038e-02
## 2581	2.086257e-01	5.767892e-02	-1.484420e-02	1.536166e-02	-2.794002e-01
## 2582	-4.933037e-02	3.081201e-01	2.515231e+00	5.723733e-01	-5.200022e-01
## 2584	1.838571e-05	-7.184622e-05	1.203082e-04	-1.147152e-06	-1.803433e-05
## 2585	7.156718e-01	-4.210017e+00	6.116496e+00	-2.405666e-01	-4.328473e-01
## 2588	1.575176e-01	2.434424e-02	1.566320e-02	1.032071e-02	-2.086640e-01
## 2589	2.506434e-02	9.774400e-03	-5.763834e-03	2.034825e-03	-3.390642e-02
## 2591	4.582429e-05	9.304784e-06	2.390308e-06	3.327002e-06	-6.114307e-05
## 2592	-4.980041e-03	-3.252231e-02	4.394102e-02	-2.437251e-03	1.038178e-02

## 2593	9.362044e-03	3.783746e-03	-2.338731e-03	7.688848e-04	-1.268058e-02
## 2594	-2.606453e-01	-7.855843e-01	1.016893e+00	-6.666391e-02	4.341497e-01
## 2596	1.790031e-01	3.485043e-02	7.745676e-03	1.220653e-02	-2.379827e-01
## 2597	2.493314e-02	-1.459084e-01	2.120231e-01	-8.330261e-03	-1.517091e-02
## 2598	1.188381e-01	-6.291096e-01	9.172599e-01	-3.526447e-02	-8.025617e-02
## 2601	-8.942354e-06	3.380360e-05	8.662425e-05	2.735892e-05	-1.763502e-05
## 2602	4.204050e-05	-2.459192e-04	3.573651e-04	-1.403754e-05	-2.559379e-05
## 2603	-3.849408e-02	-1.797533e-02	1.299920e-02	-3.322231e-03	5.242718e-02
## 2604	9.420724e-02	-5.512398e-01	8.010232e-01	-3.147101e-02	-5.732884e-02
## 2605	2.868401e-01	-1.679033e+00	3.932535e+00	1.836300e-01	-4.504954e-01
## 2606	1.154655e-02	-6.650963e-02	2.582657e-01	2.646592e-02	-3.702909e-02
## 2607	-6.868240e-06	4.130309e-05	1.093510e-04	3.406990e-05	-2.726024e-05
## 2608	7.077234e-04	-4.141564e-03	6.018235e-03	-2.364463e-04	-4.306321e-04
## 2610	5.509359e-02	-4.798573e-01	6.888130e-01	-2.887975e-02	-1.475020e-02
## 2611	2.419427e-05	-1.052286e-04	1.591511e-04	-4.863246e-06	-1.984791e-05
## 2612	-2.467831e-02	1.835949e-02	-1.614596e+00	-6.060598e-02	6.655905e-02
## 2613	-7.862712e-03	-1.195095e-02	1.423970e-02	-1.229390e-03	1.169587e-02
## 2614	2.411090e-03	-1.311773e-02	1.706356e-01	2.763092e-02	-2.960287e-02
## 2615	1.386315e-06	5.718040e-07	-8.476715e-07	9.757100e-08	-1.869521e-06
## 2616	5.902970e-05	-2.787535e-05	6.012195e-05	1.871378e-06	-7.424447e-05
## 2617	3.944692e-04	-2.308346e-03	3.354350e-03	-1.317821e-04	-2.400362e-04
## 2619	3.960973e-04	-2.317902e-03	3.368228e-03	-1.323292e-04	-2.410221e-04
## 2620	-7.030162e-03	5.141041e-03	-4.609458e-01	-1.731360e-02	1.899723e-02
## 2621	3.775793e-02	-2.265633e-01	2.583792e-01	-1.568532e-02	-2.067736e-02
## 2622	-1.549869e-03	9.227327e-03	2.043422e-02	6.994408e-03	-5.474314e-03
## 2624	5.925617e-04	4.926829e-04	5.140862e-04	2.558167e-04	-1.020735e-03
## 2628	9.046363e-02	3.656084e-02	-2.259763e-02	7.429535e-03	-1.225299e-01
## 2629	8.313283e-02	-4.862517e-01	7.377692e-01	-2.192235e-02	-5.637603e-02
## 2630	1.867054e-02	7.535020e-03	-4.648931e-03	1.532652e-03	-2.528734e-02
## 2631	-8.960922e-03	1.649670e-02	7.932861e-01	1.539879e-01	-1.417388e-01
## 2634	6.466569e-02	2.613240e-02	-1.615027e-02	5.310672e-03	-8.758720e-02
## 2635	1.701701e-01	-9.954795e-01	1.446574e+00	-5.683096e-02	-1.035845e-01
## 2636	1.782269e-01	7.203147e-02	-4.452231e-02	1.463737e-02	-2.414024e-01
## 2637	1.145143e-03	-6.701363e-03	9.737912e-03	-3.825968e-04	-6.967779e-04

## 2638	-5.691346e-03	-2.074024e-02	1.427231e+00	2.604416e-01	-2.489670e-01
## 2639	2.751964e-04	-1.610418e-03	2.340146e-03	-9.194108e-05	-1.674516e-04
## 2643	1.153429e-02	-2.399767e-04	3.976914e-03	6.211714e-04	-1.503832e-02
## 2644	1.026480e-03	-4.758200e-02	3.217668e+00	5.868369e-01	-5.782734e-01
## 2645	1.285271e-01	-7.390677e-01	3.016509e+00	3.215172e-01	-4.388282e-01
## 2646	-3.349568e-02	-1.512057e-02	1.058271e-02	-2.856208e-03	4.555751e-02
## 2647	-9.469024e-05	5.775606e-04	2.735745e-03	7.023396e-04	-6.059980e-04
## 2648	1.297110e-05	-7.590674e-05	1.103020e-04	-4.333684e-06	-7.892458e-06
## 2649	-1.023915e-05	7.644378e-06	-6.696037e-04	-2.513101e-05	2.760466e-05
## 2650	-8.358304e-03	-1.786920e-01	2.474252e-01	-1.234261e-02	3.221837e-02
## 2651	9.348038e-02	-5.470456e-01	7.949257e-01	-3.123204e-02	-5.687957e-02
## 2652	-1.037264e-04	-6.625688e-05	6.009119e-05	-1.011349e-05	1.433716e-04
## 2653	3.589619e-02	-2.420944e-01	-5.222587e-02	-2.950795e-02	-8.732669e-03
## 2654	1.596071e-02	-1.160923e-01	3.352820e+00	5.895783e-01	-5.960062e-01
## 2655	1.644702e-04	6.647200e-05	-4.108633e-05	1.350759e-05	-2.227694e-04
## 2656	-8.224917e-06	3.497868e-05	8.939007e-05	2.826004e-05	-1.948587e-05
## 2657	2.774426e-04	-2.032169e-03	2.965017e-03	-1.134998e-04	-1.263925e-04
## 2658	1.122182e-01	-6.566979e-01	9.542635e-01	-3.749243e-02	-6.828095e-02
## 2659	1.140730e-02	-6.768416e-02	9.868027e-02	-3.802447e-03	-6.899870e-03
## 2660	7.459057e-03	-7.043395e-02	1.010422e-01	-4.248277e-03	-1.370260e-03
## 2661	-1.715313e-02	-1.431964e-02	1.462191e-02	-1.900028e-03	2.411401e-02
## 2662	3.636049e-02	-9.370694e-02	1.425912e-01	-4.225978e-03	-3.632283e-02
## 2663	2.868171e-02	-2.721157e-01	-9.185708e-01	-6.655348e-02	2.519466e-02
## 2665	1.905991e-05	7.680193e-06	-4.729139e-06	1.563818e-06	-2.581327e-05
## 2667	-4.225090e+00	-2.576937e+00	2.271833e+00	-4.048338e-01	5.826405e+00
## 2670	-4.238794e-02	2.255269e-01	2.717262e-01	1.790255e-01	-1.411225e-01
## 2671	2.946657e-04	-1.724356e-03	2.505710e-03	-9.844629e-05	-1.792973e-04
## 2672	2.126305e-01	-1.243332e+00	2.224839e+00	7.303400e-03	-2.067997e-01
## 2673	-2.148979e-03	1.289026e-02	2.983864e-02	9.829874e-03	-7.707790e-03
## 2675	3.662744e-02	-2.175282e-01	2.757752e-01	-1.398432e-02	-2.097988e-02
## 2679	1.590661e-02	-9.475621e-02	1.431373e-01	-4.389274e-03	-1.050282e-02
## 2681	7.496680e-01	-4.417056e+00	6.416913e+00	-2.524632e-01	-4.525679e-01
## 2683	2.374309e-04	-1.389386e-03	2.018958e-03	-7.932191e-05	-1.444757e-04
## 2685	-8.403950e-01	-9.545140e-01	1.070258e+00	-1.099244e-01	1.211602e+00

## 2687	1.079794e+00	-6.321464e+00	9.155797e+00	-3.620761e-01	-6.560229e-01
## 2688	8.989308e-02	-5.438778e-01	5.659836e-01	-3.973054e-02	-4.744688e-02
## 2690	1.287302e-04	-2.873182e-04	4.464781e-04	-1.128765e-05	-1.346045e-04
## 2692	8.843794e-05	-5.175008e-04	7.519985e-04	-2.954430e-05	-5.381639e-05
## 2695	6.607412e-03	-1.663332e-01	2.349043e-01	-1.068490e-02	1.118669e-02
## 2696	-8.940581e-02	7.441123e-02	-5.711418e+00	-2.052206e-01	2.279311e-01
## 2698	7.527795e-05	-2.959961e-04	4.390747e-04	-1.531782e-05	-6.325243e-05
## 2700	2.086800e-04	-1.220907e-03	1.774283e-03	-6.967578e-05	-1.270340e-04
## 2703	1.485915e-02	-6.762197e-02	3.038675e+00	5.466858e-01	-5.548636e-01
## 2708	3.791876e-04	-2.218987e-03	3.224474e-03	-1.266852e-04	-2.307255e-04
## 2709	-3.154980e-07	1.812791e-06	-4.460585e-07	5.132255e-07	-2.089801e-07
## 2710	2.513361e-04	-1.471106e-03	2.134045e-03	-8.413080e-05	-1.528103e-04
## 2713	-1.655257e-01	1.030721e+00	2.378341e+00	7.845628e-01	-6.227938e-01
## 2714	-6.730315e-02	2.995394e-01	2.744138e+00	6.124717e-01	-5.366442e-01
## 2715	5.219215e-02	2.109162e-02	-1.303495e-02	4.286281e-03	-7.069227e-02
## 2716	2.901837e-04	-1.698107e-03	2.467571e-03	-9.694709e-05	-1.765730e-04
## 2717	-5.313132e-03	-2.163105e-03	1.349373e-03	-4.373955e-04	7.198331e-03
## 2719	7.314180e-07	-3.225943e-06	4.747347e-06	-1.737048e-07	-5.712738e-07
## 2721	-4.416810e+00	-7.626664e+00	9.276880e+00	-7.513734e-01	6.678972e+00
## 2722	1.901343e-05	-2.529182e-06	1.425674e-05	1.764984e-06	-2.540715e-05
## 2724	-6.517309e-02	1.344968e-01	2.621039e+00	5.351961e-01	-4.541600e-01
## 2725	-9.382682e-02	4.701386e-01	1.795763e-01	3.607493e-01	-2.809568e-01
## 2726	3.621677e-04	-2.119397e-03	3.079754e-03	-1.210000e-04	-2.203678e-04
## 2727	2.271931e-03	6.420365e-04	-1.811204e-04	1.682142e-04	-3.044323e-03
## 2728	2.942079e-04	-1.721668e-03	2.501808e-03	-9.829209e-05	-1.790205e-04
## 2729	3.031079e-04	-1.773713e-03	2.577457e-03	-1.012596e-04	-1.844437e-04
## 2730	1.099329e-05	-5.289031e-05	7.747342e-05	-2.911627e-06	-8.053430e-06
## 2731	6.168023e-04	-3.609251e-03	5.245178e-03	-2.059693e-04	-3.754217e-04
## 2732	1.816497e-10	-1.078864e-09	1.373648e-09	-6.822192e-11	-1.051651e-10
## 2733	-3.347456e-02	-3.124957e-02	3.315705e-02	-3.928074e-03	4.745315e-02
## 2734	1.851443e-01	-1.082936e+00	1.573659e+00	-6.182278e-02	-1.127162e-01
## 2735	8.530388e-05	2.925735e-05	-1.379123e-05	6.699112e-06	-1.149590e-04
## 2736	-2.711465e-08	1.315507e-08	-1.852167e-06	-7.041728e-08	7.599466e-08
## 2737	4.455434e-05	-2.605050e-04	3.785863e-04	-1.486547e-05	-2.714187e-05

## 2741	1.747609e-04	-9.329462e-04	1.373437e-03	-4.999993e-05	-1.194250e-04
## 2742	1.331870e-01	3.116521e-02	-1.561266e-03	9.430531e-03	-1.776949e-01
## 2743	1.002133e-05	-5.847560e-05	8.498735e-05	-3.335805e-06	-6.118876e-06
## 2744	2.758010e-05	-1.563275e-04	8.692129e-04	1.112881e-04	-1.360565e-04
## 2746	6.443970e-06	-1.785365e-06	2.246389e-05	3.594665e-06	-1.152042e-05
## 2747	3.682585e-04	-2.153750e-03	3.131775e-03	-1.225687e-04	-2.246033e-04
## 2749	2.624407e-02	-1.517000e-01	2.205402e-01	-8.643170e-03	-1.619274e-02
## 2750	1.189840e-04	-6.962401e-04	1.011734e-03	-3.974804e-05	-7.240516e-05
## 2751	2.842231e-01	-1.651969e+00	4.233489e+00	2.488813e-01	-5.131081e-01
## 2752	-5.322337e-02	-5.184068e-02	5.573408e-02	-6.388805e-03	7.570572e-02
## 2754	-1.230108e-01	-1.526005e-01	1.746844e-01	-1.694753e-02	1.788822e-01
## 2756	1.894066e-05	-9.969539e-05	1.528047e-04	-4.213491e-06	-1.420975e-05
## 2757	3.283982e-02	-1.928661e-01	2.714487e-01	-1.135292e-02	-1.969749e-02
## 2758	-1.737855e-02	1.042847e-01	2.430636e-01	7.983753e-02	-6.267453e-02
## 2760	2.230184e-01	-1.307375e+00	2.040515e+00	-4.828831e-02	-1.614736e-01
## 2761	-6.526918e-03	5.153241e-02	1.956803e+00	3.833467e-01	-3.731669e-01
## 2763	7.919193e-03	-4.716926e-02	7.043168e-02	-2.338784e-03	-5.077535e-03
## 2764	-3.625964e-03	2.177181e-02	5.268054e-02	1.703018e-02	-1.344525e-02
## 2765	3.000538e-01	-1.744903e+00	4.818841e+00	3.278908e-01	-6.059746e-01
## 2767	-7.200463e-02	-4.049128e-01	5.438527e-01	-3.090997e-02	1.423340e-01
## 2768	5.954509e-02	-4.864236e-01	-1.030807e+00	-9.523872e-02	2.017481e-02
## 2769	1.069216e-01	-6.253857e-01	9.527263e-01	-2.747332e-02	-7.322192e-02
## 2770	2.406597e-04	-4.270155e-04	6.775002e-04	-1.414041e-05	-2.644339e-04
## 2771	8.059046e-02	3.149339e-02	-1.863811e-02	6.546513e-03	-1.090283e-01
## 2773	3.301534e-02	-2.108769e-01	9.534447e-01	1.091184e-01	-1.377967e-01
## 2774	1.425159e-04	-8.112849e-04	2.084150e-03	1.231651e-04	-2.565874e-04
## 2776	4.108044e-04	-2.403872e-03	3.493256e-03	-1.372184e-04	-2.500003e-04
## 2777	-2.877773e-03	2.875828e-02	6.606437e-02	2.182840e-02	-1.949435e-02
## 2778	4.202412e-04	-2.459003e-03	3.573326e-03	-1.403736e-04	-2.557448e-04
## 2779	9.539097e-02	-5.582160e-01	8.177726e-01	-3.063120e-02	-5.926641e-02
## 2781	1.242981e-05	-7.252217e-05	1.054045e-04	-4.136720e-06	-7.590635e-06
## 2782	-9.568676e-02	-5.999470e-01	-1.509431e+01	-6.533738e-01	5.637799e-01
## 2784	-8.434185e-02	-1.138359e-01	1.326519e-01	-1.223262e-02	1.237477e-01
## 2787	2.841497e-02	-1.647414e-01	2.394741e-01	-9.390687e-03	-1.747366e-02

## 2788	8.467080e-02	-5.026533e-01	1.665472e+00	1.463855e-01	-2.236370e-01
## 2790	4.842559e-07	-6.080103e-07	1.003586e-06	-1.370234e-08	-5.600696e-07
## 2791	-1.426646e-04	-5.195223e-04	-1.631114e-02	-6.922818e-04	6.407151e-04
## 2792	2.843449e-01	-1.953707e+00	2.836484e+00	-1.118175e-01	-1.408944e-01
## 2793	-4.019500e-02	9.066057e-02	-1.709346e+00	-1.670673e-02	3.503223e-02
## 2794	3.597177e-02	-2.427865e-01	-5.430575e-02	-2.966728e-02	-8.677962e-03
## 2795	1.066519e-05	-6.214150e-05	9.032601e-05	-3.542986e-06	-6.523939e-06
## 2798	-3.838751e-02	2.870829e-02	-2.509976e+00	-9.419616e-02	1.034751e-01
## 2799	9.518142e-01	-1.164562e+01	1.635590e+01	-7.309709e-01	1.504244e-01
## 2800	1.842067e-02	-1.074056e-01	2.180195e-01	5.466352e-03	-2.270549e-02
## 2802	-2.259355e-08	9.842760e-09	-1.555804e-06	-5.928690e-08	6.378069e-08
## 2807	3.086438e-07	-1.093891e-06	1.630329e-06	-5.528989e-08	-2.731682e-07
## 2811	-1.423687e-02	9.085462e-02	1.021609e+00	2.212415e-01	-2.055381e-01
## 2812	1.048493e-01	-6.002098e-01	2.887284e+00	3.430294e-01	-4.378692e-01
## 2813	1.157861e-04	-2.352896e-04	3.676570e-04	-8.903871e-06	-1.235417e-04
## 2814	-2.119791e-02	1.585110e-02	-1.385987e+00	-5.201449e-02	5.713910e-02
## 2815	-2.727970e-01	1.641831e+00	4.544165e+00	1.391261e+00	-1.120389e+00
## 2816	1.194678e-02	-2.527104e-01	-1.936467e+00	-1.038724e-01	6.749771e-02
## 2817	-2.402659e+00	-7.633727e-01	1.600476e+00	5.818952e-02	2.990867e+00
## 2818	-1.147967e+00	-1.699721e+00	2.015841e+00	-1.764945e-01	1.702237e+00
## 2820	9.150446e-03	-9.934421e-02	1.606838e+00	2.681912e-01	-2.709896e-01
## 2821	7.104800e-04	-4.151454e-03	6.095252e-03	-2.252855e-04	-4.445750e-04
## 2822	-3.705506e-04	-2.023167e-04	1.662726e-04	-3.389723e-05	5.081339e-04
## 2823	-1.847109e-06	1.370759e-06	-1.208863e-04	-4.538057e-06	4.983162e-06
## 2824	5.872366e-05	-3.435942e-04	4.992929e-04	-1.961518e-05	-3.573878e-05
## 2826	5.210101e-04	-3.048500e-03	4.430137e-03	-1.739923e-04	-3.171178e-04
## 2827	3.021117e-04	-1.767581e-03	2.568702e-03	-1.008806e-04	-1.838993e-04
## 2828	2.007660e+00	-1.181818e+01	1.630050e+01	-7.086166e-01	-1.193248e+00
## 2829	3.667406e-05	1.384906e-05	-7.558717e-06	2.992412e-06	-4.960239e-05
## 2831	6.135948e-04	-3.587924e-03	5.226447e-03	-2.024578e-04	-3.760164e-04
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## 2833	-6.932313e+00	-3.169748e+00	2.246655e+00	-5.938197e-01	9.433469e+00
## 2834	2.811520e-04	-1.645275e-03	2.390795e-03	-9.393151e-05	-1.710745e-04
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## 2839 2.642976e-04 -1.545117e-03 2.245908e-03 -8.809163e-05 -1.611071e-04
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## 2843 8.163583e-08 3.803463e-08 -9.659859e-09 1.037030e-08 -1.144630e-07
## 2845 -4.505570e+00 -1.820977e+00 1.125557e+00 -3.700339e-01 6.102646e+00
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## 2847 -7.804377e-02 -1.357868e-01 1.653596e-01 -1.334399e-02 1.181370e-01
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## 2856 -1.201925e-01 2.442881e-01 1.821092e+00 4.216957e-01 -2.790807e-01
## 2857 -1.682901e-04 9.649051e-04 1.687201e-03 7.153879e-04 -5.555556e-04
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## 2861 4.908940e-05 1.958712e-05 -1.185295e-05 4.025353e-06 -6.647025e-05
## 2862 1.002918e-03 -3.037489e-03 4.567079e-03 -1.465989e-04 -9.479749e-04
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## 2879 4.106517e-01 -4.764956e+00 6.797757e+00 -2.941317e-01 3.156284e-02
## 2880 2.884438e-02 -1.676805e-01 2.425573e-01 -9.607230e-03 -1.765702e-02
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## 2883	3.054006e-01	-1.855231e+00	2.692274e+00	-1.065500e-01	-1.777246e-01
## 2884	9.346900e-02	-5.468198e-01	7.946200e-01	-3.121507e-02	-5.689417e-02
## 2885	2.104118e-05	-1.230164e-04	1.787706e-04	-7.021053e-06	-1.281780e-05
## 2887	8.468589e-06	-4.944140e-05	7.185388e-05	-2.821047e-06	-5.167314e-06
## 2888	-4.913337e+00	-9.018896e+00	1.106816e+01	-8.714212e-01	7.493579e+00
## 2889	-2.400096e-02	1.785123e-02	-1.570328e+00	-5.894487e-02	6.473395e-02
## 2890	1.401010e-01	-8.198824e-01	1.191391e+00	-4.680904e-02	-8.524493e-02
## 2891	-1.229315e-03	-6.147064e-04	4.722056e-04	-1.087673e-04	1.679087e-03
## 2892	8.365762e-01	-4.896025e+00	7.114522e+00	-2.795273e-01	-5.089817e-01
## 2893	-2.408145e-09	-4.083055e-09	-2.229958e-07	-9.118013e-09	8.892359e-09
## 2894	1.413102e+00	-8.271460e+00	1.244917e+01	-3.917778e-01	-9.390599e-01
## 2895	-7.589860e-01	-1.299263e+00	1.578320e+00	-1.283647e-01	1.146369e+00
## 2896	1.193991e-04	-6.986627e-04	1.015255e-03	-3.988617e-05	-7.265865e-05
## 2898	-1.734956e-02	-7.663528e-03	5.245990e-03	-1.468186e-03	2.357706e-02
## 2901	1.057840e-01	-6.342004e-01	2.548704e+00	2.684643e-01	-3.635819e-01
## 2903	1.730327e-01	-1.038806e+00	2.204059e+00	7.075509e-02	-2.308468e-01
## 2904	-3.318270e-03	-3.116043e-02	2.560424e-01	3.771730e-02	-3.142620e-02
## 2905	9.123954e-05	1.901540e-04	9.629733e-03	1.865174e-03	-1.966357e-03
## 2906	1.861432e-05	-5.348888e-05	8.136140e-05	-2.409770e-06	-1.805641e-05
## 2907	-1.270185e-08	2.700120e-09	-9.062268e-07	-3.487734e-08	3.701467e-08
## 2908	-1.129304e-03	5.037407e-03	-1.055348e-02	2.840771e-03	-1.972513e-03
## 2909	-1.939277e-01	-1.765166e+00	2.408910e+00	-1.280874e-01	4.637432e-01
## 2910	1.167229e-01	-1.253048e-01	2.121710e-01	-1.889132e-03	-1.375303e-01
## 2911	2.198626e-01	-1.290590e+00	4.122324e+00	3.470332e-01	-5.488254e-01
## 2912	1.708311e-01	-9.932956e-01	2.415227e+00	1.252532e-01	-2.843477e-01
## 2913	3.405948e-04	-1.993122e-03	2.896267e-03	-1.137895e-04	-2.072460e-04
## 2914	1.648654e-02	-9.104528e-02	9.607394e-01	1.499195e-01	-1.638169e-01
## 2916	-7.828385e-06	-5.462632e-08	1.837886e-05	3.453578e-06	6.391277e-06
## 2918	2.036275e+00	-1.199652e+01	1.643078e+01	-7.238071e-01	-1.206398e+00
## 2920	-3.749440e-03	-5.542549e-02	7.637034e-02	-3.893964e-03	1.150622e-02
## 2921	-2.762611e-01	1.629824e+00	5.900665e+00	1.641319e+00	-1.362357e+00
## 2922	6.316615e-04	-3.696172e-03	5.371607e-03	-2.109091e-04	-3.844892e-04
## 2923	1.676374e-04	-9.479327e-04	1.641138e-03	-4.771505e-06	-1.543717e-04
## 2924	3.310710e-05	-1.925236e-04	2.800641e-04	-1.093560e-05	-2.033377e-05

## 2925	-1.585358e-07	1.101305e-07	-1.045936e-05	-3.936021e-07	4.307725e-07
## 2926	3.501688e-05	-5.220248e-06	2.104419e-05	2.089892e-06	-4.561581e-05
## 2927	1.078658e-01	-6.239251e-01	9.070352e-01	-3.555231e-02	-6.650355e-02
## 2928	-3.145445e-02	-1.843807e-02	1.392004e+00	2.547017e-01	-2.111735e-01
## 2929	-7.363600e-02	-6.694561e-02	7.042354e-02	-8.521551e-03	1.041716e-01
## 2930	-1.390349e-01	6.696242e-01	2.415326e+00	6.727604e-01	-5.262087e-01
## 2931	-2.294288e+00	-2.156274e+00	2.292781e+00	-2.701886e-01	3.254084e+00
## 2933	-2.611685e-04	3.579584e-05	-1.885341e-02	-7.279589e-04	7.691973e-04
## 2934	-4.384834e-01	-6.015422e-01	7.032598e-01	-6.424010e-02	6.445065e-01
## 2935	-1.387877e-01	3.007898e-01	1.280607e+00	3.391294e-01	-1.772907e-01
## 2936	5.238403e-04	-3.065503e-03	4.454574e-03	-1.750134e-04	-3.187418e-04
## 2938	1.805923e-03	-7.279821e-02	7.230393e-01	1.114589e-01	-1.084352e-01
## 2939	-4.149912e-03	2.489903e-02	5.761135e-02	1.898486e-02	-1.488742e-02
## 2940	3.849914e-02	-3.432716e-01	1.400656e+00	1.493392e-01	-1.772930e-01
## 2941	3.045079e-04	-1.781950e-03	2.589403e-03	-1.017343e-04	-1.852863e-04
## 2943	3.734183e-01	-2.207490e+00	3.206661e+00	-1.262214e-01	-2.245775e-01
## 2945	-1.939173e-01	1.163536e+00	2.692714e+00	8.871666e-01	-6.956935e-01
## 2946	1.816722e-01	-1.239243e+00	6.004461e+00	7.164581e-01	-8.685995e-01
## 2947	-5.893481e-03	4.288980e-03	-3.866493e-01	-1.452560e-02	1.593416e-02
## 2948	-6.191800e+00	-4.726073e+00	4.658031e+00	-6.564536e-01	8.651732e+00
## 2950	2.737989e-01	-1.603090e+00	3.387715e+00	1.066174e-01	-3.621828e-01
## 2954	3.955965e-02	-2.384371e-01	2.370859e-01	-1.784742e-02	-2.072624e-02
## 2955	-6.474403e-03	2.739857e-03	3.570025e+00	6.693721e-01	-6.530870e-01
## 2956	6.750101e-05	2.499924e-05	-1.349539e-05	5.424541e-06	-9.118802e-05
## 2957	-1.144882e-04	-1.863292e-02	2.605069e-02	-1.243003e-03	2.368439e-03
## 2959	-2.207484e-02	6.878055e-02	2.031099e+00	4.029811e-01	-3.740184e-01
## 2961	-1.485167e-02	1.206888e-02	4.473958e-01	8.779207e-02	-6.875584e-02
## 2962	1.500737e-01	-8.792694e-01	2.184906e+00	1.196676e-01	-2.589540e-01
## 2964	-7.758869e-02	2.975371e-01	1.934175e+00	4.601974e-01	-3.732825e-01
## 2965	1.174489e-03	-2.036415e-03	3.220627e-03	-7.050555e-05	-1.291478e-03
## 2966	8.842648e-07	-1.296730e-06	2.125819e-06	-3.137748e-08	-1.006441e-06
## 2967	-1.619772e-05	-6.797116e-05	9.266930e-05	-4.866296e-06	2.871509e-05
## 2968	6.579009e-03	-5.343212e-03	9.552913e-03	7.922680e-06	-7.956846e-03
## 2969	1.088904e-04	-5.073163e-04	7.453585e-04	-2.752098e-05	-8.196063e-05

## 2970	2.210504e-02	-1.292845e-01	1.877093e-01	-7.386604e-03	-1.345523e-02
## 2974	1.620679e-01	-1.052121e+00	1.530398e+00	-5.971180e-02	-8.756533e-02
## 2976	-3.738089e-02	1.529352e-01	1.415921e+00	3.155010e-01	-2.729734e-01
## 2977	-1.405821e-02	3.289149e-02	2.384266e+00	4.572866e-01	-4.357615e-01
## 2979	2.882635e-03	-1.686915e-02	2.451296e-02	-9.630999e-04	-1.753979e-03
## 2980	-3.723191e-04	4.101810e-04	-3.608513e-02	-1.346399e-03	1.254344e-03
## 2981	1.008206e+00	-6.211190e+00	9.008846e+00	-3.575485e-01	-5.763515e-01
## 2982	-7.914817e-08	5.105591e-08	-5.265532e-06	-1.986483e-07	2.166663e-07
## 2985	-6.843057e-04	-3.316138e-03	4.424045e-03	-2.583921e-04	1.289282e-03
## 2986	1.785130e-04	-1.044483e-03	1.517822e-03	-5.962110e-05	-1.086485e-04
## 2987	9.039230e-05	3.651854e-05	-2.255958e-05	7.423041e-06	-1.224319e-04
## 2988	-3.998892e-02	2.621309e-01	3.919277e+00	8.201084e-01	-7.738847e-01
## 2989	-2.931314e-02	-1.869326e-02	1.690241e-02	-2.862770e-03	4.051990e-02
## 2992	2.131125e-04	-1.247317e-03	1.810179e-03	-7.130260e-05	-1.295957e-04
## 2994	-9.261913e-02	6.399833e-01	2.665639e+00	7.097117e-01	-6.192129e-01
## 2995	3.927832e-02	-2.298563e-01	3.340097e-01	-1.312304e-02	-2.389943e-02
## 2996	-1.047739e-03	6.286803e-03	1.457819e-02	4.798949e-03	-3.764357e-03
## 2997	-4.215393e-03	2.528741e-02	5.845161e-02	1.927821e-02	-1.511675e-02
## 2998	1.260751e-05	-2.094550e-03	2.940969e-03	-1.374709e-04	2.321202e-04
##	[,11]	[,12]	[,13]	[,14]	[,15]
## 3	2.622789e+00	-1.006456e+01	-8.584428e-01	3.337351e-01	9.872041e-01
## 4	2.598449e-04	-8.353879e-04	-7.506922e-05	-1.294249e-07	8.991931e-05
## 6	1.036761e-03	-3.294871e-03	-3.106263e-04	7.279184e-06	3.534709e-04
## 7	6.195141e+00	-2.017328e+01	-1.805540e+00	4.956009e-02	2.156235e+00
## 8	2.292024e-06	1.442552e-07	-2.003974e-07	-1.545351e-06	4.301775e-07
## 9	1.435455e-03	-4.615917e-03	-4.147618e-04	-5.051265e-07	4.967822e-04
## 10	6.720218e-05	-2.131562e-04	-1.926765e-05	-6.675324e-07	2.317316e-05
## 11	1.767318e-03	-5.682032e-03	-5.109911e-04	-3.417174e-07	6.114590e-04
## 13	1.095564e+00	6.723676e-01	-5.767128e-02	-8.613884e-01	1.745443e-01
## 15	1.375745e+00	-5.296070e-01	-1.529767e+00	7.942429e-01	-6.302024e-02
## 16	1.899106e-01	-5.094775e-02	-2.177180e-01	1.142983e-01	-1.180902e-02
## 18	5.553353e-01	-1.785746e+00	-1.604550e-01	-1.949335e-04	1.921838e-01
## 21	1.919963e-05	-2.840132e-05	-3.722384e-06	-7.141402e-06	5.452279e-06
## 22	-3.670559e-01	4.804297e-02	-4.316809e-02	1.323924e-01	7.648575e-02

## 23	-3.285532e+00	-2.780544e+00	-8.095345e-01	1.560074e+00	1.261710e+00
## 24	1.727016e-05	-5.324516e-05	-4.855561e-06	-4.845286e-07	5.877875e-06
## 25	5.424086e-03	-4.843199e-03	-5.231879e-03	2.571424e-03	1.322001e-04
## 26	2.633020e-04	-8.459987e-04	-7.604917e-05	-2.499809e-07	9.111402e-05
## 27	-1.941340e-02	-3.752043e-02	-5.597331e-04	2.051694e-02	-1.841142e-03
## 28	-1.975686e+01	-3.095460e+01	-1.219495e-01	1.939816e+01	-2.229232e+00
## 29	1.328084e-01	-4.256339e-01	-3.855451e-02	-2.640431e-05	4.582266e-02
## 30	3.399163e-03	1.671606e-03	-2.045887e-04	-2.587619e-03	5.619088e-04
## 31	2.465855e-01	-7.089848e-01	-9.564789e-02	1.703894e-02	7.371521e-02
## 32	-1.444508e+00	-2.720272e+00	-5.531170e-01	8.611051e-01	8.235640e-01
## 35	6.384245e-01	-2.052995e+00	-1.844663e-01	-2.103610e-04	2.209415e-01
## 36	1.089426e+00	-3.539068e+00	-3.194939e-01	3.820398e-03	3.834516e-01
## 38	5.158151e-05	-1.290334e-04	-1.263081e-05	-7.577382e-06	1.605444e-05
## 39	3.145110e+00	-1.634552e+00	-3.375411e+00	1.731149e+00	-8.599273e-02
## 40	-2.841785e+01	-2.385536e+01	1.100088e+00	2.366007e+01	-4.214641e+00
## 41	-5.343409e-01	6.156639e-02	-1.290989e-01	2.432040e-01	1.192019e-01
## 44	4.268325e-03	-5.453440e-03	-7.229562e-04	-1.699292e-03	1.073948e-03
## 45	3.265501e-04	-1.049926e-03	-9.434492e-05	-1.446258e-07	1.130056e-04
## 47	1.511621e-02	-4.860952e-02	-4.367677e-03	-4.979367e-06	5.231312e-03
## 49	1.182735e-01	-3.686541e-01	-3.347294e-02	-2.413240e-03	4.035660e-02
## 50	4.461572e-01	-8.374194e-01	-3.023509e-01	1.215009e-01	7.175503e-02
## 52	2.939413e-01	-1.283891e+00	-1.288836e-01	4.032032e-02	1.613245e-01
## 53	1.103239e-06	-3.174580e-07	-1.258603e-06	6.596552e-07	-6.561765e-08
## 55	5.198117e-04	-1.671276e-03	-1.501841e-04	-2.412936e-07	1.798931e-04
## 56	-3.525855e+00	-2.415931e+00	-7.861280e-01	1.617632e+00	1.237399e+00
## 57	6.142680e-01	-1.930413e+00	-1.748764e-01	-9.620051e-03	2.106918e-01
## 58	5.118060e-06	-1.381993e-05	-1.319008e-06	-5.469354e-07	1.648157e-06
## 59	-2.243063e+01	-1.902456e+01	8.562711e-01	1.871530e+01	-3.317157e+00
## 60	-2.854106e+00	-2.491937e+00	-7.065450e-01	1.372700e+00	1.097130e+00
## 63	6.658983e-01	-9.236296e-01	-5.465717e-01	2.484548e-01	6.180850e-02
## 65	3.438019e-04	2.805444e-05	-2.946527e-05	-2.328682e-04	6.384289e-05
## 66	6.254837e-04	-1.358638e-03	-1.407583e-04	-1.345595e-04	1.852078e-04
## 67	-1.133588e+00	-2.182334e-02	-1.557472e-01	4.287520e-01	2.668033e-01
## 69	-4.178155e+01	-3.160483e+01	1.831464e+00	3.407453e+01	-6.365791e+00

## 71	-4.203454e+00	-8.309980e+00	-1.323548e-01	4.480950e+00	-3.901685e-01
## 76	4.782217e-04	-1.537378e-03	-1.381640e-04	-2.680624e-07	1.655047e-04
## 77	2.792300e-03	-8.979553e-03	-8.068831e-04	-9.327089e-07	9.664622e-04
## 78	-6.412714e-01	-2.512901e+00	-4.176809e-01	5.346126e-01	6.004209e-01
## 79	-4.425482e+00	-2.443552e+00	-9.188531e-01	1.949302e+00	1.465499e+00
## 80	7.103296e-04	-2.284225e-03	-2.053886e-04	-4.173261e-07	2.460986e-04
## 81	1.189796e-03	-3.826873e-03	-3.439268e-04	-3.452144e-07	4.119767e-04
## 82	6.443541e-02	3.624795e-02	-3.595407e-03	-4.998572e-02	1.042660e-02
## 83	-3.413663e-03	-3.399856e-03	9.884034e-05	2.951358e-03	-4.795896e-04
## 87	-3.601266e+01	-3.624077e+01	1.023253e+00	3.121679e+01	-5.047951e+00
## 90	1.775739e-03	-5.710218e-03	-5.130814e-04	-6.022810e-07	6.145386e-04
## 93	1.829328e-03	-5.882553e-03	-5.285662e-04	-6.187741e-07	6.330852e-04
## 94	7.109611e-03	-2.286253e-02	-2.054251e-03	-2.341939e-06	2.460444e-03
## 95	7.640616e-05	-2.451350e-04	-2.204503e-05	-1.453015e-07	2.642041e-05
## 96	5.264345e-01	-8.644522e-01	-3.930073e-01	1.689515e-01	6.746879e-02
## 97	-8.204707e-02	-9.530600e-02	1.545039e-03	7.373503e-02	-1.087915e-02
## 98	2.821907e-01	1.726994e-01	-1.488473e-02	-2.217730e-01	4.498210e-02
## 99	-4.404164e-02	-1.041200e-01	-2.445785e-03	5.044018e-02	-3.243654e-03
## 100	4.122217e-04	-5.458109e-04	-7.730192e-05	-1.681338e-04	1.164253e-04
## 102	-2.306141e-01	-2.734698e+01	-3.625000e+00	3.294038e+00	4.949744e+00
## 103	-6.382583e-02	7.745317e-03	-1.230356e-02	2.667565e-02	1.386919e-02
## 104	4.431753e-07	-1.401048e-07	-5.019558e-07	2.624387e-07	-2.461335e-08
## 105	-3.911266e-03	5.022832e-04	-4.584815e-04	1.415379e-03	8.115551e-04
## 106	-1.187945e+01	-8.646662e+00	5.416685e-01	9.618535e+00	-1.826495e+00
## 107	-2.889449e-01	-1.773313e-01	1.521025e-02	2.271834e-01	-4.603445e-02
## 108	-5.457571e+00	-6.704900e+00	8.023153e-02	4.979667e+00	-7.058454e-01
## 109	-4.221891e+01	-3.309408e+01	1.779151e+00	3.466895e+01	-6.375927e+00
## 110	-8.912113e-01	-4.022916e-01	-2.916995e-01	2.325744e-01	5.004179e-01
## 111	-7.977935e+00	2.237593e-01	-9.694151e-01	3.070481e+00	1.666046e+00
## 112	1.098808e-03	-3.535297e-03	-3.180973e-04	-6.088648e-07	3.812812e-04
## 113	1.020363e+00	6.261720e-01	-5.371535e-02	-8.022529e-01	1.625655e-01
## 115	-1.387017e+00	-3.413339e+00	-8.510772e-02	1.616337e+00	-9.598445e-02
## 118	-3.376357e+00	-8.141676e-01	-5.286076e-01	1.407449e+00	8.657562e-01
## 119	5.789681e-01	-1.861743e+00	-1.672836e-01	-2.024586e-04	2.003626e-01

## 120	6.028292e-03	3.570023e-03	-3.253339e-04	-4.713144e-03	9.667453e-04
## 121	-8.104367e-01	1.038334e-01	-1.035287e-01	2.985942e-01	1.700506e-01
## 122	-1.495487e+01	-3.420649e+00	-2.464126e+00	6.026599e+00	4.076455e+00
## 124	1.466816e-03	-4.716571e-03	-4.238069e-04	-5.498529e-07	5.076177e-04
## 125	4.157186e+00	-1.789300e+01	-1.482024e+00	9.260069e-01	1.661679e+00
## 126	1.342471e-03	-4.316949e-03	-3.878919e-04	-4.580568e-07	4.645941e-04
## 127	6.632741e-01	-2.132896e+00	-1.916458e-01	-2.203384e-04	2.295408e-01
## 128	5.696522e-01	-4.222464e+01	-2.659161e+00	8.287053e+00	2.170919e+00
## 130	4.724848e-01	9.525955e-02	-3.688690e-02	-3.315305e-01	8.477164e-02
## 131	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
## 133	5.213247e-06	1.334677e-06	-3.981485e-07	-3.727123e-06	9.376782e-07
## 134	-3.166502e-04	-1.986740e-04	-6.888507e-05	1.422615e-04	1.091400e-04
## 135	2.274055e-03	-3.705306e-03	-1.705451e-03	7.349878e-04	2.876052e-04
## 136	-3.120920e-01	-1.593051e+00	-7.008700e-02	5.329748e-01	1.869020e-02
## 137	5.727132e-01	-3.117975e-01	-6.196638e-01	3.228887e-01	-1.596977e-02
## 138	3.124466e-03	-9.372220e-03	-8.620972e-04	-1.408333e-04	1.050192e-03
## 141	8.078141e-04	-2.597595e-03	-2.334057e-04	-2.922650e-07	2.795624e-04
## 143	5.452521e-05	-1.749517e-04	-1.573206e-05	-9.895969e-08	1.885344e-05
## 144	7.774395e-01	2.428877e-01	-5.537907e-02	-5.631892e-01	1.352845e-01
## 146	9.981476e-04	-3.209675e-03	-2.884018e-04	-3.504619e-07	3.454325e-04
## 147	2.605598e-01	-1.615288e+01	-1.021688e+00	3.141306e+00	8.396174e-01
## 148	5.448310e-04	7.062760e-05	-4.594795e-05	-3.754980e-04	1.015200e-04
## 149	-3.966342e+01	-2.434305e+01	2.087857e+00	3.118560e+01	-6.319100e+00
## 150	-6.902784e+00	-6.095736e-01	-9.833837e-01	2.701607e+00	1.658316e+00
## 151	5.454792e-04	3.331698e-04	-2.883177e-05	-4.285786e-04	8.701805e-05
## 153	5.397881e-04	-1.735598e-03	-1.559534e-04	-2.209806e-07	1.867958e-04
## 154	1.319692e-04	3.736951e-05	-9.689975e-06	-9.487295e-05	2.324839e-05
## 155	1.007687e-04	5.017941e-05	-6.024291e-06	-7.683568e-05	1.662323e-05
## 157	4.506699e+00	-1.493795e+01	-1.329675e+00	8.996633e-02	1.581398e+00
## 158	-1.075822e+01	-6.602569e+00	5.663173e-01	8.458674e+00	-1.713988e+00
## 159	1.260200e+01	-3.923570e+01	-4.019227e+00	2.627120e-01	4.181918e+00
## 162	1.803254e+00	-5.810683e+00	-5.217679e-01	1.852068e-03	6.246392e-01
## 163	3.629255e-03	-5.327127e-03	-6.572705e-04	-1.303178e-03	9.467532e-04
## 164	3.971585e-03	-1.352417e-02	-1.248735e-03	8.409919e-05	1.513462e-03

## 165	6.256839e-01	-2.604664e-01	-6.903554e-01	3.576486e-01	-2.607837e-02
## 166	4.079635e-02	-1.311899e-01	-1.178772e-02	-1.341897e-05	1.411855e-02
## 167	-6.215924e-01	-1.902043e+00	-6.112631e-02	8.007700e-01	-2.484011e-02
## 168	8.949776e-01	-2.162305e+00	-4.668064e-01	1.459251e-01	2.105961e-01
## 169	2.320821e-01	-6.215620e-02	-2.660949e-01	1.397008e-01	-1.444587e-02
## 171	-3.468647e+00	-5.195335e-01	-4.831675e-01	1.431771e+00	7.985912e-01
## 172	1.813974e-01	-5.634668e-01	-5.118768e-02	-4.134957e-03	6.180836e-02
## 174	-4.784550e-02	-4.367192e-02	1.635180e-03	4.055442e-02	-6.923917e-03
## 175	4.127893e-04	2.074601e-04	-2.493558e-05	-3.156143e-04	6.870372e-05
## 176	6.297568e+00	-1.693823e+00	-7.395089e+00	3.923539e+00	-3.737620e-01
## 177	-9.425152e+00	6.529886e-01	-1.212459e+00	3.488231e+00	2.071024e+00
## 178	1.315730e-01	-9.118769e-01	-6.833099e-02	1.000744e-01	6.965815e-02
## 179	6.492802e+00	-2.081438e+01	-1.895065e+00	1.133068e-02	2.237970e+00
## 180	-1.948115e+00	-2.214810e+00	3.965703e-02	1.740882e+00	-2.606643e-01
## 182	-3.266133e+00	-2.322987e+00	1.522767e-01	2.633366e+00	-5.048222e-01
## 183	1.824260e-01	6.771000e-02	-1.233342e-02	-1.343516e-01	3.122186e-02
## 185	9.533784e-05	5.852430e-05	-5.032305e-06	-7.498061e-05	1.521557e-05
## 186	-4.608217e-01	6.027635e-02	-5.420070e-02	1.662171e-01	9.603140e-02
## 188	6.328513e-04	-6.523464e-03	-4.644535e-04	9.151010e-04	4.465675e-04
## 189	7.032444e-02	3.707328e-02	-4.077480e-03	-5.404362e-02	1.150084e-02
## 190	1.503411e-01	-4.814809e-01	-4.397828e-02	3.115842e-04	5.176536e-02
## 192	7.612650e-01	3.221778e-01	-4.902243e-02	-5.687820e-01	1.283567e-01
## 194	-7.495997e-06	2.404198e-05	2.183969e-06	-1.018631e-08	-2.585421e-06
## 195	2.536487e-01	-8.156634e-01	-7.328923e-02	-8.355581e-05	8.778094e-02
## 196	1.719681e-03	-5.529621e-03	-4.968706e-04	-6.603560e-07	5.951352e-04
## 197	8.881191e-08	-3.779964e-08	-9.784536e-08	5.066869e-08	-3.577737e-09
## 199	-5.813407e-03	-1.540340e-02	-4.244198e-04	6.999693e-03	-3.487751e-04
## 200	-1.060032e+00	1.387224e-01	-1.246693e-01	3.823425e-01	2.208894e-01
## 201	5.333064e-03	-1.002559e-02	-1.101379e-03	-1.463891e-03	1.498280e-03
## 203	-2.911975e-02	-1.882652e-02	1.473855e-03	2.309136e-02	-4.592586e-03
## 204	3.342042e-05	-1.067653e-04	-9.615161e-06	-1.585713e-07	1.153561e-05
## 208	9.314766e-01	-3.165020e+00	-2.914997e-01	1.951009e-02	3.528524e-01
## 209	1.799159e-01	-5.630447e-01	-5.478575e-02	1.121258e-03	6.055101e-02
## 210	6.687193e-04	-1.282672e-03	-1.396748e-04	-1.783086e-04	1.891077e-04

## 211	1.337610e+00	-4.245962e-01	-1.514039e+00	7.912638e-01	-7.399162e-02
## 212	1.131829e-04	-1.316166e-04	-1.836581e-05	-4.772245e-05	2.783842e-05
## 214	-3.379010e-02	-6.470655e-02	-9.362423e-04	3.558902e-02	-3.235713e-03
## 215	2.842813e-02	-1.575371e-02	-3.545445e-03	-1.553753e-02	6.148217e-03
## 219	1.069241e-05	-2.874388e-06	-1.225638e-05	6.434107e-06	-6.640501e-07
## 220	9.244090e-04	-2.974991e-03	-2.674329e-04	-6.128713e-08	3.203812e-04
## 222	-2.796917e+00	-3.214480e+00	5.479641e-02	2.506505e+00	-3.725458e-01
## 223	-1.305473e-04	-8.859010e-06	-1.249763e-05	5.803404e-05	2.014013e-05
## 224	7.988514e-01	1.638378e-01	-6.219492e-02	-5.611038e-01	1.431918e-01
## 226	4.111812e-03	-7.446558e-03	-8.320082e-04	-1.187187e-03	1.141959e-03
## 228	-6.210261e+00	-2.057918e+00	-1.095106e+00	2.592463e+00	1.784641e+00
## 230	-7.824491e+00	4.328033e-02	-1.050133e+00	2.937262e+00	1.806804e+00
## 231	-6.980927e-01	-2.630266e+00	-4.407853e-01	5.697188e-01	6.346442e-01
## 232	6.135230e+00	-1.991638e+01	-1.784269e+00	3.638919e-02	2.132376e+00
## 233	3.669945e+00	-1.859127e+00	-3.952775e+00	2.029970e+00	-1.070385e-01
## 235	1.114066e-01	5.939196e-02	-6.418668e-03	-8.575057e-02	1.818717e-02
## 237	8.695791e-05	5.338862e-05	-4.593278e-06	-6.839658e-05	1.388489e-05
## 238	3.369182e-03	-7.430578e-03	-7.636678e-04	-6.999360e-04	1.000380e-03
## 239	5.432380e-05	-1.448919e-05	-6.230265e-05	3.271222e-05	-3.389649e-06
## 242	1.656966e-06	1.291361e-06	-1.500397e-07	-1.459731e-06	3.996356e-07
## 244	1.656748e-03	-5.327591e-03	-4.787000e-04	-5.590812e-07	5.733578e-04
## 246	3.371907e-05	-2.811150e-05	-1.453642e-05	-2.879552e-05	2.597208e-05
## 247	-1.040757e+01	1.362576e+00	-1.223948e+00	3.753836e+00	2.168626e+00
## 248	-7.654453e-01	-2.266427e+00	-4.019204e-01	5.525366e-01	5.848733e-01
## 249	4.401790e+00	-2.006323e+00	-4.806083e+00	2.480481e+00	-1.593537e-01
## 250	7.494613e-03	3.155090e-03	-4.836592e-04	-5.596192e-03	1.264481e-03
## 252	5.782558e+00	-1.869034e+01	-1.676691e+00	1.763872e-02	2.005836e+00
## 253	6.627896e+00	-2.469600e+00	-7.397138e+00	3.847670e+00	-3.163360e-01
## 254	5.382407e-07	-1.658706e-07	-6.108600e-07	3.195969e-07	-3.048882e-08
## 255	-5.998178e+00	-4.583422e+00	2.600736e-01	4.901239e+00	-9.116213e-01
## 256	-6.911725e+00	-6.730976e-01	-9.783141e-01	2.730868e+00	1.644435e+00
## 258	1.093667e+00	-1.144711e+00	-1.006102e+00	4.842536e-01	4.992145e-02
## 259	9.438011e-07	-2.749830e-07	-1.075713e-06	5.636208e-07	-5.566425e-08
## 260	-2.630080e+00	-1.806351e+00	1.265871e-01	2.107353e+00	-4.096460e-01

## 261	5.733276e-01	-2.596387e+00	-2.133399e-01	1.527358e-01	2.374301e-01
## 266	-1.694657e-02	5.449545e-02	4.896541e-03	5.582490e-06	-5.864750e-03
## 267	-2.540079e-01	-2.185365e-01	-6.349173e-02	1.213611e-01	9.822600e-02
## 268	2.387780e-10	-1.260788e-09	-1.355748e-10	5.873415e-11	1.713912e-10
## 269	2.904476e-02	-8.235374e-03	-3.316859e-02	1.739009e-02	-1.744635e-03
## 270	-1.816727e-07	5.717064e-07	5.104550e-08	1.773493e-09	-6.099991e-08
## 271	-2.999837e-02	-3.922719e-02	2.945165e-04	2.785835e-02	-3.763927e-03
## 273	8.974841e-04	-2.885684e-03	-2.593424e-04	-4.314035e-07	3.106637e-04
## 274	4.414090e-04	-1.419052e-03	-1.275267e-04	-2.400127e-07	1.527599e-04
## 275	-7.418923e+00	-5.321343e+00	3.431312e-01	5.990796e+00	-1.144507e+00
## 276	2.247304e-03	-7.227508e-03	-6.494534e-04	-6.609369e-07	7.778972e-04
## 277	1.437198e-02	8.820357e-03	-7.565515e-04	-1.129999e-02	2.289733e-03
## 278	5.502478e-04	-1.762418e-03	-1.585565e-04	-1.624371e-06	1.900855e-04
## 279	1.684709e-03	-5.417502e-03	-4.867790e-04	-5.687480e-07	5.830344e-04
## 280	1.799770e-03	-5.787504e-03	-5.200256e-04	-6.085489e-07	6.228556e-04
## 281	7.909979e-01	4.854503e-01	-4.163870e-02	-6.219232e-01	1.260211e-01
## 283	3.054772e-04	-9.819541e-04	-8.824761e-05	-1.855117e-07	1.057107e-04
## 284	2.136536e-03	-1.293065e-03	-2.239941e-03	1.138803e-03	-3.314086e-05
## 286	2.709336e-01	-7.442348e-01	-1.152205e-01	2.584117e-02	7.617617e-02
## 287	-6.839835e-04	-3.088765e-03	-1.292687e-04	1.084811e-03	2.227601e-05
## 288	1.522759e-03	-4.891313e-03	-4.415753e-04	6.146665e-07	5.262302e-04
## 289	3.241444e-04	-1.041795e-03	-9.363618e-05	-2.382235e-07	1.121738e-04
## 292	1.045983e-04	-7.161959e-04	-9.835697e-05	2.153189e-05	1.382477e-04
## 295	1.208437e-03	7.416408e-04	-6.361306e-05	-9.501354e-04	1.925273e-04
## 296	1.752451e-03	-3.588901e-03	-1.100815e-03	4.164716e-04	3.232487e-04
## 297	7.645988e-04	-4.370496e-03	-4.899712e-04	2.014992e-04	6.401700e-04
## 298	1.892190e-02	-6.084757e-02	-5.467294e-03	-6.233039e-06	6.548359e-03
## 299	-1.373112e+01	-3.842385e+00	-2.354988e+00	5.615365e+00	3.869049e+00
## 300	1.918934e-03	-6.170478e-03	-5.544492e-04	-7.016863e-07	6.640957e-04
## 301	2.160853e-01	-6.497734e-01	-7.280267e-02	5.945391e-03	6.923547e-02
## 302	-4.634642e+00	-2.922453e+00	2.391525e-01	3.660020e+00	-7.345792e-01
## 303	1.074674e-04	-3.452719e-04	-3.103408e-05	-1.019768e-07	3.717962e-05
## 305	4.173130e+00	-1.714614e+00	-1.002113e+01	6.499910e+00	3.505190e-01
## 306	-2.179684e-01	-1.532659e-01	1.027094e-02	1.753787e-01	-3.377557e-02

## 308	2.475186e-03	-7.959558e-03	-7.152120e-04	-8.418963e-07	8.566514e-04
## 310	-1.975728e+00	-6.674407e-01	-3.544101e-01	8.207902e-01	5.781489e-01
## 311	-7.058083e+00	-2.330757e-01	-9.826180e-01	2.680939e+00	1.678698e+00
## 312	5.273371e-04	-1.695111e-03	-1.523626e-04	-3.522764e-07	1.825295e-04
## 314	-4.839047e-02	-5.822482e-02	7.869217e-04	4.390150e-02	-6.318116e-03
## 315	1.008684e-04	-2.042586e-04	-2.247653e-05	-2.561997e-05	3.043875e-05
## 316	8.881878e-04	-1.753544e-03	-1.933966e-04	-2.326432e-04	2.625788e-04
## 317	5.547465e-04	-1.783774e-03	-1.602825e-04	-2.137904e-07	1.919807e-04
## 318	2.342229e-06	-6.488200e-07	-2.679308e-06	1.405555e-06	-1.428026e-07
## 320	-1.728874e+01	4.661169e-01	-2.258977e+00	6.459698e+00	3.904797e+00
## 321	5.557109e-04	-1.781163e-03	-1.602078e-04	-1.384701e-06	1.920337e-04
## 322	-1.344891e+00	-1.514508e+00	2.827198e-02	1.198851e+00	-1.806579e-01
## 323	9.762005e-04	-3.133600e-03	-3.039787e-04	-2.955187e-05	3.791626e-04
## 324	-3.470972e-01	-2.130201e-01	1.827143e-02	2.729056e-01	-5.529922e-02
## 325	-2.998006e+00	-4.795484e-01	-4.500520e-01	1.205209e+00	7.488317e-01
## 328	1.035512e+00	6.355132e-01	-5.451009e-02	-8.141728e-01	1.649769e-01
## 329	-6.985860e+00	-5.168621e+00	3.090932e-01	5.668122e+00	-1.062028e+00
## 330	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
## 332	-4.509223e+00	-2.720854e+00	-9.667059e-01	2.013161e+00	1.534787e+00
## 334	1.839279e+00	-1.838373e+01	-1.303316e+00	2.560402e+00	1.244782e+00
## 335	-6.602183e-02	-1.426752e-01	-2.829308e-03	7.287410e-02	-5.534556e-03
## 336	-1.772392e+00	-9.555678e+00	-4.681681e-01	3.176417e+00	1.208914e-01
## 338	-5.861340e+00	-6.222060e-01	-8.008714e-01	2.366696e+00	1.337350e+00
## 340	1.048569e-03	-3.313755e-03	-3.195912e-04	1.117587e-05	3.549129e-04
## 341	-3.477760e+00	-1.231590e-01	-5.823232e+00	5.377071e+00	1.349191e+00
## 342	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 344	-5.728307e-01	-3.624158e-01	2.948402e-02	4.526173e-01	-9.073309e-02
## 345	3.076560e-03	-9.894142e-03	-8.890965e-04	-9.880089e-07	1.064953e-03
## 346	1.184115e-03	-3.949832e-03	-3.641388e-04	1.206473e-05	4.414512e-04
## 349	-5.254415e-01	-5.280625e-01	1.497315e-02	4.553220e-01	-7.368603e-02
## 351	-4.568812e-01	-2.851364e-01	1.815419e-02	3.667045e-01	-7.398492e-02
## 352	8.848484e-01	-2.846248e+00	-2.557189e-01	-1.228839e-04	3.062625e-01
## 353	2.724119e-03	-8.760463e-03	-7.872206e-04	-9.122948e-07	9.429264e-04
## 354	1.329321e-02	1.592600e-03	-1.104910e-03	-9.104320e-03	2.438061e-03

## 358	6.920406e-01	-1.952082e+00	-2.792982e-01	5.540769e-02	2.016835e-01
## 359	-1.122816e+01	1.196030e+00	-2.220794e+00	4.738343e+00	2.473144e+00
## 361	-3.286522e-04	2.641561e-05	-3.897911e-05	1.228268e-04	6.799075e-05
## 362	-3.573253e-01	-1.330710e+00	-4.978923e-02	5.090213e-01	-2.693250e-03
## 364	5.128523e-02	-1.712146e-01	-1.521083e-02	1.270101e-03	1.806294e-02
## 367	7.077170e-04	-7.269121e-05	-6.956158e-05	-4.536717e-04	1.393859e-04
## 368	-1.131250e+00	-4.642663e+00	-7.371899e-01	1.001997e+00	1.045923e+00
## 370	9.268464e-05	-2.977293e-04	-2.676224e-05	-9.798114e-08	3.206312e-05
## 372	-7.037456e+00	-1.117530e+01	-5.265104e-02	6.940292e+00	-7.867710e-01
## 373	1.890077e-04	-3.620260e-03	-4.567552e-04	3.453637e-04	6.164477e-04
## 375	-1.972244e-02	-2.938283e-02	-2.811780e-05	1.905280e-02	-2.299294e-03
## 377	-1.312325e-02	-5.890737e-02	-2.451010e-03	2.075001e-02	3.964616e-04
## 378	3.699939e+00	-2.568151e+00	-3.642474e+00	1.740819e+00	2.446515e-02
## 379	7.032391e-04	-2.261266e-03	-2.031884e-04	-2.685005e-07	2.433720e-04
## 380	8.175332e-04	-2.628644e-03	-2.362181e-04	-3.586926e-07	2.829473e-04
## 381	2.343918e-01	1.435084e-01	-1.235968e-02	-1.842206e-01	3.735982e-02
## 382	-4.783832e+00	6.263468e-01	-5.625816e-01	1.725443e+00	9.968004e-01
## 383	1.670882e-01	-1.822877e+00	-2.164281e-01	1.517267e-01	2.865048e-01
## 386	-3.618888e+00	-2.729345e+00	-8.477431e-01	1.679427e+00	1.329815e+00
## 388	7.015104e+00	-2.514568e+00	-7.858006e+00	4.092547e+00	-3.485299e-01
## 389	8.057600e-01	-2.147277e-01	-9.241597e-01	4.852426e-01	-5.030258e-02
## 391	1.880729e+00	-2.293384e+00	-1.569496e+00	6.887733e-01	1.483715e-01
## 392	4.884817e-01	1.152964e-01	-3.709840e-02	-3.462054e-01	8.682188e-02
## 393	2.528464e+00	-1.542295e+00	-2.647254e+00	1.345148e+00	-3.753088e-02
## 395	-1.738065e+00	-1.129345e+00	-3.585164e-01	8.165672e-01	5.598710e-01
## 396	4.975236e+00	-1.569138e+00	-5.635426e+00	2.946349e+00	-2.768738e-01
## 397	-8.667766e-01	-3.261572e+00	-5.467410e-01	7.068753e-01	7.872459e-01
## 398	1.568428e-01	9.591140e-02	-8.277785e-03	-1.232470e-01	2.500516e-02
## 402	9.941696e-04	-3.201431e-03	-3.049754e-04	-2.142071e-05	3.768726e-04
## 403	2.635797e-04	-9.399070e-03	-6.085323e-04	1.749019e-03	5.170326e-04
## 404	3.582232e-03	-1.152219e-02	-1.035642e-03	-1.153469e-06	1.240638e-03
## 405	4.995008e-01	2.478791e-01	-2.991461e-02	-3.806915e-01	8.244146e-02
## 406	1.306783e+00	-4.203145e+00	-3.776375e-01	-2.475590e-04	4.522869e-01
## 407	1.599251e-03	-5.142685e-03	-4.620869e-04	-5.434908e-07	5.534606e-04

## 408	7.032391e-04	-2.261266e-03	-2.031884e-04	-2.685005e-07	2.433720e-04
## 410	8.743432e-04	-2.485077e-03	-2.325660e-04	-6.721177e-05	2.866391e-04
## 411	5.227050e-04	-1.680752e-03	-1.510248e-04	-1.996051e-07	1.808917e-04
## 412	-2.999837e-02	-3.922719e-02	2.945165e-04	2.785835e-02	-3.763927e-03
## 414	1.912460e-03	-6.149480e-03	-5.527217e-04	-5.347343e-07	6.617874e-04
## 415	-4.434440e+00	-8.519096e+00	-1.720627e+00	2.662544e+00	2.559329e+00
## 416	-1.293251e-01	-9.583445e-02	5.791570e-03	1.050610e-01	-1.980063e-02
## 417	4.881378e-01	-8.556377e-01	-3.483860e-01	1.452661e-01	7.012554e-02
## 418	-1.255903e+01	-1.001456e+01	5.187618e-01	1.034798e+01	-1.888379e+00
## 419	1.668800e-03	-5.366350e-03	-4.822223e-04	-6.122176e-07	5.776031e-04
## 420	1.608013e-04	7.747074e-05	-1.068893e-05	-1.232305e-04	2.836343e-05
## 421	5.896943e-04	-1.896180e-03	-1.703812e-04	-2.198879e-07	2.040754e-04
## 422	2.483682e-03	-7.986414e-03	-7.176489e-04	-9.535794e-07	8.595889e-04
## 423	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
## 424	2.381281e+00	-1.439935e+00	-2.496792e+00	1.269387e+00	-3.708175e-02
## 425	-4.701900e-05	-3.651912e-05	-3.506564e-06	3.159735e-05	3.172083e-06
## 426	3.054420e-04	-9.817188e-04	-8.822901e-05	-2.094508e-07	1.056909e-04
## 428	5.451386e-01	-1.747602e+00	-1.571888e-01	-1.278226e-03	1.883912e-01
## 429	6.566495e-01	-2.111417e+00	-1.897209e-01	-2.543011e-04	2.272396e-01
## 430	-8.287435e-02	-4.297403e-01	-6.789888e-02	8.142598e-02	9.646628e-02
## 431	8.126819e-05	-2.604484e-04	-2.343330e-05	-2.170337e-07	2.809347e-05
## 434	3.986682e-05	2.445538e-05	-2.099352e-06	-3.134298e-05	6.352147e-06
## 435	-2.450331e+00	-1.045703e+00	-3.968603e-01	1.133491e+00	6.227690e-01
## 436	-7.413410e+00	7.953113e-02	-7.744851e+00	7.910002e+00	2.363688e+00
## 437	-6.741187e+00	-3.654157e+00	-1.390145e+00	2.962050e+00	2.219095e+00
## 438	-2.201171e-01	-1.955116e-01	7.858619e-03	1.854676e-01	-3.212199e-02
## 439	-7.450563e+00	-3.992170e+00	-1.521158e+00	3.279847e+00	2.427167e+00
## 442	3.417827e-06	2.108426e-06	-1.823982e-07	-2.693471e-06	5.498838e-07
## 444	-5.905689e+00	-3.417280e+01	-1.576823e+00	1.091527e+01	5.488170e-01
## 447	9.723156e-01	-3.111679e+00	-2.814243e-01	-1.764840e-03	3.354011e-01
## 448	1.850588e-03	-6.075021e-03	-5.506503e-04	1.439878e-05	6.619697e-04
## 450	-8.072558e-02	-8.806536e-02	1.872243e-03	7.137647e-02	-1.098221e-02
## 451	-6.527921e+00	-4.310304e+00	3.248760e-01	5.194976e+00	-1.025198e+00
## 452	-2.070754e-02	-1.415994e-02	1.000355e-03	1.657900e-02	-3.228052e-03

## 455	3.305183e-01	-7.727781e-01	-1.785114e-01	5.755418e-02	7.455560e-02
## 456	-5.385299e-01	-3.496380e-01	2.716781e-02	4.273461e-01	-8.486469e-02
## 457	-8.592782e-01	-5.115736e-01	-1.694931e-01	4.002451e-01	2.654168e-01
## 458	1.610246e+01	-4.362439e+00	-1.919652e+01	1.025137e+01	-9.223803e-01
## 460	1.452436e+00	-1.255160e+00	-1.413273e+00	6.972788e-01	2.957953e-02
## 462	-1.221792e+00	-3.699657e-01	-2.135454e-01	5.025951e-01	3.498374e-01
## 464	-1.631637e+00	-2.316671e+00	-4.863689e-01	9.332559e-01	7.219240e-01
## 465	6.236530e-04	2.991757e-04	-3.826959e-05	-4.735537e-04	1.039647e-04
## 466	1.255334e-03	-4.036422e-03	-3.626989e-04	-5.001219e-07	4.344304e-04
## 467	1.838619e-01	-5.736481e-01	-5.661182e-02	1.637961e-03	6.160759e-02
## 468	5.553065e-04	-1.400215e-03	-1.382865e-04	-8.134724e-05	1.764110e-04
## 469	-3.840174e+00	-1.109194e+00	-6.640745e-01	1.573400e+00	1.089910e+00
## 470	-2.393212e-01	-1.718886e-01	1.105425e-02	1.932996e-01	-3.690798e-02
## 473	1.806606e+01	-4.869355e+00	-2.130650e+01	1.132563e+01	-1.061567e+00
## 474	-7.194266e+00	-8.336580e+00	1.367265e-01	6.461262e+00	-9.549203e-01
## 475	2.290155e-03	-7.364526e-03	-6.617237e-04	-7.554932e-07	7.925710e-04
## 476	-1.101611e+00	1.426236e-01	-1.297632e-01	3.975206e-01	2.298303e-01
## 477	-8.734832e-01	-5.361496e-01	4.597605e-02	6.867931e-01	-1.391589e-01
## 478	2.220193e-10	-9.893063e-10	-1.005224e-10	3.215616e-11	1.263335e-10
## 479	-4.147924e-03	-8.372263e-03	-2.047735e-03	2.051833e-03	3.186140e-03
## 480	1.010274e+00	-3.248784e+00	-2.919113e-01	-3.296922e-04	3.496322e-01
## 481	-1.331702e-01	1.247053e-02	-5.572965e-02	7.855409e-02	3.248460e-02
## 482	6.342860e+00	-2.401425e+00	-7.067946e+00	3.674417e+00	-2.974609e-01
## 485	-5.623167e-02	-5.347239e-02	1.789395e-03	4.810305e-02	-8.032900e-03
## 487	-1.808244e-02	-8.945339e-03	1.084676e-03	1.377565e-02	-2.985837e-03
## 488	2.143291e-03	-6.892242e-03	-6.192854e-04	-7.057621e-07	7.417397e-04
## 489	1.012265e+00	5.548570e-01	-5.738296e-02	-7.822698e-01	1.645109e-01
## 490	-1.370407e-02	-3.160265e-02	-7.108379e-04	1.553319e-02	-1.050169e-03
## 491	-6.584159e+00	-3.175186e-01	-8.263948e-01	2.642984e+00	1.390787e+00
## 493	3.687818e-01	2.263267e-01	-1.941303e-02	-2.899549e-01	5.875408e-02
## 495	9.043323e-01	-3.365667e+00	-3.213401e-01	5.348652e-02	3.947185e-01
## 496	1.859831e-03	-5.980704e-03	-5.373854e-04	-6.187279e-07	6.436480e-04
## 497	7.453054e-04	-2.396525e-03	-2.153431e-04	-2.869007e-07	2.579314e-04
## 500	-9.063529e-01	-7.825752e-01	-2.231783e-01	4.349393e-01	3.467600e-01

## 502	-1.070773e-02	-9.235946e-03	3.989054e-04	8.965352e-03	-1.575360e-03
## 503	-8.259205e+00	-1.403465e+01	-1.185158e-01	8.333827e+00	-8.785270e-01
## 504	1.919848e-03	-6.173640e-03	-5.547221e-04	-6.500737e-07	6.644137e-04
## 506	7.103622e-01	4.359622e-01	-3.739399e-02	-5.585232e-01	1.131743e-01
## 507	-2.709383e-02	-3.780815e-03	-4.155486e-03	1.062395e-02	6.969096e-03
## 508	4.711070e-04	-1.161823e-03	-1.148116e-04	-7.323332e-05	1.467131e-04
## 509	7.291267e-01	-2.326760e+00	-2.095692e-01	-3.915113e-03	2.514576e-01
## 510	1.741600e-03	-5.600447e-03	-5.032175e-04	-5.884247e-07	6.027236e-04
## 512	-2.358744e-07	3.088302e-08	-2.773897e-08	8.507571e-08	4.914882e-08
## 514	4.326974e-01	2.655036e-01	-2.278064e-02	-3.401985e-01	6.893947e-02
## 515	-1.312777e+01	-1.939792e+01	-8.798131e-03	1.264925e+01	-1.538353e+00
## 516	-5.476855e+00	-1.833026e+00	-9.623840e-01	2.295721e+00	1.566333e+00
## 517	1.194495e+00	-3.880187e+00	-3.477121e-01	7.404749e-03	4.155972e-01
## 519	2.965019e-02	-9.554253e-02	-8.592924e-03	1.310439e-05	1.029631e-02
## 520	-1.995446e+00	2.154268e-01	-2.248604e-01	7.450675e-01	3.944147e-01
## 521	1.721761e-01	-6.927859e-01	-6.807652e-02	1.620160e-02	8.457829e-02
## 522	2.116614e-03	-6.806453e-03	-6.115771e-04	-6.972138e-07	7.325072e-04
## 523	4.102882e-01	2.513533e-01	-2.162553e-02	-3.224977e-01	6.538864e-02
## 524	-6.647338e+00	-1.877545e+00	-1.124993e+00	2.742389e+00	1.843707e+00
## 526	-3.306062e-01	-2.122162e-01	1.682829e-02	2.618516e-01	-5.221727e-02
## 527	1.499810e-04	-4.816797e-04	-4.330394e-05	-1.843751e-07	5.188648e-05
## 529	5.082519e-05	3.189120e-05	-2.836125e-06	-4.036188e-05	8.444143e-06
## 531	1.127356e-01	-3.207901e+00	-4.073452e-01	3.326214e-01	5.500200e-01
## 532	-8.211671e+00	7.237465e-01	-1.314565e+00	3.232695e+00	1.803722e+00
## 533	4.990459e-04	-1.604767e-03	-1.441950e-04	-1.723716e-07	1.727092e-04
## 535	6.982598e-01	4.278806e-01	-3.680062e-02	-5.488776e-01	1.112843e-01
## 536	7.440749e-04	6.142723e-05	-6.409028e-05	-5.045908e-04	1.388174e-04
## 537	2.642470e-04	-8.493562e-04	-7.633316e-05	-1.738688e-07	9.144030e-05
## 538	-2.203141e-03	-3.589675e-03	-5.287676e-05	2.152609e-03	-1.843605e-04
## 541	6.819110e-01	-1.817851e-01	-7.820942e-01	4.106460e-01	-4.256226e-02
## 542	2.611354e-04	-1.870642e-04	-3.574321e-05	-1.347478e-04	5.959753e-05
## 544	2.540938e-04	-8.168312e-04	-7.340457e-05	-1.416002e-07	8.792773e-05
## 545	5.207712e-04	-1.674435e-03	-1.504629e-04	-2.229591e-07	1.802233e-04
## 546	8.113936e-01	-4.748220e+00	-5.146883e-01	2.516868e-01	6.621654e-01

## 547	2.922967e-02	1.793619e-02	-1.538832e-03	-2.298133e-02	4.656974e-03
## 548	-2.584755e+00	-4.035478e+00	-8.724382e-01	1.453260e+00	1.309843e+00
## 550	1.391284e-04	-4.411268e-04	-3.981277e-05	-1.332930e-06	4.784274e-05
## 551	-6.208864e+00	-3.412509e-01	-7.957430e-01	2.483420e+00	1.339474e+00
## 552	3.771820e+00	-1.458284e+00	-4.160500e+00	2.139581e+00	-1.640153e-01
## 553	6.023550e+00	-1.958630e+01	-1.753790e+00	4.239181e-02	2.095138e+00
## 554	1.889370e-03	-6.075633e-03	-5.459155e-04	-6.395392e-07	6.538656e-04
## 555	1.625365e-01	-3.706063e-01	-3.763672e-02	-3.119625e-02	4.881910e-02
## 556	1.123518e+00	-4.388528e+00	-3.725195e-01	1.587705e-01	4.267012e-01
## 557	-2.004928e-02	-4.686901e-03	1.525466e-03	1.420038e-02	-3.565734e-03
## 558	6.116496e+00	-2.016279e+01	-1.797775e+00	9.933363e-02	2.140841e+00
## 560	1.700159e-03	-5.467189e-03	-4.912446e-04	-5.745504e-07	5.883837e-04
## 561	4.570627e-03	-1.015772e-05	-4.165953e-04	-3.013249e-03	8.649088e-04
## 562	1.373878e+00	-9.721321e+00	-7.279164e-01	1.083284e+00	7.410120e-01
## 563	-9.849618e+00	-8.115875e-01	-1.379416e+00	3.868457e+00	2.325696e+00
## 564	9.164788e-01	-2.947150e+00	-2.648164e-01	-2.902237e-04	3.171669e-01
## 565	2.936469e-03	-9.448752e-03	-8.493384e-04	-4.054482e-07	1.017476e-03
## 566	-5.420039e-03	-2.380459e-02	-9.913295e-04	8.468030e-03	1.418194e-04
## 570	-1.948115e+00	-2.214810e+00	3.965703e-02	1.740882e+00	-2.606643e-01
## 571	9.915834e-02	-3.188656e-01	-2.865080e-02	-3.266437e-05	3.431602e-02
## 573	7.012977e-04	-5.440040e-04	-9.943718e-05	-3.544380e-04	1.637233e-04
## 574	7.017057e-04	-4.519740e-03	-5.197446e-04	2.405317e-04	6.846126e-04
## 575	4.984502e-01	1.454450e-01	-3.614031e-02	-3.589751e-01	8.723813e-02
## 578	2.247895e-05	-6.837633e-05	-6.272065e-06	-8.328278e-07	7.622795e-06
## 582	-1.100823e-01	-3.387462e-01	-5.100060e-02	9.166713e-02	7.055144e-02
## 583	-4.513324e+00	-3.246773e+00	-1.025859e+00	2.089650e+00	1.610249e+00
## 584	-9.090400e+00	-6.274516e+00	-2.040595e+00	4.166146e+00	3.213005e+00
## 585	-7.125551e+00	1.367267e-01	-6.721578e+00	7.052959e+00	2.191384e+00
## 586	-2.700770e+00	-2.254610e+00	1.053198e-01	2.246020e+00	-4.011536e-01
## 587	2.110785e-01	-3.439651e+00	-2.477209e-01	5.855000e-01	2.035788e-01
## 588	-7.562754e+00	1.707069e-01	-9.578375e-01	2.873371e+00	1.649229e+00
## 589	-7.304650e+00	-8.705506e-01	-1.099830e+00	2.848065e+00	1.850454e+00
## 590	4.051288e+00	-1.303010e+01	-1.170862e+00	-1.044289e-03	1.402417e+00
## 591	-5.119714e+00	-4.558633e-01	-6.641726e-01	2.087057e+00	1.107878e+00

## 592	5.425121e-01	-9.142588e-01	-3.982804e-01	1.694211e-01	7.275188e-02
## 594	2.163158e-05	7.584896e-06	-1.489859e-06	-1.583993e-05	3.723855e-06
## 595	2.904476e-02	-8.235374e-03	-3.316859e-02	1.739009e-02	-1.744635e-03
## 597	5.824666e-01	-4.161624e-01	-7.985721e-02	-2.974980e-01	1.301555e-01
## 598	-4.987175e+00	6.529144e-01	-5.865023e-01	1.798792e+00	1.039181e+00
## 599	9.587829e-04	-3.078847e-03	-2.772363e-04	-6.655063e-07	3.314858e-04
## 601	-1.444473e-03	1.779745e-04	-1.684183e-04	5.259849e-04	2.975264e-04
## 602	3.050396e-03	-9.829083e-03	-8.843845e-04	8.278472e-07	1.059950e-03
## 606	-2.285171e-02	-3.134808e-02	1.330273e-04	2.152135e-02	-2.794132e-03
## 608	-8.556448e+00	-9.192109e-01	-6.305118e-01	4.137520e+00	9.450353e-01
## 609	8.136723e-05	-2.610097e-04	-2.347450e-05	-1.641898e-07	2.813510e-05
## 610	-9.263766e+00	5.467744e-01	-1.182227e+00	3.422890e+00	2.050502e+00
## 612	1.483852e-01	-4.784641e-01	-4.303088e-02	1.213489e-04	5.155808e-02
## 613	-1.202441e+01	-3.417388e+00	9.075747e-01	8.607478e+00	-2.102520e+00
## 614	1.436092e-01	-3.865759e-02	-1.645988e-01	8.640488e-02	-8.911733e-03
## 615	2.112656e-01	-6.319674e-01	-7.474817e-02	9.514511e-03	6.657016e-02
## 616	-1.767935e+01	-2.215196e+01	2.332411e-01	1.621987e+01	-2.265449e+00
## 618	5.897360e-01	-1.896385e+00	-1.703958e-01	-2.028862e-04	2.040898e-01
## 620	2.240948e-10	-1.064710e-09	-1.103065e-10	4.028038e-11	1.394171e-10
## 621	-6.695937e+00	-7.211100e+00	1.610836e-01	5.901248e+00	-9.155225e-01
## 622	-6.042959e+00	-6.120288e+00	-1.615669e+00	2.994333e+00	2.490472e+00
## 623	9.533784e-05	5.852430e-05	-5.032305e-06	-7.498061e-05	1.521557e-05
## 624	-1.178631e+01	-1.918606e+00	-1.826905e+00	4.674929e+00	3.049326e+00
## 625	6.164465e-01	-1.982358e+00	-1.781185e-01	-1.954810e-04	2.133376e-01
## 627	1.770527e-03	-5.693466e-03	-5.115757e-04	-5.984318e-07	6.127348e-04
## 628	-2.417624e+01	-1.639807e+01	1.176353e+00	1.932890e+01	-3.775629e+00
## 629	3.847885e-06	-1.241542e-06	-4.313718e-07	-2.294126e-06	8.008763e-07
## 631	-1.673768e-02	2.183467e-03	-1.967401e-03	6.040459e-03	3.485280e-03
## 632	8.029299e-03	-2.580088e-02	-2.318806e-03	-6.567043e-06	2.777791e-03
## 633	1.712993e-03	-5.508457e-03	-4.949517e-04	-5.785296e-07	5.928232e-04
## 634	2.979693e+00	-9.584466e+00	-8.612678e-01	-6.423908e-04	1.031608e+00
## 637	1.232640e-01	3.540064e-02	-1.699912e-02	-7.933481e-02	1.955909e-02
## 639	-1.376768e+01	-1.696448e+01	1.992974e-01	1.257238e+01	-1.778165e+00
## 641	8.320809e-05	-2.670858e-04	-2.401475e-05	-1.310669e-07	2.877738e-05

## 642	-2.8577761e+00	-2.977474e+00	-7.777976e-01	1.422250e+00	1.197899e+00
## 644	-1.368373e-02	4.399737e-02	3.953301e-03	5.521351e-06	-4.735060e-03
## 645	2.805389e-04	1.221742e-04	-1.791409e-05	-2.103902e-04	4.724780e-05
## 646	3.600184e-02	1.974712e-02	-2.040261e-03	-2.782440e-02	5.850243e-03
## 647	3.367508e-01	8.288090e-01	1.682552e-01	-2.062524e-01	-2.525004e-01
## 649	-3.505492e+01	-2.705206e+01	1.503563e+00	2.869858e+01	-5.314809e+00
## 650	1.015136e-03	-3.264274e-03	-2.933104e-04	-3.648204e-07	3.513137e-04
## 651	-6.527687e+00	-1.623321e+00	-1.094161e+00	2.643978e+00	1.805414e+00
## 653	6.857708e-05	-2.193322e-04	-1.974963e-05	-2.781544e-07	2.369052e-05
## 654	-2.963161e-01	-8.705880e-01	-2.691102e-02	3.743157e-01	-1.360137e-02
## 656	-3.051222e+01	-3.582464e+01	5.510660e-01	2.749944e+01	-4.027263e+00
## 657	-3.035018e+00	-8.104185e-02	-4.250420e-01	1.144165e+00	7.278687e-01
## 658	2.340458e-04	-7.524023e-04	-6.761354e-05	-1.257782e-07	8.099006e-05
## 659	6.891786e-05	-2.179428e-04	-1.970218e-05	-7.977080e-07	2.370115e-05
## 660	3.526432e+00	-1.766013e+00	-3.804141e+00	1.954757e+00	-1.056792e-01
## 661	5.771133e-04	-1.855689e-03	-1.667449e-04	-2.238095e-07	1.997215e-04
## 662	2.541724e-02	-7.304058e-03	-2.899773e-02	1.519830e-02	-1.513273e-03
## 663	-1.854171e-01	-8.387336e-02	-3.641041e-01	3.287171e-01	9.006419e-02
## 664	-7.480765e+00	-2.887740e-01	-1.054555e+00	2.836648e+00	1.801041e+00
## 665	2.019718e-01	-6.164496e-01	-6.791109e-02	6.614801e-03	6.533697e-02
## 666	-8.242191e+00	-7.416422e-01	-1.202709e+00	3.193758e+00	2.032455e+00
## 668	1.989946e-03	-9.017556e-03	-9.319261e-04	2.902458e-04	1.181471e-03
## 669	-1.794858e-01	-7.255411e-01	-1.198195e-01	1.522414e-01	1.720212e-01
## 672	-2.400397e+01	-1.657511e+01	1.149830e+00	1.925148e+01	-3.734382e+00
## 673	-7.220856e+00	-1.001407e+00	-1.063557e+00	2.885084e+00	1.775668e+00
## 678	2.059877e-01	-6.623991e-01	-5.951887e-02	-6.716443e-05	7.128676e-02
## 679	-4.831314e+00	-2.312273e+00	-9.562882e-01	2.086540e+00	1.536030e+00
## 681	1.203085e-03	-3.868510e-03	-3.476069e-04	-4.587841e-07	4.163504e-04
## 683	-2.741041e-02	-1.761101e-02	1.394155e-03	2.171325e-02	-4.328392e-03
## 684	-5.618079e+00	-1.064797e+00	-5.738233e-01	2.645579e+00	8.884973e-01
## 685	-5.105855e+00	-1.308676e-01	-6.898246e-01	1.955127e+00	1.177720e+00
## 687	-5.110141e+00	-1.064083e+00	-8.053947e-01	2.075839e+00	1.331504e+00
## 688	4.628862e-04	-1.488382e-03	-1.337401e-04	-1.817728e-07	1.601895e-04
## 689	1.049853e-03	-3.375833e-03	-3.033456e-04	-4.040812e-07	3.633412e-04

## 690	-4.178517e-01	5.456935e-02	-4.915806e-02	1.507281e-01	8.709234e-02
## 691	3.453881e-03	-1.110778e-02	-9.981345e-04	-1.052168e-06	1.195542e-03
## 693	4.976304e+00	-1.921823e+01	-1.795878e+00	4.570133e-01	2.177224e+00
## 695	2.088340e-01	-5.595627e-01	-5.680138e-02	-1.913715e-02	6.595233e-02
## 696	6.296237e-04	-2.023697e-03	-1.820583e-04	-6.599388e-07	2.182141e-04
## 697	-4.702778e-04	-3.160457e-03	-1.538261e-04	9.574171e-04	6.769388e-05
## 698	5.879457e+00	-2.079781e+00	-1.156882e+01	7.215011e+00	1.891282e-01
## 699	-7.827475e-02	1.023864e-02	-9.209519e-03	2.823579e-02	1.631207e-02
## 700	3.308076e-04	-1.063202e-03	-9.556128e-05	-2.458290e-07	1.144808e-04
## 701	7.450138e-01	-2.085747e+00	-1.996245e-01	-6.032878e-02	2.422716e-01
## 702	-6.216131e+00	-4.793005e-01	-6.392097e-01	2.723948e+00	1.037623e+00
## 704	1.390474e+00	-4.454682e-01	-1.572922e+00	8.219719e-01	-7.640777e-02
## 705	7.509804e-01	-1.031230e+00	-6.195195e-01	2.824232e-01	6.824277e-02
## 706	5.814869e+00	-1.870777e+01	-1.680695e+00	-1.224101e-04	2.012807e+00
## 707	1.544115e+00	-4.983730e+00	-4.485663e-01	1.627864e-03	5.376629e-01
## 711	6.918102e-01	-2.052975e+00	-1.892972e-01	-3.546499e-02	2.310439e-01
## 712	-7.188997e-02	-9.455633e-02	6.718199e-04	6.687428e-02	-8.993204e-03
## 713	1.823744e-01	-5.792428e-01	-5.442816e-02	9.877159e-04	6.220828e-02
## 714	2.196411e-06	1.115756e-07	-1.936157e-07	-1.475329e-06	4.134072e-07
## 715	-8.581463e-01	-1.784623e+00	-3.246431e-02	9.328748e-01	-7.534485e-02
## 716	-5.264257e-01	-8.073300e-01	-1.773884e-01	2.922330e-01	2.671833e-01
## 718	-1.291835e-02	-1.041003e-02	5.265937e-04	1.066604e-02	-1.936556e-03
## 719	-1.858735e-01	-6.225444e-01	-2.160892e-02	2.504750e-01	-4.782927e-03
## 720	1.053359e-01	-8.171406e-01	-6.007600e-02	9.799930e-02	6.000831e-02
## 721	3.879035e-02	-1.188275e-01	-1.084331e-02	-1.226001e-03	1.313600e-02
## 722	5.063788e+00	-1.597930e+00	-7.923855e+00	4.661102e+00	-6.831018e-02
## 723	1.712993e-03	-5.508457e-03	-4.949517e-04	-5.785296e-07	5.928232e-04
## 724	1.260147e+00	-6.477991e+00	-6.837694e-01	2.829696e-01	8.720506e-01
## 725	-6.734865e+00	-1.127334e+00	-8.430126e-01	2.933563e+00	1.364922e+00
## 726	-5.183485e-03	6.784818e-04	-6.096064e-04	1.869614e-03	1.080110e-03
## 727	2.968284e-04	-8.524763e-03	-1.075572e-03	8.941511e-04	1.448655e-03
## 729	5.727802e-02	-1.572846e-02	-6.555945e-02	3.439894e-02	-3.511472e-03
## 730	-2.672835e-03	-3.542350e-03	-8.296083e-04	1.415801e-03	1.260849e-03
## 732	-1.307554e-01	-8.986364e-02	6.289434e-03	1.047800e-01	-2.036244e-02

## 733	-2.477484e+00	-4.284095e+01	-2.419862e+00	1.042752e+01	1.621413e+00
## 738	-2.855769e+00	-3.917606e-01	-3.973824e-01	1.169129e+00	6.591080e-01
## 739	4.076444e-01	2.501785e-01	-2.145872e-02	-3.205109e-01	6.494559e-02
## 740	-8.001690e+00	-5.109916e-01	-1.106036e+00	3.119088e+00	1.871983e+00
## 742	-6.054732e+00	-6.211284e-01	-8.719978e-01	2.382272e+00	1.466449e+00
## 743	1.537922e-03	-4.945385e-03	-4.443612e-04	-5.398412e-07	5.322317e-04
## 744	-7.512315e-01	-5.084360e-01	3.662065e-02	6.003825e-01	-1.173737e-01
## 747	-7.223006e+00	-2.741055e+00	-1.322173e+00	3.052448e+00	2.143146e+00
## 748	-1.972244e-02	-2.938283e-02	-2.811780e-05	1.905280e-02	-2.299294e-03
## 749	6.582135e-02	3.673028e-02	-3.691205e-03	-5.099971e-02	1.066535e-02
## 750	4.150582e-01	-1.334728e+00	-1.199287e-01	-1.324499e-04	1.436411e-01
## 751	-7.137893e+00	-6.650123e-01	-9.887049e-01	2.838983e+00	1.659843e+00
## 752	6.538303e-02	-1.788906e-02	-7.485522e-02	3.927978e-02	-4.017362e-03
## 753	4.180599e-03	-1.355735e-02	-1.223245e-03	1.150354e-05	1.467824e-03
## 754	3.185226e-03	-1.024340e-02	-9.204603e-04	-1.032939e-06	1.102507e-03
## 755	1.002688e+01	-3.224366e+01	-2.897167e+00	-3.301556e-03	3.470034e+00
## 757	5.357660e-01	1.397651e-01	-3.986828e-02	-3.824489e-01	9.457709e-02
## 758	5.235878e-01	-8.615420e-01	-3.903539e-01	1.676603e-01	6.735200e-02
## 759	-1.351824e-04	-3.736518e-05	-4.980978e-06	7.811776e-05	4.103403e-06
## 761	4.234957e-04	-1.361786e-03	-1.223638e-04	-1.547326e-07	1.465623e-04
## 762	-1.898857e-01	-2.117193e-01	4.122137e-03	1.688321e-01	-2.561013e-02
## 763	1.656748e-03	-5.327591e-03	-4.787000e-04	-5.590812e-07	5.733578e-04
## 764	-2.081883e-01	-2.623089e-01	-5.029684e-02	1.244939e-01	7.234999e-02
## 765	1.998563e+00	-1.418472e+00	-2.034497e+00	1.022556e+00	-2.056387e-03
## 769	3.702823e-01	2.250142e-01	-1.962992e-02	-2.906762e-01	5.910209e-02
## 770	4.296263e-05	-1.880563e-05	-4.713546e-05	2.436987e-05	-1.663146e-06
## 772	8.084598e-01	3.710081e-01	-5.028094e-02	-6.099661e-01	1.349069e-01
## 773	2.208297e-04	1.266992e-04	-1.245882e-05	-1.721810e-04	3.615381e-05
## 774	-7.837321e+00	1.026140e+00	-9.216739e-01	2.826783e+00	1.633052e+00
## 775	-1.057620e+01	-1.814124e+01	-1.622196e-01	1.070652e+01	-1.116717e+00
## 777	2.593607e-04	-8.337574e-04	-7.492599e-05	-1.458830e-07	8.975043e-05
## 778	3.557131e-02	-1.485096e-02	-3.923338e-02	2.032174e-02	-1.476106e-03
## 779	-8.364934e+00	-6.134013e+00	3.786081e-01	6.782229e+00	-1.283905e+00
## 780	1.018272e+00	4.735782e-01	-6.294202e-02	-7.695550e-01	1.696115e-01

## 781	6.493177e-04	-2.087845e-03	-1.876074e-04	-2.567523e-07	2.247112e-04
## 782	1.601809e-03	-5.150922e-03	-4.628255e-04	-5.400969e-07	5.543440e-04
## 783	-1.895910e+00	-1.163568e+00	9.980132e-02	1.490664e+00	-3.020542e-01
## 784	3.541940e-04	-1.138791e-03	-1.023313e-04	-1.606386e-07	1.225723e-04
## 785	-1.727716e+00	-8.650818e-01	-3.360321e-01	7.644740e-01	5.356471e-01
## 788	-2.445747e+00	3.186358e-01	-2.878299e-01	8.823236e-01	5.099011e-01
## 789	1.741600e-03	-5.600447e-03	-5.032175e-04	-5.884247e-07	6.027236e-04
## 790	-4.963835e-12	-1.016031e-09	-1.348454e-10	1.207635e-10	1.837931e-10
## 791	1.083265e+00	-3.463601e+00	-3.122541e-01	-3.876344e-03	3.737968e-01
## 792	1.402791e-03	-4.510998e-03	-4.053269e-04	-4.643033e-07	4.854756e-04
## 793	-4.929520e+00	-2.166348e+00	-9.502917e-01	2.106429e+00	1.532560e+00
## 794	2.428687e-05	-6.459674e-05	-6.293462e-06	-2.917064e-06	7.950644e-06
## 795	1.125282e+00	-4.588609e+00	-4.525543e-01	1.134747e-01	5.629864e-01
## 796	-2.287989e-02	2.976990e-03	-2.693150e-03	8.254551e-03	4.770806e-03
## 797	1.653260e-07	-5.776419e-07	-5.383150e-08	5.319033e-09	6.548254e-08
## 798	2.766679e+00	-8.933945e+00	-8.017463e-01	6.628880e-03	9.593827e-01
## 799	5.912207e-01	-1.901202e+00	-1.708274e-01	-1.947249e-04	2.046057e-01
## 800	1.409115e-04	-4.525865e-04	-4.068641e-05	-1.648370e-07	4.874862e-05
## 803	-6.474483e+00	-5.390192e+00	2.534018e-01	5.381317e+00	-9.624170e-01
## 804	8.172150e-04	-2.627747e-03	-2.361215e-04	-3.168184e-07	2.828201e-04
## 806	-1.171613e-01	-9.155121e-02	4.954703e-03	9.614995e-02	-1.770713e-02
## 807	4.255975e-04	-1.368397e-03	-1.229629e-04	-1.869140e-07	1.472842e-04
## 810	-1.335802e-02	1.741878e-03	-1.570567e-03	4.820443e-03	2.782276e-03
## 811	6.291288e-05	-2.023128e-04	-1.817837e-05	-2.043167e-08	2.177290e-05
## 814	1.045489e-04	-4.565299e-05	-9.452147e-05	-1.634190e-04	1.756999e-04
## 815	-1.038471e+01	7.673869e-01	-1.318361e+00	3.829237e+00	2.272166e+00
## 816	9.805371e-02	-3.121065e-01	-2.813375e-02	-6.904628e-04	3.377734e-02
## 817	8.332169e-04	-1.669016e-03	-1.806525e-04	-2.104734e-04	2.432829e-04
## 819	4.705858e-04	-1.512565e-03	-1.365361e-04	-1.068231e-06	1.639601e-04
## 820	-1.864303e+00	-8.358648e-01	-3.614912e-01	7.986761e-01	5.824211e-01
## 822	-1.071683e-02	-8.236367e-03	4.615165e-04	8.766350e-03	-1.626030e-03
## 823	-1.730941e-10	-6.340378e-10	-1.069041e-10	1.391470e-10	1.540991e-10
## 825	3.271031e-02	-1.963025e-02	-1.397695e-01	9.755930e-02	9.750761e-03
## 826	6.070050e-02	-1.517427e-01	-1.485749e-02	-8.937952e-03	1.888767e-02

## 827	1.891192e-02	-5.571828e-03	-2.153611e-02	1.128040e-02	-1.106963e-03
## 830	-1.745264e+01	-5.803631e-01	-2.429758e+00	6.629985e+00	4.151009e+00
## 831	-3.544086e-10	-2.671422e-10	-8.300049e-11	1.644561e-10	1.302023e-10
## 832	5.454700e-01	-1.754084e+00	-1.576174e-01	-1.682245e-04	1.887704e-01
## 833	6.545813e-01	3.923939e-01	-3.503364e-02	-5.127496e-01	1.047426e-01
## 834	-2.645200e-05	7.980925e-06	-4.479065e-06	6.535717e-06	8.369361e-06
## 835	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 837	3.129496e-02	-3.429332e-03	-3.044153e-03	-1.996016e-02	6.089787e-03
## 842	-4.144844e+00	-2.774401e+00	-9.246878e-01	1.882338e+00	1.460030e+00
## 843	5.468282e+00	-1.749145e+01	-1.607073e+00	1.720950e-02	1.879539e+00
## 844	2.584147e-04	-8.304836e-04	-7.464339e-05	-1.994476e-07	8.942115e-05
## 845	1.074619e-03	-3.455481e-03	-3.104910e-04	-3.972077e-07	3.718921e-04
## 846	-6.337145e+00	-9.570492e-01	-9.807534e-01	2.494416e+00	1.641627e+00
## 847	2.087858e+00	-6.720734e+00	-6.036834e-01	7.001170e-04	7.228819e-01
## 848	6.169673e-05	-1.970751e-04	-1.775404e-05	-3.036198e-07	2.130401e-05
## 849	-2.675777e-01	-4.418653e-01	-6.478163e-02	1.894818e-01	8.627559e-02
## 851	2.055028e-02	-6.608399e-02	-5.937798e-03	-6.769445e-06	7.111897e-03
## 852	-1.071601e+01	1.021922e+00	-1.901684e+00	4.358745e+00	2.359042e+00
## 855	2.292024e-06	1.442552e-07	-2.003974e-07	-1.545351e-06	4.301775e-07
## 858	-1.594085e+00	-9.783200e-01	8.391377e-02	1.253352e+00	-2.539683e-01
## 859	-4.572870e-04	4.366525e-05	-5.169217e-05	1.721538e-04	9.030932e-05
## 860	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 862	5.039741e+00	-1.627080e+01	-1.460158e+00	1.155573e-02	1.747261e+00
## 863	3.530618e-05	2.316058e-05	-2.731892e-06	-2.928384e-05	7.356327e-06
## 864	5.124591e-04	3.122728e-04	-2.714064e-05	-4.024971e-04	8.180324e-05
## 866	-9.224800e+00	5.208718e-01	-1.178809e+00	3.410066e+00	2.045969e+00
## 867	7.002570e-01	4.269719e-01	-3.703412e-02	-5.500057e-01	1.117004e-01
## 868	2.621063e-03	-8.428687e-03	-7.573417e-04	-8.562634e-07	9.070961e-04
## 869	7.212192e-04	-1.619601e-03	-1.722332e-04	-1.526771e-04	2.285857e-04
## 872	6.290512e-06	-8.683559e-06	-1.128678e-06	-2.401102e-06	1.657851e-06
## 873	1.736455e-03	-5.583911e-03	-5.017313e-04	-5.849178e-07	6.009432e-04
## 876	-1.037050e+01	9.776461e-01	-1.760995e+00	4.158100e+00	2.277131e+00
## 877	7.051287e-01	-2.336279e+00	-2.128053e-01	7.801506e-03	2.563899e-01
## 878	1.964514e+00	-1.254914e-01	-1.608362e+00	3.809881e-01	1.582621e-02

## 879	-6.972578e+00	-7.627908e+00	-1.925525e+00	3.537872e+00	2.950495e+00
## 880	-4.663815e+00	-1.156140e+00	-7.813270e-01	1.888523e+00	1.289373e+00
## 881	7.174304e-04	3.383769e-04	-4.414033e-05	-5.432700e-04	1.194298e-04
## 886	1.119643e+00	-6.615335e+00	-5.117083e-01	6.205255e-01	5.342772e-01
## 887	-6.506278e+00	-6.010313e-01	-9.257276e-01	2.555392e+00	1.559114e+00
## 888	2.732383e-07	-8.870214e-07	-8.005162e-08	8.869351e-10	9.606352e-08
## 890	1.684709e-03	-5.417502e-03	-4.867790e-04	-5.687480e-07	5.830344e-04
## 892	-2.551438e+01	-3.262979e+01	2.958411e-01	2.354369e+01	-3.237219e+00
## 893	1.743154e-09	-4.080552e-09	-9.690553e-10	3.275012e-10	3.941568e-10
## 895	1.396088e-01	-4.319575e-01	-3.957207e-02	-3.204922e-03	4.741484e-02
## 897	9.888806e-01	-3.179970e+00	-2.857278e-01	-3.251583e-04	3.422257e-01
## 898	4.113620e-01	6.424721e-02	-3.326827e-02	-2.848066e-01	7.471662e-02
## 899	1.685618e-01	-3.556077e-01	-3.719977e-02	-3.831891e-02	4.924238e-02
## 902	3.281720e-06	-9.089389e-06	-8.588415e-07	-3.026675e-07	1.066091e-06
## 903	1.046461e-01	-3.313087e-01	-2.992253e-02	-1.094121e-03	3.595957e-02
## 904	2.842717e-01	-9.954659e-01	-9.266204e-02	9.650716e-03	1.126346e-01
## 905	-8.533782e+00	-2.663157e+00	-1.483486e+00	3.542713e+00	2.423425e+00
## 906	-6.107291e+00	2.092400e-02	-7.342784e-01	2.402969e+00	1.250756e+00
## 907	1.027380e+00	-1.093383e+00	-9.265178e-01	4.357099e-01	5.279217e-02
## 909	1.038295e-03	4.540105e-04	-6.600066e-05	-7.788093e-04	1.744278e-04
## 911	1.071516e-05	-2.460173e-05	-2.519573e-06	-2.066077e-06	3.286775e-06
## 912	-1.417588e+00	1.856040e-01	-1.667094e-01	5.112991e-01	2.953811e-01
## 913	2.402896e-03	-7.727068e-03	-6.942965e-04	-7.896161e-07	8.315829e-04
## 914	4.808762e-04	-1.546173e-03	-1.389361e-04	-2.020926e-07	1.664156e-04
## 915	-4.300018e+00	-1.596797e+00	-7.903479e-01	1.803207e+00	1.284226e+00
## 917	7.729669e-04	-5.970628e-04	-1.087341e-04	-3.902864e-04	1.790072e-04
## 919	2.389850e-03	-2.249179e-03	-3.553678e-04	-1.116753e-03	5.624743e-04
## 921	4.080431e-04	-1.311895e-03	-1.178888e-04	-1.933566e-07	1.412090e-04
## 922	7.953796e-01	4.841486e-01	-4.212519e-02	-6.245386e-01	1.269118e-01
## 923	9.630334e-01	-2.565597e-01	-1.104566e+00	5.799717e-01	-6.013203e-02
## 924	1.832449e-03	-5.892621e-03	-5.294690e-04	-6.120594e-07	6.341650e-04
## 925	4.447726e-02	-3.198471e-01	-3.615421e-02	2.064082e-02	4.717303e-02
## 927	2.475186e-03	-7.959558e-03	-7.152120e-04	-8.418963e-07	8.566514e-04
## 928	1.431256e+00	-2.254960e+00	-1.096507e+00	4.791485e-01	1.701557e-01

## 929	-8.134900e+00	1.044728e+00	-9.536544e-01	2.943686e+00	1.688068e+00
## 932	8.811936e-02	-3.019279e-01	-2.752753e-02	2.618219e-03	3.312205e-02
## 933	1.522759e-03	-4.891313e-03	-4.415753e-04	6.146665e-07	5.262302e-04
## 935	4.690086e-03	-1.080039e-04	-4.313489e-04	-3.074912e-03	8.931991e-04
## 936	-9.163305e-05	-9.840764e-06	-1.086746e-05	3.912444e-05	1.780456e-05
## 937	1.770527e-03	-5.693466e-03	-5.115757e-04	-5.984318e-07	6.127348e-04
## 939	3.059706e-01	-8.375441e-01	-1.309295e-01	2.973276e-02	8.562995e-02
## 940	1.566409e-06	-8.487513e-08	-1.479022e-07	-1.017996e-06	3.022398e-07
## 941	3.660051e-03	-1.246392e-02	-1.152051e-03	7.607233e-05	1.397075e-03
## 942	7.674504e+00	-2.177373e+00	-1.006708e+01	5.584813e+00	-3.337005e-01
## 946	-6.582969e-03	-6.166743e-03	-1.700460e-03	3.195416e-03	2.634975e-03
## 947	5.662922e+00	-2.853965e+00	-1.802520e+01	1.219189e+01	9.953149e-01
## 949	-5.815145e-01	-3.343141e+00	-5.190162e-01	6.091587e-01	7.357438e-01
## 950	2.312878e-03	-7.437591e-03	-6.682862e-04	-7.604823e-07	8.004296e-04
## 952	1.876571e-01	-5.930618e-01	-5.670677e-02	1.436341e-03	6.364074e-02
## 957	3.488640e-03	-1.122000e-02	-1.008267e-03	-1.050632e-06	1.207710e-03
## 958	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 960	1.836483e+01	-4.892097e+00	-2.109023e+01	1.107998e+01	-1.144203e+00
## 961	7.803153e-01	-2.039554e+00	-1.981258e-01	-9.507287e-02	2.470053e-01
## 962	3.614275e-01	-1.218162e+00	-1.117995e-01	6.412360e-03	1.351296e-01
## 963	9.729789e+00	-3.821088e+01	-3.274339e+00	1.445935e+00	3.707285e+00
## 964	3.447493e+00	-1.108840e+01	-9.962576e-01	-6.818055e-04	1.193196e+00
## 965	8.415733e-04	-1.505129e-03	-1.738052e-04	-2.527913e-04	2.415608e-04
## 966	-2.725786e-10	-3.332233e-10	-8.067423e-11	1.414094e-10	1.231029e-10
## 967	-1.202193e-03	-5.273770e-05	-1.690728e-04	4.581574e-04	2.882687e-04
## 968	5.938800e-05	-1.907117e-04	-1.714469e-05	-7.541327e-08	2.054233e-05
## 969	-1.971363e+01	-1.391458e+01	9.256786e-01	1.587255e+01	-3.052188e+00
## 971	-4.395661e-01	-9.170387e-01	-1.752591e-01	2.785407e-01	2.576503e-01
## 975	-1.659987e+01	-4.681783e+01	-1.389708e+00	2.056526e+01	-8.522501e-01
## 977	-2.626013e+00	-3.407017e-01	-3.989737e-01	1.027196e+00	6.700990e-01
## 978	-6.901679e+00	-1.180214e+00	-8.058643e-01	3.086497e+00	1.288629e+00
## 979	-7.669645e-02	-2.320839e+00	-3.140107e-01	3.027132e-01	4.308222e-01
## 981	-2.652198e+00	5.761180e-02	-3.500193e-01	9.905094e-01	6.045886e-01
## 982	-3.818481e+00	1.694278e+01	1.806566e+00	-5.964548e-01	-2.180955e+00

## 983	-1.130098e+01	-1.252506e+00	-1.689102e+00	4.395179e+00	2.845893e+00
## 984	1.072885e+01	-2.508422e+01	-5.839886e+00	1.920752e+00	2.408553e+00
## 985	4.266227e-01	2.595240e-01	-2.259989e-02	-3.349601e-01	6.808149e-02
## 988	1.160804e-03	-3.732757e-03	-3.354006e-04	-3.983176e-07	4.017234e-04
## 989	1.448445e-01	-5.894506e-01	-4.972060e-02	2.503323e-02	5.660270e-02
## 990	1.340233e-03	-4.309735e-03	-3.872456e-04	-4.627912e-07	4.638214e-04
## 991	3.861059e-06	-3.778336e-06	-5.826134e-07	-1.774012e-06	9.149630e-07
## 992	6.063992e-01	1.546963e-01	-4.534000e-02	-4.321521e-01	1.072162e-01
## 993	-2.282370e+00	-5.142402e-01	-2.663035e-01	1.056029e+00	4.175362e-01
## 994	2.682769e-01	-8.644556e-01	-7.769508e-02	1.814726e-04	9.306163e-02
## 995	-1.211039e-02	2.897861e-04	-1.597123e-03	4.516654e-03	2.760363e-03
## 996	-3.504127e+01	-2.709777e+01	1.499509e+00	2.869895e+01	-5.310002e+00
## 997	1.130092e+00	-1.197354e+00	-1.017720e+00	4.768997e-01	5.808890e-02
## 999	5.198934e-01	-3.658193e+00	-4.120018e-01	2.318624e-01	5.369448e-01
## 1000	-3.320450e+00	-2.727191e+00	-8.072408e-01	1.566934e+00	1.260271e+00
## 1001	4.969103e-03	-2.154518e-03	-5.457722e-03	2.822848e-03	-1.952091e-04
## 1002	6.804494e-01	-1.694767e+00	-1.661818e-01	-1.014998e-01	2.114555e-01
## 1004	1.519406e-03	-4.885929e-03	-4.390161e-04	-5.155767e-07	5.258273e-04
## 1006	1.451829e-06	-1.581199e-06	-2.298448e-07	-6.352226e-07	3.534931e-07
## 1007	2.034321e-03	-6.541815e-03	-5.877997e-04	-6.727288e-07	7.040290e-04
## 1008	-1.013703e-01	-1.115347e-01	2.291767e-03	8.982367e-02	-1.374306e-02
## 1009	6.092631e-01	-1.951797e-01	-6.890712e-01	3.600057e-01	-3.344658e-02
## 1010	-1.901373e-03	-2.454608e-03	7.301910e-06	1.742444e-03	-2.152413e-04
## 1011	5.843044e-01	-1.890160e+00	-1.703000e-01	1.121936e-03	2.042158e-01
## 1012	4.620220e-01	-1.376727e+00	-1.267715e-01	-2.252551e-02	1.545797e-01
## 1013	-7.846545e+00	5.417268e-01	-1.065971e+00	2.947011e+00	1.729984e+00
## 1014	2.936030e-01	1.714254e-01	-1.599627e-02	-2.290470e-01	4.720399e-02
## 1016	1.626866e-04	-3.694478e-04	-4.013511e-05	-3.489577e-05	5.368863e-05
## 1017	-4.009602e+00	1.056486e+00	-5.951317e-01	1.139801e+00	1.101820e+00
## 1018	-8.577665e-03	-1.177949e-02	4.868788e-05	8.080297e-03	-1.047323e-03
## 1020	2.523364e-03	-8.119495e-03	-7.299722e-04	-4.989509e-07	8.745602e-04
## 1023	-6.476663e-01	-4.547170e-01	3.056157e-02	5.209737e-01	-1.003937e-01
## 1024	6.331590e-05	3.793771e-05	-3.397621e-06	-4.960319e-05	1.014696e-05
## 1025	8.873139e-01	-5.957409e-01	-9.131765e-01	4.609552e-01	-5.630151e-03

##	1032	-7.126291e+00	-1.316464e+00	-4.639601e-01	3.679072e+00	6.361175e-01
##	1033	6.309393e-01	-1.941953e+00	-1.769370e-01	-1.805745e-02	2.141098e-01
##	1034	-1.458327e-04	-3.930781e-05	-5.274374e-06	8.411377e-05	4.308252e-06
##	1035	1.345220e-01	-4.686791e-02	-1.510810e-01	7.875762e-02	-6.871198e-03
##	1039	-4.615703e-06	3.780581e-06	-1.123000e-07	1.308800e-06	3.686202e-07
##	1041	2.689137e-03	-8.647591e-03	-7.770326e-04	-9.069703e-07	9.306952e-04
##	1044	-1.455738e+00	-5.048157e-01	-1.587369e-01	7.376343e-01	2.337721e-01
##	1045	5.690554e-06	1.551205e-06	-4.295164e-07	-4.088653e-06	1.020303e-06
##	1046	-2.347873e+01	-3.578842e+01	-8.335995e-02	2.284775e+01	-2.697848e+00
##	1049	1.662246e+00	-2.196178e+00	-1.287546e+00	5.148260e-01	1.681294e-01
##	1050	8.254043e-06	-2.226291e-06	-9.459170e-06	4.965296e-06	-5.115943e-07
##	1051	1.314003e-01	-4.348912e-01	-3.937867e-02	1.669971e-03	4.729106e-02
##	1055	-2.605015e+00	4.142101e-01	-3.299623e-01	8.890926e-01	5.917926e-01
##	1056	-6.753232e+00	-6.006839e+00	2.405759e-01	5.691922e+00	-9.850880e-01
##	1057	-7.232697e+00	-7.155168e-01	-1.061568e+00	2.813130e+00	1.790738e+00
##	1058	1.658210e-04	6.449003e-05	-1.107544e-05	-1.227849e-04	2.832286e-05
##	1059	-6.526815e+00	-5.306901e+00	2.632750e-01	5.398773e+00	-9.763772e-01
##	1061	-9.545654e-02	-6.614068e-02	4.558361e-03	7.660355e-02	-1.483911e-02
##	1062	7.721925e+00	-2.486674e+01	-2.235778e+00	1.604708e-03	2.678614e+00
##	1063	-4.494745e+00	-2.403954e+00	-9.229886e-01	1.970700e+00	1.474470e+00
##	1064	3.081205e-07	-1.034970e-07	-3.472310e-07	1.812291e-07	-1.626791e-08
##	1065	-2.180678e+00	-9.183252e-01	-4.151018e-01	9.271599e-01	6.707560e-01
##	1066	1.912460e-03	-6.149480e-03	-5.527217e-04	-5.347343e-07	6.617874e-04
##	1067	4.547206e-04	-1.345451e-03	-1.305787e-04	-3.219471e-05	1.636287e-04
##	1070	2.584147e-04	-8.304836e-04	-7.464339e-05	-1.994476e-07	8.942115e-05
##	1074	-8.338372e-02	-1.292542e-01	-4.303599e-04	8.158287e-02	-9.473582e-03
##	1075	7.131715e-02	4.376867e-02	-3.754186e-03	-5.607321e-02	1.136219e-02
##	1080	-1.389933e+01	1.819750e+00	-1.634581e+00	5.013251e+00	2.896199e+00
##	1081	-4.508368e-01	-1.901213e+00	-3.109024e-01	3.921689e-01	4.454138e-01
##	1082	1.319618e-01	-3.554501e-02	-1.512424e-01	7.939237e-02	-8.185796e-03
##	1086	-3.175052e+01	-2.013349e+01	1.631409e+00	2.509680e+01	-5.026884e+00
##	1087	8.670594e+00	-3.546609e+00	-9.585091e+00	4.969065e+00	-3.700980e-01
##	1088	2.596197e-02	-8.348646e-02	-7.501450e-03	-8.552190e-06	8.984736e-03
##	1091	2.141249e-03	-6.885610e-03	-6.186975e-04	-7.263122e-07	7.410414e-04

## 1092	1.055350e-03	-3.393614e-03	-3.049301e-04	-3.718908e-07	3.652296e-04
## 1093	1.028322e+00	5.525974e-01	-5.897570e-02	-7.924082e-01	1.676598e-01
## 1095	8.718419e-04	-2.803475e-03	-2.519060e-04	-3.177324e-07	3.017219e-04
## 1096	-4.280110e-01	-1.487417e+00	-5.306150e-02	5.878557e-01	-8.427559e-03
## 1098	5.160070e-04	2.084753e-04	-3.385527e-05	-3.835227e-04	8.751533e-05
## 1099	4.310551e-04	-1.385489e-03	-1.245326e-04	-3.092110e-07	1.491900e-04
## 1100	9.909808e-01	-3.222394e+00	-2.910279e-01	3.850738e-03	3.493494e-01
## 1102	4.598198e-06	-1.313519e-05	-1.228177e-06	-3.422773e-07	1.513529e-06
## 1104	1.223436e+00	-3.246729e+00	-5.487307e-01	1.345062e-01	3.293887e-01
## 1105	2.120089e-01	-6.340181e-01	-7.507178e-02	9.595268e-03	6.677788e-02
## 1107	-3.859871e+00	-5.220760e+00	2.720179e-02	3.620118e+00	-4.758592e-01
## 1108	1.169039e+01	-3.119547e+00	-1.349607e+01	7.106982e+00	-7.205513e-01
## 1110	4.337729e-01	-5.124344e+00	-6.163770e-01	4.360927e-01	8.195724e-01
## 1111	-1.093689e+00	1.416680e-01	-1.288215e-01	3.946543e-01	2.281649e-01
## 1112	8.733984e-04	-2.808511e-03	-2.523562e-04	-3.101789e-07	3.022594e-04
## 1113	2.124152e+00	-7.932828e+00	-1.103536e+00	7.147415e-01	6.820425e-01
## 1114	-1.334554e+00	-1.282354e+00	4.166004e-02	1.144378e+00	-1.900203e-01
## 1115	1.163510e+00	-4.737079e+01	-3.056472e+00	8.918265e+00	2.582884e+00
## 1117	7.057106e-01	2.826786e-01	-4.643149e-02	-5.239932e-01	1.197693e-01
## 1118	-6.609612e-11	-7.156522e-10	-1.032347e-10	1.084551e-10	1.439554e-10
## 1119	4.164579e-05	-1.306514e-04	-1.183136e-05	-6.847969e-07	1.425302e-05
## 1121	-3.987863e-01	-1.120772e+01	-1.527964e+00	1.462789e+00	2.101532e+00
## 1122	-3.781953e+00	-8.061808e-01	-6.163508e-01	1.516163e+00	1.021950e+00
## 1127	-5.300955e+00	-5.507221e-01	-7.542171e-01	2.099288e+00	1.266191e+00
## 1129	-1.084000e-05	1.697560e-06	-1.338694e-06	3.750401e-06	2.396652e-06
## 1130	-3.730676e-02	-2.482975e-02	1.842820e-03	2.972724e-02	-5.846191e-03
## 1131	2.376457e+00	-1.482262e+00	-2.476615e+00	1.255303e+00	-3.024441e-02
## 1132	-6.029655e-02	6.947079e-04	-8.062595e-03	2.256018e-02	1.390061e-02
## 1134	7.724529e-04	-2.950026e-04	-7.871921e-04	3.559297e-04	-1.168156e-05
## 1135	9.145970e-04	-2.940721e-03	-2.642914e-04	-4.404478e-07	3.165937e-04
## 1136	-2.149365e-01	-1.562411e-01	9.812844e-03	1.739872e-01	-3.305653e-02
## 1137	-1.616970e+00	-1.159297e+00	-3.619487e-01	7.545846e-01	5.667271e-01
## 1138	3.480513e-02	-4.741430e-01	-5.778979e-02	4.230559e-02	7.714221e-02
## 1141	-2.494875e-01	-1.692161e-01	1.213943e-02	1.994640e-01	-3.896248e-02

##	1142	-1.536407e-02	-1.406517e-02	-3.925567e-03	7.419569e-03	6.090943e-03
##	1143	-1.034806e+01	-1.079094e+00	-1.592659e+00	3.947360e+00	2.696368e+00
##	1144	-7.810645e+00	-6.089213e+00	3.312024e-01	6.407038e+00	-1.181189e+00
##	1145	5.927838e-01	-1.906225e+00	-1.712788e-01	-1.957098e-04	2.051463e-01
##	1146	-3.414437e-02	-1.235191e-01	-2.301081e-02	2.888292e-02	3.032623e-02
##	1147	1.292962e-04	7.960378e-05	-7.100670e-06	-1.021022e-04	2.116635e-05
##	1148	-4.762664e+00	-5.509106e-01	-5.197372e-01	2.101193e+00	8.388217e-01
##	1150	2.773663e-03	-8.925096e-03	-8.023800e-04	-4.893145e-07	9.612962e-04
##	1152	5.728915e-04	-1.841816e-03	-1.655226e-04	-3.032786e-07	1.982755e-04
##	1153	3.849784e-01	-1.220865e+00	-1.101802e-01	-3.641168e-03	1.323974e-01
##	1156	4.960071e-02	-1.595017e-01	-1.433160e-02	-1.642348e-05	1.716545e-02
##	1157	2.157743e-02	-2.772655e-02	-3.664687e-03	-8.558159e-03	5.437172e-03
##	1158	5.848870e-03	3.589589e-03	-3.078950e-04	-4.598698e-03	9.318508e-04
##	1159	-5.771310e+00	-2.513019e+00	2.247759e-02	3.891508e+00	-3.252825e-01
##	1160	-1.045314e-01	-1.305395e-01	1.405849e-03	9.581222e-02	-1.341574e-02
##	1161	1.048509e+00	-4.969865e+00	-4.015716e-01	3.276461e-01	4.407991e-01
##	1163	-5.874580e+00	-6.720494e-01	-6.832713e-01	2.536399e+00	1.114004e+00
##	1166	2.882556e-04	1.769799e-04	-1.519045e-05	-2.266825e-04	4.596022e-05
##	1167	7.088713e-04	3.585146e-04	-4.217906e-05	-5.418220e-04	1.169327e-04
##	1168	5.913056e+00	-1.940519e+01	-1.732612e+00	7.818283e-02	2.065392e+00
##	1169	1.076893e-03	-3.462910e-03	-3.111548e-04	-3.733237e-07	3.726839e-04
##	1172	2.806942e-06	-9.028286e-06	-8.112180e-07	-6.023650e-10	9.716144e-07
##	1175	6.691671e-04	4.047715e-04	-3.562146e-05	-5.249605e-04	1.069580e-04
##	1176	4.213966e-03	-1.355111e-02	-1.217614e-03	-1.379131e-06	1.458386e-03
##	1177	1.972370e-03	-6.342276e-03	-5.699902e-04	-5.837453e-07	6.825403e-04
##	1178	4.083144e-04	-2.258339e-04	-5.183798e-05	-2.244538e-04	9.005401e-05
##	1179	-1.156889e-01	-1.285766e-02	-1.729582e-02	4.499833e-02	2.913938e-02
##	1181	6.487922e-01	-3.728536e+00	-3.689614e-01	2.356813e-01	4.544248e-01
##	1182	1.337998e-03	-4.302527e-03	-3.866007e-04	-4.692232e-07	4.630511e-04
##	1184	3.083051e-06	-1.414805e-06	-3.663513e-07	-1.745366e-06	6.524612e-07
##	1185	1.540363e-01	9.453408e-02	-8.108636e-03	-1.211111e-01	2.454098e-02
##	1186	-1.289227e-04	1.448498e-06	-1.719507e-05	4.830277e-05	2.963699e-05
##	1187	1.936851e-04	-6.225481e-04	-5.594818e-05	-1.264943e-07	6.702004e-05
##	1188	-6.397426e+00	-1.251414e+00	-1.004041e+00	2.581257e+00	1.664371e+00

## 1189	-1.057443e+01	-5.498614e+01	-2.435871e+00	1.826716e+01	6.803586e-01
## 1190	1.041987e+00	-1.155478e+00	-9.382089e-01	4.464008e-01	5.692122e-02
## 1191	-1.395280e-04	-1.471700e-04	-3.875608e-05	7.006500e-05	5.886112e-05
## 1194	1.559583e-04	-2.021914e-04	-2.718942e-05	-6.223604e-05	4.049121e-05
## 1195	1.221524e-01	-3.904549e-01	-3.515509e-02	-5.302378e-04	4.216933e-02
## 1197	7.099812e-05	-1.892491e-05	-8.142944e-05	4.275542e-05	-4.431686e-06
## 1198	1.825675e-02	-9.176739e-03	-1.967615e-02	1.010325e-02	-5.402732e-04
## 1201	5.788343e+00	-1.877875e+01	-1.682670e+00	3.196554e-02	2.011242e+00
## 1203	-6.270264e-01	8.209653e-02	-7.373870e-02	2.261573e-01	1.306526e-01
## 1205	5.016124e-06	-8.115742e-06	-9.653804e-07	-1.659869e-06	1.364850e-06
## 1206	6.334820e-02	-1.158049e+00	-1.431958e-01	1.125702e-01	1.918073e-01
## 1207	3.846985e-03	-1.240631e-02	-1.116616e-03	2.382835e-06	1.338447e-03
## 1208	2.341069e-03	-7.528195e-03	-6.764396e-04	-7.941744e-07	8.102039e-04
## 1211	5.794406e-01	-1.821087e+00	-1.649356e-01	-9.007399e-03	1.986899e-01
## 1212	9.821326e-03	-2.345940e-02	-2.336649e-03	-1.670543e-03	3.002980e-03
## 1216	1.522759e-03	-4.891313e-03	-4.415753e-04	6.146665e-07	5.262302e-04
## 1217	5.519059e-06	-1.639850e-05	-1.512721e-06	-2.803709e-07	1.846629e-06
## 1218	4.460134e-05	-1.434279e-04	-1.288743e-05	-1.441070e-08	1.543575e-05
## 1219	-2.746827e-03	-3.136473e-03	5.467412e-05	2.456915e-03	-3.661192e-04
## 1220	1.403757e-01	-6.415353e-01	-6.491737e-02	2.304568e-02	8.144564e-02
## 1221	7.826607e-01	-2.085880e-01	-8.976615e-01	4.713286e-01	-4.885830e-02
## 1224	-4.735524e+00	-5.041685e+00	1.175119e-01	4.161562e+00	-6.503163e-01
## 1225	3.595710e+00	-1.135189e+00	-4.072540e+00	2.129190e+00	-1.999520e-01
## 1226	4.225576e-02	-1.173251e-02	-4.832766e-02	2.535078e-02	-2.572633e-03
## 1227	8.152638e-06	-2.389450e-05	-2.212334e-06	-4.792573e-07	2.708163e-06
## 1229	6.472442e-01	-2.082279e+00	-1.870716e-01	-2.413877e-05	2.240387e-01
## 1230	2.551462e-01	1.565880e-01	-1.343108e-02	-2.006091e-01	4.064969e-02
## 1231	-8.204707e-02	-9.530600e-02	1.545039e-03	7.373503e-02	-1.087915e-02
## 1233	5.021666e-06	-1.363653e-06	-5.752231e-06	3.018992e-06	-3.099680e-07
## 1234	-8.464606e+00	1.681042e-01	-9.614894e-01	3.362010e+00	1.637746e+00
## 1235	3.994592e-03	-1.325765e-02	-1.210285e-03	4.459594e-05	1.459807e-03
## 1236	-4.666612e+00	-4.029466e+01	-5.967277e+00	1.588383e+01	8.892432e-02
## 1238	-2.182208e-04	-1.326540e-05	-1.720326e-05	1.012241e-04	2.687754e-05
## 1242	2.029096e-03	-6.524552e-03	-5.862743e-04	-7.816536e-07	7.022221e-04

## 1247	1.629115e-03	-5.238729e-03	-4.707154e-04	-5.495305e-07	5.637942e-04
## 1249	-7.401047e-02	1.035453e-03	-9.844352e-03	2.770518e-02	1.697716e-02
## 1251	7.396349e-03	-2.378460e-02	-2.137101e-03	-2.436388e-06	2.559676e-03
## 1252	8.612894e-01	-4.075883e+00	-5.431432e-01	2.463946e-01	5.436058e-01
## 1253	5.059244e-01	-1.485942e+00	-1.374927e-01	-2.911021e-02	1.682300e-01
## 1256	3.837162e-03	-1.234662e-02	-1.109820e-03	-5.770762e-07	1.329523e-03
## 1258	-4.203454e+00	-8.309980e+00	-1.323548e-01	4.480950e+00	-3.901685e-01
## 1259	2.878565e-04	-9.254202e-04	-8.316111e-05	-1.492024e-07	9.961306e-05
## 1263	6.884704e-01	3.333974e-01	-4.174141e-02	-5.230186e-01	1.140332e-01
## 1264	5.195526e-04	-7.495373e-04	-9.389039e-05	-1.900054e-04	1.360262e-04
## 1265	-5.572047e+00	-6.565924e+00	9.916866e-02	5.026734e+00	-7.342878e-01
## 1266	-4.182871e-02	-3.058560e-02	1.898388e-03	3.389618e-02	-6.423977e-03
## 1269	4.176774e-03	-1.343134e-02	-1.206837e-03	-1.375799e-06	1.445469e-03
## 1270	1.799770e-03	-5.787504e-03	-5.200256e-04	-6.085489e-07	6.228556e-04
## 1271	-3.696512e-05	-4.031098e-04	-2.177619e-05	1.068264e-04	1.312602e-05
## 1272	2.402824e+00	-6.395493e-01	-2.756126e+00	1.447182e+00	-1.501135e-01
## 1273	1.650938e-03	-5.308770e-03	-4.770148e-04	-5.877722e-07	5.713441e-04
## 1274	1.155094e+00	-2.173585e+00	-7.820304e-01	3.144301e-01	1.863182e-01
## 1276	1.337998e-03	-4.302527e-03	-3.866007e-04	-4.692232e-07	4.630511e-04
## 1282	-3.059880e+01	-1.877978e+01	1.610698e+00	2.405850e+01	-4.874941e+00
## 1283	-2.267777e-01	2.969107e-02	-2.666932e-02	8.179481e-02	4.725353e-02
## 1284	5.899668e-01	-8.924763e-01	-4.626535e-01	2.049519e-01	6.503777e-02
## 1285	-1.823607e-01	-1.186120e-01	9.186408e-03	1.447550e-01	-2.872685e-02
## 1286	2.369347e-01	-6.845487e-01	-9.084923e-02	1.558995e-02	7.131136e-02
## 1287	3.326918e-05	-8.884397e-06	-3.815251e-05	2.003156e-05	-2.074390e-06
## 1288	-4.659655e+00	-3.829301e+00	1.854546e-01	3.862645e+00	-6.950805e-01
## 1289	-2.328697e+00	-5.818386e-03	-3.148065e-01	8.762143e-01	5.410764e-01
## 1290	3.796323e-03	-1.627880e-03	-4.174901e-03	2.160324e-03	-1.516492e-04
## 1291	-9.923249e-02	-8.945727e-02	3.460953e-03	8.388159e-02	-1.441585e-02
## 1293	7.276171e-03	-5.211647e-03	-9.806060e-04	-3.735400e-03	1.631999e-03
## 1294	1.800602e-01	-7.302465e-01	-7.195050e-02	1.761297e-02	8.948346e-02
## 1296	-3.185644e+00	-3.365978e+00	-8.732284e-01	1.590893e+00	1.343788e+00
## 1298	-7.635693e+00	4.585218e-01	-9.693381e-01	2.817220e+00	1.688406e+00
## 1299	1.564329e-10	-7.158847e-10	-7.345067e-11	2.496431e-11	9.241138e-11

##	1301	-7.614507e+00	-9.120748e-01	-5.646984e-01	3.704126e+00	8.414632e-01
##	1302	1.271098e-03	-4.088928e-03	-3.676988e-04	-5.535247e-07	4.405969e-04
##	1304	3.935542e+00	-1.265722e+01	-1.137320e+00	-1.073389e-03	1.362223e+00
##	1305	2.218775e-03	-7.134891e-03	-6.410997e-04	-7.599813e-07	7.678758e-04
##	1306	2.816191e-04	2.443094e-05	-2.403360e-05	-1.910313e-04	5.220102e-05
##	1308	5.990205e+00	-1.949900e+01	-1.745388e+00	4.648846e-02	2.084575e+00
##	1309	-1.244819e+00	-3.195110e+00	-5.890037e-01	8.411957e-01	8.630444e-01
##	1311	-5.637647e+00	-7.831142e-01	-8.178198e-01	2.268703e+00	1.362813e+00
##	1312	-1.137755e-03	1.081542e-04	-1.429915e-04	4.180315e-04	2.447794e-04
##	1315	1.275802e-03	-4.101544e-03	-3.685939e-04	-6.801575e-07	4.415246e-04
##	1317	-1.318900e+01	-2.191942e+01	-1.588750e-01	1.320713e+01	-1.426921e+00
##	1318	7.580586e-07	-2.248047e-07	-8.628955e-07	4.519181e-07	-4.416068e-08
##	1320	1.981693e-03	-6.372518e-03	-5.725925e-04	-6.714305e-07	6.858182e-04
##	1321	6.336329e-07	-1.913884e-07	-7.202558e-07	3.770352e-07	-3.642921e-08
##	1323	9.274256e+00	-3.574934e+01	-3.299489e+00	8.925312e-01	3.973451e+00
##	1324	-7.246319e-01	9.486217e-02	-8.521670e-02	2.613664e-01	1.509888e-01
##	1325	-2.343028e+00	-1.158572e+00	-4.686202e-01	1.016311e+00	7.515161e-01
##	1326	4.605870e-01	1.769390e-01	-3.076991e-02	-3.404376e-01	7.853665e-02
##	1327	1.184606e-03	7.270163e-04	-6.235877e-05	-9.313991e-04	1.887310e-04
##	1328	7.236570e-03	-6.395726e-03	-1.050010e-03	-3.466144e-03	1.682107e-03
##	1329	-3.997897e+00	-2.425753e+01	-1.135352e+00	7.617745e+00	4.270829e-01
##	1330	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
##	1331	-2.993435e-01	-1.199658e+00	-4.695036e-02	4.438404e-01	1.888290e-03
##	1332	9.911464e-04	-3.187055e-03	-2.863750e-04	-3.733047e-07	3.430094e-04
##	1334	1.694494e-03	-5.447283e-03	-4.901144e-04	-2.017233e-07	5.861781e-04
##	1335	6.078878e-01	-1.954945e+00	-1.756522e-01	-1.700980e-04	2.103808e-01
##	1340	2.261127e-01	-2.206072e+00	-2.602446e-01	1.726888e-01	3.440736e-01
##	1341	1.943105e-01	-6.140108e-01	-5.838958e-02	1.096312e-03	6.597545e-02
##	1343	3.135937e-05	4.273788e-07	-2.811990e-06	-2.079421e-05	5.913886e-06
##	1347	1.779790e-04	-5.719954e-04	-5.140761e-05	-1.313321e-07	6.158310e-05
##	1348	1.131920e+00	-1.116611e+00	-1.050112e+00	5.023361e-01	4.502751e-02
##	1350	3.679728e-07	-1.197153e-07	-4.158046e-07	2.172218e-07	-1.996684e-08
##	1352	-4.560649e+00	-6.615447e+00	-1.483305e+00	2.491988e+00	2.239976e+00
##	1354	7.207862e-01	3.394945e-01	-4.429011e-02	-5.456079e-01	1.198516e-01

##	1355	-6.774019e+00	-1.726412e-01	-8.733592e-01	2.646407e+00	1.484374e+00
##	1356	-8.086733e-02	1.057851e-02	-9.508950e-03	2.917147e-02	1.684753e-02
##	1357	1.258576e-03	-4.047203e-03	-3.636539e-04	-4.237564e-07	4.355629e-04
##	1358	4.878667e-04	-1.568380e-03	-1.409512e-04	-2.755311e-07	1.688441e-04
##	1359	-1.505755e-01	-8.536073e-01	-3.906264e-02	2.745881e-01	1.316734e-02
##	1360	-7.599224e-01	-6.842356e-01	-1.926389e-01	3.656625e-01	2.991783e-01
##	1363	2.594831e-03	-8.343770e-03	-7.497744e-04	-1.022227e-06	8.980781e-04
##	1364	-4.958934e-03	-9.053952e-04	-7.913452e-04	1.966067e-03	1.318849e-03
##	1368	1.653513e-04	-1.492452e-03	-1.899756e-04	9.251098e-05	2.590249e-04
##	1369	9.090637e-05	5.580607e-05	-4.815786e-06	-7.151791e-05	1.454096e-05
##	1370	1.667357e-01	-5.314853e-01	-4.919882e-02	5.056680e-04	5.714029e-02
##	1372	1.714562e-01	-5.367111e-01	-5.111661e-02	-1.821081e-04	5.799114e-02
##	1374	8.347939e-04	-2.684208e-03	-2.412027e-04	-3.443789e-07	2.889119e-04
##	1375	6.412182e-04	3.935339e-04	-3.375560e-05	-5.041623e-04	1.021614e-04
##	1376	4.119623e-03	-1.326060e-02	-1.192195e-03	-2.566047e-08	1.428319e-03
##	1377	-4.690919e-01	-4.250218e-01	1.623035e-02	3.969664e-01	-6.804555e-02
##	1378	-5.166174e-01	-3.170616e-01	2.719002e-02	4.061974e-01	-8.230789e-02
##	1379	1.964282e-04	-7.823606e-07	-1.783571e-05	-1.295512e-04	3.722797e-05
##	1383	6.703659e-01	-4.914603e+00	-3.680007e-01	5.705312e-01	3.656651e-01
##	1384	2.135087e-03	-6.865816e-03	-6.169312e-04	-7.357702e-07	7.389339e-04
##	1385	-6.445700e-01	-1.078787e+00	-8.227048e-03	6.470088e-01	-6.937398e-02
##	1386	-1.302030e+00	-8.180253e-01	-2.807425e-01	5.884349e-01	4.440168e-01
##	1387	9.976762e+00	-3.224980e+01	-2.904597e+00	1.643313e-02	3.482501e+00
##	1388	-5.113641e+00	-8.640036e-01	-7.792397e-01	2.054109e+00	1.295871e+00
##	1389	-2.439063e-02	-1.537729e-02	1.258456e-03	1.926060e-02	-3.865441e-03
##	1390	-3.464755e-02	4.536222e-03	-4.074586e-03	1.249679e-02	7.219474e-03
##	1391	-9.988502e+00	8.894929e-01	-3.051605e+00	5.035523e+00	2.334139e+00
##	1393	2.777375e+00	-2.666587e+01	-3.113711e+00	2.103575e+00	4.100091e+00
##	1395	-8.454748e-01	-5.362466e-01	-1.735676e-01	3.945510e-01	2.716667e-01
##	1397	2.149517e-03	-6.912069e-03	-6.210836e-04	-7.618460e-07	7.439058e-04
##	1399	2.254097e-05	-6.013034e-06	-2.585141e-05	1.357332e-05	-1.406364e-06
##	1400	6.231894e+00	-2.007158e+01	-1.802593e+00	4.416424e-03	2.158234e+00
##	1403	1.982923e-01	-6.107583e-01	-6.400020e-02	4.130129e-03	6.518319e-02
##	1404	4.116530e-03	-1.323766e-02	-1.189438e-03	-1.353449e-06	1.424632e-03

## 1405	8.564510e-03	-6.049507e-02	-4.517398e-03	6.748632e-03	4.588444e-03
## 1406	1.895575e-01	-6.093790e-01	-5.475933e-02	-1.004588e-04	6.559174e-02
## 1408	-5.785194e+00	-7.777677e-01	-8.499426e-01	2.307241e+00	1.420231e+00
## 1409	-6.883964e+00	-3.993439e-01	-9.464080e-01	2.678466e+00	1.603586e+00
## 1410	1.855092e+00	-5.966105e+00	-5.360508e-01	-4.794384e-04	6.420301e-01
## 1412	-3.506885e+00	-3.287140e+00	-9.061618e-01	1.702460e+00	1.404118e+00
## 1413	6.496867e-06	-1.558024e-05	-1.549430e-06	-1.092305e-06	1.989341e-06
## 1414	2.609238e-01	-2.615212e+00	-3.094710e-01	2.073936e-01	4.095389e-01
## 1415	-2.750045e+01	-2.704277e+01	8.203609e-01	2.370846e+01	-3.885561e+00
## 1417	-3.876539e+01	-3.495359e+01	1.351817e+00	3.277022e+01	-5.631648e+00
## 1418	-6.674724e+00	-1.355925e+00	-1.078843e+00	2.667912e+00	1.791620e+00
## 1420	-3.941998e-01	-4.111899e-01	1.030494e-02	3.446761e-01	-5.454615e-02
## 1421	1.000687e+00	6.136764e-01	-5.270549e-02	-7.866962e-01	1.594512e-01
## 1422	-6.761255e+00	-1.248138e+00	-1.003602e+00	2.779575e+00	1.656451e+00
## 1423	1.519998e-02	-3.782453e-02	-3.709879e-03	-2.273865e-03	4.721424e-03
## 1424	3.425554e-03	-1.101563e-02	-9.897800e-04	-1.127876e-06	1.185492e-03
## 1425	-2.277158e+00	-4.751719e+01	-2.727623e+00	1.125536e+01	1.887851e+00
## 1426	5.661571e-01	-4.122258e+00	-4.601500e-01	2.772212e-01	5.969706e-01
## 1427	-1.147387e+01	1.169325e+00	-1.686335e+00	4.399986e+00	2.479228e+00
## 1429	1.629115e-03	-5.238729e-03	-4.707154e-04	-5.495305e-07	5.637942e-04
## 1430	-1.797938e-02	5.781146e-02	5.194417e-03	6.714376e-06	-6.221508e-03
## 1431	-4.833776e-03	-1.396312e-02	-4.241977e-04	6.057276e-03	-2.336498e-04
## 1432	-3.973193e+00	-4.621397e+00	7.444578e-02	3.571940e+00	-5.265403e-01
## 1434	8.063631e-04	-2.592893e-03	-2.329859e-04	-3.011830e-07	2.790616e-04
## 1436	8.042474e-04	-1.690372e-03	-1.791856e-04	-1.867567e-04	2.385380e-04
## 1437	-1.191159e-03	1.455734e-04	-1.421067e-04	4.300140e-04	2.512945e-04
## 1438	1.155467e-03	-3.386266e-03	-4.288963e-04	6.599222e-05	3.544560e-04
## 1439	-2.740832e+00	-2.620280e+00	-7.149985e-01	1.336507e+00	1.106665e+00
## 1443	2.324739e-03	-7.476515e-03	-6.718970e-04	-7.747931e-07	8.048255e-04
## 1445	5.044094e-03	-1.196195e-02	-1.194669e-03	-8.756297e-04	1.537949e-03
## 1446	1.809873e-01	-6.112351e-02	-2.038286e-01	1.063566e-01	-9.512398e-03
## 1447	-5.371273e+00	-1.096636e+00	-8.688901e-01	2.147574e+00	1.442726e+00
## 1449	-2.712865e+01	-4.028128e+01	-3.024120e-02	2.617985e+01	-3.169480e+00
## 1450	4.177280e+00	-1.578615e+01	-1.388743e+00	4.354535e-01	1.628714e+00

##	1452	1.982224e+00	-1.365989e+00	-2.029701e+00	1.022484e+00	-7.689335e-03
##	1454	-2.272439e-01	-1.840497e-02	-3.307071e-02	8.758849e-02	5.600613e-02
##	1455	-1.951646e-02	2.500452e-03	-2.302386e-03	7.045655e-03	4.076475e-03
##	1456	2.208358e-03	-7.101348e-03	-6.381173e-04	-7.031064e-07	7.642370e-04
##	1457	5.211300e-04	-1.673674e-03	-1.724151e-04	-2.832882e-05	2.213039e-04
##	1458	1.722751e-01	-5.442296e-01	-5.215136e-02	1.396944e-03	5.838650e-02
##	1459	3.396164e-03	-1.093248e-02	-9.829227e-04	3.558868e-08	1.177620e-03
##	1462	1.367537e-01	-2.629342e-01	-2.930329e-02	-3.552200e-02	3.852525e-02
##	1463	-5.942892e+00	-9.751610e-01	-9.066052e-01	2.377754e+00	1.509811e+00
##	1464	5.772646e-04	-1.837182e-03	-1.656137e-04	-4.118355e-06	1.988423e-04
##	1465	8.289302e-01	-2.109263e+00	-2.053600e-01	-1.146076e-01	2.600107e-01
##	1466	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
##	1468	-6.695157e+00	-1.463872e+00	-1.054539e+00	2.740286e+00	1.738613e+00
##	1470	-5.139587e+00	-3.191561e+00	2.682489e-01	4.048662e+00	-8.170139e-01
##	1472	-6.355773e+00	-7.596113e-01	-9.312776e-01	2.511088e+00	1.561959e+00
##	1474	3.622234e-07	-1.180226e-07	-4.092674e-07	2.138001e-07	-1.962913e-08
##	1475	2.748917e-03	-8.971972e-03	-8.132200e-04	1.261853e-05	9.779364e-04
##	1477	1.818823e-03	-6.007670e-03	-5.489782e-04	1.478468e-05	6.626928e-04
##	1478	6.957753e-01	-3.220285e+00	-3.305753e-01	1.145756e-01	4.174573e-01
##	1479	2.334784e-05	-7.508362e-05	-6.746580e-06	-7.287004e-09	8.080679e-06
##	1480	4.350484e-04	-1.398836e-03	-1.256955e-04	-1.787940e-07	1.505552e-04
##	1481	-6.048230e+00	-5.827875e+00	1.878126e-01	5.189688e+00	-8.604021e-01
##	1482	3.022171e-01	-9.718459e-01	-8.732258e-02	-9.955885e-05	1.045892e-01
##	1483	1.526323e-03	-4.908152e-03	-4.410261e-04	-5.377290e-07	5.282437e-04
##	1484	-1.995617e+00	-1.756184e+01	-2.582588e+00	2.803050e+00	3.617405e+00
##	1485	5.988143e-01	-1.925618e+00	-1.730213e-01	-1.978361e-04	2.072335e-01
##	1486	1.086433e-01	-2.935098e-02	-1.244916e-01	6.534547e-02	-6.727265e-03
##	1487	6.978156e+00	-2.510154e+00	-7.814223e+00	4.069389e+00	-3.455142e-01
##	1489	1.016011e+00	-4.351278e+00	-4.361529e-01	1.266571e-01	5.459321e-01
##	1494	-5.642777e+00	-9.033458e+00	-1.948887e+00	3.180063e+00	2.927361e+00
##	1496	2.993062e-04	-9.621241e-04	-8.646495e-05	-1.799957e-07	1.035749e-04
##	1498	1.958466e-03	-6.331063e-03	-5.707962e-04	2.544247e-06	6.847530e-04
##	1500	9.454639e+00	-3.669581e+01	-3.402229e+00	9.323340e-01	4.106089e+00
##	1501	-6.811541e+00	-5.875840e-01	-9.694537e-01	2.663128e+00	1.635582e+00

## 1503	2.282057e-03	-7.338278e-03	-6.593843e-04	-8.117394e-07	7.897831e-04
## 1504	5.363052e-01	-9.414965e-01	-3.827597e-01	1.597851e-01	7.713982e-02
## 1505	1.188353e-04	-3.720992e-04	-3.417580e-05	-2.679414e-06	4.149406e-05
## 1507	1.262971e-02	-3.928208e-03	-1.432190e-02	7.490909e-03	-7.105434e-04
## 1508	-4.774328e-02	-7.941830e-01	-1.069757e-01	1.159303e-01	1.461009e-01
## 1509	7.288407e+00	-2.462623e+00	-8.207912e+00	4.282792e+00	-3.829099e-01
## 1510	2.267459e-01	-6.632404e-01	-8.016899e-02	8.139467e-03	7.049207e-02
## 1511	-1.344891e+00	-1.514508e+00	2.827198e-02	1.198851e+00	-1.806579e-01
## 1513	-2.079572e+00	-5.566711e+00	-1.013881e+00	1.432392e+00	1.482426e+00
## 1517	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 1518	-8.656556e-01	1.123761e-01	-1.030494e-01	3.131942e-01	1.806549e-01
## 1519	-4.034732e-01	-1.086288e+00	-3.052013e-02	4.893420e-01	-2.336518e-02
## 1520	1.195249e+01	-3.719047e+01	-3.816015e+00	2.506747e-01	3.963893e+00
## 1521	-1.389145e+00	-1.469537e-01	-2.107892e-01	5.425579e-01	3.489562e-01
## 1522	-1.656829e+01	-1.808633e+01	3.835493e-01	1.465185e+01	-2.253451e+00
## 1523	1.826895e-04	-5.126965e-04	-4.836602e-05	-1.565285e-05	5.993988e-05
## 1525	1.789382e+00	-4.763724e-01	-2.052457e+00	1.077695e+00	-1.117756e-01
## 1526	-5.587982e-03	-3.429432e-03	2.941509e-04	4.393548e-03	-8.902632e-04
## 1527	1.367783e-03	-3.362533e-03	-3.350462e-04	-2.177874e-04	4.298594e-04
## 1528	4.914841e-04	-1.580329e-03	-1.420027e-04	-1.951140e-07	1.700867e-04
## 1529	5.619289e-01	-1.808075e+00	-1.625264e-01	-8.791841e-05	1.947013e-01
## 1531	-3.341741e+00	-6.874538e+00	-1.217702e-01	3.617371e+00	-2.971005e-01
## 1532	1.488598e-03	-4.786828e-03	-4.301159e-04	-5.163197e-07	5.151704e-04
## 1535	1.618250e-03	-5.203495e-03	-4.675891e-04	-6.465232e-07	5.600781e-04
## 1536	-5.256578e-02	-8.983808e-02	-7.875258e-04	5.314442e-02	-5.563527e-03
## 1537	-6.476663e-01	-4.547170e-01	3.056157e-02	5.209737e-01	-1.003937e-01
## 1538	2.043338e-03	-6.570813e-03	-5.904046e-04	-6.741583e-07	7.071484e-04
## 1539	-1.026387e+00	-2.255880e-01	-1.691745e-01	4.130322e-01	2.786675e-01
## 1540	-6.441473e-02	-4.436646e-02	3.092365e-03	5.163801e-02	-1.002641e-02
## 1542	-4.888982e+00	6.385898e-01	-5.751584e-01	1.763555e+00	1.018986e+00
## 1543	8.042474e-04	-1.690372e-03	-1.791856e-04	-1.867567e-04	2.385380e-04
## 1544	5.989008e+00	-1.946036e+01	-1.742891e+00	3.935427e-02	2.082457e+00
## 1548	-4.588376e+00	-4.589149e-01	-6.334176e-01	1.836552e+00	1.060887e+00
## 1551	-2.785254e+00	-1.072423e+01	-1.788937e+00	2.299954e+00	2.573407e+00

## 1553	-6.506447e+00	-3.587750e-01	-8.737126e-01	2.552528e+00	1.478029e+00
## 1556	9.635185e-01	2.795969e-01	-6.995605e-02	-6.935905e-01	1.687095e-01
## 1558	3.005822e-04	1.840010e-04	-1.587282e-05	-2.362626e-04	4.795046e-05
## 1559	2.732725e+00	-1.116344e+00	-3.021370e+00	1.566404e+00	-1.168447e-01
## 1560	-9.832692e-02	1.363260e-02	-1.146323e-02	3.537627e-02	2.035171e-02
## 1561	3.467832e-01	-7.790501e-01	-1.979392e-01	6.850315e-02	7.347062e-02
## 1562	1.078696e-02	-5.820308e-01	-3.692908e-02	1.122806e-01	3.049683e-02
## 1563	8.080798e-04	-2.150335e-04	-9.269113e-04	4.867035e-04	-5.049069e-05
## 1565	2.833956e-04	-9.084658e-04	-8.191363e-05	-9.386926e-07	9.832037e-05
## 1566	2.197976e-04	-7.007472e-04	-6.394023e-05	-2.332940e-06	7.727646e-05
## 1568	-7.037456e+00	-1.117530e+01	-5.265104e-02	6.940292e+00	-7.867710e-01
## 1569	-9.168088e-04	1.018012e-04	-1.044304e-04	3.401119e-04	1.834915e-04
## 1570	-9.047517e+00	5.324237e-02	-1.213170e+00	3.395450e+00	2.088609e+00
## 1571	-7.423445e+00	-9.393909e+00	9.222170e-02	6.829579e+00	-9.467199e-01
## 1572	-1.797347e-02	5.778980e-02	5.192585e-03	7.304910e-06	-6.219407e-03
## 1573	-2.460101e+01	-1.509811e+01	1.295014e+00	1.934258e+01	-3.919412e+00
## 1574	-2.796676e+01	-2.309654e+01	1.106089e+00	2.320649e+01	-4.166290e+00
## 1575	-2.506785e+00	-8.863284e-01	-4.512115e-01	1.050637e+00	7.338072e-01
## 1577	8.721980e-02	-6.401145e-02	-1.184422e-02	-4.445380e-02	1.962796e-02
## 1578	1.058505e+00	2.327819e-01	-8.144214e-02	-7.467020e-01	1.889687e-01
## 1579	-6.143411e+00	-3.954113e-01	-8.348672e-01	2.413648e+00	1.410299e+00
## 1580	1.867015e-02	-8.210687e-02	-7.320483e-03	3.811354e-03	8.591733e-03
## 1581	-2.439559e-01	3.194111e-02	-2.868937e-02	8.799059e-02	5.083277e-02
## 1582	8.343191e-02	5.565993e-02	-5.425948e-03	-6.816444e-02	1.552117e-02
## 1584	1.854159e-01	-5.962692e-01	-5.357711e-02	-5.835333e-05	6.417158e-02
## 1585	6.013764e+00	-1.961660e+01	-1.754773e+00	5.507455e-02	2.094762e+00
## 1586	-2.843218e+00	-2.494253e+00	-6.464190e-01	1.443264e+00	9.848351e-01
## 1587	3.802741e-04	-1.210231e-03	-1.108596e-04	-4.939307e-06	1.342800e-04
## 1588	1.659124e+00	-1.266638e+00	-1.662918e+00	8.305453e-01	1.066084e-02
## 1590	4.483047e-04	-9.991090e-05	-4.719307e-05	-2.760791e-04	9.055747e-05
## 1591	6.690058e-01	-1.929784e+00	-1.798900e-01	-4.569265e-02	2.209200e-01
## 1592	2.037657e-03	-6.552546e-03	-5.887631e-04	-6.720398e-07	7.051822e-04
## 1593	2.937993e-04	-9.445204e-04	-8.487784e-05	-1.535358e-07	1.016697e-04
## 1595	1.372403e-04	-4.395292e-04	-3.957398e-05	-4.527837e-07	4.746484e-05

## 1596	1.045874e+00	6.418550e-01	-5.505659e-02	-8.223160e-01	1.666285e-01
## 1597	-7.123361e+00	-1.479733e+00	-1.115644e+00	2.901533e+00	1.843135e+00
## 1598	-6.279540e+00	-1.101946e+00	-9.920781e-01	2.489684e+00	1.654310e+00
## 1599	-9.384988e+00	2.685608e-02	-1.262177e+00	3.525438e+00	2.171606e+00
## 1600	2.141424e-02	-6.244501e-03	-2.440443e-02	1.278615e-02	-1.262373e-03
## 1601	-6.187143e+00	-6.341931e+00	1.686646e-01	5.386911e+00	-8.616204e-01
## 1602	-6.580639e-01	-4.205104e-01	3.361372e-02	5.208194e-01	-1.040302e-01
## 1604	-5.532555e-02	7.221779e-03	-6.509217e-03	1.995752e-02	1.153206e-02
## 1605	8.097911e-02	-2.601835e-01	-2.338546e-02	-7.120937e-05	2.801363e-02
## 1606	9.807803e-04	-3.153173e-03	-2.834286e-04	-5.865609e-07	3.395495e-04
## 1607	-3.028946e+00	-2.002948e+00	-6.724974e-01	1.372713e+00	1.062528e+00
## 1608	1.778451e+00	-2.900132e+00	-3.399244e-01	-5.791070e-01	4.780033e-01
## 1609	1.700078e-02	-1.679959e-03	-1.642418e-03	-1.088078e-02	3.299308e-03
## 1610	2.981078e-05	-7.964931e-06	-3.418526e-05	1.794838e-05	-1.858189e-06
## 1611	1.940319e-01	-4.730888e-01	-4.745642e-02	-3.021054e-02	5.961321e-02
## 1612	-4.839047e-02	-5.822482e-02	7.869217e-04	4.390150e-02	-6.318116e-03
## 1614	2.927625e-03	-9.416068e-03	-8.462102e-04	-8.814541e-07	1.013628e-03
## 1616	7.763678e-01	4.566906e-01	-4.208915e-02	-6.063606e-01	1.246549e-01
## 1617	3.991581e-04	-1.283247e-03	-1.153191e-04	-2.088993e-07	1.381346e-04
## 1618	-4.233822e+01	-2.702955e+01	2.164183e+00	3.350311e+01	-6.694289e+00
## 1619	7.095485e-01	-2.014654e+00	-1.892971e-01	-5.454057e-02	2.326717e-01
## 1621	-6.833984e+00	-5.984416e-01	-1.000494e+00	2.639297e+00	1.692415e+00
## 1622	-6.355216e+00	-9.326563e-01	-9.799779e-01	2.498364e+00	1.641433e+00
## 1623	1.586058e-02	-5.100321e-02	-4.582756e-03	-5.224568e-06	5.488919e-03
## 1625	-5.745600e+00	7.522714e-01	-6.756863e-01	2.072336e+00	1.197203e+00
## 1627	-1.805760e-02	5.806415e-02	5.217152e-03	6.579989e-06	-6.248751e-03
## 1629	4.794124e-01	-1.463767e+00	-1.337322e-01	-1.616477e-02	1.621451e-01
## 1630	-2.766534e+00	-5.670975e-01	-4.157315e-01	1.146882e+00	6.835243e-01
## 1631	2.502565e-01	-8.286313e-02	-2.823220e-01	1.474014e-01	-1.338243e-02
## 1632	8.267507e-05	-2.592034e-04	-2.351325e-05	-1.438634e-06	2.835401e-05
## 1634	-5.703108e+00	-2.982919e-01	-7.717927e-01	2.225276e+00	1.307746e+00
## 1635	4.628862e-04	-1.488382e-03	-1.337401e-04	-1.817728e-07	1.601895e-04
## 1636	-2.157677e-01	-8.756845e-02	-4.138978e-02	9.192376e-02	6.584948e-02
## 1637	-2.192671e+01	-2.796345e+01	2.590610e-01	2.021708e+01	-2.785827e+00

## 1639	5.766091e+00	-1.927662e+01	-1.711380e+00	1.488340e-01	2.031315e+00
## 1640	-4.301740e-04	3.511935e-05	-4.691804e-05	1.657892e-04	8.136427e-05
## 1641	-6.805166e+00	-6.290519e+00	2.277744e-01	5.784438e+00	-9.810872e-01
## 1643	1.906646e-03	-6.131232e-03	-5.509083e-04	-6.339058e-07	6.598433e-04
## 1644	-3.881380e+01	-3.259052e+01	1.502022e+00	3.231722e+01	-5.756067e+00
## 1645	1.662579e-01	-5.603948e-01	-5.143310e-02	2.954075e-03	6.216658e-02
## 1646	-5.038978e+00	-5.167572e-01	-5.911646e-01	2.152310e+00	9.690171e-01
## 1650	1.381403e+00	-1.363620e+00	-1.294805e+00	6.285522e-01	5.164011e-02
## 1651	-3.618117e+00	4.737039e-01	-4.254899e-01	1.304999e+00	7.538955e-01
## 1652	1.250990e-03	-4.023298e-03	-3.616859e-04	-5.650835e-07	4.333234e-04
## 1654	7.232715e+00	-2.483818e+00	-8.133562e+00	4.241902e+00	-3.744443e-01
## 1656	-8.439209e+00	-2.743964e+01	-2.702001e+01	4.150505e+01	-6.898908e+00
## 1657	3.326407e-03	-4.238687e-03	-5.627312e-04	-1.326634e-03	8.364239e-04
## 1658	8.842698e-04	-2.843516e-03	-2.555004e-04	-3.046682e-07	3.060243e-04
## 1659	2.391607e-01	1.013504e-01	-1.539270e-02	-1.787174e-01	4.031826e-02
## 1661	9.941140e-04	-3.196388e-03	-2.872184e-04	-4.161010e-07	3.440241e-04
## 1662	6.066974e+00	-1.998837e+00	-6.847245e+00	3.575496e+00	-3.258168e-01
## 1663	-3.335338e-02	-2.211616e-02	1.398321e-03	2.623954e-02	-4.755658e-03
## 1665	1.195887e-03	-3.853058e-03	-3.470850e-04	-2.434739e-07	4.162585e-04
## 1668	2.919445e-06	-8.032369e-07	-3.341147e-06	1.753027e-06	-1.787571e-07
## 1669	-1.192983e-03	-1.161071e-03	3.613348e-05	1.025760e-03	-1.687752e-04
## 1670	-7.014364e-03	7.238853e-04	-2.278147e-03	3.637199e-03	1.635753e-03
## 1671	8.377861e-04	-2.693932e-03	-2.420655e-04	-3.143294e-07	2.899373e-04
## 1673	2.521221e+00	-8.162375e+00	-7.318651e-01	1.042186e-02	8.752009e-01
## 1674	2.609146e+00	-6.944382e-01	-2.992793e+00	1.571452e+00	-1.630070e-01
## 1675	-6.637072e+00	-2.011706e+00	-1.144922e+00	2.749618e+00	1.872228e+00
## 1677	9.765587e-02	-3.509233e-02	-1.093668e-01	5.695660e-02	-4.840323e-03
## 1679	-6.997909e-02	-4.615870e-02	3.485466e-03	5.568004e-02	-1.099216e-02
## 1680	6.299393e-02	1.617288e-02	-4.703669e-03	-4.491388e-02	1.113282e-02
## 1683	-7.032172e-05	8.101016e-06	-8.523878e-06	2.535650e-05	1.505389e-05
## 1685	-2.969776e+00	-3.183732e+00	7.233969e-02	2.614334e+00	-4.067594e-01
## 1687	1.928018e-01	1.182599e-01	-1.015331e-02	-1.515771e-01	3.072025e-02
## 1689	-1.460715e+01	-1.205664e+01	5.781291e-01	1.211945e+01	-2.176393e+00
## 1690	2.324399e-03	-7.474064e-03	-6.716087e-04	-9.189269e-07	8.044430e-04

##	1691	-1.157340e+00	-3.362916e+00	-5.992832e-01	8.279565e-01	8.728466e-01
##	1692	-2.360719e+00	-2.276051e+00	-6.183294e-01	1.153436e+00	9.565653e-01
##	1693	2.013318e-02	-5.880630e-03	-2.294167e-02	1.201927e-02	-1.185511e-03
##	1694	1.131118e-01	-3.635770e-01	-3.269184e-02	-4.797613e-05	3.913255e-02
##	1695	-3.197562e+00	-6.270511e+00	-9.754074e-02	3.398213e+00	-2.992853e-01
##	1696	7.326845e-06	-1.977941e-06	-8.396142e-06	4.407215e-06	-4.538805e-07
##	1697	-3.898485e-04	2.497648e-05	-4.090424e-05	1.542253e-04	7.026200e-05
##	1698	1.419774e-05	-4.441861e-05	-4.028185e-06	-2.614561e-07	4.857304e-06
##	1699	6.934606e-04	3.905934e-04	-3.876175e-05	-5.381756e-04	1.123714e-04
##	1701	-2.847118e-01	-3.154765e-01	6.302435e-03	2.527397e-01	-3.849575e-02
##	1704	1.511735e-03	-4.861179e-03	-4.367947e-04	-5.299337e-07	5.231689e-04
##	1705	3.260137e-01	-1.385095e-01	-3.663586e-01	1.916143e-01	-1.261763e-02
##	1706	3.419763e-03	-1.099841e-02	-9.883895e-04	-1.085058e-06	1.183923e-03
##	1707	5.509889e+00	-1.772307e+01	-1.592327e+00	-8.340015e-04	1.907064e+00
##	1708	9.885409e-01	-1.038266e+00	-9.082918e-01	4.369059e-01	4.563466e-02
##	1710	1.599251e-03	-5.142685e-03	-4.620869e-04	-5.434908e-07	5.534606e-04
##	1711	-2.865734e-01	-2.978820e-01	7.556661e-03	2.503580e-01	-3.970618e-02
##	1713	2.175250e-01	-1.413044e+00	-1.153286e-01	1.561425e-01	1.079609e-01
##	1716	8.283517e-01	5.083173e-01	-4.360858e-02	-6.512809e-01	1.319751e-01
##	1717	6.217626e+00	-2.460190e+00	-1.428793e+01	9.194495e+00	4.438037e-01
##	1718	-1.154138e+01	-1.187995e+00	-1.669284e+00	4.533201e+00	2.808317e+00
##	1719	-6.195134e+00	-3.782654e-02	-7.083829e-01	2.500241e+00	1.196689e+00
##	1720	-1.376768e+01	-1.696448e+01	1.992974e-01	1.257238e+01	-1.778165e+00
##	1722	-6.254523e+00	-5.380603e-01	-9.143797e-01	2.414396e+00	1.547160e+00
##	1723	8.924915e-04	-2.869886e-03	-2.580587e-04	-5.572520e-07	3.092156e-04
##	1724	-8.126152e-01	-2.656080e+00	-4.563887e-01	6.198825e-01	6.597824e-01
##	1725	3.219963e-03	-1.035517e-02	-9.305083e-04	-1.038493e-06	1.114545e-03
##	1726	-1.972244e-02	-2.938283e-02	-2.811780e-05	1.905280e-02	-2.299294e-03
##	1727	5.182621e-02	-1.218375e+00	-1.480557e-01	1.298083e-01	1.966432e-01
##	1728	3.570471e+00	-1.152002e+01	-1.034020e+00	6.699437e-03	1.237516e+00
##	1729	-2.538709e-04	-3.884128e-04	-3.205426e-06	2.447768e-04	-2.516110e-05
##	1730	1.822967e+00	-4.853035e-01	-2.090982e+00	1.097925e+00	-1.138749e-01
##	1732	3.333548e-03	-1.073050e-02	-9.646578e-04	9.505581e-08	1.155670e-03
##	1733	3.357027e-06	-7.019220e-06	-7.369748e-07	-7.760690e-07	9.776264e-07

##	1735	-1.184550e-02	-8.694260e-02	-4.295356e-03	2.566160e-02	2.003169e-03
##	1737	1.796998e-03	-5.778579e-03	-5.192260e-04	-6.126540e-07	6.218996e-04
##	1738	4.383341e-02	-1.409554e-01	-1.266519e-02	-1.456587e-05	1.516953e-02
##	1739	7.159389e-03	-5.450422e-03	-9.844939e-04	-3.608936e-03	1.621027e-03
##	1740	8.861786e-01	5.438482e-01	-4.665007e-02	-6.967558e-01	1.411860e-01
##	1741	4.130596e-03	-1.358401e-02	-1.234326e-03	3.237934e-05	1.485751e-03
##	1743	-5.578750e+00	7.298517e-01	-6.561931e-01	2.012264e+00	1.162545e+00
##	1745	7.128308e-04	-1.003464e-03	-5.809092e-04	2.630761e-04	6.817800e-05
##	1746	9.332658e-01	-2.954378e+00	-2.700329e-01	-6.116048e-03	3.198695e-01
##	1748	2.865089e-04	1.758362e-04	-1.508211e-05	-2.252682e-04	4.564652e-05
##	1749	-1.043521e+01	-1.627216e+00	-1.621309e+00	4.113971e+00	2.711679e+00
##	1750	1.712993e-03	-5.508457e-03	-4.949517e-04	-5.785296e-07	5.928232e-04
##	1751	-8.682601e-01	-3.899882e+00	-6.308156e-01	7.823102e-01	9.018533e-01
##	1752	2.915445e-10	-1.184486e-09	-1.173441e-10	2.917729e-11	1.453372e-10
##	1753	-1.151205e-02	-8.090484e-03	-9.116315e-02	7.253799e-02	1.275858e-02
##	1754	1.637778e+00	-1.784320e+01	-1.252055e+00	2.583002e+00	1.180118e+00
##	1755	1.028186e+00	-3.306970e+00	-2.971220e-01	-2.140895e-04	3.558577e-01
##	1756	1.232398e-04	-3.962453e-04	-3.560813e-05	-5.650458e-08	4.265249e-05
##	1758	3.207787e-01	-7.784934e-01	-1.662338e-01	5.151213e-02	7.598229e-02
##	1759	3.128097e-03	-3.679762e-03	-5.103201e-04	-1.310434e-03	7.716869e-04
##	1760	4.400237e+00	-1.963340e+00	-4.816492e+00	2.488019e+00	-1.651045e-01
##	1761	1.465081e-02	-1.347728e+00	-1.756450e-01	1.519209e-01	2.388451e-01
##	1762	1.076960e+01	-4.554527e+00	-2.742547e+01	1.796456e+01	1.078730e+00
##	1763	8.841547e+00	-3.560903e+01	-3.010068e+00	1.461341e+00	3.427022e+00
##	1764	-1.477988e-01	1.931769e-02	-1.738557e-02	5.331244e-02	3.080251e-02
##	1765	4.794673e-03	-1.569664e-02	-1.420393e-03	3.302100e-05	1.706231e-03
##	1767	2.839724e-01	-9.131743e-01	-8.205085e-02	-9.391421e-05	9.827507e-02
##	1770	-3.048687e-01	-1.146031e+00	-1.921496e-01	2.484982e-01	2.766821e-01
##	1771	-6.793383e+00	8.050502e-02	-8.125805e-01	2.661999e+00	1.387251e+00
##	1772	4.190838e-06	-1.142232e-06	-4.799318e-06	2.518652e-06	-2.581028e-07
##	1774	-3.255614e-01	4.006254e-02	-5.968603e-02	1.337238e-01	7.035149e-02
##	1775	-1.066197e-01	-7.515057e-01	-3.674185e-02	2.246085e-01	1.650854e-02
##	1777	-2.568833e+00	1.149926e-01	-3.477870e-01	9.649371e-01	5.766600e-01
##	1778	-1.344891e+00	-1.514508e+00	2.827198e-02	1.198851e+00	-1.806579e-01

## 1779	-1.318900e+01	-2.191942e+01	-1.588750e-01	1.320713e+01	-1.426921e+00
## 1780	8.836522e-03	-6.794218e-03	-1.219044e-03	-4.440341e-03	2.003642e-03
## 1781	-2.763463e-01	-2.275958e-01	1.096186e-02	2.291723e-01	-4.118683e-02
## 1783	2.475920e-03	-7.961909e-03	-7.154069e-04	-8.228122e-07	8.568738e-04
## 1784	9.496756e-04	-3.053547e-03	-2.744371e-04	-4.585352e-07	3.287509e-04
## 1785	-2.209633e-04	-1.369678e-03	-2.204104e-04	2.303301e-04	3.163012e-04
## 1786	6.716255e+00	-2.459119e+00	-7.508311e+00	3.907754e+00	-3.265482e-01
## 1787	-1.073132e-01	1.302280e-02	-2.219458e-02	4.599658e-02	2.346590e-02
## 1788	1.376499e-03	-4.409460e-03	-4.026667e-04	3.016725e-06	4.740177e-04
## 1789	2.108797e-03	-6.781252e-03	-6.093202e-04	-7.151848e-07	7.298095e-04
## 1791	-4.109832e-01	-1.935916e-02	-5.797515e-02	1.567812e-01	9.878774e-02
## 1793	9.161607e-01	5.621939e-01	-4.823176e-02	-7.203181e-01	1.459655e-01
## 1796	1.018008e+00	3.844713e-01	-6.841653e-02	-7.510930e-01	1.739070e-01
## 1797	1.410594e-03	-4.535971e-03	-4.075779e-04	-4.959742e-07	4.881773e-04
## 1799	-2.154554e-04	-1.321419e-05	-1.699450e-05	9.996285e-05	2.654644e-05
## 1800	2.707062e-01	-8.705122e-01	-7.821761e-02	-8.987622e-05	9.368392e-02
## 1801	-7.288918e-01	-4.863117e-01	-1.478958e-01	3.491357e-01	2.293600e-01
## 1802	-8.325912e-01	1.621372e-02	-1.101429e-01	3.111411e-01	1.901647e-01
## 1803	1.198313e+00	-2.224634e+00	-8.200979e-01	3.323789e-01	1.890961e-01
## 1804	-3.264398e+00	-5.479812e+00	-4.269273e-02	3.280079e+00	-3.505093e-01
## 1805	9.868680e-05	-2.333547e-05	-1.578813e-05	-6.720615e-05	2.993541e-05
## 1806	3.032464e-03	-9.751559e-03	-8.762002e-04	-9.987735e-07	1.049454e-03
## 1807	1.321427e+00	-5.377832e+00	-4.562152e-01	2.251520e-01	5.212536e-01
## 1809	2.409410e-03	-7.747972e-03	-6.961891e-04	-8.170139e-07	8.338596e-04
## 1810	9.415970e-04	-3.027712e-03	-2.720550e-04	-3.545846e-07	3.258560e-04
## 1813	9.357234e-02	-2.961980e-01	-2.675211e-02	-9.898296e-04	3.215200e-02
## 1814	1.788376e-03	-5.750730e-03	-5.167277e-04	-6.358641e-07	6.189107e-04
## 1815	-7.686599e-01	-3.732274e+00	-5.922287e-01	7.291519e-01	8.429007e-01
## 1818	-7.149768e-03	-6.310628e-03	2.573955e-04	6.015691e-03	-1.044709e-03
## 1819	-5.873417e-03	-4.015086e-05	-7.614011e-03	7.391373e-03	2.034024e-03
## 1820	-1.028283e-03	-7.915205e-04	4.416152e-05	8.413316e-04	-1.558742e-04
## 1821	1.345195e-01	1.135546e-02	-1.147477e-02	-9.115329e-02	2.490389e-02
## 1823	-4.808958e+00	-3.791328e+00	2.013141e-01	3.953439e+00	-7.251931e-01
## 1824	-5.919887e-03	-5.737336e-03	1.813939e-04	5.085871e-03	-8.398017e-04

## 1825	1.895922e-04	-2.646818e-04	-3.349259e-05	-7.086613e-05	4.878812e-05
## 1826	6.780600e-01	4.161362e-01	-3.569368e-02	-5.331252e-01	1.080280e-01
## 1828	9.120603e-04	-9.567911e-04	-8.384446e-04	4.034434e-04	4.192233e-05
## 1829	2.852418e+00	-9.177963e+00	-8.245103e-01	1.634650e-04	9.874087e-01
## 1830	1.784597e-01	-3.362568e+00	-4.190902e-01	3.256946e-01	5.629976e-01
## 1832	7.390881e-04	-2.986995e-04	-8.612620e-05	-4.277233e-04	1.559321e-04
## 1834	5.081220e+00	-1.646282e+01	-1.475760e+00	2.357429e-02	1.764475e+00
## 1835	-4.763471e-02	6.223327e-03	-5.603649e-03	1.718257e-02	9.928003e-03
## 1838	-2.430133e+00	-4.726956e+00	-7.174725e-02	2.574706e+00	-2.293404e-01
## 1839	-2.740353e+00	-1.087726e+00	-4.993860e-01	1.174426e+00	8.057341e-01
## 1840	1.626526e-03	-5.230392e-03	-4.699679e-04	-5.530319e-07	5.629001e-04
## 1841	-8.693139e+00	-9.324497e+00	-2.380874e+00	4.383292e+00	3.653926e+00
## 1842	6.313531e-01	-2.030197e+00	-1.824195e-01	-2.200287e-04	2.184914e-01
## 1843	-8.447455e-01	-2.990362e-01	-1.537428e-01	3.528510e-01	2.496856e-01
## 1844	1.531557e-01	-4.892665e-01	-4.405290e-02	-7.153306e-04	5.284507e-02
## 1846	-7.534329e-02	-3.592186e+00	-4.835845e-01	4.479336e-01	6.631371e-01
## 1847	-1.669525e+01	-1.024688e+01	8.788066e-01	1.312680e+01	-2.659839e+00
## 1848	2.738267e-03	-8.810753e-03	-7.920760e-04	-5.281872e-07	9.489377e-04
## 1850	4.711427e-02	-1.303511e-02	-5.389780e-02	2.827505e-02	-2.874857e-03
## 1852	6.782652e-04	3.970736e-04	-3.693330e-05	-5.294049e-04	1.090802e-04
## 1853	-6.818469e+00	-1.037679e+00	-1.015856e+00	2.735783e+00	1.692205e+00
## 1856	-1.096956e-01	9.639937e-03	-1.352277e-02	4.011676e-02	2.370616e-02
## 1858	-6.048746e+00	-3.371904e+00	-1.246116e+00	2.685707e+00	1.982649e+00
## 1859	2.263522e+00	-6.550634e-01	-2.581155e+00	1.352624e+00	-1.341152e-01
## 1861	1.009837e+00	-3.251068e+00	-2.920115e-01	4.296444e-04	3.496586e-01
## 1862	5.643951e-05	-1.890391e-05	-1.078251e-05	-3.907396e-05	2.002661e-05
## 1863	3.558720e-01	8.985870e-02	-2.666545e-02	-2.534231e-01	6.296618e-02
## 1864	1.001487e-03	-3.220401e-03	-2.893661e-04	-3.544636e-07	3.465879e-04
## 1865	-1.423216e-07	4.516275e-07	4.045452e-08	9.138437e-10	-4.840745e-08
## 1867	-2.288504e-02	-1.500998e-02	1.145036e-03	1.819131e-02	-3.598772e-03
## 1868	-5.830661e+00	-2.907437e+00	-1.169207e+00	2.532155e+00	1.874220e+00
## 1869	6.935567e-03	-3.225529e-03	-8.271320e-04	-3.918000e-03	1.470512e-03
## 1870	-1.318900e+01	-2.191942e+01	-1.588750e-01	1.320713e+01	-1.426921e+00
## 1872	9.810843e-04	-3.154642e-03	-2.834705e-04	-3.894428e-07	3.395361e-04

##	1873	1.348686e+00	-3.591416e-01	-1.546943e+00	8.122574e-01	-8.423430e-02
##	1875	-1.225872e-01	1.604115e-02	-1.441605e-02	4.421802e-02	2.554218e-02
##	1876	2.143291e-03	-6.892242e-03	-6.192854e-04	-7.057621e-07	7.417397e-04
##	1877	5.963965e-03	3.419949e-03	-3.287721e-04	-4.639869e-03	9.618903e-04
##	1878	2.038821e+00	-6.560951e+00	-5.896969e-01	-1.063867e-04	7.063914e-01
##	1879	1.601269e-03	-5.149095e-03	-4.626667e-04	-5.622857e-07	5.541580e-04
##	1880	-2.230047e+01	-1.072127e+01	3.699630e-01	1.568021e+01	-1.853224e+00
##	1881	4.218643e-03	-1.356618e-02	-1.218971e-03	-1.377328e-06	1.460012e-03
##	1885	6.144962e-01	-1.976047e+00	-1.775525e-01	-2.028084e-04	2.126606e-01
##	1887	1.088582e+00	-3.497330e+00	-3.143358e-01	-1.023295e-03	3.765702e-01
##	1890	-7.044041e-03	-9.391511e-03	5.731110e-05	6.577662e-03	-8.736926e-04
##	1891	1.629115e-03	-5.238729e-03	-4.707154e-04	-5.495305e-07	5.637942e-04
##	1892	2.331054e-03	-7.496044e-03	-6.735388e-04	-7.664504e-07	8.067211e-04
##	1894	4.041915e-01	2.480599e-01	-2.127693e-02	-3.177961e-01	6.439545e-02
##	1895	-8.625652e+00	-1.119231e+01	9.007111e-02	7.992491e+00	-1.086548e+00
##	1896	3.445885e-03	-1.123659e-02	-1.017442e-03	1.541858e-05	1.222891e-03
##	1897	-3.743688e-02	4.879660e-03	-4.405493e-03	1.350538e-02	7.804615e-03
##	1899	1.674042e-04	-4.458202e-05	-1.920114e-04	1.008198e-04	-1.045494e-05
##	1900	2.414638e+00	-9.369788e+00	-8.101129e-01	3.117049e-01	9.389359e-01
##	1901	5.683868e-09	-5.634389e-09	-5.430805e-09	2.665003e-09	2.265388e-10
##	1902	6.274967e-01	2.177993e-02	-5.545128e-02	-4.188041e-01	1.176909e-01
##	1903	-3.591214e-01	-1.256323e+00	-2.139496e-01	2.818420e-01	3.089927e-01
##	1905	6.031604e-04	3.536571e-04	-3.280451e-05	-4.708904e-04	9.696524e-05
##	1906	7.497848e-04	-7.170353e-04	-1.137669e-04	-3.500140e-04	1.799626e-04
##	1907	3.133807e-02	1.818736e-02	-1.714167e-03	-2.442505e-02	5.043739e-03
##	1908	-6.674584e+00	-2.559684e+00	-1.223660e+00	2.825890e+00	1.982150e+00
##	1909	2.337487e-04	1.416713e-04	-1.249717e-05	-1.835228e-04	3.748156e-05
##	1910	2.127200e-03	-6.840482e-03	-6.146378e-04	-7.069091e-07	7.361753e-04
##	1911	-5.442729e-04	5.069408e-05	-6.030887e-05	2.067972e-04	1.051302e-04
##	1913	-1.255465e-01	-1.420057e-01	2.600527e-03	1.120418e-01	-1.683386e-02
##	1915	1.229623e-03	-3.954041e-03	-3.552847e-04	-4.252816e-07	4.255401e-04
##	1916	-1.250649e+00	-6.458226e+00	-1.010360e+00	1.236522e+00	1.433188e+00
##	1917	-5.845238e+00	-9.975321e-01	-9.197502e-01	2.314173e+00	1.534851e+00
##	1918	-2.486556e+00	-6.012028e+00	-1.127016e+00	1.637981e+00	1.656027e+00

## 1919	8.562283e-01	-1.031119e+00	-7.484006e-01	3.515304e-01	5.777799e-02
## 1920	-3.437358e+01	-3.955702e+01	6.701988e-01	3.081502e+01	-4.575904e+00
## 1921	2.089890e-04	-6.024580e-04	-5.609101e-05	-1.435141e-05	6.893157e-05
## 1923	3.705716e-01	-2.199585e+00	-1.741360e-01	2.123118e-01	1.762293e-01
## 1924	-2.256937e-01	-5.085487e+00	-7.002893e-01	6.793712e-01	9.657072e-01
## 1925	5.467757e-05	-1.752247e-04	-1.576369e-05	-1.447919e-07	1.889746e-05
## 1927	1.927957e-01	-5.837694e-01	-6.103429e-02	1.287966e-03	6.303109e-02
## 1929	6.976112e-03	-6.480813e-03	-1.031534e-03	-3.276511e-03	1.636681e-03
## 1930	4.858288e-01	-8.531651e-01	-3.466189e-01	1.446489e-01	6.992751e-02
## 1932	-6.192153e+00	-3.101264e+00	-1.229725e+00	2.708088e+00	1.967146e+00
## 1933	2.673854e-03	-8.598470e-03	-7.726061e-04	-8.812153e-07	9.253846e-04
## 1934	1.502636e-01	-4.808274e-01	-4.403722e-02	3.523988e-04	5.169152e-02
## 1935	1.021748e+00	4.412489e-01	-6.525159e-02	-7.652156e-01	1.718460e-01
## 1937	-1.575232e-02	5.063653e-02	4.549202e-03	7.573728e-06	-5.448439e-03
## 1938	-9.824594e+00	3.153966e+01	2.854146e+00	-7.535666e-03	-3.392651e+00
## 1939	-3.642987e+00	-4.060092e+00	-9.728613e-01	1.911446e+00	1.474590e+00
## 1940	9.194929e-04	-2.956609e-03	-2.656768e-04	-3.644934e-07	3.182239e-04
## 1943	-6.809905e+00	-4.587077e-01	-9.319282e-01	2.673094e+00	1.574066e+00
## 1944	3.846945e-03	-1.237120e-02	-1.111603e-03	-1.211226e-06	1.331416e-03
## 1945	1.405153e-02	-5.715038e-02	-4.934705e-03	2.278835e-03	5.701184e-03
## 1949	-9.618226e+00	-9.762794e+00	-2.576104e+00	4.766263e+00	3.970991e+00
## 1951	1.057189e-03	-3.399550e-03	-3.054615e-04	-3.661382e-07	3.658647e-04
## 1952	1.217635e-01	7.051005e-02	-6.713968e-03	-9.482009e-02	1.959394e-02
## 1954	-1.500996e-02	-2.638376e-02	-2.696383e-04	1.532560e-02	-1.553626e-03
## 1955	-4.085550e+00	-2.477003e+00	-8.774317e-01	1.825387e+00	1.392703e+00
## 1956	-2.733518e+00	-1.949071e+00	-6.254960e-01	1.255422e+00	9.842201e-01
## 1957	1.238166e-03	-1.178649e-02	-1.393085e-03	9.028339e-04	1.843882e-03
## 1958	-4.647606e+00	-2.852497e+00	2.446426e-01	3.654223e+00	-7.404443e-01
## 1959	-6.094064e-01	-4.719673e-01	2.603397e-02	4.992509e-01	-9.231134e-02
## 1960	-6.720305e+00	-7.414036e-01	-9.560168e-01	2.673798e+00	1.602071e+00
## 1962	3.822161e-04	2.345741e-04	-2.012033e-05	-3.005185e-04	6.089479e-05
## 1963	-5.762043e+00	-1.118992e+00	-9.124698e-01	2.312308e+00	1.514836e+00
## 1965	1.342471e-03	-4.316949e-03	-3.878919e-04	-4.580568e-07	4.645941e-04
## 1966	4.658473e+00	-1.506004e+01	-1.350937e+00	1.481899e-02	1.616060e+00

## 1968	2.996608e-04	-5.358358e-04	-7.178722e-05	-1.025297e-04	1.045202e-04
## 1970	1.911612e-03	1.173208e-03	-1.006321e-04	-1.503017e-03	3.045640e-04
## 1971	1.712993e-03	-5.508457e-03	-4.949517e-04	-5.785296e-07	5.928232e-04
## 1972	1.966779e+00	-8.299720e+00	-6.901659e-01	4.046951e-01	7.769878e-01
## 1973	2.540697e-01	-2.157495e+00	-2.500762e-01	1.564985e-01	3.288663e-01
## 1975	-2.632230e+00	-5.192815e+01	-2.967024e+00	1.239410e+01	2.036129e+00
## 1978	-1.365551e+00	-2.917561e+00	-5.636571e-01	8.605374e-01	8.317199e-01
## 1979	2.081757e-07	-7.594038e-08	-2.328838e-07	1.212407e-07	-1.015473e-08
## 1982	-4.466649e-05	5.850146e-06	-5.305377e-06	1.614492e-05	9.316620e-06
## 1984	4.073468e-05	-1.309940e-04	-1.177022e-05	-1.311068e-08	1.409765e-05
## 1986	4.390577e+00	-1.707478e+00	-4.853191e+00	2.503501e+00	-1.926777e-01
## 1987	-8.729052e+00	1.971098e-01	-1.153109e+00	3.260349e+00	1.989045e+00
## 1988	7.314616e-03	-4.426528e-03	-9.353256e-04	-3.921520e-03	1.600400e-03
## 1989	2.433966e-03	-7.827249e-03	-7.033561e-04	-8.274655e-07	8.424713e-04
## 1990	7.773968e-04	-2.499788e-03	-2.246170e-04	-2.802572e-07	2.690354e-04
## 1991	1.012830e+00	-6.206980e+00	-4.771074e-01	6.076033e-01	4.940377e-01
## 1994	-2.712865e+01	-4.028128e+01	-3.024120e-02	2.617985e+01	-3.169480e+00
## 1995	5.959329e-04	-1.915890e-03	-1.721821e-04	-3.193719e-07	2.062546e-04
## 1997	3.733772e-01	1.102141e-01	-2.699380e-02	-2.691593e-01	6.528633e-02
## 1998	-7.854308e+00	1.027351e+00	-9.238051e-01	2.833028e+00	1.636774e+00
## 2002	-7.077803e+00	-8.608986e+00	-2.074764e+00	3.684780e+00	3.161983e+00
## 2004	8.252907e-07	5.157731e-07	-4.556488e-08	-6.541878e-07	1.360655e-07
## 2005	-6.805363e+00	-1.656775e-01	-8.500552e-01	2.690953e+00	1.440658e+00
## 2006	3.767319e-01	-1.174299e+00	-1.163759e-01	3.648282e-03	1.260664e-01
## 2007	1.467834e-03	-4.720089e-03	-4.241145e-04	-4.975667e-07	5.079789e-04
## 2008	-1.901077e+00	-7.811986e-01	-3.593559e-01	8.060380e-01	5.812765e-01
## 2009	1.087588e+00	6.023416e-01	-6.127040e-02	-8.417504e-01	1.764499e-01
## 2010	-3.323524e+00	-2.328200e+00	-7.550728e-01	1.521481e+00	1.189272e+00
## 2011	2.394302e+00	-7.699415e+00	-6.918100e-01	-7.878295e-04	8.286038e-01
## 2013	3.906989e-01	2.161518e-01	-2.202462e-02	-3.023385e-01	6.339808e-02
## 2017	2.672579e-04	-8.558956e-04	-7.726978e-05	-1.148639e-06	9.281599e-05
## 2018	5.449193e+00	-2.623953e+00	-5.830223e+00	2.950150e+00	-1.573495e-01
## 2019	9.022942e-04	-2.901307e-03	-2.607067e-04	-3.567780e-07	3.122703e-04
## 2020	2.178736e+00	-1.182013e+00	-8.034172e+00	5.527110e+00	5.041464e-01

## 2021	-6.637072e+00	-2.011706e+00	-1.144922e+00	2.749618e+00	1.872228e+00
## 2022	2.266848e-01	-6.738279e-01	-8.148114e-02	1.112311e-02	7.082877e-02
## 2023	-3.505492e+01	-2.705206e+01	1.503563e+00	2.869858e+01	-5.314809e+00
## 2025	8.614815e-09	-1.326186e-08	-6.781257e-09	3.016575e-09	9.899757e-10
## 2026	-7.794525e+00	-5.267954e+00	-1.743689e+00	3.548092e+00	2.751206e+00
## 2027	1.786793e-01	-6.095132e-02	-2.010547e-01	1.048787e-01	-9.307498e-03
## 2028	-1.985655e-02	2.639280e-04	-2.653709e-03	7.421247e-03	4.577357e-03
## 2029	2.942815e-03	-7.373227e-03	-7.215413e-04	-4.301812e-04	9.168992e-04
## 2030	7.948540e-01	-1.041287e+00	-8.922140e-01	5.668609e-01	8.828155e-03
## 2031	4.622615e-01	-8.569630e-01	-3.165727e-01	1.283012e-01	7.281477e-02
## 2032	-8.714784e-03	1.140705e-03	-1.024906e-03	3.143306e-03	1.815945e-03
## 2033	1.310935e-05	-4.615549e-05	-4.314900e-06	4.628831e-07	5.255632e-06
## 2034	8.939891e-01	-2.918943e+00	-2.641228e-01	4.861473e-03	3.173134e-01
## 2035	8.739968e-04	-2.810753e-03	-2.528256e-04	-5.944960e-07	3.029994e-04
## 2036	-1.164635e+01	-7.889790e+00	-2.609138e+00	5.301958e+00	4.116577e+00
## 2037	7.436059e-06	8.014839e-09	-6.979329e-07	-4.943676e-06	1.454311e-06
## 2038	-1.432344e-05	1.913992e-06	-1.693286e-06	5.144127e-06	3.003646e-06
## 2039	4.914171e-04	2.814418e-04	-2.739692e-05	-3.826015e-04	7.980741e-05
## 2041	6.420455e-04	3.734127e-04	-3.516000e-05	-5.006900e-04	1.034635e-04
## 2042	-8.063591e+00	-4.007503e-01	-1.053954e+00	3.187391e+00	1.780747e+00
## 2043	3.648780e-04	-1.086862e-03	-1.305906e-04	1.755097e-05	1.142956e-04
## 2044	-3.672288e+00	-3.011121e+00	-8.920974e-01	1.732396e+00	1.392877e+00
## 2046	4.643579e-04	-1.754510e-03	-1.827766e-04	1.248606e-05	2.341460e-04
## 2047	4.601532e-01	-1.228111e-01	-5.277152e-01	2.770746e-01	-2.870124e-02
## 2048	-5.381749e-02	-3.446142e-02	2.744506e-03	4.260799e-02	-8.504135e-03
## 2049	-1.907061e+01	7.104484e-01	-2.466551e+00	7.101756e+00	4.273126e+00
## 2051	1.358455e-04	-3.540742e-04	-3.414397e-05	-1.703119e-05	4.297608e-05
## 2053	5.632190e-01	-1.810787e+00	-1.627138e-01	-2.612629e-04	1.948970e-01
## 2054	-3.426750e-02	-2.608895e-02	1.491448e-03	2.798064e-02	-5.212246e-03
## 2055	5.918084e-03	-1.903091e-02	-1.709971e-03	-1.949460e-06	2.048089e-03
## 2056	-2.453900e-01	-7.676669e-01	-2.516930e-02	3.195670e-01	-8.983343e-03
## 2058	2.304596e-03	-3.750980e-03	-1.723551e-03	7.387379e-04	2.924225e-04
## 2061	2.650041e-03	-8.521758e-03	-7.657370e-04	-9.264597e-07	9.171740e-04
## 2064	3.588980e-03	-9.549450e-04	-4.116782e-03	2.161649e-03	-2.242612e-04

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## 2065 5.792731e+00 -2.329627e+00 -6.413507e+00 3.325852e+00 -2.523224e-01
## 2066 -1.972244e-02 -2.938283e-02 -2.811780e-05 1.905280e-02 -2.299294e-03
## 2067 1.095685e-05 -2.216301e-05 -2.382229e-06 -2.715147e-06 3.197258e-06
## 2068 -3.569092e+00 -3.058253e+00 -8.844274e-01 1.699059e+00 1.377483e+00
## 2069 -2.665204e+00 -5.716125e+00 -1.115201e-01 2.932916e+00 -2.255657e-01
## 2070 8.656463e-04 -2.783351e-03 -2.501245e-04 -3.834617e-07 2.996073e-04
## 2071 2.122413e-03 -6.825103e-03 -6.132530e-04 -6.992672e-07 7.345146e-04
## 2072 -8.770932e+00 5.136559e-01 -1.123835e+00 3.244282e+00 1.942525e+00
## 2073 2.600019e-01 -4.081191e-02 -2.605132e-02 -1.633026e-01 5.119540e-02
## 2074 -4.940885e+00 6.451740e-01 -5.812800e-01 1.782293e+00 1.029837e+00
## 2076 5.704115e-01 -1.834084e+00 -1.648023e-01 -2.291274e-04 1.973943e-01
## 2077 -3.901115e+00 -3.635776e-01 -4.766611e-01 1.632007e+00 7.881141e-01
## 2078 -1.522341e+00 -1.102133e+00 -3.474672e-01 7.049949e-01 5.453717e-01
## 2081 2.076590e-05 -6.308299e-05 -5.786400e-06 -7.830384e-07 7.033009e-06
## 2082 2.081757e-07 -7.594038e-08 -2.328838e-07 1.212407e-07 -1.015473e-08
## 2083 1.812354e-06 -1.818293e-07 -1.765119e-07 -1.160957e-06 3.541975e-07
## 2084 4.649751e-05 2.038907e-05 -2.950400e-06 -3.488665e-05 7.805272e-06
## 2085 -3.594862e+00 -3.852913e+00 -9.863753e-01 1.809467e+00 1.514598e+00
## 2090 -2.750045e+01 -2.704277e+01 8.203609e-01 2.370846e+01 -3.885561e+00
## 2091 4.057132e-03 -9.254383e-03 -9.419431e-04 -7.842610e-04 1.225999e-03
## 2092 -1.640539e-02 2.131669e-03 -1.931431e-03 5.919037e-03 3.421296e-03
## 2093 -4.702823e-02 6.148903e-03 -5.532064e-03 1.696354e-02 9.800775e-03
## 2094 8.391354e+00 -3.300522e+00 -1.904511e+01 1.222784e+01 5.724537e-01
## 2095 -2.718791e+00 -4.937868e+00 -1.016580e+00 1.600059e+00 1.516462e+00
## 2096 9.672635e-02 -3.412734e-02 -1.085044e-01 5.653762e-02 -4.880398e-03
## 2097 4.202968e-01 -3.622948e-01 -4.277111e-01 2.233798e-01 3.768658e-03
## 2098 -2.971241e+01 -3.936888e+01 2.599472e-01 2.769869e+01 -3.703005e+00
## 2100 -6.434402e-03 8.367271e-04 -7.583530e-04 2.322134e-03 1.341846e-03
## 2101 6.096873e-05 -1.776471e-04 -1.696053e-05 -4.404648e-06 2.109934e-05
## 2104 -1.081599e-02 -2.013051e-02 -2.633153e-04 1.127305e-02 -1.064992e-03
## 2105 1.434349e-07 -5.794142e-08 -1.588533e-07 8.240993e-08 -6.215783e-09
## 2107 1.655510e-05 5.146323e-06 -1.180857e-06 -1.198747e-05 2.882060e-06
## 2110 5.512622e-01 -1.767826e+00 -1.589809e-01 -1.182666e-03 1.905389e-01
## 2112 -6.702834e+00 -6.061140e-01 -9.838039e-01 2.590903e+00 1.663352e+00

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## 2113	1.656748e-03	-5.327591e-03	-4.787000e-04	-5.590812e-07	5.733578e-04
## 2114	1.068332e+00	-2.934401e-01	-1.291819e+00	6.955339e-01	-6.006345e-02
## 2116	-3.818028e-01	-3.540473e-01	1.271024e-02	3.247646e-01	-5.498923e-02
## 2117	3.306922e-05	-1.063441e-04	-9.555375e-06	-1.057747e-08	1.144485e-05
## 2118	1.011802e-04	-2.883763e-04	-2.717147e-05	-7.901396e-06	3.362107e-05
## 2119	9.862467e-02	-3.119606e-01	-2.818642e-02	-1.085820e-03	3.387576e-02
## 2121	1.928908e-01	-5.173740e-02	-2.211374e-01	1.160940e-01	-1.199570e-02
## 2122	1.295598e-03	-4.166224e-03	-3.743484e-04	-4.415006e-07	4.483723e-04
## 2123	2.549640e+00	-8.394935e+00	-7.618713e-01	2.287946e-02	9.163705e-01
## 2124	3.138186e+00	-9.842316e-01	-3.556260e+00	1.859624e+00	-1.754173e-01
## 2127	5.526375e-01	-1.776915e+00	-1.596659e-01	-2.259445e-04	1.912425e-01
## 2128	7.822820e-01	-2.512709e+00	-2.258543e-01	-8.509715e-04	2.705856e-01
## 2129	1.889370e-03	-6.075633e-03	-5.459155e-04	-6.395392e-07	6.538656e-04
## 2130	-3.302639e+00	-3.479196e+00	8.423602e-02	2.894762e+00	-4.553452e-01
## 2132	-9.307847e+00	-6.222650e+00	-2.066852e+00	4.237087e+00	3.261152e+00
## 2137	1.008874e+00	-3.238426e+00	-2.917620e-01	-8.116560e-04	3.487024e-01
## 2139	7.337505e-03	1.693763e-03	-5.615562e-04	-5.190294e-03	1.305527e-03
## 2140	1.684709e-03	-5.417502e-03	-4.867790e-04	-5.687480e-07	5.830344e-04
## 2141	2.183292e-03	-7.020845e-03	-6.308465e-04	-7.310803e-07	7.555909e-04
## 2142	6.934110e-04	-3.149297e-05	-6.471859e-05	-4.514116e-04	1.327895e-04
## 2145	-1.318900e+01	-2.191942e+01	-1.588750e-01	1.320713e+01	-1.426921e+00
## 2146	1.684709e-03	-5.417502e-03	-4.867790e-04	-5.687480e-07	5.830344e-04
## 2147	-3.333053e+00	-1.175864e+00	-5.859494e-01	1.413847e+00	9.497149e-01
## 2149	5.303584e-04	3.221339e-04	-2.824246e-05	-4.164535e-04	8.487837e-05
## 2151	4.220009e-04	-9.748506e-04	-1.139306e-04	-9.823245e-05	1.565212e-04
## 2154	-6.067355e+00	-2.265286e-01	-7.853724e-01	2.386748e+00	1.330574e+00
## 2155	7.316929e-03	-2.352921e-02	-2.114153e-03	-2.410172e-06	2.532191e-03
## 2156	-5.922029e-03	-4.014479e-03	2.881862e-04	4.734064e-03	-9.247653e-04
## 2157	1.395515e+00	-5.580788e+00	-5.472866e-01	1.272498e-01	6.794261e-01
## 2158	1.742747e+00	-6.589890e-01	-1.941665e+00	1.009110e+00	-8.170541e-02
## 2159	-2.511102e-01	-4.403036e+00	-6.141363e-01	6.087535e-01	8.496120e-01
## 2161	2.909791e-03	-9.356665e-03	-8.407294e-04	-1.043348e-06	1.006980e-03
## 2163	-1.329505e-02	-7.795156e-02	-3.608763e-03	2.477424e-02	1.289261e-03
## 2164	1.193667e+00	-1.905030e+00	-9.073103e-01	3.945303e-01	1.453116e-01

## 2166	1.512346e-01	-4.827355e-01	-4.452606e-02	4.319955e-04	5.189603e-02
## 2167	2.912371e-02	-9.365374e-02	-8.415003e-03	-9.593692e-06	1.007893e-02
## 2168	-5.721966e+00	-5.731690e-03	-7.369112e-01	2.196763e+00	1.261651e+00
## 2169	2.932965e-03	-9.431489e-03	-8.474439e-04	-9.885806e-07	1.015014e-03
## 2170	9.425701e-07	5.929674e-07	-5.293161e-08	-7.493811e-07	1.573271e-07
## 2171	5.221132e-05	-1.674078e-04	-1.505761e-05	-1.199656e-07	1.804855e-05
## 2172	3.636760e-01	2.227756e-01	-1.917002e-02	-2.858547e-01	5.796099e-02
## 2173	1.892707e-01	-5.958272e-01	-5.818735e-02	2.290028e-03	6.378489e-02
## 2174	-1.683713e+00	-2.664192e+01	-1.516673e+00	6.608243e+00	9.746129e-01
## 2176	8.175332e-04	-2.628644e-03	-2.362181e-04	-3.586926e-07	2.829473e-04
## 2177	-8.987326e+00	-9.492948e+00	-2.413429e+00	4.550563e+00	3.697639e+00
## 2179	9.388640e-01	-3.927746e+00	-3.910224e-01	1.058306e-01	4.882277e-01
## 2180	4.053242e-03	-1.303410e-02	-1.171144e-03	-1.335016e-06	1.402718e-03
## 2182	8.613892e-04	-1.918904e-03	-2.039754e-04	-1.845443e-04	2.708052e-04
## 2183	1.177799e-03	-3.790896e-03	-3.411533e-04	-4.789433e-07	4.089467e-04
## 2184	-8.408427e-02	-3.203522e-01	-1.218838e-02	1.212275e-01	-2.315069e-04
## 2185	-1.067068e+00	-9.049254e-01	4.061601e-02	8.901422e-01	-1.575749e-01
## 2186	1.809048e-04	9.603678e-05	-1.103450e-05	-1.399008e-04	3.064891e-05
## 2189	5.654818e+00	-1.823048e+01	-1.638084e+00	5.927468e-03	1.961722e+00
## 2190	5.190446e+00	-2.651853e+01	-1.085767e+01	1.217884e+01	4.849956e-02
## 2191	-1.450131e+01	-1.028711e+01	6.777443e-01	1.168640e+01	-2.242667e+00
## 2192	6.131371e+00	-2.122508e+01	-1.904968e+00	2.566904e-01	2.270765e+00
## 2194	1.487730e-09	-3.772061e-09	-7.899641e-10	2.561655e-10	3.810844e-10
## 2195	5.009525e-05	-1.604176e-04	-1.443288e-05	-1.549790e-07	1.730371e-05
## 2196	1.658502e-03	-2.234720e-03	-2.898919e-04	-6.388456e-04	4.263731e-04
## 2197	5.877449e-01	-1.885791e+00	-1.695621e-01	-1.061976e-03	2.031961e-01
## 2198	2.964327e-01	-9.489177e-01	-8.538424e-02	-9.857461e-04	1.023763e-01
## 2199	8.192041e-04	-1.373810e-03	-2.276244e-04	-1.799107e-04	2.051901e-04
## 2200	1.601809e-03	-5.150922e-03	-4.628255e-04	-5.400969e-07	5.543440e-04
## 2201	1.685882e-03	1.034658e-03	-8.874611e-05	-1.325527e-03	2.685935e-04
## 2203	4.240233e-04	-1.363170e-03	-1.225032e-04	-2.270562e-07	1.467415e-04
## 2207	-3.825172e+00	-2.377246e+00	-8.291595e-01	1.715853e+00	1.314369e+00
## 2209	-1.862646e+00	-1.408916e+01	-7.015647e-01	4.120468e+00	3.360331e-01
## 2210	4.559114e-01	-1.466084e+00	-1.317310e-01	-1.501847e-04	1.577786e-01

## 2213	1.643135e-01	-5.241297e-01	-4.869692e-02	7.929140e-04	5.628080e-02
## 2214	1.158250e+00	-2.117530e+00	-2.606815e-01	-3.012238e-01	3.162892e-01
## 2215	1.090927e-03	-3.339261e-03	-3.598278e-04	2.890156e-05	3.553000e-04
## 2216	5.119797e-05	-1.633665e-04	-1.471638e-05	-2.800831e-07	1.765943e-05
## 2218	-3.768678e+00	2.561963e-01	-1.039595e+00	1.816321e+00	8.830258e-01
## 2219	-1.255465e-01	-1.420057e-01	2.600527e-03	1.120418e-01	-1.683386e-02
## 2220	1.445355e+00	-1.164403e+00	-1.430773e+00	7.109031e-01	1.776999e-02
## 2221	2.866957e-03	-9.219524e-03	-8.284324e-04	-9.592246e-07	9.922647e-04
## 2222	2.169288e-01	-2.457926e-01	-3.480126e-02	-9.279302e-02	5.304033e-02
## 2223	6.658644e-01	-2.138974e+00	-1.922557e-01	-6.837536e-04	2.303282e-01
## 2224	-6.634077e-02	-7.555230e-02	1.342242e-03	5.930996e-02	-8.869854e-03
## 2225	2.387176e-01	-7.852805e-01	-7.129657e-02	1.983571e-03	8.577876e-02
## 2226	7.704216e-04	-2.477088e-03	-2.226070e-04	-3.613565e-07	2.666497e-04
## 2227	-2.570243e-05	-8.024730e-05	-5.021542e-05	-2.372714e-05	8.546625e-05
## 2229	-3.046245e+00	-1.369460e+00	-5.813898e-01	1.317774e+00	9.340786e-01
## 2230	3.034033e-03	-9.758824e-03	-8.770434e-04	-8.635105e-07	1.050578e-03
## 2231	-2.847118e-01	-3.154765e-01	6.302435e-03	2.527397e-01	-3.849575e-02
## 2234	-3.355872e+00	-3.052219e+00	-8.548391e-01	1.618238e+00	1.326879e+00
## 2235	7.267283e-03	-5.394752e-03	-9.911363e-04	-3.691998e-03	1.639314e-03
## 2236	6.928846e-03	-1.556565e-03	-7.233576e-04	-4.255858e-03	1.387510e-03
## 2237	-6.351189e+00	-9.181241e-01	-4.535999e-01	3.156090e+00	6.588503e-01
## 2238	-5.927378e+00	-4.376258e+00	2.664477e-01	4.811972e+00	-9.083236e-01
## 2241	4.649327e-01	-2.185465e+00	-1.778304e-01	1.404064e-01	1.962370e-01
## 2242	7.756069e-04	3.096360e-04	-5.265762e-05	-5.776218e-04	1.345789e-04
## 2245	1.525804e-05	9.780915e-06	-9.151546e-07	-1.225588e-05	2.667856e-06
## 2246	2.692867e-03	-8.659615e-03	-7.781044e-04	-8.920565e-07	9.319729e-04
## 2248	-2.911171e+00	-6.968898e-01	-4.691573e-01	1.195209e+00	7.718176e-01
## 2249	1.138249e+00	-4.661199e+00	-4.606088e-01	1.167803e-01	5.734684e-01
## 2250	-7.184884e-01	-5.077291e+01	-3.070111e+00	1.089476e+01	2.341633e+00
## 2251	1.555848e-01	-4.930250e-01	-4.578987e-02	-5.533011e-05	5.316105e-02
## 2252	9.770416e+00	-3.146619e+01	-2.829224e+00	2.385386e-03	3.389645e+00
## 2253	-1.332504e-01	-1.422215e-01	3.283680e-03	1.171719e-01	-1.827976e-02
## 2254	-4.591521e-03	-2.232967e-02	-9.626804e-04	7.614028e-03	2.207585e-04
## 2258	4.463855e+00	-1.446200e+00	-5.045089e+00	2.635740e+00	-2.431186e-01

## 2259	-8.448445e-01	-4.511662e-01	-1.626814e-01	3.838563e-01	2.569974e-01
## 2260	1.980445e-06	-3.729564e-06	-4.109344e-07	-5.442087e-07	5.595701e-07
## 2263	1.855249e-01	-4.978583e-02	-2.126859e-01	1.116558e-01	-1.153428e-02
## 2266	-2.021416e+00	-1.726832e+00	-4.615151e-01	1.010502e+00	7.068913e-01
## 2269	3.058638e+00	-9.920881e+00	-8.890175e-01	1.646815e-02	1.062665e+00
## 2270	5.381161e-05	-1.239955e-04	-1.252179e-05	-1.008385e-05	1.623079e-05
## 2271	-1.390727e-06	2.465900e-07	-1.782980e-07	4.647459e-07	3.216356e-07
## 2272	-1.897095e+01	6.918241e-01	-2.455694e+00	7.066299e+00	4.253603e+00
## 2273	6.095899e-02	-2.686516e-01	-2.227369e-02	1.465914e-02	2.497220e-02
## 2275	1.940534e-03	-6.240217e-03	-5.607000e-04	-6.419183e-07	6.715705e-04
## 2276	-3.143622e-04	-1.440937e-04	-6.138345e-05	1.350254e-04	9.879949e-05
## 2277	-3.643290e+01	-3.976307e+01	8.439344e-01	3.221715e+01	-4.955691e+00
## 2278	6.354014e-06	6.459525e-06	-9.490515e-07	-6.495857e-06	2.331137e-06
## 2280	-6.575204e+00	-1.117199e+00	-8.825911e-01	2.793570e+00	1.442769e+00
## 2281	1.712993e-03	-5.508457e-03	-4.949517e-04	-5.785296e-07	5.928232e-04
## 2284	-9.502657e+00	-7.143749e+00	4.192767e-01	7.740692e+00	-1.449973e+00
## 2285	4.683524e-06	-1.274789e-06	-5.363990e-06	2.815066e-06	-2.886900e-07
## 2286	-5.364643e-04	6.364521e-05	-6.395755e-05	1.942634e-04	1.129675e-04
## 2287	3.971254e-03	-1.286265e-02	-1.159652e-03	9.402967e-06	1.391003e-03
## 2288	-3.316523e-01	-1.220813e+00	-4.534839e-02	4.694941e-01	-3.162778e-03
## 2289	6.704297e-05	-2.870892e-04	-2.915340e-05	7.876530e-06	3.672398e-05
## 2290	-2.514928e-01	-1.089717e+00	-4.449729e-02	3.896814e-01	5.582279e-03
## 2293	6.768415e+00	-2.565275e+00	-7.476616e+00	3.845188e+00	-3.005552e-01
## 2294	6.475444e-01	-2.081082e+00	-1.877180e-01	-1.342326e-03	2.253323e-01
## 2295	-1.972244e-02	-2.938283e-02	-2.811780e-05	1.905280e-02	-2.299294e-03
## 2298	-1.402305e+01	-9.594560e+00	6.771966e-01	1.122849e+01	-2.185942e+00
## 2301	4.208136e-03	-1.357035e-02	-1.221206e-03	2.719440e-06	1.463701e-03
## 2303	1.794580e-02	-5.875572e-01	-3.792145e-02	1.086835e-01	3.212750e-02
## 2304	1.233055e-03	7.567899e-04	-6.491830e-05	-9.695145e-04	1.964696e-04
## 2306	5.382407e-07	-1.658706e-07	-6.108600e-07	3.195969e-07	-3.048882e-08
## 2307	-2.574904e+01	-3.182360e+01	3.668108e-01	2.353316e+01	-3.320914e+00
## 2308	6.544894e-01	-1.924374e+00	-1.779838e-01	-3.721521e-02	2.177093e-01
## 2310	-5.611801e+00	-7.278570e+00	5.878032e-02	5.199225e+00	-7.070345e-01
## 2312	4.228227e-01	-1.357406e+00	-1.220300e-01	-6.060485e-04	1.462166e-01

## 2313	3.044683e-03	-9.791227e-03	-8.798158e-04	-1.004645e-06	1.053817e-03
## 2314	9.902720e-01	6.076489e-01	-5.213477e-02	-7.785824e-01	1.577742e-01
## 2315	4.543923e-04	-1.459694e-03	-1.314025e-04	-7.150106e-07	1.575594e-04
## 2316	3.612237e-02	-1.074365e-01	-9.899287e-03	-1.802570e-03	1.207623e-02
## 2318	2.938184e-03	-9.448633e-03	-8.490236e-04	-9.784407e-07	1.016931e-03
## 2320	1.602834e-03	-5.155366e-03	-4.634247e-04	-5.982081e-07	5.551887e-04
## 2321	-1.701663e+01	-2.197907e+01	1.839089e-01	1.574678e+01	-2.148430e+00
## 2322	7.885057e-02	-2.146327e-02	-9.030601e-02	4.739318e-02	-4.860170e-03
## 2323	5.245957e-02	-1.514106e-01	-1.409110e-02	-3.564658e-03	1.731189e-02
## 2324	1.660164e-06	-5.849268e-07	-1.863563e-07	-9.761559e-07	3.427100e-07
## 2325	-2.244950e+00	-2.722591e+00	-6.615721e-01	1.162065e+00	1.009988e+00
## 2329	2.636732e-01	-8.676367e-02	-2.921911e-02	-1.562960e-01	5.413116e-02
## 2330	2.724606e-03	-8.761667e-03	-7.872844e-04	-9.177923e-07	9.429752e-04
## 2331	5.981146e-04	-1.923093e-03	-1.728107e-04	-2.647319e-07	2.069939e-04
## 2332	-2.832068e+01	-2.664055e+01	9.194270e-01	2.416751e+01	-4.060417e+00
## 2334	-1.992442e+00	-3.679360e+00	-7.536422e-01	1.178854e+00	1.123453e+00
## 2335	-4.191593e-02	1.230558e-03	-4.476683e-02	4.545281e-02	1.332939e-02
## 2336	2.634736e-04	1.434079e-04	-1.537616e-05	-2.038796e-04	4.357491e-05
## 2337	-3.278920e+00	1.053771e+01	9.490782e-01	-3.624371e-06	-1.133910e+00
## 2338	-1.972244e-02	-2.938283e-02	-2.811780e-05	1.905280e-02	-2.299294e-03
## 2340	6.535247e+00	-2.416213e+00	-7.298780e+00	3.797225e+00	-3.144154e-01
## 2341	1.481284e-03	-4.763279e-03	-4.279972e-04	-5.151003e-07	5.126310e-04
## 2343	-3.419366e-01	-3.993201e-01	-9.879089e-02	1.752468e-01	1.510727e-01
## 2344	-1.190862e+00	-4.315224e+00	-1.586559e-01	1.672058e+00	-1.489880e-02
## 2345	5.695691e+00	-1.833672e+01	-1.647010e+00	2.421062e-03	1.972155e+00
## 2346	3.728578e+00	-1.477999e+00	-8.337627e+00	5.338651e+00	2.441039e-01
## 2348	1.077907e+00	-1.887406e+01	-2.318181e+00	1.829607e+00	3.097781e+00
## 2352	3.703666e-03	-1.191577e-02	-1.070945e-03	-5.960326e-07	1.282863e-03
## 2353	-4.376984e+00	-2.666969e+00	-9.417910e-01	1.957123e+00	1.494472e+00
## 2354	1.141074e+01	-3.989206e+01	-3.514583e+00	6.271813e-01	4.142649e+00
## 2355	6.023877e+00	-2.002337e+01	-1.780788e+00	1.318776e-01	2.116512e+00
## 2356	2.653748e-03	-8.533771e-03	-7.668039e-04	-8.960104e-07	9.184429e-04
## 2357	-8.556982e+00	-5.705698e-01	-1.170159e+00	3.358306e+00	1.976681e+00
## 2359	1.433741e-01	-4.597318e-01	-4.158179e-02	-4.319937e-05	4.949341e-02

## 2360	3.748719e-05	-1.000855e-05	-4.299024e-05	2.257166e-05	-2.337706e-06
## 2361	-3.985604e+00	2.466095e-01	-9.663441e-01	1.820171e+00	9.249346e-01
## 2362	-1.359386e+00	-8.256073e+00	-1.270902e+00	1.476139e+00	1.798251e+00
## 2363	-8.149478e+00	-1.061193e+00	-1.229739e+00	3.199484e+00	2.063567e+00
## 2364	1.746498e-04	-5.613910e-04	-5.045063e-05	-1.078516e-07	6.043348e-05
## 2365	2.468760e+00	-7.947279e+00	-7.138444e-01	9.168234e-04	8.547835e-01
## 2366	1.289081e-03	-4.145201e-03	-3.724673e-04	-4.601075e-07	4.461249e-04
## 2367	2.402994e-01	-6.992266e-01	-8.949680e-02	1.340508e-02	7.331551e-02
## 2368	1.323824e-04	-4.252238e-04	-3.822490e-05	-1.474151e-07	4.579802e-05
## 2370	1.249744e-01	-7.184585e-02	-1.574485e-02	-6.777516e-02	2.715504e-02
## 2371	1.126139e-03	-3.621113e-03	-3.254197e-04	-4.799336e-07	3.898040e-04
## 2372	-2.238133e+00	-1.629314e+00	-5.083702e-01	1.042136e+00	7.965825e-01
## 2374	1.658654e+00	-5.354745e+00	-4.805459e-01	3.758405e-03	5.750386e-01
## 2376	1.337743e-03	8.209979e-04	-7.041974e-05	-1.051802e-03	2.131281e-04
## 2377	8.716919e-01	-1.041948e+00	-7.642032e-01	3.594929e-01	5.773782e-02
## 2379	1.301845e+00	-1.234837e-01	-1.254507e-01	-8.342617e-01	2.523949e-01
## 2380	-3.777647e+00	-4.760364e-01	-5.722646e-01	1.475978e+00	9.616164e-01
## 2381	7.659347e-01	4.700652e-01	-4.031956e-02	-6.022166e-01	1.220282e-01
## 2382	8.993169e-07	1.182975e-06	-1.917743e-07	-1.067941e-06	4.551790e-07
## 2383	-2.476230e+00	-3.184776e+00	-7.536770e-01	1.303006e+00	1.146701e+00
## 2384	1.888120e-01	-5.941618e-01	-5.741149e-02	1.517803e-03	6.377745e-02
## 2385	-5.092474e+00	-2.028535e+00	-9.422310e-01	2.166576e+00	1.523391e+00
## 2387	-4.121874e+00	-2.941336e+00	-9.436541e-01	1.893122e+00	1.484826e+00
## 2388	1.096905e-03	-3.527262e-03	-3.169372e-04	-3.806316e-07	3.796099e-04
## 2389	-6.818280e+00	-4.247372e-01	-9.174822e-01	2.686276e+00	1.549163e+00
## 2390	3.399173e-04	1.506794e-04	-2.208653e-05	-2.561504e-04	5.813584e-05
## 2392	1.158927e-02	-6.912000e-03	-1.217912e-02	6.197227e-03	-1.937048e-04
## 2394	3.665775e-03	-1.179113e-02	-1.059707e-03	-1.005759e-06	1.269393e-03
## 2396	7.078468e-04	-2.343060e-03	-2.415402e-04	-2.801492e-05	3.096912e-04
## 2397	3.088887e-04	1.895711e-04	-1.626018e-05	-2.428643e-04	4.921201e-05
## 2400	1.424340e+00	-9.179747e+00	-1.009236e+00	5.475076e-01	1.303777e+00
## 2402	-6.995816e+00	-7.141864e-01	-1.037577e+00	2.713671e+00	1.750744e+00
## 2404	3.293645e-03	-1.059187e-02	-9.517303e-04	-1.045454e-06	1.139934e-03
## 2405	1.003568e-05	-3.227349e-05	-2.899912e-06	-3.125764e-09	3.473354e-06

## 2406	-4.006043e+00	5.435441e-01	-4.756455e-01	1.433863e+00	8.444173e-01
## 2407	1.093233e+00	-3.510913e+00	-3.156006e-01	-1.300046e-03	3.781113e-01
## 2408	-5.274033e-01	-1.873837e+00	-3.155300e-01	4.203948e-01	4.543437e-01
## 2410	7.032391e-04	-2.261266e-03	-2.031884e-04	-2.685005e-07	2.433720e-04
## 2411	-4.259601e+00	-4.615608e+00	1.007265e-01	3.759866e+00	-5.810259e-01
## 2413	1.435644e-01	-4.731857e-01	-4.285006e-02	1.487929e-03	5.147449e-02
## 2414	1.783665e-02	-5.467039e-02	-4.988998e-03	-5.587864e-04	6.043784e-03
## 2415	-4.071273e-04	-2.433142e-03	-1.142012e-04	7.670327e-04	4.331381e-05
## 2416	4.433272e-04	2.688684e-04	-2.357993e-05	-3.479644e-04	7.087078e-05
## 2417	6.077721e-04	-1.953951e-03	-1.756041e-04	-3.276662e-07	2.103548e-04
## 2418	-1.840297e-03	-1.584139e-03	6.863016e-05	1.540024e-03	-2.706719e-04
## 2419	6.402838e-02	-1.953108e-01	-1.784710e-02	-2.193809e-03	2.164220e-02
## 2420	4.710344e-04	-6.787250e-04	-8.742872e-05	-1.754026e-04	1.276876e-04
## 2422	-1.546429e-01	-9.188953e-02	8.327505e-03	1.209699e-01	-2.478621e-02
## 2423	1.497208e+00	3.409216e-01	-1.266327e-01	-1.073906e+00	2.894354e-01
## 2424	2.153946e-03	-6.926494e-03	-6.223660e-04	-7.147055e-07	7.454316e-04
## 2426	-1.140723e+00	-3.791023e+01	-2.242315e+00	8.525674e+00	1.644650e+00
## 2427	-6.262811e-01	-2.564214e+00	-4.224266e-01	5.349648e-01	6.061763e-01
## 2428	5.744749e-01	-9.824267e-01	-4.170975e-01	1.759180e-01	7.914057e-02
## 2430	5.965425e-01	-1.918267e+00	-1.723620e-01	-2.063339e-04	2.064449e-01
## 2433	5.686674e-05	-1.824454e-04	-1.640664e-05	-1.074220e-07	1.966247e-05
## 2434	-6.036543e+00	-2.938567e-01	-8.197371e-01	2.345627e+00	1.390932e+00
## 2436	-3.021025e+00	-6.634661e-01	-4.812355e-01	1.230502e+00	7.944038e-01
## 2437	3.791072e-04	-1.315325e-03	-1.256616e-04	6.773564e-06	1.549242e-04
## 2438	1.537610e+00	-4.093999e-01	-1.763654e+00	9.260490e-01	-9.604084e-02
## 2439	-3.785052e-01	-1.143112e-01	-6.610827e-02	1.556629e-01	1.083209e-01
## 2441	-1.886334e-01	1.741003e-02	-2.314482e-02	6.888682e-02	4.061696e-02
## 2443	4.365804e-01	-2.549213e+00	-2.762680e-01	1.346714e-01	3.554153e-01
## 2444	-1.143536e+00	1.486246e-01	-1.346256e-01	4.125828e-01	2.384735e-01
## 2445	1.704510e-04	-5.477004e-04	-4.922821e-05	-1.481566e-07	5.897569e-05
## 2448	2.513267e-03	-8.081972e-03	-7.262030e-04	-8.511889e-07	8.698104e-04
## 2449	5.576542e-01	-1.793226e+00	-1.611265e-01	-1.909234e-04	1.929876e-01
## 2450	1.591059e-03	-5.116093e-03	-4.597109e-04	-5.994655e-07	5.506252e-04
## 2451	8.909890e-02	-2.874081e-01	-2.584374e-02	9.727615e-05	3.096141e-02

## 2452	5.897044e+00	-2.283685e+00	-6.556234e+00	3.405632e+00	-2.694623e-01
## 2453	-2.765045e+00	-6.731350e-01	-4.031777e-01	1.191923e+00	6.530385e-01
## 2454	-2.471140e+00	-5.392168e-01	-3.783760e-01	1.024799e+00	6.215120e-01
## 2456	-1.896578e-01	-1.984768e-01	4.918683e-03	1.659639e-01	-2.621287e-02
## 2458	3.666194e+00	-1.393933e+00	-4.069191e+00	2.105566e+00	-1.671534e-01
## 2460	9.041260e-04	-2.905136e-03	-2.617633e-04	-3.505951e-09	3.126224e-04
## 2461	-1.067529e+01	-3.067897e+00	-1.823325e+00	4.398050e+00	2.988498e+00
## 2462	1.489309e-02	-2.885577e-02	-3.128563e-03	-3.911741e-03	4.225738e-03
## 2463	1.402619e-01	-4.863605e-02	-1.575959e-01	8.216672e-02	-7.196745e-03
## 2469	6.119290e-02	-9.448223e-02	-3.509530e-03	-1.109967e-02	1.501635e-03
## 2470	3.436322e-06	-7.790141e-06	-7.917222e-07	-6.702100e-07	1.030229e-06
## 2471	-3.053996e-01	3.996797e-02	-3.591777e-02	1.101545e-01	6.363894e-02
## 2473	-1.832219e+00	-2.629370e+00	-5.936177e-01	9.960101e-01	8.975017e-01
## 2474	3.009394e-07	-1.013456e-07	-3.390789e-07	1.769645e-07	-1.585107e-08
## 2477	-2.963119e+00	-2.438103e+00	1.177480e-01	2.456913e+00	-4.418643e-01
## 2479	1.416829e-03	-4.556203e-03	-4.093906e-04	-4.606055e-07	4.903438e-04
## 2481	5.238930e-05	-1.680804e-04	-1.513790e-05	-1.278801e-07	1.815726e-05
## 2482	2.358317e-03	-4.188349e-03	-4.722419e-04	-6.980405e-04	6.512065e-04
## 2483	5.047401e-01	-2.721132e+00	-2.169412e-01	2.289483e-01	2.274810e-01
## 2485	1.951698e-04	-5.643066e-04	-6.014064e-05	-2.271347e-05	7.876013e-05
## 2488	-1.904482e+01	8.404766e-01	-2.411483e+00	7.120335e+00	4.179391e+00
## 2490	-2.939510e+00	-3.732198e+00	-8.883514e-01	1.541067e+00	1.352628e+00
## 2491	1.928252e-03	-6.200691e-03	-5.571576e-04	-6.543972e-07	6.673339e-04
## 2492	3.937620e-04	1.671264e-04	-2.592308e-05	-2.950514e-04	6.748250e-05
## 2495	-2.166485e+00	-2.156964e+00	-5.764358e-01	1.066505e+00	8.901073e-01
## 2496	6.303223e+00	-2.035984e+00	-7.125730e+00	3.723056e+00	-3.441432e-01
## 2497	-6.404337e+00	-5.651331e-01	-9.381504e-01	2.473886e+00	1.586767e+00
## 2498	-2.502977e-05	-1.777127e-05	-1.472439e-05	1.235367e-07	2.583010e-05
## 2499	-8.270920e+00	7.272052e-01	-1.161827e+00	3.132811e+00	1.801211e+00
## 2500	1.154067e+01	-3.081284e+00	-1.333904e+01	7.028002e+00	-7.095000e-01
## 2501	-4.238559e-01	-4.693156e-01	9.403601e-03	3.761887e-01	-5.732604e-02
## 2503	1.699590e-03	-5.465331e-03	-4.911032e-04	-6.117101e-07	5.882318e-04
## 2506	-4.123112e+00	-1.762248e+00	-7.751891e-01	1.772556e+00	1.248446e+00
## 2508	2.527050e-03	-8.126408e-03	-7.301737e-04	-8.089336e-07	8.745507e-04

## 2509	-5.668324e+00	-7.205301e-01	-8.501736e-01	2.226923e+00	1.426821e+00
## 2510	2.211365e-01	-6.423147e-01	-7.980207e-02	9.211862e-03	6.804556e-02
## 2511	-1.051101e+01	9.971726e-01	-2.099110e+00	4.453064e+00	2.337582e+00
## 2513	1.185525e-03	-3.811885e-03	-3.425187e-04	-4.792599e-07	4.102569e-04
## 2514	-7.772744e-02	1.017685e-02	-9.140796e-03	2.803491e-02	1.619596e-02
## 2515	3.339398e-02	-4.079510e-01	-4.594433e-02	3.928277e-02	5.938250e-02
## 2516	5.908947e-01	-2.445190e+00	-2.425354e-01	6.350887e-02	3.024031e-01
## 2517	-2.851027e-08	3.732691e-09	-3.352847e-09	1.028317e-08	5.940675e-09
## 2518	-5.007902e+00	-5.018290e+00	-2.997786e+00	3.733055e+00	2.223440e+00
## 2520	5.692288e-01	-1.830413e+00	-1.644688e-01	-2.015542e-04	1.969914e-01
## 2521	6.774252e-01	-2.106274e+00	-1.912852e-01	-1.502952e-02	2.309230e-01
## 2522	6.968834e-04	-2.240459e-03	-2.013669e-04	-3.898931e-07	2.412250e-04
## 2523	9.100116e-01	5.584856e-01	-4.790400e-02	-7.154968e-01	1.449826e-01
## 2524	-5.339262e+00	-8.307415e-01	-8.229010e-01	2.112824e+00	1.375139e+00
## 2525	2.524978e+00	-1.541091e+00	-2.642795e+00	1.342478e+00	-3.721513e-02
## 2526	-7.721306e+00	1.010950e+00	-9.080305e-01	2.784939e+00	1.608878e+00
## 2528	1.323424e-01	-4.619358e-02	-1.486099e-01	7.746594e-02	-6.748461e-03
## 2529	1.554162e-04	-4.991443e-04	-4.487004e-05	-1.845067e-07	5.376022e-05
## 2531	-5.602512e+00	-4.242959e+00	-1.307642e+00	2.610971e+00	2.048635e+00
## 2532	2.134506e-04	8.793730e-05	-1.490923e-05	-1.602700e-04	3.800523e-05
## 2533	-3.687815e+01	-3.186906e+01	1.371338e+00	3.089104e+01	-5.424921e+00
## 2535	5.648606e-01	-1.816004e+00	-1.631842e-01	-2.745362e-04	1.954620e-01
## 2537	-3.723368e-10	-4.064543e-10	-1.037824e-10	1.874739e-10	1.593994e-10
## 2538	9.992407e-01	-3.181306e-01	-1.130984e+00	5.911632e-01	-5.519942e-02
## 2539	-1.637204e+01	1.967567e+00	-1.948560e+00	5.925666e+00	3.443056e+00
## 2540	1.604645e-01	-5.176244e-01	-4.656179e-02	1.556333e-04	5.579343e-02
## 2542	2.724606e-03	-8.761667e-03	-7.872844e-04	-9.177923e-07	9.429752e-04
## 2545	-1.840315e+01	-2.519123e+01	1.111884e-01	1.732152e+01	-2.254165e+00
## 2546	1.606673e-03	-5.166556e-03	-4.642306e-04	-5.433994e-07	5.560273e-04
## 2547	-8.379066e+00	6.435539e-01	-3.427255e+00	4.884770e+00	2.059750e+00
## 2549	9.180930e-03	-2.952331e-02	-2.652737e-03	-3.024254e-06	3.177272e-03
## 2552	-2.796917e+00	-3.214480e+00	5.479641e-02	2.506505e+00	-3.725458e-01
## 2553	-6.424641e+00	-8.010937e+00	-1.920360e+00	3.353581e+00	2.926373e+00
## 2554	2.915647e-03	-9.376356e-03	-8.425369e-04	-9.475413e-07	1.009165e-03

## 2555	-6.851923e+00	2.910187e-02	-7.882934e-01	2.739160e+00	1.337267e+00
## 2556	1.713876e-05	-5.346205e-05	-4.854480e-06	-3.500082e-07	5.858780e-06
## 2558	2.600659e-03	-8.363067e-03	-7.514483e-04	-8.539514e-07	9.000393e-04
## 2559	9.587016e-02	-2.682644e-02	-1.095857e-01	5.747359e-02	-5.808049e-03
## 2560	-5.696163e+00	-1.538043e+00	-9.708777e-01	2.321270e+00	1.597422e+00
## 2562	-6.367557e+00	-1.172688e+00	-9.645799e-01	2.592443e+00	1.596467e+00
## 2564	-1.371250e-01	1.789020e-02	-1.615181e-02	4.947924e-02	2.858568e-02
## 2567	-2.726987e-01	-1.876247e-01	1.310434e-02	2.185683e-01	-4.245735e-02
## 2569	-1.087542e-02	-1.519506e-03	-2.881146e-02	2.488736e-02	5.442249e-03
## 2570	-1.081599e-02	-2.013051e-02	-2.633153e-04	1.127305e-02	-1.064992e-03
## 2571	-4.480654e+00	-2.832253e+00	2.307808e-01	3.539830e+00	-7.098361e-01
## 2572	1.720285e-07	-6.589458e-08	-1.915513e-07	9.956120e-08	-7.954699e-09
## 2573	-1.559979e+00	-6.018964e+00	-1.003510e+00	1.289745e+00	1.443398e+00
## 2574	8.392675e-05	-2.593979e-04	-2.389698e-05	-2.551241e-06	2.908333e-05
## 2576	1.264375e-03	-4.065800e-03	-3.653529e-04	-3.993386e-07	4.375553e-04
## 2577	2.298057e-01	-9.065737e-01	-7.678536e-02	3.426143e-02	8.778530e-02
## 2578	-1.452795e-04	-2.216443e-04	-4.880198e-05	8.051335e-05	7.352748e-05
## 2579	3.581566e-04	-1.150859e-03	-1.034621e-04	-3.353469e-07	1.239623e-04
## 2580	1.830772e-01	-6.074795e-01	-5.537002e-02	2.130552e-03	6.672886e-02
## 2581	1.370839e+00	7.449342e-01	-7.810887e-02	-1.058045e+00	2.231009e-01
## 2582	-6.536756e+00	-6.346536e-01	-9.652408e-01	2.531856e+00	1.629970e+00
## 2584	8.303700e-05	-2.255138e-04	-2.859350e-05	-1.758230e-05	4.009677e-05
## 2585	4.227586e+00	-1.368307e+01	-1.226970e+00	1.673532e-02	1.467362e+00
## 2588	1.032948e+00	4.916939e-01	-6.315253e-02	-7.829636e-01	1.715054e-01
## 2589	1.649994e-01	9.997686e-02	-8.765061e-03	-1.294670e-01	2.635030e-02
## 2591	2.987498e-04	1.507059e-04	-1.822410e-05	-2.288031e-04	5.009193e-05
## 2592	-3.609686e-02	-1.325259e-01	-4.914864e-03	5.102761e-02	-3.600871e-04
## 2593	6.164496e-02	3.783266e-02	-3.245035e-03	-4.846844e-02	9.821225e-03
## 2594	-1.789531e+00	-3.559279e+00	-5.765674e-02	1.912099e+00	-1.650883e-01
## 2596	1.174617e+00	5.852328e-01	-7.020318e-02	-8.957042e-01	1.937544e-01
## 2597	1.473663e-01	-4.738891e-01	-4.258002e-02	-4.854486e-05	5.099950e-02
## 2598	7.095485e-01	-2.014654e+00	-1.892971e-01	-5.454057e-02	2.326717e-01
## 2601	-3.432665e-04	2.581909e-05	-3.740227e-05	1.329660e-04	6.471050e-05
## 2602	2.484714e-04	-7.986697e-04	-7.177644e-05	-1.582621e-07	8.598066e-05

## 2603	-2.537278e-01	-1.644639e-01	1.281656e-02	2.012887e-01	-3.999687e-02
## 2604	5.568143e-01	-1.790320e+00	-1.608711e-01	-2.328005e-04	1.926868e-01
## 2605	-1.453076e+00	-6.281870e+00	-1.020943e+00	1.283793e+00	1.460632e+00
## 2606	-2.724222e-01	-3.052265e-01	-7.697883e-02	1.380904e-01	1.180373e-01
## 2607	-3.975770e-04	4.066753e-05	-4.825600e-05	1.447292e-04	8.488923e-05
## 2608	4.182915e-03	-1.345119e-02	-1.208632e-03	-1.374960e-06	1.447625e-03
## 2610	3.086331e-01	-1.627181e+00	-1.283487e-01	1.301502e-01	1.377763e-01
## 2611	1.378900e-04	-3.282866e-04	-3.493061e-05	-2.644005e-05	4.620322e-05
## 2612	1.146331e+00	-3.053150e-01	-1.314824e+00	6.903752e-01	-7.158776e-02
## 2613	-5.271841e-02	-6.409402e-02	8.164623e-04	4.796374e-02	-6.850908e-03
## 2614	-3.052240e-01	-1.262622e-01	-5.780066e-02	1.295072e-01	9.347453e-02
## 2615	9.517284e-06	5.541886e-06	-8.981504e-07	-6.994340e-06	1.445491e-06
## 2616	3.778696e-04	4.658235e-05	-3.260005e-05	-2.606726e-04	7.161892e-05
## 2617	2.331435e-03	-7.497148e-03	-6.736554e-04	-8.091843e-07	8.068732e-04
## 2619	2.341069e-03	-7.528195e-03	-6.764396e-04	-7.941744e-07	8.102039e-04
## 2620	3.274705e-01	-8.752281e-02	-3.755154e-01	1.971564e-01	-2.040827e-02
## 2621	2.808187e-01	-7.521191e-01	-1.250222e-01	3.071202e-02	7.628807e-02
## 2622	-8.163402e-02	1.059997e-02	-1.040683e-02	3.005819e-02	1.710337e-02
## 2624	1.785331e-03	2.763276e-03	-5.118505e-04	-2.402957e-03	1.176292e-03
## 2628	5.956634e-01	3.655669e-01	-3.135632e-02	-4.683406e-01	9.490073e-02
## 2629	4.256319e-01	-1.596469e+00	-1.530078e-01	2.645230e-02	1.882541e-01
## 2630	1.229362e-01	7.540905e-02	-6.473868e-03	-9.665071e-02	1.958800e-02
## 2631	-1.784658e+00	-4.167318e-01	-2.839219e-01	7.343937e-01	4.669571e-01
## 2634	4.257950e-01	2.613083e-01	-2.241477e-02	-3.347798e-01	6.783779e-02
## 2635	1.005822e+00	-3.233016e+00	-2.905341e-01	-6.239789e-04	3.480181e-01
## 2636	1.173546e+00	7.202258e-01	-6.177640e-02	-9.227020e-01	1.869685e-01
## 2637	6.768322e-03	-2.176504e-02	-1.955639e-03	-2.229514e-06	2.342333e-03
## 2638	-2.992312e+00	-8.679044e-01	-5.000510e-01	1.248957e+00	8.165382e-01
## 2639	1.626526e-03	-5.230392e-03	-4.699679e-04	-5.530319e-07	5.629001e-04
## 2643	7.542007e-02	2.855330e-02	-5.064423e-03	-5.565968e-02	1.288068e-02
## 2644	-6.643904e+00	-1.921275e+00	-1.131591e+00	2.744569e+00	1.853196e+00
## 2645	-3.334613e+00	-3.472363e+00	-9.074051e-01	1.659245e+00	1.397580e+00
## 2646	-2.207254e-01	-1.411903e-01	1.126564e-02	1.747209e-01	-3.488628e-02
## 2647	-8.094764e-03	-9.729675e-05	-1.104448e-03	3.054811e-03	1.894673e-03

## 2648	7.666505e-05	-2.465339e-04	-2.215166e-05	-2.519470e-08	2.653179e-05
## 2649	4.753421e-04	-1.265112e-04	-5.452371e-04	2.862926e-04	-2.969759e-05
## 2650	-7.401344e-02	-6.796509e-01	-3.526075e-02	1.883298e-01	1.917792e-02
## 2651	5.525111e-01	-1.776724e+00	-1.596429e-01	-1.819849e-04	1.912097e-01
## 2652	-6.858895e-04	-5.088872e-04	3.061232e-05	5.572463e-04	-1.048618e-04
## 2653	5.409429e-01	-8.791244e-01	-4.065560e-01	1.755406e-01	6.804734e-02
## 2654	-6.626535e+00	-2.154741e+00	-1.165287e+00	2.758662e+00	1.900979e+00
## 2655	1.082964e-03	6.646355e-04	-5.700801e-05	-8.514822e-04	1.725370e-04
## 2656	-3.472708e-04	2.965733e-05	-3.894652e-05	1.321180e-04	6.777119e-05
## 2657	1.523941e-03	-6.797277e-03	-5.748195e-04	3.667422e-04	6.525101e-04
## 2658	6.632616e-01	-2.132857e+00	-1.916423e-01	-2.200714e-04	2.295365e-01
## 2659	6.652738e-02	-2.204424e-01	-1.981717e-02	1.070277e-03	2.370163e-02
## 2660	4.091007e-02	-2.405164e-01	-1.861465e-02	2.225974e-02	1.960352e-02
## 2661	-1.137440e-01	-9.653130e-02	4.337972e-03	9.491543e-02	-1.681730e-02
## 2662	2.277375e-01	-2.524158e-01	-3.618826e-02	-9.857070e-02	5.540888e-02
## 2663	1.238803e+00	-1.185764e+00	-1.171858e+00	5.711534e-01	4.119353e-02
## 2665	1.254987e-04	7.693759e-05	-6.611481e-06	-9.865643e-05	1.999841e-05
## 2667	-2.791407e+01	-2.027648e+01	1.275339e+00	2.259294e+01	-4.293855e+00
## 2670	-1.984052e+00	1.176409e-01	-5.790182e-01	9.805975e-01	4.708455e-01
## 2671	1.741600e-03	-5.600447e-03	-5.032175e-04	-5.884247e-07	6.027236e-04
## 2672	3.750701e-01	-4.269752e+00	-5.116267e-01	3.583855e-01	6.795096e-01
## 2673	-1.150735e-01	1.505709e-02	-1.353286e-02	4.150749e-02	2.397735e-02
## 2675	2.492962e-01	-7.157608e-01	-9.700677e-02	1.744689e-02	7.438211e-02
## 2679	8.216125e-02	-3.115547e-01	-2.949724e-02	6.112187e-03	3.604249e-02
## 2681	4.427646e+00	-1.435903e+01	-1.286788e+00	2.336440e-02	1.538189e+00
## 2683	1.403322e-03	-4.512499e-03	-4.054663e-04	-5.048983e-07	4.856470e-04
## 2685	-5.599922e+00	-5.661236e+00	1.575126e-01	4.859464e+00	-7.836760e-01
## 2687	6.406529e+00	-2.053815e+01	-1.869760e+00	1.108197e-02	2.208287e+00
## 2688	7.135966e-01	-1.818157e+00	-3.454805e-01	9.762372e-02	1.810093e-01
## 2690	8.029883e-04	-7.320576e-04	-1.198141e-04	-3.824456e-04	1.913334e-04
## 2692	5.227050e-04	-1.680752e-03	-1.510248e-04	-1.996051e-07	1.808917e-04
## 2695	2.511039e-02	-5.959526e-01	-3.909185e-02	1.056709e-01	3.390007e-02
## 2696	3.960789e+00	-1.088718e+00	-4.701550e+00	2.506412e+00	-2.262443e-01
## 2698	4.580556e-04	-8.989628e-04	-9.752427e-05	-1.187065e-04	1.316370e-04

## 2700	1.233133e-03	-3.965277e-03	-3.563642e-04	-5.236435e-07	4.268803e-04
## 2703	-6.109711e+00	-1.842478e+00	-1.066765e+00	2.512322e+00	1.748036e+00
## 2708	2.241153e-03	-7.206942e-03	-6.475649e-04	-7.414685e-07	7.756131e-04
## 2709	-6.487334e-06	4.657691e-06	-2.475044e-07	1.912051e-06	6.420124e-07
## 2710	1.488486e-03	-4.778777e-03	-4.323479e-04	1.100301e-06	5.140473e-04
## 2713	-9.139936e+00	1.225407e+00	-1.081436e+00	3.280190e+00	1.918672e+00
## 2714	-7.124580e+00	-8.355953e-01	-1.038372e+00	2.817341e+00	1.741575e+00
## 2715	3.436623e-01	2.109038e-01	-1.809113e-02	-2.702032e-01	5.475238e-02
## 2716	1.715107e-03	-5.515187e-03	-4.955596e-04	-5.947257e-07	5.935540e-04
## 2717	-3.498645e-02	-2.152882e-02	1.838170e-03	2.751981e-02	-5.571186e-03
## 2719	4.430761e-06	-1.001913e-05	-1.020695e-06	-8.711724e-07	1.329788e-06
## 2721	-2.971241e+01	-3.936888e+01	2.599472e-01	2.769869e+01	-3.703005e+00
## 2722	1.141482e-04	3.659076e-05	-1.049005e-05	-8.592963e-05	2.433333e-05
## 2724	-6.380320e+00	-1.241324e+00	-9.490339e-01	2.638455e+00	1.562592e+00
## 2725	-3.875877e+00	1.427884e-01	-1.549236e+00	2.234697e+00	9.751006e-01
## 2726	2.140563e-03	-6.883491e-03	-6.185002e-04	-7.023387e-07	7.407998e-04
## 2727	1.492991e-02	8.163580e-03	-8.475775e-04	-1.153360e-02	2.427350e-03
## 2728	1.738888e-03	-5.591715e-03	-5.024350e-04	-5.923408e-07	6.017879e-04
## 2729	1.791456e-03	-5.760743e-03	-5.176324e-04	-6.247988e-07	6.199972e-04
## 2730	6.620829e-05	-1.667897e-04	-1.628448e-05	-9.486620e-06	2.066384e-05
## 2731	3.644613e-03	-1.172246e-02	-1.053466e-03	-1.015075e-06	1.261874e-03
## 2732	1.223645e-09	-3.553380e-09	-4.834630e-10	9.190918e-11	3.724696e-10
## 2733	-2.223259e-01	-2.005553e-01	7.747168e-03	1.879610e-01	-3.229377e-02
## 2734	1.094353e+00	-3.516988e+00	-3.160771e-01	-7.925397e-04	3.786194e-01
## 2735	5.606701e-04	3.253725e-04	-3.078013e-05	-4.371253e-04	9.044563e-05
## 2736	1.331380e-06	-3.785752e-07	-1.520174e-06	7.969802e-07	-7.981594e-08
## 2737	2.633020e-04	-8.459987e-04	-7.604917e-05	-2.499809e-07	9.111402e-05
## 2741	1.015362e-03	-2.998093e-03	-2.835155e-04	-6.348131e-05	3.507269e-04
## 2742	8.745360e-01	4.547265e-01	-5.109563e-02	-6.707777e-01	1.433290e-01
## 2743	5.923638e-05	-1.898497e-04	-1.707942e-05	-1.542957e-07	2.047467e-05
## 2744	-1.190055e-03	-8.616882e-04	-2.742901e-04	5.477848e-04	4.313050e-04
## 2746	4.136988e-06	-8.281318e-08	-9.567304e-06	-1.430581e-05	1.795643e-05
## 2747	2.172416e-03	-6.995630e-03	-6.293439e-04	-3.364856e-08	7.542422e-04
## 2749	1.553172e-01	-4.918792e-01	-4.440983e-02	-1.606227e-03	5.338152e-02

## 2750	7.032391e-04	-2.261266e-03	-2.031884e-04	-2.685005e-07	2.433720e-04
## 2751	-2.183651e+00	-6.377343e+00	-1.134738e+00	1.566233e+00	1.652239e+00
## 2752	-3.537232e-01	-3.268149e-01	1.184874e-02	3.006343e-01	-5.100252e-02
## 2754	-8.210603e-01	-8.761199e-01	2.025255e-02	7.219504e-01	-1.126574e-01
## 2756	9.768089e-05	-3.230054e-04	-3.253016e-05	-2.948082e-06	4.126031e-05
## 2757	2.012671e-01	-6.284217e-01	-6.361116e-02	3.758703e-03	6.705418e-02
## 2758	-9.344286e-01	1.209086e-01	-1.100816e-01	3.372023e-01	1.949637e-01
## 2760	1.020801e+00	-4.325327e+00	-4.314650e-01	1.226093e-01	5.389950e-01
## 2761	-4.320811e+00	-9.539695e-01	-7.084333e-01	1.735972e+00	1.173475e+00
## 2763	4.263905e-02	-1.546322e-01	-1.439168e-02	2.331152e-03	1.746177e-02
## 2764	-1.991486e-01	2.417482e-02	-2.367036e-02	7.205130e-02	4.183777e-02
## 2765	-3.039924e+00	-6.929225e+00	-1.322026e+00	1.953797e+00	1.948288e+00
## 2767	-5.146915e-01	-1.675475e+00	-5.682076e-02	6.836855e-01	-1.565968e-02
## 2768	1.765965e+00	-1.979196e+00	-1.586609e+00	7.553198e-01	9.870033e-02
## 2769	5.393003e-01	-2.055411e+00	-1.981606e-01	3.732954e-02	2.443785e-01
## 2770	1.517728e-03	-9.622521e-04	-2.006646e-04	-8.069561e-04	3.391514e-04
## 2771	5.305480e-01	3.216977e-01	-2.818056e-02	-4.163295e-01	8.471464e-02
## 2773	-1.173439e+00	-1.052211e+00	-2.907227e-01	5.719128e-01	4.496692e-01
## 2774	-1.061960e-03	-3.126741e-03	-5.600225e-04	7.585431e-04	8.171128e-04
## 2776	2.427800e-03	-7.807425e-03	-7.015697e-04	-8.185260e-07	8.403282e-04
## 2777	-2.418503e-01	3.910057e-02	-3.062961e-02	8.236619e-02	5.497732e-02
## 2778	2.483682e-03	-7.986414e-03	-7.176489e-04	-9.535794e-07	8.595889e-04
## 2779	5.498536e-01	-1.816670e+00	-1.652564e-01	5.495272e-03	1.989882e-01
## 2781	7.347020e-05	-2.354517e-04	-2.118326e-05	-1.958767e-07	2.539532e-05
## 2782	1.244346e+01	-5.572192e+00	-1.346207e+01	6.854436e+00	-4.252488e-01
## 2784	-5.639471e-01	-6.346223e-01	1.188334e-02	5.026171e-01	-7.577720e-02
## 2787	1.681092e-01	-5.343835e-01	-4.819097e-02	-1.330414e-03	5.787643e-02
## 2788	-1.473328e+00	-2.154815e+00	-4.789116e-01	8.103920e-01	7.219421e-01
## 2790	3.102011e-06	-1.003993e-06	-3.427179e-07	-1.842198e-06	6.360150e-07
## 2791	1.304460e-02	-5.609382e-03	-1.434026e-02	7.419219e-03	-5.187472e-04
## 2792	1.621690e+00	-6.478996e+00	-5.533024e-01	2.504077e-01	6.354456e-01
## 2793	7.029557e-01	-2.755114e-01	-1.600176e+00	1.027927e+00	4.825418e-02
## 2794	5.438995e-01	-8.820834e-01	-4.093229e-01	1.768860e-01	6.816180e-02
## 2795	6.303992e-05	-2.017149e-04	-1.815899e-05	-2.346119e-07	2.177902e-05

## 2798	1.781695e+00	-4.740247e-01	-2.043715e+00	1.073112e+00	-1.113338e-01
## 2799	5.164934e+00	-4.052174e+01	-3.151357e+00	5.115747e+00	2.909781e+00
## 2800	-2.169247e-02	-3.830334e-01	-5.340083e-02	5.290532e-02	7.386715e-02
## 2802	1.120853e-06	-3.223248e-07	-1.278744e-06	6.702193e-07	-6.669446e-08
## 2807	1.896026e-06	-3.243455e-06	-3.729538e-07	-5.877981e-07	5.192446e-07
## 2811	-2.516149e+00	-3.419191e-01	-3.847125e-01	9.862066e-01	6.449876e-01
## 2812	-3.627520e+00	-3.061500e+00	-8.927075e-01	1.721440e+00	1.391565e+00
## 2813	7.280130e-04	-5.723458e-04	-1.021802e-04	-3.644651e-04	1.675005e-04
## 2814	9.838334e-01	-2.617593e-01	-1.128523e+00	5.925680e-01	-6.147813e-02
## 2815	-1.621870e+01	1.507632e+00	-1.988496e+00	5.921744e+00	3.490164e+00
## 2816	1.945280e+00	-1.350178e+00	-1.989027e+00	1.001412e+00	-6.200376e-03
## 2817	-1.852070e+01	-9.660611e+00	4.188033e-01	1.337741e+01	-1.797909e+00
## 2818	-7.692047e+00	-9.191530e+00	1.290335e-01	6.965417e+00	-1.007445e+00
## 2820	-3.040672e+00	-1.155641e+00	-5.467031e-01	1.297963e+00	8.835990e-01
## 2821	4.068462e-03	-1.351517e-02	-1.234146e-03	4.705248e-05	1.488746e-03
## 2822	-2.445936e-03	-1.691129e-03	1.169436e-04	1.962007e-03	-3.802548e-04
## 2823	8.583474e-05	-2.287295e-05	-9.844786e-05	5.169147e-05	-5.358718e-06
## 2824	3.470797e-04	-1.115922e-03	-1.002759e-04	-1.564649e-07	1.201103e-04
## 2826	3.078899e-03	-9.901030e-03	-8.897618e-04	-1.155206e-06	1.065785e-03
## 2827	1.785307e-03	-5.740773e-03	-5.159150e-04	-7.528068e-07	6.179929e-04
## 2828	1.257643e+01	-3.858434e+01	-4.174482e+00	3.755968e-01	4.094982e+00
## 2829	2.408687e-04	1.444837e-04	-1.300938e-05	-1.888535e-04	3.876907e-05
## 2831	3.600364e-03	-1.165880e-02	-1.051744e-03	7.302684e-06	1.262002e-03
## 2832	-3.788853e+01	-2.100781e+01	1.096691e+00	2.802173e+01	-4.209245e+00
## 2833	-4.568590e+01	-2.936965e+01	2.322786e+00	3.619384e+01	-7.213712e+00
## 2834	1.661730e-03	-5.343602e-03	-4.801391e-04	-5.625579e-07	5.750817e-04
## 2835	1.790767e+00	-5.873915e-01	-3.029646e+00	1.821512e+00	1.743437e-03
## 2837	-7.594333e+00	9.939996e-01	-8.931414e-01	2.739180e+00	1.582480e+00
## 2838	-6.348828e-05	1.291522e-04	4.016017e-05	-1.529697e-05	-1.158355e-05
## 2839	1.561069e-03	-5.017957e-03	-4.512275e-04	-1.299459e-06	5.406992e-04
## 2840	-4.287019e-01	5.606909e-02	-5.042363e-02	1.546323e-01	8.933896e-02
## 2843	5.005644e-07	3.385952e-07	-3.352662e-08	-4.115090e-07	9.524936e-08
## 2845	-2.966721e+01	-1.820737e+01	1.561700e+00	2.332589e+01	-4.726552e+00
## 2846	-4.011865e-46	1.290104e-45	1.159188e-46	1.321574e-49	-1.388398e-46

## 2847	-5.251296e-01	-6.994186e-01	4.368434e-03	4.902803e-01	-6.526509e-02
## 2848	7.283952e-04	-2.342036e-03	-2.104572e-04	-3.126678e-07	2.520868e-04
## 2850	1.498699e-05	-5.378726e-05	-5.067469e-06	6.484450e-07	6.191892e-06
## 2852	2.824871e-01	-7.239981e-01	-1.352017e-01	3.750182e-02	7.223806e-02
## 2853	-2.731929e-03	1.772464e-04	-3.450572e-04	1.006437e-03	6.016804e-04
## 2855	1.057189e-03	-3.399550e-03	-3.054615e-04	-3.661382e-07	3.658647e-04
## 2856	-5.401790e+00	-6.282152e-01	-6.775037e-01	2.273072e+00	1.115649e+00
## 2857	-8.219912e-03	9.975412e-04	-1.473550e-03	3.351155e-03	1.775335e-03
## 2860	4.406635e-05	-1.412308e-04	-1.270482e-05	-1.138124e-07	1.522995e-05
## 2861	3.230860e-04	1.974112e-04	-1.709023e-05	-2.538842e-04	5.157036e-05
## 2862	6.231790e-03	-8.630682e-03	-1.096857e-03	-2.343857e-03	1.600723e-03
## 2864	9.232907e-03	-2.969046e-02	-2.667756e-03	-3.041352e-06	3.195259e-03
## 2865	5.188575e-04	-1.668115e-03	-1.499073e-04	-2.660116e-07	1.795670e-04
## 2866	1.017432e-03	-3.272644e-03	-2.943622e-04	-5.766092e-07	3.527684e-04
## 2867	-1.586425e+00	-2.628440e+00	-5.603455e-01	9.034929e-01	8.403292e-01
## 2868	1.733683e-05	-5.510544e-05	-4.970653e-06	-1.395269e-07	5.970502e-06
## 2869	8.470346e-04	-1.210672e-02	-8.260070e-04	1.922503e-03	7.549895e-04
## 2870	-4.243791e-01	-6.091734e-01	-7.044747e-02	3.153260e-01	8.257715e-02
## 2871	4.192056e-03	-1.348090e-02	-1.211320e-03	-1.347390e-06	1.450856e-03
## 2872	3.629255e-03	-5.327127e-03	-6.572705e-04	-1.303178e-03	9.467532e-04
## 2873	-9.288106e-01	-4.574260e+00	-7.280881e-01	8.835617e-01	1.037536e+00
## 2875	2.183411e-01	-6.875908e-01	-6.219068e-02	-3.054639e-03	7.485320e-02
## 2877	-9.085902e-02	-5.806803e-02	4.425498e-03	7.215291e-02	-1.441066e-02
## 2878	5.093087e-01	-1.572562e+00	-1.431596e-01	-1.358765e-02	1.731240e-01
## 2879	2.170346e+00	-1.650652e+01	-1.215554e+00	1.953881e+00	1.216772e+00
## 2880	1.715647e-01	-5.443426e-01	-4.999497e-02	-5.484519e-04	5.879163e-02
## 2881	5.031261e-01	-1.617925e+00	-1.453755e-01	-1.615870e-04	1.741186e-01
## 2883	1.797596e+00	-6.055221e+00	-5.363771e-01	5.573485e-02	6.355536e-01
## 2884	5.524319e-01	-1.775928e+00	-1.595937e-01	-3.017493e-04	1.911692e-01
## 2885	1.243626e-04	-3.994919e-04	-3.591034e-05	-1.318928e-07	4.302377e-05
## 2887	5.005930e-05	-1.605292e-04	-1.443810e-05	-1.103430e-07	1.730531e-05
## 2888	-3.311030e+01	-4.576507e+01	1.727901e-01	3.125497e+01	-4.034086e+00
## 2889	1.114911e+00	-2.969615e-01	-1.278782e+00	6.714499e-01	-6.962359e-02
## 2890	8.280585e-01	-2.662863e+00	-2.392631e-01	-2.614048e-04	2.865721e-01

## 2891	-8.107607e-03	-5.402079e-03	4.003878e-04	6.4461982e-03	-1.270725e-03
## 2892	4.944484e+00	-1.590174e+01	-1.428767e+00	-1.295652e-03	1.711244e+00
## 2893	1.720285e-07	-6.589458e-08	-1.915513e-07	9.956120e-08	-7.954699e-09
## 2894	7.445313e+00	-2.710389e+01	-2.566581e+00	3.686185e-01	3.142367e+00
## 2895	-5.104564e+00	-6.723510e+00	4.713037e-02	4.750396e+00	-6.381282e-01
## 2896	7.056919e-04	-2.269132e-03	-2.038960e-04	-2.742158e-07	2.442204e-04
## 2898	-1.143100e-01	-7.251125e-02	5.871790e-03	9.035999e-02	-1.809659e-02
## 2901	-2.810017e+00	-2.969873e+00	-7.630467e-01	1.412635e+00	1.171799e+00
## 2903	-4.480152e-01	-3.771566e+00	-5.487716e-01	6.199927e-01	7.655239e-01
## 2904	-4.753499e-01	-2.417454e-01	-8.128069e-02	2.254833e-01	1.262468e-01
## 2905	-2.019383e-02	-4.542574e-03	-3.508167e-03	7.888084e-03	5.847486e-03
## 2906	1.146334e-04	-1.499025e-04	-1.995575e-05	-4.534406e-05	2.962194e-05
## 2907	6.591685e-07	-1.986147e-07	-7.493981e-07	3.923096e-07	-3.796726e-08
## 2908	-2.739890e-02	1.507237e-03	-2.265190e-02	2.467727e-02	7.950978e-03
## 2909	-1.459406e+00	-6.997947e+00	-2.998990e-01	2.399619e+00	6.541331e-02
## 2910	7.499844e-01	-1.637236e-01	-7.798441e-02	-4.616112e-01	1.499182e-01
## 2911	-3.440547e+00	-5.440489e+00	-1.175692e+00	1.935764e+00	1.765840e+00
## 2912	-1.038672e+00	-3.762444e+00	-6.359284e-01	8.300176e-01	9.171268e-01
## 2913	2.013051e-03	-6.473356e-03	-5.816535e-04	-6.822456e-07	6.966712e-04
## 2914	-1.648713e+00	-7.529599e-01	-3.216027e-01	7.078575e-01	5.176770e-01
## 2916	-9.502663e-05	-3.170948e-05	-3.999707e-06	5.582527e-05	3.453472e-06
## 2918	1.285032e+01	-3.919346e+01	-4.333591e+00	4.320973e-01	4.151904e+00
## 2920	-3.050514e-02	-2.137572e-01	-1.043096e-02	6.400975e-02	4.655002e-03
## 2921	-1.907061e+01	7.104484e-01	-2.466551e+00	7.101756e+00	4.273126e+00
## 2922	3.732189e-03	-1.200482e-02	-1.078877e-03	-9.698347e-07	1.292332e-03
## 2923	4.420086e-04	-3.209662e-03	-3.722484e-04	1.975787e-04	4.909373e-04
## 2924	1.953080e-04	-6.248885e-04	-5.635866e-05	-8.681264e-07	6.766402e-05
## 2925	7.444181e-06	-2.009374e-06	-8.530661e-06	4.477835e-06	-4.611837e-07
## 2926	2.228182e-04	6.864683e-05	-1.730778e-05	-1.629509e-04	4.139218e-05
## 2927	6.383224e-01	-2.023232e+00	-1.826208e-01	-6.251790e-03	2.194712e-01
## 2928	-3.110228e+00	-9.119259e-01	-4.798627e-01	1.351283e+00	7.735111e-01
## 2929	-4.888676e-01	-4.345567e-01	1.743307e-02	4.119825e-01	-7.132525e-02
## 2930	-8.000301e+00	2.272560e-01	-1.001969e+00	3.040636e+00	1.726664e+00
## 2931	-1.523937e+01	-1.379906e+01	5.278294e-01	1.289449e+01	-2.211057e+00

## 2933	1.375628e-02	-4.204781e-03	-1.562089e-02	8.174181e-03	-7.841484e-04
## 2934	-2.932973e+00	-3.335153e+00	5.965960e-02	2.621103e+00	-3.923998e-01
## 2935	-4.556484e+00	-2.146976e-01	-4.950785e-01	1.924530e+00	8.192601e-01
## 2936	3.096099e-03	-9.956309e-03	-8.946033e-04	-1.007797e-06	1.071500e-03
## 2938	-1.305004e+00	-6.080027e-01	-2.373877e-01	5.853020e-01	3.769141e-01
## 2939	-2.222343e-01	2.909106e-02	-2.614839e-02	8.016634e-02	4.630899e-02
## 2940	-1.700717e+00	-1.670379e+00	-4.144823e-01	8.787208e-01	6.292048e-01
## 2941	1.799770e-03	-5.787504e-03	-5.200256e-04	-6.085489e-07	6.228556e-04
## 2943	2.204457e+00	-7.179364e+00	-6.425900e-01	1.776846e-02	7.674134e-01
## 2945	-1.038525e+01	1.359656e+00	-1.221323e+00	3.745786e+00	2.163976e+00
## 2946	-7.831516e+00	-6.439902e+00	-1.847285e+00	3.769353e+00	2.866068e+00
## 2947	2.747365e-01	-7.349951e-02	-3.150239e-01	1.653929e-01	-1.711202e-02
## 2948	-4.100996e+01	-3.321321e+01	1.662375e+00	3.389513e+01	-6.141321e+00
## 2950	-6.138801e-01	-5.794275e+00	-8.442126e-01	9.104345e-01	1.179690e+00
## 2954	3.231021e-01	-7.988051e-01	-1.607400e-01	4.606771e-02	7.918196e-02
## 2955	-7.584224e+00	-1.990974e+00	-1.268612e+00	3.104953e+00	2.085705e+00
## 2956	4.438511e-04	2.642733e-04	-2.395541e-05	-3.474234e-04	7.127721e-05
## 2957	-2.790367e-03	-6.894422e-02	-4.009919e-03	1.598164e-02	2.849533e-03
## 2959	-4.638581e+00	-9.874429e-01	-7.346584e-01	1.885861e+00	1.213899e+00
## 2961	-1.084982e+00	-2.537105e-01	-1.577429e-01	4.653321e-01	2.560795e-01
## 2962	-1.026700e+00	-3.359708e+00	-5.792536e-01	7.809736e-01	8.382571e-01
## 2964	-5.484668e+00	-4.199583e-01	-7.463765e-01	2.172490e+00	1.256546e+00
## 2965	7.461761e-03	-4.504915e-03	-9.536332e-04	-4.002784e-03	1.632355e-03
## 2966	5.576108e-06	-2.538264e-06	-6.778815e-07	-3.181844e-06	1.210000e-06
## 2967	-1.193463e-04	-2.934772e-04	-9.097164e-06	1.373789e-04	-5.456650e-06
## 2968	4.245769e-02	-2.893568e-03	-4.021502e-03	-2.744077e-02	8.176188e-03
## 2969	6.551496e-04	-1.591675e-03	-1.581068e-04	-1.066794e-04	2.027170e-04
## 2970	1.307918e-01	-4.198966e-01	-3.786991e-02	-4.424446e-05	4.519889e-02
## 2974	9.316825e-01	-3.466316e+00	-3.018732e-01	9.160097e-02	3.521925e-01
## 2976	-3.690659e+00	-4.431022e-01	-5.344703e-01	1.466655e+00	8.950842e-01
## 2977	-5.223649e+00	-1.265924e+00	-8.528164e-01	2.135137e+00	1.404409e+00
## 2979	1.703770e-02	-5.478850e-02	-4.922873e-03	-5.612447e-06	5.896288e-03
## 2980	2.683559e-02	-6.379762e-03	-2.951418e-02	1.458581e-02	-1.400400e-03
## 2981	5.925429e+00	-2.030874e+01	-1.789487e+00	2.554505e-01	2.111799e+00

## 2982	3.756715e-06	-1.027288e-06	-4.301152e-06	2.257037e-06	-2.309011e-07
## 2985	-4.833776e-03	-1.396312e-02	-4.241977e-04	6.057276e-03	-2.336498e-04
## 2986	1.055008e-03	-3.392279e-03	-3.048388e-04	-4.480789e-07	3.651410e-04
## 2987	5.951893e-04	3.652283e-04	-3.133502e-05	-4.679589e-04	9.482886e-05
## 2988	-9.299928e+00	-1.522038e+00	-1.454715e+00	3.674383e+00	2.430188e+00
## 2989	-1.937535e-01	-1.436777e-01	8.670630e-03	1.574216e-01	-2.966006e-02
## 2992	1.261486e-03	-4.051636e-03	-3.659357e-04	5.970445e-07	4.358803e-04
## 2994	-8.109462e+00	1.287506e-01	-1.097665e+00	3.007406e+00	1.896743e+00
## 2995	2.321530e-01	-7.465393e-01	-6.707827e-02	-7.647501e-05	8.034187e-02
## 2996	-5.617430e-02	7.330495e-03	-6.609349e-03	2.026393e-02	1.170935e-02
## 2997	-2.256532e-01	2.953413e-02	-2.660068e-02	8.143771e-02	4.702705e-02
## 2998	-1.565886e-04	-7.687601e-03	-4.634447e-04	1.677037e-03	3.513418e-04
##	[,16]	[,17]	[,18]	[,19]	[,20]
## 3	2.560886e+00	-2.587299e+00	1.020977e+00	4.883142e-01	-7.442446e-01
## 4	2.380467e-04	-2.149665e-04	9.419644e-05	4.029212e-05	-7.119033e-05
## 6	9.360735e-04	-8.463063e-04	3.678845e-04	1.782955e-04	-2.892895e-04
## 7	5.700154e+00	-5.190653e+00	2.256765e+00	9.734760e-01	-1.701357e+00
## 8	1.375851e-06	2.368259e-08	5.099588e-07	-2.152513e-08	-5.085994e-07
## 9	1.315126e-03	-1.187788e-03	5.204066e-04	2.226372e-04	-3.932929e-04
## 10	6.135243e-05	-5.488386e-05	2.427457e-05	1.025272e-05	-1.834472e-05
## 11	1.618741e-03	-1.462069e-03	6.404693e-04	2.746619e-04	-4.843883e-04
## 13	5.972777e-01	1.664532e-01	2.167549e-01	-3.981171e-02	-2.342130e-01
## 15	-1.357272e-01	2.107654e-02	-3.108636e-01	1.999827e+00	-9.112536e-01
## 16	-2.677828e-02	9.527018e-03	-4.757955e-02	2.863901e-01	-1.288845e-01
## 18	5.087752e-01	-4.595132e-01	2.013256e-01	8.613319e-02	-1.521552e-01
## 21	1.486191e-05	-7.572081e-06	5.802971e-06	1.141939e-06	-4.579904e-06
## 22	-5.505227e-02	-5.822779e-02	1.007244e-02	-5.821799e-02	1.362577e-01
## 23	3.046796e-01	-1.547524e+00	4.960513e-01	-5.247688e-01	1.320851e+00
## 24	1.561532e-05	-1.371105e-05	6.170694e-06	2.559167e-06	-4.691192e-06
## 25	4.509530e-04	-7.368321e-04	-6.538580e-04	6.623406e-03	-3.215612e-03
## 26	2.411915e-04	-2.177089e-04	9.544262e-05	4.079405e-05	-7.212127e-05
## 27	-8.099586e-03	-9.500004e-03	-2.737771e-03	1.984407e-03	3.748771e-03
## 28	-8.946680e+00	-7.817598e+00	-3.098994e+00	1.659232e+00	3.927696e+00
## 29	1.213353e-01	-1.094955e-01	4.795954e-02	2.091663e-02	-3.648246e-02

## 30	1.893472e-03	4.103610e-04	6.904338e-04	-1.028543e-04	-7.331498e-04
## 31	1.958208e-01	-1.790464e-01	7.194524e-02	7.674611e-02	-7.907688e-02
## 32	5.055473e-01	-1.158995e+00	4.072097e-01	-2.322785e-01	6.277997e-01
## 35	5.849044e-01	-5.282824e-01	2.314507e-01	9.902382e-02	-1.749218e-01
## 36	1.006984e+00	-9.129135e-01	3.994772e-01	1.689364e-01	-2.973638e-01
## 38	4.368851e-05	-3.326086e-05	1.711581e-05	6.158968e-06	-1.355363e-05
## 39	-1.597175e-01	-7.771583e-02	-6.234041e-01	4.379695e+00	-2.025815e+00
## 40	-1.487131e+01	-5.958289e+00	-5.346519e+00	1.353360e+00	5.974415e+00
## 41	-9.506483e-02	-9.081659e-02	3.146179e-03	-1.418574e-02	1.823169e-01
## 44	3.109350e-03	-1.416340e-03	1.191800e-03	2.484016e-04	-1.039341e-03
## 45	2.991628e-04	-2.701718e-04	1.183806e-04	5.064022e-05	-8.946744e-05
## 47	1.384900e-02	-1.250834e-02	5.480143e-03	2.344623e-03	-4.141687e-03
## 49	1.072122e-01	-9.487902e-02	4.236662e-02	1.778957e-02	-3.223066e-02
## 50	1.947658e-01	-1.913712e-01	3.766386e-02	3.428929e-01	-2.041048e-01
## 52	3.519449e-01	-3.508678e-01	1.485677e-01	4.570316e-02	-7.032076e-02
## 53	-1.478738e-07	4.894210e-08	-2.719465e-07	1.653931e-06	-7.457911e-07
## 55	4.762235e-04	-4.300650e-04	1.884462e-04	8.060583e-05	-1.424132e-04
## 56	1.691060e-01	-1.472070e+00	4.512891e-01	-5.568441e-01	1.394330e+00
## 57	5.587700e-01	-4.969560e-01	2.209532e-01	9.291513e-02	-1.674890e-01
## 58	4.439886e-06	-3.563041e-06	1.745576e-06	6.597601e-07	-1.358796e-06
## 59	-1.171923e+01	-4.752883e+00	-4.211691e+00	1.077983e+00	4.712626e+00
## 60	2.690360e-01	-1.362600e+00	4.325266e-01	-4.510076e-01	1.145256e+00
## 63	1.733862e-01	-1.884374e-01	-1.182811e-02	6.620933e-01	-3.495926e-01
## 65	2.053265e-04	5.374174e-06	7.598154e-05	-3.404883e-06	-7.632229e-05
## 66	5.104800e-04	-3.509115e-04	1.990557e-04	6.415843e-05	-1.609053e-04
## 67	-1.277470e-01	-2.342322e-01	5.262291e-02	-1.799896e-01	4.261725e-01
## 69	-2.220072e+01	-7.873059e+00	-8.009945e+00	1.816386e+00	8.838454e+00
## 71	-1.736414e+00	-2.104240e+00	-5.851683e-01	4.391945e-01	8.085617e-01
## 76	4.381193e-04	-3.956163e-04	1.733695e-04	7.414231e-05	-1.310111e-04
## 77	2.558371e-03	-2.310696e-03	1.012386e-03	4.330764e-04	-7.650273e-04
## 78	5.488647e-01	-9.318722e-01	3.459168e-01	-1.046802e-01	3.199188e-01
## 79	8.706814e-02	-1.668332e+00	5.035950e-01	-7.053618e-01	1.738103e+00
## 80	6.510972e-04	-5.879162e-04	2.576925e-04	1.100705e-04	-1.945248e-04
## 81	1.090342e-03	-9.848283e-04	4.314918e-04	1.845157e-04	-3.259396e-04

## 82	3.544823e-02	8.946615e-03	1.289020e-02	-2.176665e-03	-1.382705e-02
## 83	-1.733907e-03	-8.526835e-04	-6.188644e-04	1.890323e-04	7.094994e-04
## 87	-1.826352e+01	-9.087759e+00	-6.516955e+00	2.015516e+00	7.476611e+00
## 90	1.626877e-03	-1.469372e-03	6.437673e-04	2.754230e-04	-4.865309e-04
## 93	1.675975e-03	-1.513718e-03	6.631958e-04	2.837352e-04	-5.012137e-04
## 94	6.513601e-03	-5.883050e-03	2.577477e-03	1.102747e-03	-1.947961e-03
## 95	6.995292e-05	-6.308259e-05	2.767927e-05	1.182050e-05	-2.092348e-05
## 96	1.852533e-01	-1.889547e-01	1.859100e-02	4.617518e-01	-2.579275e-01
## 97	-4.037504e-02	-2.396279e-02	-1.429946e-02	5.228693e-03	1.683365e-02
## 98	1.538914e-01	4.274995e-02	5.585171e-02	-1.023023e-02	-6.033525e-02
## 99	-1.652654e-02	-2.641463e-02	-5.389648e-03	5.449185e-03	8.208190e-03
## 100	3.157642e-04	-1.474247e-04	1.234218e-04	2.035012e-05	-9.643039e-05
## 102	6.743242e+00	-8.778870e+00	3.455219e+00	-6.026808e-02	9.416612e-01
## 103	-1.065248e-02	-1.056395e-02	9.180191e-04	-5.014539e-03	2.253212e-02
## 104	-5.489699e-08	1.591259e-08	-1.066310e-07	6.586485e-07	-2.978675e-07
## 105	-5.902364e-04	-6.210129e-04	1.052413e-04	-6.183413e-04	1.450362e-03
## 106	-6.345052e+00	-2.151705e+00	-2.292008e+00	4.994795e-01	2.518307e+00
## 107	-1.575265e-01	-4.390062e-02	-5.716710e-02	1.050000e-02	6.177155e-02
## 108	-2.650264e+00	-1.687389e+00	-9.354580e-01	3.660701e-01	1.113985e+00
## 109	-2.232088e+01	-8.251751e+00	-8.043970e+00	1.893311e+00	8.912762e+00
## 110	2.513703e-01	-4.153176e-01	2.310924e-01	-2.283907e-01	4.270640e-01
## 111	-1.159153e+00	-1.457664e+00	2.310388e-01	-1.210146e+00	2.935531e+00
## 112	1.007940e-03	-9.101604e-04	3.990228e-04	1.701634e-04	-3.007578e-04
## 113	5.562841e-01	1.550165e-01	2.018785e-01	-3.707682e-02	-2.181371e-01
## 115	-5.079065e-01	-8.660366e-01	-1.642052e-01	1.784724e-01	2.562558e-01
## 118	-2.679406e-01	-9.061210e-01	2.109622e-01	-5.121304e-01	1.270028e+00
## 119	5.304270e-01	-4.790691e-01	2.098933e-01	8.979886e-02	-1.586304e-01
## 120	3.299055e-03	8.827422e-04	1.198260e-03	-2.125806e-04	-1.290785e-03
## 121	-1.230628e-01	-1.296903e-01	2.099357e-02	-1.199639e-01	2.989369e-01
## 122	-9.146344e-01	-4.088410e+00	1.086177e+00	-2.375568e+00	5.718712e+00
## 124	1.343830e-03	-1.213685e-03	5.317625e-04	2.274950e-04	-4.018854e-04
## 125	4.249563e+00	-4.598340e+00	1.703083e+00	8.705724e-01	-1.209443e+00
## 126	1.229928e-03	-1.110852e-03	4.866915e-04	2.082212e-04	-3.678207e-04
## 127	6.076700e-01	-5.488427e-01	2.404591e-01	1.028777e-01	-1.817302e-01

## 128	4.439605e+00	-1.080409e+01	1.946111e+00	2.106194e+00	-7.897279e-01
## 130	2.764520e-01	2.198688e-02	1.018538e-01	-7.435325e-03	-1.040706e-01
## 131	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
## 133	3.041507e-06	3.072444e-07	1.121921e-06	-1.025288e-07	-1.137991e-06
## 134	1.214662e-05	-1.269895e-04	3.904443e-05	-5.049582e-05	1.251143e-04
## 135	7.903527e-04	-8.077047e-04	7.459567e-05	2.006985e-03	-1.117868e-03
## 136	-3.429586e-02	-4.058977e-01	-1.433675e-03	8.138237e-02	4.470823e-02
## 137	-3.071468e-02	-1.730355e-02	-1.148071e-01	8.041565e-01	-3.708853e-01
## 138	2.799239e-03	-2.413633e-03	1.104852e-03	4.501571e-04	-8.447975e-04
## 141	7.400891e-04	-6.684230e-04	2.928587e-04	1.252897e-04	-2.213292e-04
## 143	4.991984e-05	-4.502091e-05	1.975228e-05	8.436906e-06	-1.493235e-05
## 144	4.465362e-01	5.821014e-02	1.638883e-01	-1.654095e-02	-1.698862e-01
## 146	9.144684e-04	-8.259251e-04	3.618619e-04	1.548129e-04	-2.734791e-04
## 147	1.725374e+00	-4.133800e+00	7.547205e-01	8.050615e-01	-3.112498e-01
## 148	3.247278e-04	1.441766e-05	1.203179e-04	-7.337621e-06	-1.199529e-04
## 149	-2.162355e+01	-6.026441e+00	-7.847282e+00	1.441374e+00	8.479356e+00
## 150	-7.196616e-01	-1.553315e+00	3.475728e-01	-1.076251e+00	2.591366e+00
## 151	2.975787e-04	8.245038e-05	1.080128e-04	-1.975569e-05	-1.166269e-04
## 153	4.945165e-04	-4.466092e-04	1.956826e-04	8.371416e-05	-1.478931e-04
## 154	7.628364e-05	8.847040e-06	2.804682e-05	-2.652204e-06	-2.886408e-05
## 155	5.606694e-05	1.232695e-05	2.043849e-05	-3.078707e-06	-2.172604e-05
## 157	4.172091e+00	-3.843186e+00	1.653009e+00	7.212915e-01	-1.241790e+00
## 158	-5.865143e+00	-1.634551e+00	-2.128488e+00	3.909458e-01	2.299925e+00
## 159	1.108102e+01	-1.004375e+01	4.299150e+00	2.550651e+00	-3.631094e+00
## 162	1.653240e+00	-1.495203e+00	6.542541e-01	2.802923e-01	-4.942605e-01
## 163	2.710604e-03	-1.380776e-03	1.043004e-03	2.457379e-04	-8.945992e-04
## 164	3.829889e-03	-3.528817e-03	1.537356e-03	6.137101e-04	-1.063108e-03
## 165	-5.500656e-02	3.811203e-03	-1.374932e-01	9.010370e-01	-4.119105e-01
## 166	3.737637e-02	-3.375815e-02	1.479009e-02	6.327781e-03	-1.117778e-02
## 167	-1.915266e-01	-4.833554e-01	-5.756496e-02	9.859119e-02	1.089930e-01
## 168	5.632503e-01	-5.274670e-01	1.755958e-01	4.673288e-01	-3.434752e-01
## 169	-3.276230e-02	1.167384e-02	-5.816688e-02	3.500340e-01	-1.575189e-01
## 171	-3.931541e-01	-8.130617e-01	1.550943e-01	-5.125452e-01	1.282537e+00
## 172	1.642669e-01	-1.450239e-01	6.490880e-02	2.714323e-02	-4.938884e-02

## 174	-2.469701e-02	-1.092930e-02	-8.850155e-03	2.453580e-03	1.000397e-02
## 175	2.302993e-04	5.064126e-05	8.408896e-05	-1.298059e-05	-8.871575e-05
## 176	-9.325245e-01	3.054705e-01	-1.610963e+00	9.686271e+00	-4.317511e+00
## 177	-1.276564e+00	-1.682193e+00	3.267406e-01	-1.465803e+00	3.510212e+00
## 178	1.682276e-01	-2.340226e-01	6.890290e-02	4.473086e-02	-4.363039e-02
## 179	5.925141e+00	-5.353372e+00	2.340308e+00	1.037079e+00	-1.787936e+00
## 180	-9.633272e-01	-5.566592e-01	-3.415968e-01	1.217453e-01	4.004511e-01
## 182	-1.749766e+00	-5.776968e-01	-6.324983e-01	1.346098e-01	6.932378e-01
## 183	1.037414e-01	1.639982e-02	3.799550e-02	-4.417078e-03	-3.969528e-02
## 185	5.200614e-05	1.447533e-05	1.887905e-05	-3.475746e-06	-2.037163e-05
## 186	-6.910579e-02	-7.311489e-02	1.265047e-02	-7.309008e-02	1.710665e-01
## 188	1.024650e-03	-1.675844e-03	4.279739e-04	3.191651e-04	-2.408359e-04
## 189	3.892898e-02	9.128082e-03	1.417527e-02	-2.251257e-03	-1.512987e-02
## 190	1.370572e-01	-1.238208e-01	5.411040e-02	2.417290e-02	-4.144713e-02
## 192	4.290750e-01	7.857062e-02	1.568514e-01	-2.041340e-02	-1.650257e-01
## 194	-6.845076e-06	6.183994e-06	-2.704506e-06	-1.191312e-06	2.062407e-06
## 195	2.323849e-01	-2.098888e-01	9.195630e-02	3.934257e-02	-6.949714e-02
## 196	1.575502e-03	-1.422907e-03	6.234384e-04	2.667065e-04	-4.711617e-04
## 197	-7.535521e-09	2.895043e-10	-1.936233e-08	1.276190e-07	-5.837811e-08
## 199	-2.022481e-03	-3.910415e-03	-6.410391e-04	8.028681e-04	1.056806e-03
## 200	-1.589815e-01	-1.681649e-01	2.909132e-02	-1.681296e-01	3.935033e-01
## 201	4.195906e-03	-2.590992e-03	1.627094e-03	4.710093e-04	-1.349173e-03
## 203	-1.578273e-02	-4.668654e-03	-5.720094e-03	1.105872e-03	6.210353e-03
## 204	3.055514e-05	-2.747625e-05	1.208832e-05	5.146852e-06	-9.144278e-06
## 208	8.955277e-01	-8.250090e-01	3.591398e-01	1.442850e-01	-2.498675e-01
## 209	1.605402e-01	-1.444608e-01	6.280003e-02	3.255527e-02	-5.068197e-02
## 210	5.285940e-04	-3.314181e-04	2.051160e-04	6.034156e-05	-1.695795e-04
## 211	-1.648032e-01	4.748790e-02	-3.213036e-01	1.986537e+00	-8.986233e-01
## 212	8.118511e-05	-3.423139e-05	3.104047e-05	5.939609e-06	-2.735797e-05
## 214	-1.415803e-02	-1.638097e-02	-4.792217e-03	3.424706e-03	6.533708e-03
## 215	1.871464e-02	-4.172115e-03	7.052125e-03	6.271518e-04	-6.599553e-03
## 219	-1.505577e-06	5.346297e-07	-2.677623e-06	1.612179e-05	-7.255702e-06
## 220	8.475510e-04	-7.657018e-04	3.354561e-04	1.433612e-04	-2.531880e-04
## 222	-1.379694e+00	-8.080646e-01	-4.889408e-01	1.765232e-01	5.743842e-01

## 223	-2.669979e-05	-2.328142e-05	-6.059757e-07	-1.615747e-05	4.504954e-05
## 224	4.671407e-01	3.788474e-02	1.720893e-01	-1.271013e-02	-1.759131e-01
## 226	3.208306e-03	-1.925521e-03	1.242692e-03	3.487608e-04	-1.035551e-03
## 228	-2.478043e-01	-1.890449e+00	5.171508e-01	-9.783388e-01	2.386678e+00
## 230	-9.300867e-01	-1.554817e+00	3.385895e-01	-1.241436e+00	2.935345e+00
## 231	5.712841e-01	-9.807574e-01	3.632225e-01	-1.138153e-01	3.449281e-01
## 232	5.639051e+00	-5.124650e+00	2.232287e+00	9.609687e-01	-1.683930e+00
## 233	-2.037139e-01	-7.632598e-02	-7.374945e-01	5.132783e+00	-2.370521e+00
## 235	6.160650e-02	1.462964e-02	2.242776e-02	-3.599453e-03	-2.395805e-02
## 237	4.744239e-05	1.320167e-05	1.722381e-05	-3.173446e-06	-1.857832e-05
## 238	2.757439e-03	-1.917572e-03	1.075313e-03	3.522641e-04	-8.694659e-04
## 239	-7.690179e-06	2.750322e-06	-1.362765e-05	8.196046e-05	-3.687891e-05
## 242	1.049146e-06	2.492198e-07	4.109430e-07	-1.321148e-07	-2.961593e-07
## 244	1.517861e-03	-1.370913e-03	6.006285e-04	2.569683e-04	-4.539298e-04
## 246	4.418668e-05	-1.624993e-05	2.037427e-05	-5.898274e-06	-1.403896e-06
## 247	-1.561050e+00	-1.650887e+00	2.855507e-01	-1.650724e+00	3.863464e+00
## 248	4.730094e-01	-8.779552e-01	3.201924e-01	-1.240967e-01	3.587424e-01
## 249	-3.245370e-01	-2.498020e-02	-9.310725e-01	6.258990e+00	-2.873943e+00
## 250	4.225841e-03	7.692434e-04	1.544913e-03	-2.001290e-04	-1.624933e-03
## 252	5.307029e+00	-4.809303e+00	2.100473e+00	9.016723e-01	-1.585858e+00
## 253	-6.864885e-01	1.265764e-01	-1.516665e+00	9.677537e+00	-4.403111e+00
## 254	-6.820630e-08	2.060372e-08	-1.303929e-07	8.018840e-07	-3.623472e-07
## 255	-3.182667e+00	-1.142081e+00	-1.147923e+00	2.630717e-01	1.268126e+00
## 256	-7.365958e-01	-1.562057e+00	3.385639e-01	-1.067057e+00	2.586851e+00
## 258	1.511613e-01	-1.986305e-01	-9.691156e-02	1.258460e+00	-6.253290e-01
## 259	-1.252803e-07	4.085619e-08	-2.319357e-07	1.413336e-06	-6.375414e-07
## 260	-1.415239e+00	-4.487616e-01	-5.120878e-01	1.051836e-01	5.592454e-01
## 261	6.008573e-01	-6.680583e-01	2.416920e-01	1.256569e-01	-1.680877e-01
## 266	-1.552591e-02	1.402292e-02	-6.143710e-03	-2.628524e-03	4.643187e-03
## 267	2.432518e-02	-1.208034e-01	3.871583e-02	-4.010075e-02	1.021189e-01
## 268	3.407721e-10	-3.552445e-10	1.485695e-10	3.822893e-11	-5.029089e-11
## 269	-3.936387e-03	1.325004e-03	-7.184535e-03	4.359670e-02	-1.965059e-02
## 270	-1.637714e-07	1.465167e-07	-6.452088e-08	-2.804642e-08	5.003525e-08
## 271	-1.433754e-02	-9.881900e-03	-5.039754e-03	2.130720e-03	6.085938e-03

## 273	8.223110e-04	-7.425952e-04	3.254079e-04	1.391529e-04	-2.458642e-04
## 274	4.043892e-04	-3.651645e-04	1.600212e-04	6.843797e-05	-1.209283e-04
## 275	-3.970207e+00	-1.323665e+00	-1.434777e+00	3.079996e-01	1.573965e+00
## 276	2.059134e-03	-1.859863e-03	8.148398e-04	3.485622e-04	-6.157052e-04
## 277	7.835295e-03	2.183592e-03	2.843465e-03	-5.222641e-04	-3.072488e-03
## 278	5.034415e-04	-4.535224e-04	1.991828e-04	8.499525e-05	-1.506511e-04
## 279	1.543477e-03	-1.394049e-03	6.107652e-04	2.613049e-04	-4.615904e-04
## 280	1.648895e-03	-1.489260e-03	6.524799e-04	2.791508e-04	-4.931154e-04
## 281	4.312350e-01	1.201794e-01	1.564972e-01	-2.874411e-02	-1.691020e-01
## 283	2.798456e-04	-2.526854e-04	1.107372e-04	4.735821e-05	-8.368754e-05
## 284	-4.305504e-05	-1.071769e-04	-3.855426e-04	2.891512e-03	-1.351141e-03
## 286	2.026786e-01	-1.863749e-01	7.181253e-02	1.003013e-01	-9.166379e-02
## 287	-1.130685e-04	-7.870680e-04	-1.985174e-05	1.578623e-04	1.046540e-04
## 288	1.393146e-03	-1.258426e-03	5.509168e-04	2.386965e-04	-4.179700e-04
## 289	2.969437e-04	-2.680901e-04	1.175042e-04	5.023956e-05	-8.879488e-05
## 292	2.292444e-04	-2.244564e-04	1.074523e-04	2.605468e-06	-4.502687e-06
## 295	6.588138e-04	1.836025e-04	2.390867e-04	-4.391354e-05	-2.583433e-04
## 296	8.721979e-04	-8.408535e-04	2.100810e-04	1.209865e-03	-7.607286e-04
## 297	1.212292e-03	-1.259404e-03	5.392240e-04	1.039493e-04	-1.377109e-04
## 298	1.733565e-02	-1.565747e-02	6.859836e-03	2.934911e-03	-5.184408e-03
## 299	-6.654511e-01	-3.978177e+00	1.086034e+00	-2.181995e+00	5.272886e+00
## 300	1.758061e-03	-1.587814e-03	6.956786e-04	2.976182e-04	-5.257574e-04
## 301	1.838392e-01	-1.657057e-01	7.024618e-02	5.024278e-02	-6.420218e-02
## 302	-2.519142e+00	-7.241306e-01	-9.135956e-01	1.723222e-01	9.895807e-01
## 303	9.843176e-05	-8.884844e-05	3.894926e-05	1.665193e-05	-2.943885e-05
## 305	-1.786691e+00	-2.481430e-01	-1.965888e+00	1.188019e+01	-4.104207e+00
## 306	-1.169427e-01	-3.810282e-02	-4.228603e-02	8.895254e-03	4.629156e-02
## 308	2.267755e-03	-2.048202e-03	8.973760e-04	3.838989e-04	-6.781570e-04
## 310	-6.631046e-02	-6.094476e-01	1.712909e-01	-3.144186e-01	7.626164e-01
## 311	-7.712473e-01	-1.489488e+00	3.399341e-01	-1.120719e+00	2.656541e+00
## 312	4.831405e-04	-4.362232e-04	1.911905e-04	8.173538e-05	-1.444514e-04
## 314	-2.361755e-02	-1.464821e-02	-8.347003e-03	3.184512e-03	9.896649e-03
## 315	8.238257e-05	-5.342567e-05	3.228720e-05	9.098913e-06	-2.524784e-05
## 316	7.172895e-04	-4.573303e-04	2.802950e-04	7.913713e-05	-2.227821e-04

## 317	5.082333e-04	-4.590081e-04	2.011116e-04	8.603622e-05	-1.519911e-04
## 318	-3.229446e-07	1.114022e-07	-5.825719e-07	3.522830e-06	-1.586783e-06
## 320	-2.170710e+00	-3.306852e+00	6.883769e-01	-2.736090e+00	6.467052e+00
## 321	5.085609e-04	-4.583442e-04	2.012141e-04	8.590145e-05	-1.521664e-04
## 322	-6.664420e-01	-3.805847e-01	-2.364465e-01	8.332270e-02	2.766813e-01
## 323	9.419412e-04	-8.266539e-04	3.801596e-04	1.348959e-04	-2.523763e-04
## 324	-1.892298e-01	-5.273585e-02	-6.867240e-02	1.261318e-02	7.420351e-02
## 325	-2.707936e-01	-7.384115e-01	1.717349e-01	-4.637706e-01	1.128636e+00
## 328	5.645387e-01	1.573294e-01	2.048738e-01	-3.762951e-02	-2.213750e-01
## 329	-3.713938e+00	-1.290673e+00	-1.339158e+00	2.948030e-01	1.482481e+00
## 330	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
## 332	1.461364e-01	-1.773778e+00	5.423518e-01	-7.189819e-01	1.778285e+00
## 334	2.892334e+00	-4.711139e+00	1.202507e+00	9.113916e-01	-7.006377e-01
## 335	-2.609457e-02	-3.615932e-02	-8.667708e-03	7.505491e-03	1.250898e-02
## 336	-1.745292e-01	-2.430498e+00	-4.552138e-03	5.437418e-01	2.289869e-01
## 338	-6.887141e-01	-1.308692e+00	2.513095e-01	-8.790244e-01	2.171386e+00
## 340	9.400445e-04	-8.503933e-04	3.681945e-04	1.888893e-04	-2.951458e-04
## 341	-1.770854e+00	-1.013136e+00	-8.616870e-01	5.229823e+00	-2.650800e-02
## 342	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
## 344	-3.112426e-01	-8.980977e-02	-1.128661e-01	2.135888e-02	1.222909e-01
## 345	2.818955e-03	-2.546085e-03	1.115519e-03	4.771556e-04	-8.428861e-04
## 346	1.127220e-03	-1.028228e-03	4.511437e-04	1.811096e-04	-3.177472e-04
## 349	-2.665414e-01	-1.324139e-01	-9.511555e-02	2.937180e-02	1.090985e-01
## 351	-2.527829e-01	-6.996049e-02	-9.281113e-02	2.492853e-02	9.516730e-02
## 352	8.107502e-01	-7.324034e-01	3.208233e-01	1.372868e-01	-2.424523e-01
## 353	2.495981e-03	-2.254344e-03	9.877078e-04	4.224889e-04	-7.463301e-04
## 354	7.883249e-03	3.404559e-04	2.912394e-03	-1.548220e-04	-2.945091e-03
## 358	5.361231e-01	-4.912831e-01	1.941197e-01	2.325442e-01	-2.270610e-01
## 359	-1.841588e+00	-1.913414e+00	1.759088e-01	-8.450622e-01	3.960462e+00
## 361	-4.919035e-05	-5.574603e-05	8.903180e-06	-5.078860e-05	1.212709e-04
## 362	-8.709451e-02	-3.385599e-01	-2.287754e-02	6.853445e-02	5.892878e-02
## 364	4.760448e-02	-4.405122e-02	1.886816e-02	8.266487e-03	-1.414791e-02
## 367	4.371573e-04	-2.308134e-05	1.630393e-04	-1.113910e-06	-1.585819e-04
## 368	9.613813e-01	-1.686066e+00	6.042800e-01	-1.650080e-01	5.525896e-01

## 370	8.488736e-05	-7.661449e-05	3.358956e-05	1.435888e-05	-2.538855e-05
## 372	-3.172369e+00	-2.822813e+00	-1.097448e+00	5.984764e-01	1.396717e+00
## 373	9.324727e-04	-1.124061e-03	4.554595e-04	2.215099e-05	4.662203e-05
## 375	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
## 377	-2.219550e-03	-1.500359e-02	-4.048324e-04	3.016381e-03	2.008619e-03
## 378	1.485974e-01	-3.005340e-01	-5.329920e-01	4.652617e+00	-2.233321e+00
## 379	6.442792e-04	-5.818793e-04	2.549463e-04	1.090663e-04	-1.926752e-04
## 380	7.490098e-04	-6.764282e-04	2.963934e-04	1.267747e-04	-2.239776e-04
## 381	1.278185e-01	3.552451e-02	4.638863e-02	-8.500468e-03	-5.011438e-02
## 382	-7.175455e-01	-7.588164e-01	1.312482e-01	-7.587540e-01	1.775837e+00
## 383	4.696264e-01	-5.480515e-01	2.215769e-01	2.538646e-02	-6.120341e-03
## 386	2.528042e-01	-1.597988e+00	5.042435e-01	-5.776339e-01	1.444361e+00
## 388	-7.620880e-01	1.635220e-01	-1.625848e+00	1.028825e+01	-4.673906e+00
## 389	-1.141307e-01	4.084898e-02	-2.021709e-01	1.215766e+00	-5.470330e-01
## 391	4.265185e-01	-4.465272e-01	-6.759323e-02	1.918817e+00	-1.001685e+00
## 392	2.841831e-01	2.703102e-02	1.045792e-01	-8.527530e-03	-1.073298e-01
## 393	-4.657333e-02	-1.304301e-01	-4.537239e-01	3.416288e+00	-1.597307e+00
## 395	2.291248e-02	-6.869210e-01	1.898162e-01	-2.591868e-01	6.713118e-01
## 396	-6.173741e-01	1.797723e-01	-1.197671e+00	7.395034e+00	-3.344257e+00
## 397	7.082857e-01	-1.216389e+00	4.504609e-01	-1.413182e-01	4.281460e-01
## 398	8.554107e-02	2.374115e-02	3.104602e-02	-5.682309e-03	-3.353570e-02
## 402	9.489683e-04	-8.397018e-04	3.813749e-04	1.416983e-04	-2.607034e-04
## 403	1.080090e-03	-2.409502e-03	4.689058e-04	4.649708e-04	-2.034987e-04
## 404	3.283107e-03	-2.965304e-03	1.299303e-03	5.554554e-04	-9.812525e-04
## 405	2.780013e-01	6.088474e-02	1.013484e-01	-1.521809e-02	-1.077073e-01
## 406	1.197321e+00	-1.081564e+00	4.737926e-01	2.027350e-01	-3.580590e-01
## 407	1.465184e-03	-1.323333e-03	5.797843e-04	2.480489e-04	-4.381753e-04
## 408	6.442792e-04	-5.818793e-04	2.549463e-04	1.090663e-04	-1.926752e-04
## 410	7.693456e-04	-6.399677e-04	3.028956e-04	1.194122e-04	-2.344635e-04
## 411	4.788782e-04	-4.324977e-04	1.894955e-04	8.106749e-05	-1.432126e-04
## 412	-1.433754e-02	-9.881900e-03	-5.039754e-03	2.130720e-03	6.085938e-03
## 414	1.751971e-03	-1.582383e-03	6.932362e-04	2.968480e-04	-5.240581e-04
## 415	1.594744e+00	-3.612155e+00	1.271896e+00	-7.135912e-01	1.932873e+00
## 416	-6.890969e-02	-2.386016e-02	-2.487836e-02	5.522557e-03	2.738878e-02

## 417	1.913923e-01	-1.913447e-01	2.862520e-02	4.029085e-01	-2.316104e-01
## 418	-6.623408e+00	-2.498147e+00	-2.385559e+00	5.717043e-01	2.648644e+00
## 419	1.528988e-03	-1.380923e-03	6.050451e-04	2.588087e-04	-4.572049e-04
## 420	9.169883e-05	1.817055e-05	3.381570e-05	-5.450298e-06	-3.409334e-05
## 421	5.402526e-04	-4.879322e-04	2.137818e-04	9.145838e-05	-1.615671e-04
## 422	2.275517e-03	-2.055123e-03	9.004488e-04	3.851857e-04	-6.804704e-04
## 423	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
## 424	-4.835563e-02	-1.190946e-01	-4.299172e-01	3.223163e+00	-1.506043e+00
## 425	-1.299033e-05	-1.412442e-05	-2.420529e-06	-1.921948e-06	1.364201e-05
## 426	2.797996e-04	-2.526242e-04	1.107181e-04	4.734730e-05	-8.367658e-05
## 428	4.989069e-01	-4.497051e-01	1.973938e-01	8.429896e-02	-1.492818e-01
## 429	6.015837e-01	-5.433160e-01	2.380499e-01	1.018414e-01	-1.799124e-01
## 430	9.697692e-02	-1.539917e-01	5.795505e-02	-1.354959e-02	4.462900e-02
## 431	7.438329e-05	-6.702656e-05	2.943199e-05	1.255616e-05	-2.224836e-05
## 434	2.173569e-05	6.054131e-06	7.888083e-06	-1.448152e-06	-8.523026e-06
## 435	-1.824537e-01	-7.604033e-01	1.550079e-01	-3.381094e-01	9.045505e-01
## 436	-2.653435e+00	-1.810789e+00	-9.877822e-01	6.140756e+00	1.089598e+00
## 437	1.145479e-01	-2.519070e+00	7.578576e-01	-1.073977e+00	2.645080e+00
## 438	-1.141493e-01	-4.889671e-02	-4.095108e-02	1.101941e-02	4.610747e-02
## 439	9.528802e-02	-2.760947e+00	8.208466e-01	-1.180270e+00	2.915795e+00
## 442	1.869085e-06	5.191839e-07	6.794928e-07	-1.270408e-07	-7.283799e-07
## 444	-2.613371e-01	-8.710258e+00	1.445344e-01	1.745069e+00	7.814063e-01
## 447	8.883034e-01	-8.005615e-01	3.511921e-01	1.520970e-01	-2.667802e-01
## 448	1.725375e-03	-1.570602e-03	6.860955e-04	2.871988e-04	-5.034089e-04
## 450	-4.027754e-02	-2.211755e-02	-1.431454e-02	4.859251e-03	1.665221e-02
## 451	-3.529430e+00	-1.069562e+00	-1.278461e+00	2.524161e-01	1.390780e+00
## 452	-1.114838e-02	-3.517504e-03	-4.034349e-03	8.249403e-04	4.404205e-03
## 455	1.997913e-01	-1.872867e-01	6.013335e-02	1.824243e-01	-1.297862e-01
## 456	-2.917409e-01	-8.671436e-02	-1.057239e-01	2.052598e-02	1.148279e-01
## 457	-3.724513e-03	-3.232073e-01	8.603850e-02	-1.269254e-01	3.293426e-01
## 458	-2.450611e+00	7.563240e-01	-4.169894e+00	2.507434e+01	-1.110957e+01
## 460	1.056667e-01	-1.848610e-01	-1.838426e-01	1.792975e+00	-8.668612e-01
## 462	-5.163982e-02	-3.632070e-01	1.005130e-01	-1.943680e-01	4.702487e-01
## 464	2.994639e-01	-1.032118e+00	3.182475e-01	-2.332270e-01	6.591675e-01

## 465	3.487106e-04	7.312160e-05	1.273194e-04	-1.869152e-05	-1.344495e-04
## 466	1.150074e-03	-1.038670e-03	4.550925e-04	1.946868e-04	-3.439384e-04
## 467	1.633486e-01	-1.470956e-01	6.375973e-02	3.423890e-02	-5.208382e-02
## 468	4.749179e-04	-3.623908e-04	1.866717e-04	6.567501e-05	-1.449931e-04
## 469	-1.756279e-01	-1.124433e+00	3.091413e-01	-6.108913e-01	1.476340e+00
## 470	-1.280488e-01	-4.275854e-02	-4.627307e-02	9.946908e-03	5.076982e-02
## 473	-2.696286e+00	8.683599e-01	-4.637631e+00	2.788549e+01	-1.240815e+01
## 474	-3.542233e+00	-2.095980e+00	-1.254713e+00	4.574604e-01	1.476372e+00
## 475	2.098181e-03	-1.895065e-03	8.302663e-04	3.552158e-04	-6.274764e-04
## 476	-1.648356e-01	-1.752533e-01	3.042672e-02	-1.747249e-01	4.089865e-01
## 477	-4.761967e-01	-1.327313e-01	-1.728134e-01	3.174537e-02	1.867348e-01
## 478	2.717754e-10	-2.717415e-10	1.152829e-10	3.421471e-11	-5.217331e-11
## 479	2.424373e-03	-3.858936e-03	1.699069e-03	-9.488824e-04	2.080283e-03
## 480	9.255866e-01	-8.359873e-01	3.662615e-01	1.567004e-01	-2.768043e-01
## 481	-2.902619e-02	-2.475294e-02	-3.325622e-03	2.156580e-02	3.972871e-02
## 482	-6.433167e-01	1.098069e-01	-1.443525e+00	9.243878e+00	-4.208526e+00
## 485	-2.881796e-02	-1.339374e-02	-1.030912e-02	2.990924e-03	1.172368e-02
## 487	-1.006666e-02	-2.196894e-03	-3.670126e-03	5.495037e-04	3.899557e-03
## 488	1.963622e-03	-1.773533e-03	7.770193e-04	3.324378e-04	-5.872388e-04
## 489	5.582967e-01	1.368178e-01	2.031295e-01	-3.346575e-02	-2.174490e-01
## 490	-5.221889e-03	-8.014752e-03	-1.712583e-03	1.656617e-03	2.565833e-03
## 491	-9.180399e-01	-1.327205e+00	2.067405e-01	-9.702325e-01	2.411654e+00
## 493	2.010520e-01	5.603005e-02	7.296273e-02	-1.340110e-02	-7.883935e-02
## 495	9.416051e-01	-8.943505e-01	3.853858e-01	1.399399e-01	-2.335324e-01
## 496	1.703931e-03	-1.538977e-03	6.742592e-04	2.884682e-04	-5.095711e-04
## 497	6.828199e-04	-6.166853e-04	2.701975e-04	1.155895e-04	-2.041999e-04
## 500	8.317695e-02	-4.298720e-01	1.362007e-01	-1.431852e-01	3.633871e-01
## 502	-5.578749e-03	-2.308630e-03	-2.003504e-03	5.220574e-04	2.247477e-03
## 503	-3.634055e+00	-3.547977e+00	-1.248437e+00	7.483300e-01	1.624746e+00
## 504	1.758909e-03	-1.588623e-03	6.960137e-04	2.977747e-04	-5.260147e-04
## 506	3.872741e-01	1.079280e-01	1.405436e-01	-2.581386e-02	-1.518635e-01
## 507	-2.236311e-03	-6.643376e-03	1.673868e-03	-4.308140e-03	1.029098e-02
## 508	3.984406e-04	-2.999535e-04	1.561773e-04	5.506776e-05	-1.232031e-04
## 509	6.662677e-01	-5.987564e-01	2.635630e-01	1.121976e-01	-1.994919e-01

## 510	1.595600e-03	-1.441125e-03	6.313907e-04	2.701287e-04	-4.771778e-04
## 512	-3.537971e-08	-3.741464e-08	6.471399e-09	-3.741156e-08	8.756046e-08
## 514	2.359022e-01	6.572838e-02	8.561041e-02	-1.572126e-02	-9.250420e-02
## 515	-6.058184e+00	-4.895186e+00	-2.109527e+00	1.044004e+00	2.628214e+00
## 516	-2.265391e-01	-1.667718e+00	4.514855e-01	-8.586013e-01	2.101493e+00
## 517	1.098500e+00	-9.985514e-01	4.349220e-01	1.871032e-01	-3.277806e-01
## 519	2.721319e-02	-2.459747e-02	1.077395e-02	4.598718e-03	-8.117680e-03
## 520	-3.221734e-01	-3.167226e-01	4.168141e-02	-3.049854e-01	7.315058e-01
## 521	1.922819e-01	-1.869370e-01	7.999928e-02	2.655202e-02	-4.279379e-02
## 522	1.939180e-03	-1.751457e-03	7.673477e-04	3.282998e-04	-5.799294e-04
## 523	2.237237e-01	6.222204e-02	8.119390e-02	-1.488707e-02	-8.771975e-02
## 524	-3.553703e-01	-1.915595e+00	5.072862e-01	-1.043668e+00	2.541485e+00
## 526	-1.793364e-01	-5.261333e-02	-6.500886e-02	1.247959e-02	7.053164e-02
## 527	1.373622e-04	-1.239541e-04	5.435446e-05	2.322740e-05	-4.107915e-05
## 529	2.808157e-05	7.714988e-06	1.026813e-05	-2.030536e-06	-1.071723e-05
## 531	8.095265e-01	-1.002655e+00	4.003161e-01	1.441444e-02	5.864626e-02
## 532	-1.223366e+00	-1.430553e+00	2.113260e-01	-9.751119e-01	2.983676e+00
## 533	4.572125e-04	-4.129453e-04	1.809227e-04	7.740241e-05	-1.367316e-04
## 535	3.807468e-01	1.059189e-01	1.381813e-01	-2.534380e-02	-1.492842e-01
## 536	4.450964e-04	1.148105e-05	1.648458e-04	-7.669908e-06	-1.649246e-04
## 537	2.420693e-04	-2.185644e-04	9.578854e-05	4.096291e-05	-7.239107e-05
## 538	-9.177966e-04	-9.350764e-04	-3.030246e-04	1.694673e-04	4.565631e-04
## 541	-9.656605e-02	3.455184e-02	-1.710834e-01	1.028869e+00	-4.629431e-01
## 542	1.772345e-04	-4.967167e-05	6.727406e-05	7.462645e-06	-6.090643e-05
## 544	2.327736e-04	-2.101924e-04	9.210990e-05	3.939624e-05	-6.961294e-05
## 545	4.771034e-04	-4.308751e-04	1.887937e-04	8.076044e-05	-1.426792e-04
## 546	1.271070e+00	-1.353668e+00	5.625978e-01	1.246299e-01	-1.560099e-01
## 547	1.593564e-02	4.440311e-03	5.783138e-03	-1.062048e-03	-6.248851e-03
## 548	6.814462e-01	-1.800919e+00	6.143747e-01	-4.091196e-01	1.091994e+00
## 550	1.268575e-04	-1.135218e-04	5.016909e-05	2.126620e-05	-3.802116e-05
## 551	-8.316746e-01	-1.274902e+00	2.132648e-01	-9.229580e-01	2.282883e+00
## 552	-3.465398e-01	5.222191e-02	-8.362590e-01	5.434295e+00	-2.483796e+00
## 553	5.539541e+00	-5.039665e+00	2.193045e+00	9.451007e-01	-1.653789e+00
## 554	1.730986e-03	-1.563403e-03	6.849641e-04	2.930477e-04	-5.176644e-04

## 555	1.341367e-01	-9.559654e-02	5.235881e-02	1.769022e-02	-4.216719e-02
## 556	1.104537e+00	-1.128083e+00	4.407053e-01	2.130176e-01	-3.200058e-01
## 557	-1.166842e-02	-1.097869e-03	-4.294307e-03	3.477382e-04	4.405963e-03
## 558	5.651587e+00	-5.187574e+00	2.238679e+00	9.733957e-01	-1.683620e+00
## 560	1.557635e-03	-1.406836e-03	6.163680e-04	2.637006e-04	-4.658228e-04
## 561	2.762861e-03	-2.531985e-05	1.024298e-03	-2.206928e-05	-1.022369e-03
## 562	1.780483e+00	-2.496598e+00	7.305547e-01	4.755256e-01	-4.573118e-01
## 563	-1.076166e+00	-2.183136e+00	4.694233e-01	-1.523891e+00	3.684941e+00
## 564	8.396436e-01	-7.583677e-01	3.322513e-01	1.421646e-01	-2.511097e-01
## 565	2.691977e-03	-2.431837e-03	1.065433e-03	4.553863e-04	-8.043100e-04
## 566	-9.670205e-04	-6.064256e-03	-1.899762e-04	1.229315e-03	8.363070e-04
## 570	-9.633272e-01	-5.566592e-01	-3.415968e-01	1.217453e-01	4.004511e-01
## 571	9.084574e-02	-8.205138e-02	3.594828e-02	1.538011e-02	-2.716837e-02
## 573	4.819057e-04	-1.448441e-04	1.835039e-04	2.148254e-05	-1.636316e-04
## 574	1.245480e-03	-1.321201e-03	5.627894e-04	9.261092e-05	-1.083063e-04
## 575	2.872897e-01	3.469164e-02	1.055180e-01	-1.009115e-02	-1.090831e-01
## 578	2.025519e-05	-1.761754e-05	8.002971e-06	3.277859e-06	-6.085232e-06
## 582	5.285613e-02	-1.226144e-01	3.756375e-02	-1.166879e-02	4.627413e-02
## 583	2.531270e-01	-1.932951e+00	5.962704e-01	-7.124166e-01	1.789181e+00
## 584	4.641325e-01	-3.817006e+00	1.178541e+00	-1.441377e+00	3.601552e+00
## 585	-2.378910e+00	-1.684183e+00	-8.191309e-01	5.128335e+00	1.224205e+00
## 586	-1.414542e+00	-5.630569e-01	-5.086556e-01	1.279895e-01	5.679958e-01
## 587	4.487742e-01	-8.788583e-01	1.876386e-01	1.943378e-01	-1.083151e-01
## 588	-1.016314e+00	-1.425512e+00	2.640198e-01	-1.171593e+00	2.806592e+00
## 589	-6.418616e-01	-1.742697e+00	4.313816e-01	-1.160648e+00	2.769196e+00
## 590	3.712190e+00	-3.353067e+00	1.468997e+00	6.283921e-01	-1.109952e+00
## 591	-6.748217e-01	-1.093377e+00	1.800864e-01	-7.503264e-01	1.877827e+00
## 592	1.992481e-01	-2.016858e-01	2.399056e-02	4.652246e-01	-2.626254e-01
## 594	1.234439e-05	1.831097e-06	4.524496e-06	-5.015696e-07	-4.713939e-06
## 595	-3.936387e-03	1.325004e-03	-7.184535e-03	4.359670e-02	-1.965059e-02
## 597	3.914141e-01	-1.091932e-01	1.478279e-01	1.961459e-02	-1.373173e-01
## 598	-7.480318e-01	-7.910888e-01	1.368342e-01	-7.910059e-01	1.851323e+00
## 599	8.776476e-04	-7.922120e-04	3.471907e-04	1.491708e-04	-2.628293e-04
## 601	-2.202092e-04	-2.300236e-04	3.756201e-05	-2.269859e-04	5.345940e-04

## 602	2.800444e-03	-2.530837e-03	1.108843e-03	4.728322e-04	-8.348912e-04
## 606	-1.077795e-02	-7.903453e-03	-3.775040e-03	1.695784e-03	4.613579e-03
## 608	-2.170066e+00	-1.421477e+00	-2.745138e-01	-8.892360e-01	2.806132e+00
## 609	7.449235e-05	-6.716843e-05	2.947547e-05	1.258542e-05	-2.228094e-05
## 610	-1.225357e+00	-1.682631e+00	3.374081e-01	-1.464641e+00	3.458608e+00
## 612	1.362367e-01	-1.231873e-01	5.394140e-02	2.302476e-02	-4.062500e-02
## 613	-6.918637e+00	-8.165312e-01	-2.536276e+00	1.966748e-01	2.645331e+00
## 614	-2.020250e-02	7.165199e-03	-3.595207e-02	2.165062e-01	-9.744361e-02
## 615	1.766174e-01	-1.607132e-01	6.677189e-02	5.440281e-02	-6.435516e-02
## 616	-8.543446e+00	-5.576649e+00	-3.011754e+00	1.207446e+00	3.601875e+00
## 618	5.402936e-01	-4.879832e-01	2.137977e-01	9.146979e-02	-1.615809e-01
## 620	2.907143e-10	-2.954359e-10	1.246994e-10	3.459576e-11	-5.060743e-11
## 621	-3.349987e+00	-1.810624e+00	-1.191384e+00	3.983840e-01	1.382716e+00
## 622	7.975798e-01	-3.162573e+00	1.032568e+00	-9.620436e-01	2.457144e+00
## 623	5.200614e-05	1.447533e-05	1.887905e-05	-3.475746e-06	-2.037163e-05
## 624	-9.413461e-01	-2.962129e+00	7.426707e-01	-1.862100e+00	4.474004e+00
## 625	5.647728e-01	-5.101060e-01	2.234847e-01	9.561668e-02	-1.689005e-01
## 627	1.622102e-03	-1.465062e-03	6.418778e-04	2.746152e-04	-4.851032e-04
## 628	-1.302917e+01	-4.072343e+00	-4.716100e+00	9.565636e-01	5.143936e+00
## 629	2.460863e-06	-3.428042e-07	9.239660e-07	3.556795e-08	-8.748884e-07
## 631	-2.512917e-03	-2.655667e-03	4.578250e-04	-2.653269e-03	6.212196e-03
## 632	7.354339e-03	-6.639183e-03	2.910073e-03	1.244441e-03	-2.199645e-03
## 633	1.569391e-03	-1.417454e-03	6.210195e-04	2.656918e-04	-4.693400e-04
## 634	2.730488e+00	-2.466439e+00	1.080537e+00	4.621871e-01	-8.163420e-01
## 637	6.514193e-02	9.389814e-03	2.236325e-02	9.118517e-03	-3.046727e-02
## 639	-6.680884e+00	-4.269577e+00	-2.357694e+00	9.259834e-01	2.809435e+00
## 641	7.619125e-05	-6.873052e-05	3.014804e-05	1.287971e-05	-2.278864e-05
## 642	4.038376e-01	-1.524716e+00	5.021267e-01	-4.570790e-01	1.166495e+00
## 644	-1.253578e-02	1.132142e-02	-4.960427e-03	-2.122242e-03	3.749198e-03
## 645	1.579197e-04	2.978024e-05	5.772697e-05	-7.739584e-06	-6.071934e-05
## 646	1.985474e-02	4.869428e-03	7.223764e-03	-1.190592e-03	-7.733587e-03
## 647	-1.957232e-01	3.448661e-01	-1.357925e-01	6.433473e-02	-1.616968e-01
## 649	-1.857462e+01	-6.742485e+00	-6.697351e+00	1.550724e+00	7.407089e+00
## 650	9.300336e-04	-8.399764e-04	3.680217e-04	1.574449e-04	-2.781319e-04

## 651	-3.638017e-01	-1.827491e+00	4.922691e-01	-1.038105e+00	2.501240e+00
## 653	6.273114e-05	-5.644885e-05	2.482044e-05	1.057088e-05	-1.876490e-05
## 654	-9.479933e-02	-2.211794e-01	-2.899394e-02	4.519219e-02	5.252608e-02
## 656	-1.497805e+01	-9.009009e+00	-5.301408e+00	1.963583e+00	6.254189e+00
## 657	-3.254450e-01	-6.389758e-01	1.497848e-01	-4.856215e-01	1.145147e+00
## 658	2.144084e-04	-1.936126e-04	8.484255e-05	3.628927e-05	-6.412118e-05
## 659	6.281866e-05	-5.610199e-05	2.484596e-05	1.049407e-05	-1.881418e-05
## 660	-2.030682e-01	-6.726331e-02	-7.129001e-01	4.941434e+00	-2.280624e+00
## 661	5.287250e-04	-4.775139e-04	2.092204e-04	8.950463e-05	-1.581189e-04
## 662	-3.409879e-03	1.130567e-03	-6.267003e-03	3.810710e-02	-1.718300e-02
## 663	-8.655000e-02	-8.097901e-02	-4.455372e-02	3.258050e-01	-9.849222e-03
## 664	-7.904895e-01	-1.599013e+00	3.746994e-01	-1.193547e+00	2.822128e+00
## 665	1.732355e-01	-1.572979e-01	6.637806e-02	4.640680e-02	-5.984828e-02
## 666	-7.981772e-01	-1.883467e+00	4.485290e-01	-1.304575e+00	3.112619e+00
## 668	2.499131e-03	-2.494486e-03	1.066566e-03	2.970220e-04	-4.546954e-04
## 669	1.591117e-01	-2.679094e-01	9.961196e-02	-2.931573e-02	9.023425e-02
## 672	-1.290785e+01	-4.118495e+00	-4.669849e+00	9.644357e-01	5.102666e+00
## 673	-6.907475e-01	-1.729241e+00	3.940075e-01	-1.116716e+00	2.713422e+00
## 678	1.887191e-01	-1.704504e-01	7.467735e-02	3.195100e-02	-5.643878e-02
## 679	6.803245e-03	-1.707733e+00	5.048595e-01	-7.696467e-01	1.886297e+00
## 681	1.102212e-03	-9.954605e-04	4.361530e-04	1.865892e-04	-3.296255e-04
## 683	-1.486698e-02	-4.366367e-03	-5.389076e-03	1.035441e-03	5.847537e-03
## 684	-1.096177e+00	-1.171093e+00	-4.047567e-03	-6.566464e-01	1.923781e+00
## 685	-6.018388e-01	-1.050861e+00	2.221235e-01	-7.990817e-01	1.909804e+00
## 687	-3.878406e-01	-1.342746e+00	3.307706e-01	-7.949887e-01	1.935436e+00
## 688	4.240731e-04	-3.829965e-04	1.678087e-04	7.178875e-05	-1.268228e-04
## 689	9.618518e-04	-8.686915e-04	3.806150e-04	1.628191e-04	-2.876365e-04
## 690	-6.264044e-02	-6.632481e-02	1.148178e-02	-6.627478e-02	1.551179e-01
## 691	3.164666e-03	-2.858379e-03	1.252320e-03	5.356962e-04	-9.462743e-04
## 693	5.215651e+00	-5.085784e+00	2.132319e+00	8.161995e-01	-1.306443e+00
## 695	1.779749e-01	-1.437618e-01	6.931589e-02	3.165916e-02	-5.692058e-02
## 696	5.771693e-04	-5.209239e-04	2.284509e-04	9.746561e-05	-1.723624e-04
## 697	2.480040e-05	-8.072000e-04	3.209431e-05	1.596604e-04	5.631134e-05
## 698	-1.946885e+00	-1.124131e-01	-2.328610e+00	1.402423e+01	-5.165977e+00

## 699	-1.173908e-02	-1.241933e-02	2.148186e-03	-1.241170e-02	2.905642e-02
## 700	3.030487e-04	-2.735996e-04	1.199203e-04	5.127130e-05	-9.061949e-05
## 701	6.505483e-01	-5.369976e-01	2.554787e-01	1.046358e-01	-2.005321e-01
## 702	-1.178054e+00	-1.160267e+00	2.191221e-02	-7.960832e-01	2.171524e+00
## 704	-1.700221e-01	4.817382e-02	-3.332602e-01	2.063509e+00	-9.336780e-01
## 705	1.917440e-01	-2.094040e-01	-1.554371e-02	7.515879e-01	-3.957255e-01
## 706	5.328261e+00	-4.813927e+00	2.108472e+00	9.023589e-01	-1.593349e+00
## 707	1.419211e+00	-1.283567e+00	5.621059e-01	2.394817e-01	-4.224954e-01
## 711	6.171815e-01	-5.285459e-01	2.434212e-01	9.872071e-02	-1.868495e-01
## 712	-3.430601e-02	-2.382228e-02	-1.205388e-02	5.133643e-03	1.457611e-02
## 713	1.647687e-01	-1.488042e-01	6.478706e-02	3.107098e-02	-5.080046e-02
## 714	1.320895e-06	1.593685e-08	4.897523e-07	-1.924531e-08	-4.878473e-07
## 715	-3.459432e-01	-4.521291e-01	-1.156666e-01	9.406349e-02	1.636889e-01
## 716	1.386761e-01	-3.636101e-01	1.252164e-01	-8.448994e-02	2.230358e-01
## 718	-6.801732e-03	-2.597746e-03	-2.448784e-03	5.932974e-04	2.722905e-03
## 719	-5.203596e-02	-1.583024e-01	-1.488655e-02	3.216150e-02	3.175442e-02
## 720	1.431114e-01	-2.096296e-01	5.890428e-02	4.016827e-02	-3.630197e-02
## 721	3.496580e-02	-3.058626e-02	1.380860e-02	5.721105e-03	-1.053522e-02
## 722	-1.199137e+00	6.935230e-02	-1.641193e+00	9.896728e+00	-3.951285e+00
## 723	1.569391e-03	-1.417454e-03	6.210195e-04	2.656918e-04	-4.693400e-04
## 724	1.756944e+00	-1.818142e+00	7.634752e-01	1.927171e-01	-2.688260e-01
## 725	-9.733183e-01	-1.515589e+00	1.843114e-01	-9.145140e-01	2.419308e+00
## 726	-7.774436e-04	-8.222711e-04	1.422372e-04	-8.221425e-04	1.924201e-03
## 727	2.135176e-03	-2.658388e-03	1.055256e-03	4.318567e-05	1.519697e-04
## 729	-7.946499e-03	2.765501e-03	-1.427487e-02	8.621042e-02	-3.882248e-02
## 730	5.708430e-04	-1.670316e-03	5.681453e-04	-4.300434e-04	1.116442e-03
## 732	-7.035288e-02	-2.232591e-02	-2.545583e-02	5.232129e-03	2.780225e-02
## 733	2.653553e+00	-1.094497e+01	1.287475e+00	2.155396e+00	-1.196395e-01
## 738	-3.232688e-01	-6.618469e-01	1.282929e-01	-4.250993e-01	1.057707e+00
## 739	2.222389e-01	6.193486e-02	8.065156e-02	-1.481338e-02	-8.714750e-02
## 740	-9.003684e-01	-1.730661e+00	3.685119e-01	-1.241442e+00	2.992266e+00
## 742	-6.140200e-01	-1.388323e+00	3.134626e-01	-9.426921e-01	2.274401e+00
## 743	1.408988e-03	-1.272563e-03	5.575466e-04	2.385324e-04	-4.213707e-04
## 744	-4.049631e-01	-1.262586e-01	-1.465909e-01	2.966796e-02	1.598558e-01

## 747	-1.961033e-01	-2.312276e+00	6.486101e-01	-1.140232e+00	2.788648e+00
## 748	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
## 749	3.623941e-02	9.063012e-03	1.318020e-02	-2.208458e-03	-1.412917e-02
## 750	3.802643e-01	-3.434559e-01	1.504732e-01	6.438016e-02	-1.137223e-01
## 751	-8.063385e-01	-1.587449e+00	3.248248e-01	-1.089060e+00	2.658650e+00
## 752	-9.094274e-03	3.176190e-03	-1.630833e-02	9.843929e-02	-4.432489e-02
## 753	3.859062e-03	-3.495993e-03	1.530363e-03	6.480770e-04	-1.141643e-03
## 754	2.918444e-03	-2.635936e-03	1.154879e-03	4.940178e-04	-8.726719e-04
## 755	9.186313e+00	-8.297030e+00	3.635087e+00	1.555235e+00	-2.747262e+00
## 757	3.104023e-01	3.305126e-02	1.141300e-01	-1.001829e-02	-1.175099e-01
## 758	1.848953e-01	-1.884600e-01	1.886434e-02	4.584236e-01	-2.562841e-01
## 759	-4.588440e-05	-2.247319e-05	-1.095989e-05	-8.245252e-06	3.966744e-05
## 761	3.879933e-04	-3.504209e-04	1.535322e-04	6.568218e-05	-1.160309e-04
## 762	-9.429990e-02	-5.319413e-02	-3.347482e-02	1.165859e-02	3.909803e-02
## 763	1.517861e-03	-1.370913e-03	6.006285e-04	2.569683e-04	-4.539298e-04
## 764	1.400161e-02	-1.143278e-01	2.762167e-02	-2.434073e-02	7.808630e-02
## 765	3.467353e-02	-1.624653e-01	-3.171810e-01	2.608864e+00	-1.235196e+00
## 769	2.020864e-01	5.568680e-02	7.335565e-02	-1.334391e-02	-7.919525e-02
## 770	-3.446804e-06	-1.245281e-08	-9.249478e-06	6.144717e-05	-2.815746e-05
## 772	4.528800e-01	9.082200e-02	1.653345e-01	-2.312157e-02	-1.748028e-01
## 773	1.218725e-04	3.102971e-05	4.441481e-05	-7.794546e-06	-4.715337e-05
## 774	-1.175550e+00	-1.243164e+00	2.150231e-01	-1.243062e+00	2.909343e+00
## 775	-4.637118e+00	-4.586634e+00	-1.591379e+00	9.667281e-01	2.077884e+00
## 777	2.375986e-04	-2.145482e-04	9.401918e-05	4.021245e-05	-7.105569e-05
## 778	-3.110227e-03	2.036254e-04	-7.806811e-03	5.120285e-02	-2.341107e-02
## 779	-4.463466e+00	-1.526755e+00	-1.611961e+00	3.539789e-01	1.772558e+00
## 780	5.698028e-01	1.159998e-01	2.079719e-01	-2.943635e-02	-2.200690e-01
## 781	5.948770e-04	-5.372545e-04	2.353976e-04	1.007010e-04	-1.779004e-04
## 782	1.467526e-03	-1.325451e-03	5.807106e-04	2.484471e-04	-4.388771e-04
## 783	-1.033608e+00	-2.880561e-01	-3.751011e-01	6.889615e-02	4.053134e-01
## 784	3.244880e-04	-2.930398e-04	1.284021e-04	5.492596e-05	-9.704061e-05
## 785	-1.181022e-02	-6.128980e-01	1.723047e-01	-2.672664e-01	6.683587e-01
## 788	-3.664543e-01	-3.884534e-01	6.730087e-02	-3.879165e-01	9.079514e-01
## 789	1.595600e-03	-1.441125e-03	6.313907e-04	2.701287e-04	-4.771778e-04

## 790	2.516984e-10	-3.257987e-10	1.286089e-10	-1.643838e-12	3.381777e-11
## 791	9.901697e-01	-8.912373e-01	3.916402e-01	1.677235e-01	-2.967001e-01
## 792	1.285202e-03	-1.160786e-03	5.085646e-04	2.175800e-04	-3.843482e-04
## 793	-4.099722e-02	-1.680765e+00	4.907209e-01	-7.850649e-01	1.918552e+00
## 794	2.117883e-05	-1.674294e-05	8.354125e-06	3.012301e-06	-6.368426e-06
## 795	1.270961e+00	-1.240842e+00	5.300776e-01	1.737451e-01	-2.780268e-01
## 796	-3.427206e-03	-3.635200e-03	6.300880e-04	-3.628954e-03	8.493980e-03
## 797	1.628914e-07	-1.515081e-07	6.575144e-08	2.559093e-08	-4.384780e-08
## 798	2.538454e+00	-2.298899e+00	1.004675e+00	4.309439e-01	-7.585881e-01
## 799	5.416580e-01	-4.892226e-01	2.143378e-01	9.170218e-02	-1.619884e-01
## 800	1.290569e-04	-1.164663e-04	5.106786e-05	2.182528e-05	-3.859627e-05
## 803	-3.392498e+00	-1.346024e+00	-1.220035e+00	3.060993e-01	1.361863e+00
## 804	7.487037e-04	-6.761860e-04	2.962687e-04	1.267408e-04	-2.239008e-04
## 806	-6.196956e-02	-2.282607e-02	-2.233469e-02	5.239451e-03	2.473850e-02
## 807	3.899065e-04	-3.521232e-04	1.542889e-04	6.600010e-05	-1.166038e-04
## 810	-2.004626e-03	-2.119962e-03	3.658616e-04	-2.117764e-03	4.958079e-03
## 811	5.763941e-05	-5.205985e-05	2.280838e-05	9.758197e-06	-1.723741e-05
## 814	2.454129e-04	-8.719557e-05	1.232904e-04	-5.830770e-05	3.135864e-05
## 815	-1.415500e+00	-1.837556e+00	3.561146e-01	-1.627135e+00	3.868878e+00
## 816	8.952303e-02	-8.031713e-02	3.540990e-02	1.504845e-02	-2.681529e-02
## 817	6.703451e-04	-4.331071e-04	2.612948e-04	7.708465e-05	-2.108917e-04
## 819	4.323831e-04	-3.897736e-04	1.712975e-04	7.251146e-05	-1.285142e-04
## 820	-1.157229e-02	-6.408709e-01	1.875805e-01	-2.968621e-01	7.260455e-01
## 822	-5.681320e-03	-2.052835e-03	-2.048659e-03	4.722154e-04	2.265152e-03
## 823	1.371422e-10	-2.373807e-10	8.776665e-11	-2.819692e-11	8.495276e-11
## 825	-2.822909e-02	-7.053521e-03	-2.628480e-02	1.585436e-01	-4.709022e-02
## 826	5.140219e-02	-3.911481e-02	2.013728e-02	7.242704e-03	-1.594815e-02
## 827	-2.487948e-03	8.003608e-04	-4.634486e-03	2.829096e-02	-1.276633e-02
## 830	-1.906779e+00	-3.684047e+00	8.406907e-01	-2.771151e+00	6.568808e+00
## 831	2.471649e-11	-1.564460e-10	4.936084e-11	-5.656778e-11	1.414446e-10
## 832	4.997362e-01	-4.513648e-01	1.977475e-01	8.461924e-02	-1.494572e-01
## 833	3.577679e-01	9.706561e-02	1.299089e-01	-2.332017e-02	-1.400852e-01
## 834	-8.449670e-07	-4.542335e-06	2.491755e-06	-5.622939e-06	1.100066e-05
## 835	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03

## 837	1.925425e-02	-1.034496e-03	7.165095e-03	-5.597697e-06	-7.046213e-03
## 842	2.023786e-01	-1.717904e+00	5.331686e-01	-6.612415e-01	1.643248e+00
## 843	4.976499e+00	-4.497185e+00	1.963088e+00	8.908729e-01	-1.511027e+00
## 844	2.367203e-04	-2.137107e-04	9.367225e-05	4.005047e-05	-7.078945e-05
## 845	9.845190e-04	-8.891768e-04	3.895809e-04	1.666688e-04	-2.944298e-04
## 846	-5.067299e-01	-1.576383e+00	3.997529e-01	-1.007143e+00	2.408772e+00
## 847	1.913486e+00	-1.729388e+00	7.572112e-01	3.241783e-01	-5.721577e-01
## 848	5.641599e-05	-5.072230e-05	2.232106e-05	9.496712e-06	-1.687731e-05
## 849	1.446808e-02	-1.679588e-01	3.247645e-02	-2.143388e-02	9.445138e-02
## 851	1.882752e-02	-1.700492e-02	7.450179e-03	3.187484e-03	-5.630568e-03
## 852	-1.666950e+00	-1.852250e+00	2.280744e-01	-1.059646e+00	3.842023e+00
## 855	1.375851e-06	2.368259e-08	5.099588e-07	-2.152513e-08	-5.085994e-07
## 858	-8.690607e-01	-2.421956e-01	-3.153862e-01	5.792753e-02	3.407885e-01
## 859	-7.368910e-05	-7.386724e-05	9.571110e-06	-6.946838e-05	1.674181e-04
## 860	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
## 862	4.623493e+00	-4.186749e+00	1.829849e+00	7.849155e-01	-1.381849e+00
## 863	2.119051e-05	4.865570e-06	8.070126e-06	-2.061941e-06	-6.873629e-06
## 864	2.796556e-04	7.726453e-05	1.015166e-04	-1.853008e-05	-1.095723e-04
## 866	-1.213932e+00	-1.683018e+00	3.392741e-01	-1.460194e+00	3.445194e+00
## 867	3.820352e-01	1.056795e-01	1.386642e-01	-2.530724e-02	-1.497470e-01
## 868	2.401358e-03	-2.168900e-03	9.502366e-04	4.065428e-04	-7.181410e-04
## 869	6.081445e-04	-4.242522e-04	2.397288e-04	7.177015e-05	-1.818776e-04
## 872	4.695490e-06	-2.273957e-06	1.811989e-06	3.813924e-07	-1.526191e-06
## 873	1.590887e-03	-1.436870e-03	6.295257e-04	2.693313e-04	-4.757685e-04
## 876	-1.589289e+00	-1.791961e+00	2.377600e-01	-1.113088e+00	3.738740e+00
## 877	6.631018e-01	-6.054666e-01	2.643293e-01	1.092914e-01	-1.910297e-01
## 878	1.436989e-01	1.274962e-01	-2.197896e-01	2.048900e+00	-1.058294e+00
## 879	1.032137e+00	-3.817927e+00	1.247153e+00	-1.100982e+00	2.844019e+00
## 880	-2.606920e-01	-1.304570e+00	3.513249e-01	-7.417337e-01	1.786981e+00
## 881	4.011855e-04	8.285667e-05	1.464264e-04	-2.103725e-05	-1.549197e-04
## 886	1.316690e+00	-1.697459e+00	5.348026e-01	3.271813e-01	-3.549421e-01
## 887	-6.818169e-01	-1.468305e+00	3.254105e-01	-1.011061e+00	2.440209e+00
## 888	2.524095e-07	-2.287722e-07	1.001155e-07	4.237156e-08	-7.460092e-08
## 890	1.543477e-03	-1.394049e-03	6.107652e-04	2.613049e-04	-4.615904e-04

## 892	-1.226568e+01	-8.217045e+00	-4.318074e+00	1.775582e+00	5.187747e+00
## 893	1.044390e-09	-9.894749e-10	3.105666e-10	9.938998e-10	-6.924146e-10
## 895	1.260506e-01	-1.111455e-01	4.975074e-02	2.121157e-02	-3.810654e-02
## 897	9.059824e-01	-8.182789e-01	3.585036e-01	1.533818e-01	-2.709430e-01
## 898	2.424995e-01	1.436265e-02	8.948124e-02	-5.539130e-03	-9.090136e-02
## 899	1.363690e-01	-9.179758e-02	5.309148e-02	1.682432e-02	-4.325299e-02
## 902	2.866841e-06	-2.342054e-06	1.127908e-06	4.351545e-07	-8.755110e-07
## 903	9.536395e-02	-8.526056e-02	3.771061e-02	1.598153e-02	-2.859326e-02
## 904	2.802220e-01	-2.610498e-01	1.131091e-01	4.414120e-02	-7.545464e-02
## 905	-3.806444e-01	-2.545423e+00	6.902479e-01	-1.344455e+00	3.274688e+00
## 906	-9.097751e-01	-1.138731e+00	1.629684e-01	-9.063949e-01	2.233319e+00
## 907	1.583844e-01	-1.935565e-01	-8.103688e-02	1.154626e+00	-5.791563e-01
## 909	5.838892e-04	1.108591e-04	2.133497e-04	-2.859975e-05	-2.248242e-04
## 911	8.930571e-06	-6.374873e-06	3.498466e-06	1.146199e-06	-2.759557e-06
## 912	-2.126294e-01	-2.248596e-01	3.889275e-02	-2.248409e-01	5.262322e-01
## 913	2.201465e-03	-1.988353e-03	8.711357e-04	3.727044e-04	-6.583677e-04
## 914	4.405528e-04	-3.978691e-04	1.743301e-04	7.457492e-05	-1.317498e-04
## 915	-1.084884e-01	-1.372508e+00	3.910400e-01	-6.844872e-01	1.664328e+00
## 917	5.293768e-04	-1.583518e-04	2.013047e-04	2.406811e-05	-1.807917e-04
## 919	1.663473e-03	-5.875164e-04	6.329538e-04	9.872416e-05	-5.691469e-04
## 921	3.738214e-04	-3.375852e-04	1.479241e-04	6.327380e-05	-1.117924e-04
## 922	4.340038e-01	1.198254e-01	1.575315e-01	-2.869039e-02	-1.701054e-01
## 923	-1.364361e-01	4.884596e-02	-2.416485e-01	1.453103e+00	-6.538174e-01
## 924	1.678836e-03	-1.516308e-03	6.643276e-04	2.842216e-04	-5.020701e-04
## 925	8.466588e-02	-9.332731e-02	3.847765e-02	6.698012e-03	-6.613269e-03
## 927	2.267755e-03	-2.048202e-03	8.973760e-04	3.838989e-04	-6.781570e-04
## 928	4.692640e-01	-4.853145e-01	3.058621e-02	1.299557e+00	-7.144563e-01
## 929	-1.227446e+00	-1.291682e+00	2.189789e-01	-1.286125e+00	3.016609e+00
## 932	8.452123e-02	-7.850375e-02	3.384068e-02	1.392386e-02	-2.381478e-02
## 933	1.393146e-03	-1.258426e-03	5.509168e-04	2.386965e-04	-4.179700e-04
## 935	2.846642e-03	-5.137880e-05	1.056570e-03	-2.126594e-05	-1.049492e-03
## 936	-1.435294e-05	-1.897166e-05	1.953076e-06	-1.251897e-05	3.282226e-05
## 937	1.622102e-03	-1.465062e-03	6.418778e-04	2.746152e-04	-4.851032e-04
## 939	2.278666e-01	-2.096072e-01	8.050818e-02	1.145565e-01	-1.039023e-01

## 940	9.572468e-07	-3.039623e-08	3.559600e-07	-5.266358e-09	-3.507218e-07
## 941	3.532189e-03	-3.253290e-03	1.418256e-03	5.647021e-04	-9.788963e-04
## 942	-1.379721e+00	2.821818e-01	-2.149635e+00	1.293070e+01	-5.518232e+00
## 946	7.583167e-04	-3.291012e-03	1.069152e-03	-1.052091e-03	2.665238e-03
## 947	-3.430516e+00	-7.310107e-01	-3.441968e+00	2.084032e+01	-6.643061e+00
## 949	7.620444e-01	-1.185271e+00	4.482181e-01	-9.611950e-02	3.236420e-01
## 950	2.118992e-03	-1.913864e-03	8.385007e-04	3.587419e-04	-6.337038e-04
## 952	1.685979e-01	-1.522522e-01	6.612249e-02	3.310000e-02	-5.260932e-02
## 957	3.196689e-03	-2.887312e-03	1.265015e-03	5.410644e-04	-9.557629e-04
## 958	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
## 960	-2.608819e+00	9.302507e-01	-4.613345e+00	2.773901e+01	-1.247478e+01
## 961	6.685627e-01	-5.255011e-01	2.621431e-01	9.963310e-02	-2.069787e-01
## 962	3.450155e-01	-3.169466e-01	1.380981e-01	5.599633e-02	-9.726519e-02
## 963	9.574014e+00	-9.823059e+00	3.817367e+00	1.895120e+00	-2.784207e+00
## 964	3.158704e+00	-2.853297e+00	1.249932e+00	5.348386e-01	-9.446116e-01
## 965	6.649444e-04	-3.935217e-04	2.591070e-04	6.701367e-05	-2.084908e-04
## 966	5.074203e-11	-1.611649e-10	5.411506e-11	-4.365145e-11	1.128130e-10
## 967	-1.281285e-04	-2.578677e-04	5.954847e-05	-1.909159e-04	4.528970e-04
## 968	5.438689e-05	-4.907615e-05	2.152050e-05	9.197276e-06	-1.626662e-05
## 969	-1.057150e+01	-3.459619e+00	-3.822195e+00	8.071552e-01	4.185895e+00
## 971	1.655923e-01	-3.768223e-01	1.294635e-01	-6.726901e-02	1.906059e-01
## 975	-5.494219e+00	-1.189352e+01	-1.705101e+00	2.432117e+00	2.975053e+00
## 977	-2.239992e-01	-6.353049e-01	1.585108e-01	-4.172396e-01	9.963539e-01
## 978	-1.123774e+00	-1.505192e+00	1.190519e-01	-8.924599e-01	2.438686e+00
## 979	5.626812e-01	-7.552672e-01	2.941576e-01	-1.321084e-02	1.004580e-01
## 981	-3.259975e-01	-5.132313e-01	1.093130e-01	-4.209434e-01	9.936299e-01
## 982	-4.650823e+00	4.661228e+00	-1.966643e+00	-6.700704e-01	9.148277e-01
## 983	-1.016417e+00	-2.665975e+00	6.554814e-01	-1.795552e+00	4.281246e+00
## 984	6.451642e+00	-6.073878e+00	1.930729e+00	5.987015e+00	-4.232610e+00
## 985	2.328085e-01	6.422958e-02	8.450537e-02	-1.538788e-02	-9.124094e-02
## 988	1.063490e-03	-9.605254e-04	4.208306e-04	1.800436e-04	-3.180461e-04
## 989	1.451975e-01	-1.517026e-01	5.811285e-02	2.847540e-02	-4.146985e-02
## 990	1.227879e-03	-1.108997e-03	4.858811e-04	2.078722e-04	-3.672064e-04
## 991	2.700569e-06	-9.857629e-07	1.028296e-06	1.670474e-07	-9.220876e-07

## 992	3.516631e-01	3.651476e-02	1.293268e-01	-1.116435e-02	-1.330569e-01
## 993	-3.765739e-01	-5.223129e-01	3.536682e-02	-2.832168e-01	7.992330e-01
## 994	2.461102e-01	-2.225062e-01	9.741946e-02	4.164724e-02	-7.348477e-02
## 995	-1.489973e-03	-2.337161e-03	4.986414e-04	-1.923850e-03	4.537874e-03
## 996	-1.856195e+01	-6.754243e+00	-6.692326e+00	1.552934e+00	7.403317e+00
## 997	1.745162e-01	-2.116721e-01	-8.885482e-02	1.268210e+00	-6.364976e-01
## 999	9.696740e-01	-1.065174e+00	4.395935e-01	7.838133e-02	-7.983652e-02
## 1000	2.873880e-01	-1.537496e+00	4.908766e-01	-5.302727e-01	1.332295e+00
## 1001	-4.060365e-04	4.682113e-06	-1.074082e-03	7.116486e-03	-3.259546e-03
## 1002	5.756453e-01	-4.368890e-01	2.254883e-01	8.086508e-02	-1.786683e-01
## 1004	1.392032e-03	-1.257263e-03	5.508371e-04	2.356651e-04	-4.162992e-04
## 1006	1.032889e-06	-4.125006e-07	3.945940e-07	7.020147e-08	-3.486589e-07
## 1007	1.863787e-03	-1.683361e-03	7.375144e-04	3.155348e-04	-5.573815e-04
## 1008	-5.048452e-02	-2.801697e-02	-1.793361e-02	6.148734e-03	2.089647e-02
## 1009	-7.440089e-02	2.109538e-02	-1.459626e-01	9.039728e-01	-4.090510e-01
## 1010	-8.830562e-04	-6.303665e-04	-3.049584e-04	1.237696e-04	3.952088e-04
## 1011	5.380923e-01	-4.870749e-01	2.132403e-01	9.062028e-02	-1.597437e-01
## 1012	4.127324e-01	-3.544349e-01	1.628124e-01	6.621210e-02	-1.248746e-01
## 1013	-1.076986e+00	-1.403968e+00	2.613806e-01	-1.159275e+00	2.908252e+00
## 1014	1.609150e-01	4.236672e-02	5.846560e-02	-1.023110e-02	-6.290515e-02
## 1016	1.398060e-04	-9.769055e-05	5.547929e-05	1.564312e-05	-4.039650e-05
## 1017	-3.148339e-01	-6.426829e-01	2.732910e-01	-7.766248e-01	1.602208e+00
## 1018	-4.043404e-03	-2.970308e-03	-1.415908e-03	6.368228e-04	1.731879e-03
## 1020	2.313526e-03	-2.089833e-03	9.156890e-04	3.912351e-04	-6.910785e-04
## 1023	-3.475480e-01	-1.130405e-01	-1.256775e-01	2.639642e-02	1.375606e-01
## 1024	3.462456e-05	9.377281e-06	1.257581e-05	-2.260536e-06	-1.354506e-05
## 1025	3.180349e-03	-6.199686e-02	-1.479040e-01	1.173907e+00	-5.530740e-01
## 1032	-1.959683e+00	-1.238010e+00	-3.181963e-01	-6.436425e-01	2.264301e+00
## 1033	5.696212e-01	-4.998448e-01	2.249969e-01	9.351471e-02	-1.715035e-01
## 1034	-4.967690e-05	-2.395371e-05	-1.191075e-05	-8.917728e-06	4.278326e-05
## 1035	-1.510026e-02	3.538422e-03	-3.145951e-02	1.979116e-01	-8.981361e-02
## 1039	-1.506975e-06	2.940529e-07	-2.890786e-07	-7.197889e-07	1.605284e-06
## 1041	2.463772e-03	-2.225248e-03	9.749416e-04	4.170855e-04	-7.367780e-04
## 1044	-2.706709e-01	-3.582789e-01	3.945076e-03	-1.557310e-01	4.921376e-01

##	1045	3.312429e-06	3.588296e-07	1.221459e-06	-1.171683e-07	-1.240203e-06
##	1046	-1.072875e+01	-9.035173e+00	-3.725704e+00	1.921943e+00	4.683287e+00
##	1049	4.760759e-01	-4.513983e-01	-3.940473e-04	1.544747e+00	-8.398389e-01
##	1050	-1.159574e-06	4.105083e-07	-2.065456e-06	1.244184e-05	-5.600040e-06
##	1051	1.229861e-01	-1.124810e-01	4.894177e-02	2.052387e-02	-3.575817e-02
##	1055	-3.370284e-01	-4.201503e-01	1.017979e-01	-4.373500e-01	9.871317e-01
##	1056	-3.501289e+00	-1.502339e+00	-1.256017e+00	3.385007e-01	1.414453e+00
##	1057	-6.894523e-01	-1.671313e+00	3.989622e-01	-1.143142e+00	2.731836e+00
##	1058	9.411341e-05	1.561762e-05	3.446551e-05	-4.195911e-06	-3.600463e-05
##	1059	-3.432202e+00	-1.324461e+00	-1.235348e+00	3.022292e-01	1.374868e+00
##	1061	-5.130825e-02	-1.643610e-02	-1.856061e-02	3.846451e-03	2.028833e-02
##	1062	7.083254e+00	-6.400943e+00	2.803872e+00	1.197704e+00	-2.114641e+00
##	1063	6.912575e-02	-1.669572e+00	5.016521e-01	-7.163229e-01	1.762862e+00
##	1064	-3.598749e-08	9.249724e-09	-7.287226e-08	4.551504e-07	-2.062619e-07
##	1065	-2.808845e-02	-7.307272e-01	2.120146e-01	-3.472395e-01	8.474465e-01
##	1066	1.751971e-03	-1.582383e-03	6.932362e-04	2.968480e-04	-5.240581e-04
##	1067	4.191177e-04	-3.522332e-04	1.674448e-04	6.002231e-05	-1.184390e-04
##	1070	2.367203e-04	-2.137107e-04	9.367225e-05	4.005047e-05	-7.078945e-05
##	1074	-3.789098e-02	-3.264004e-02	-1.313736e-02	6.932282e-03	1.659962e-02
##	1075	3.888057e-02	1.083549e-02	1.410994e-02	-2.591597e-03	-1.524640e-02
##	1080	-2.084792e+00	-2.204753e+00	3.813500e-01	-2.204544e+00	5.159662e+00
##	1081	4.182643e-01	-6.977185e-01	2.596365e-01	-7.340022e-02	2.288352e-01
##	1082	-1.855582e-02	6.577292e-03	-3.303144e-02	1.989360e-01	-8.953733e-02
##	1086	-1.724696e+01	-4.989609e+00	-6.253920e+00	1.186159e+00	6.777544e+00
##	1087	-7.848221e-01	7.153787e-02	-1.918430e+00	1.251524e+01	-5.716801e+00
##	1088	2.378554e-02	-2.148297e-02	9.412100e-03	4.026872e-03	-7.113315e-03
##	1091	1.961758e-03	-1.771832e-03	7.762836e-04	3.321132e-04	-5.866740e-04
##	1092	9.668761e-04	-8.732573e-04	3.826001e-04	1.636844e-04	-2.891513e-04
##	1093	5.682241e-01	1.361591e-01	2.068273e-01	-3.344362e-02	-2.210721e-01
##	1095	7.987502e-04	-7.214018e-04	3.160716e-04	1.352193e-04	-2.388712e-04
##	1096	-1.146513e-01	-3.782838e-01	-3.198854e-02	7.676838e-02	7.225869e-02
##	1098	2.918318e-04	5.070997e-05	1.067625e-04	-1.335266e-05	-1.120046e-04
##	1099	3.949079e-04	-3.565414e-04	1.562729e-04	6.680836e-05	-1.180777e-04
##	1100	9.167495e-01	-8.314124e-01	3.637652e-01	1.536727e-01	-2.703994e-01

##	1102	4.055925e-06	-3.383907e-06	1.597738e-06	6.295819e-07	-1.232905e-06
##	1104	8.778343e-01	-8.082236e-01	3.027738e-01	4.984357e-01	-4.275249e-01
##	1105	1.771692e-01	-1.612260e-01	6.696608e-02	5.468841e-02	-6.460975e-02
##	1107	-1.828018e+00	-1.315845e+00	-6.410131e-01	2.828340e-01	7.803420e-01
##	1108	-1.677621e+00	5.868026e-01	-2.949529e+00	1.773356e+01	-7.958362e+00
##	1110	1.322712e+00	-1.550696e+00	6.281798e-01	6.338102e-02	-1.612042e-03
##	1111	-1.636678e-01	-1.739706e-01	3.019887e-02	-1.734674e-01	4.060429e-01
##	1112	8.001761e-04	-7.226963e-04	3.166355e-04	1.354633e-04	-2.392991e-04
##	1113	1.740440e+00	-1.989585e+00	6.205356e-01	9.928501e-01	-7.820723e-01
##	1114	-6.826792e-01	-3.212628e-01	-2.441105e-01	7.165697e-02	2.780227e-01
##	1115	5.353453e+00	-1.214697e+01	2.331551e+00	2.341128e+00	-9.857885e-01
##	1117	3.993115e-01	6.874781e-02	1.460925e-01	-1.812442e-02	-1.532341e-01
##	1118	1.699814e-10	-2.420198e-10	9.337675e-11	-1.129862e-11	4.736312e-11
##	1119	3.783778e-05	-3.362470e-05	1.495740e-05	6.296065e-06	-1.135911e-05
##	1121	2.730639e+00	-3.660048e+00	1.430978e+00	-7.394157e-02	5.009966e-01
##	1122	-2.440675e-01	-1.015900e+00	2.682605e-01	-6.012352e-01	1.444920e+00
##	1127	-5.577661e-01	-1.208456e+00	2.632516e-01	-8.179472e-01	1.984639e+00
##	1129	-1.477639e-06	-1.722209e-06	3.819307e-07	-1.792370e-06	4.083011e-06
##	1130	-2.014781e-02	-6.164323e-03	-7.295867e-03	1.451132e-03	7.946297e-03
##	1131	-3.058079e-02	-1.325572e-01	-4.187221e-01	3.193045e+00	-1.495933e+00
##	1132	-7.206542e-03	-1.188667e-02	2.591629e-03	-9.588333e-03	2.262538e-02
##	1134	-1.562808e-05	1.191473e-06	-1.367747e-04	1.013671e-03	-4.776249e-04
##	1135	8.379984e-04	-7.567612e-04	3.316169e-04	1.418048e-04	-2.505504e-04
##	1136	-1.148211e-01	-3.887909e-02	-4.147810e-02	9.026777e-03	4.556743e-02
##	1137	7.876434e-02	-6.866405e-01	2.070993e-01	-2.515342e-01	6.374642e-01
##	1138	1.218454e-01	-1.445864e-01	5.840489e-02	4.989704e-03	1.878046e-03
##	1141	-1.344548e-01	-4.202378e-02	-4.866783e-02	9.870894e-03	5.308324e-02
##	1142	1.688509e-03	-7.576253e-03	2.453909e-03	-2.455117e-03	6.210111e-03
##	1143	-8.288314e-01	-2.469582e+00	6.570049e-01	-1.684137e+00	3.955125e+00
##	1144	-4.132662e+00	-1.518086e+00	-1.489592e+00	3.486026e-01	1.649417e+00
##	1145	5.430896e-01	-4.905152e-01	2.149043e-01	9.194454e-02	-1.624167e-01
##	1146	2.611236e-02	-4.644007e-02	1.670619e-02	-3.256035e-03	1.617651e-02
##	1147	7.113513e-05	1.942632e-05	2.593906e-05	-4.937266e-06	-2.742842e-05
##	1148	-8.444808e-01	-9.529595e-01	4.689021e-02	-6.143680e-01	1.673461e+00

## 1150	2.543003e-03	-2.297171e-03	1.006512e-03	4.300625e-04	-7.596402e-04
## 1152	5.248625e-04	-4.739590e-04	2.076959e-04	8.882343e-05	-1.569468e-04
## 1153	3.510485e-01	-3.141839e-01	1.388326e-01	5.885624e-02	-1.052104e-01
## 1156	4.544257e-02	-4.104341e-02	1.798193e-02	7.693375e-03	-1.359008e-02
## 1157	1.573430e-02	-7.200570e-03	6.031889e-03	1.263480e-03	-5.256466e-03
## 1158	3.188692e-03	8.886416e-04	1.157194e-03	-2.125496e-04	-1.250384e-03
## 1159	-2.500701e+00	-9.281277e-01	-7.756902e-01	-9.327631e-02	1.482416e+00
## 1160	-5.055617e-02	-3.286110e-02	-1.782596e-02	7.117220e-03	2.130353e-02
## 1161	1.115437e+00	-1.276360e+00	4.488493e-01	2.425272e-01	-3.124069e-01
## 1163	-9.501573e-01	-1.212425e+00	1.082834e-01	-7.892941e-01	2.093026e+00
## 1166	1.571889e-04	4.379515e-05	5.705253e-05	-1.049379e-05	-6.160894e-05
## 1167	3.941806e-04	8.799902e-05	1.437078e-04	-2.203646e-05	-1.526529e-04
## 1168	5.455184e+00	-4.992787e+00	2.160477e+00	9.366725e-01	-1.626255e+00
## 1169	9.866125e-04	-8.910878e-04	3.904097e-04	1.670276e-04	-2.950548e-04
## 1172	2.571951e-06	-2.323236e-06	1.017768e-06	4.354281e-07	-7.690633e-07
## 1175	3.654558e-04	1.001293e-04	1.326847e-04	-2.404440e-05	-1.431284e-04
## 1176	3.860763e-03	-3.487028e-03	1.527738e-03	6.536073e-04	-1.154573e-03
## 1177	1.806909e-03	-1.631999e-03	7.149853e-04	3.060745e-04	-5.404530e-04
## 1178	2.708039e-04	-6.067523e-05	1.023986e-04	8.290145e-06	-9.414354e-05
## 1179	-1.039700e-02	-2.730286e-02	6.714316e-03	-1.838099e-02	4.382830e-02
## 1181	9.267859e-01	-1.029969e+00	4.012451e-01	1.242464e-01	-1.495444e-01
## 1182	1.225835e-03	-1.107144e-03	4.850727e-04	2.075229e-04	-3.665923e-04
## 1184	2.001183e-06	-3.773563e-07	7.521905e-07	5.328866e-08	-7.110960e-07
## 1185	8.397735e-02	2.340311e-02	3.047578e-02	-5.597487e-03	-3.293038e-02
## 1186	-1.550491e-05	-2.538271e-05	5.487880e-06	-2.046569e-05	4.834461e-05
## 1187	1.774259e-04	-1.601987e-04	7.020819e-05	3.002543e-05	-5.306139e-05
## 1188	-4.917561e-01	-1.661026e+00	4.115064e-01	-9.998294e-01	2.424757e+00
## 1189	-1.066697e+00	-1.400999e+01	-6.524107e-03	2.808751e+00	1.498172e+00
## 1190	1.683790e-01	-2.087326e-01	-7.814962e-02	1.167084e+00	-5.862331e-01
## 1191	2.001956e-05	-7.504508e-05	2.463707e-05	-2.172801e-05	5.687306e-05
## 1194	1.151765e-04	-5.304112e-05	4.437821e-05	8.790260e-06	-3.762247e-05
## 1195	1.116963e-01	-1.004817e-01	4.418987e-02	1.882491e-02	-3.342774e-02
## 1197	-1.005481e-05	3.597977e-06	-1.781300e-05	1.071230e-04	-4.820024e-05
## 1198	-1.032874e-03	-3.593244e-04	-3.679760e-03	2.555460e-02	-1.179873e-02

## 1201	5.319091e+00	-4.831944e+00	2.105572e+00	9.060602e-01	-1.588541e+00
## 1203	-9.405013e-02	-9.945958e-02	1.720296e-02	-9.945141e-02	2.327626e-01
## 1205	3.842026e-06	-2.110547e-06	1.486430e-06	3.696366e-07	-1.241229e-06
## 1206	2.931680e-01	-3.566863e-01	1.425642e-01	9.383829e-03	1.212960e-02
## 1207	3.534146e-03	-3.194996e-03	1.399615e-03	5.963663e-04	-1.052652e-03
## 1208	2.144839e-03	-1.937188e-03	8.487318e-04	3.631039e-04	-6.414195e-04
## 1211	5.270291e-01	-4.687809e-01	2.083913e-01	8.767751e-02	-1.580172e-01
## 1212	8.211298e-03	-6.049462e-03	3.211375e-03	1.117153e-03	-2.563143e-03
## 1216	1.393146e-03	-1.258426e-03	5.509168e-04	2.386965e-04	-4.179700e-04
## 1217	4.928488e-06	-4.223004e-06	1.944371e-06	7.876389e-07	-1.490075e-06
## 1218	4.086294e-05	-3.690742e-05	1.616981e-05	6.917958e-06	-1.222024e-05
## 1219	-1.356096e-03	-7.887323e-04	-4.805848e-04	1.720467e-04	5.646901e-04
## 1220	1.743182e-01	-1.762969e-01	7.409391e-02	2.206751e-02	-3.294043e-02
## 1221	-1.108531e-01	3.967317e-02	-1.963718e-01	1.180905e+00	-5.313486e-01
## 1224	-2.374826e+00	-1.265637e+00	-8.450764e-01	2.788383e-01	9.788036e-01
## 1225	-4.458018e-01	1.295896e-01	-8.653586e-01	5.344068e+00	-2.416823e+00
## 1226	-5.816058e-03	2.001741e-03	-1.050415e-02	6.354081e-02	-2.862280e-02
## 1227	7.244227e-06	-6.152231e-06	2.855746e-06	1.148438e-06	-2.197231e-06
## 1229	5.930741e-01	-5.358163e-01	2.346878e-01	1.004379e-01	-1.773528e-01
## 1230	1.391002e-01	3.876537e-02	5.048012e-02	-9.271769e-03	-5.454596e-02
## 1231	-4.037504e-02	-2.396279e-02	-1.429946e-02	5.228693e-03	1.683365e-02
## 1233	-7.021854e-07	2.470054e-07	-1.254697e-06	7.565314e-06	-3.405752e-06
## 1234	-1.377357e+00	-1.499258e+00	1.632068e-01	-1.228459e+00	3.065428e+00
## 1235	3.765914e-03	-3.438804e-03	1.502387e-03	6.178276e-04	-1.080293e-03
## 1236	-1.815226e+00	-9.817450e+00	-1.139604e+00	7.674655e+00	-1.284391e+00
## 1238	-5.254577e-05	-3.524643e-05	-5.354864e-06	-2.446498e-05	7.290691e-05
## 1242	1.858983e-03	-1.678931e-03	7.356155e-04	3.146920e-04	-5.559340e-04
## 1247	1.492543e-03	-1.348046e-03	5.906101e-04	2.526823e-04	-4.463585e-04
## 1249	-8.951358e-03	-1.450630e-02	3.124734e-03	-1.174853e-02	2.774674e-02
## 1251	6.776302e-03	-6.120319e-03	2.681429e-03	1.147222e-03	-2.026524e-03
## 1252	1.080076e+00	-1.136022e+00	4.529077e-01	2.655797e-01	-2.259756e-01
## 1253	4.498759e-01	-3.825961e-01	1.773639e-01	7.141767e-02	-1.363953e-01
## 1256	3.517618e-03	-3.177653e-03	1.392200e-03	5.950594e-04	-1.051017e-03
## 1258	-1.736414e+00	-2.104240e+00	-5.851683e-01	4.391945e-01	8.085617e-01

## 1259	2.637078e-04	-2.381349e-04	1.043509e-04	4.463390e-05	-7.886382e-05
## 1263	3.839739e-01	8.180628e-02	1.400454e-01	-2.056248e-02	-1.485847e-01
## 1264	3.880814e-04	-1.948742e-04	1.494703e-04	3.408420e-05	-1.274548e-04
## 1265	-2.732944e+00	-1.651269e+00	-9.671051e-01	3.597700e-01	1.141747e+00
## 1266	-2.232745e-02	-7.612361e-03	-8.064069e-03	1.765526e-03	8.865173e-03
## 1269	3.826629e-03	-3.456191e-03	1.514223e-03	6.478452e-04	-1.144394e-03
## 1270	1.648895e-03	-1.489260e-03	6.524799e-04	2.791508e-04	-4.931154e-04
## 1271	1.723760e-05	-1.031387e-04	9.341537e-06	2.018116e-05	2.088415e-06
## 1272	-3.406247e-01	1.220468e-01	-6.030480e-01	3.625844e+00	-1.631392e+00
## 1273	1.512529e-03	-1.366072e-03	5.985186e-04	2.560588e-04	-4.523343e-04
## 1274	5.055890e-01	-4.969981e-01	9.825827e-02	8.864456e-01	-5.280379e-01
## 1276	1.225835e-03	-1.107144e-03	4.850727e-04	2.075229e-04	-3.665923e-04
## 1282	-1.668174e+01	-4.649180e+00	-6.053875e+00	1.111967e+00	6.541497e+00
## 1283	-3.401504e-02	-3.597201e-02	6.221943e-03	-3.596876e-02	8.418366e-02
## 1284	1.802292e-01	-1.890364e-01	4.955140e-03	5.525282e-01	-2.995391e-01
## 1285	-9.877032e-02	-2.941891e-02	-3.579162e-02	6.961355e-03	3.888050e-02
## 1286	1.894116e-01	-1.730356e-01	6.986057e-02	7.209076e-02	-7.548795e-02
## 1287	-4.705761e-06	1.681121e-06	-8.343647e-06	5.018960e-05	-2.258404e-05
## 1288	-2.446403e+00	-9.559424e-01	-8.802006e-01	2.177970e-01	9.809145e-01
## 1289	-2.721142e-01	-4.687064e-01	1.031711e-01	-3.697039e-01	8.742451e-01
## 1290	-3.167134e-04	8.978458e-06	-8.243568e-04	5.445223e-03	-2.492737e-03
## 1291	-5.133158e-02	-2.238089e-02	-1.840412e-02	5.033190e-03	2.076568e-02
## 1293	4.905280e-03	-1.369927e-03	1.856273e-03	2.190586e-04	-1.707368e-03
## 1294	2.025129e-01	-1.973315e-01	8.438849e-02	2.776093e-02	-4.457215e-02
## 1296	4.618421e-01	-1.714652e+00	5.656790e-01	-5.095833e-01	1.301818e+00
## 1298	-1.010777e+00	-1.384235e+00	2.779691e-01	-1.211732e+00	2.851587e+00
## 1299	1.961299e-10	-1.974928e-10	8.358006e-11	2.423995e-11	-3.620302e-11
## 1301	-1.926832e+00	-1.287036e+00	-2.428756e-01	-7.850317e-01	2.494251e+00
## 1302	1.165413e-03	-1.052482e-03	4.612821e-04	1.969795e-04	-3.480616e-04
## 1304	3.605961e+00	-3.257067e+00	1.426940e+00	6.104466e-01	-1.078266e+00
## 1305	2.032789e-03	-1.835980e-03	8.043922e-04	3.441347e-04	-6.079130e-04
## 1306	1.680212e-04	4.784878e-06	6.216124e-05	-2.852207e-06	-6.250386e-05
## 1308	5.510928e+00	-5.017171e+00	2.181817e+00	9.409227e-01	-1.644964e+00
## 1309	6.474554e-01	-1.270968e+00	4.587362e-01	-2.012889e-01	5.679741e-01

##	1311	-5.664658e-01	-1.338909e+00	2.926475e-01	-8.625958e-01	2.109961e+00
##	1312	-1.615145e-04	-1.937155e-04	3.563876e-05	-1.763739e-04	4.226857e-04
##	1315	1.168811e-03	-1.055450e-03	4.625114e-04	1.978091e-04	-3.495193e-04
##	1317	-5.850868e+00	-5.539798e+00	-2.014787e+00	1.170388e+00	2.602270e+00
##	1318	-9.922021e-08	3.164103e-08	-1.854769e-07	1.133414e-06	-5.115387e-07
##	1320	1.815572e-03	-1.639799e-03	7.184357e-04	3.073667e-04	-5.429591e-04
##	1321	-8.168716e-08	2.541020e-08	-1.543102e-07	9.457874e-07	-4.270997e-07
##	1323	9.620193e+00	-9.421576e+00	3.919534e+00	1.549360e+00	-2.462924e+00
##	1324	-1.086919e-01	-1.149442e-01	1.987987e-02	-1.149308e-01	2.689942e-01
##	1325	1.242981e-02	-8.400387e-01	2.494830e-01	-3.732591e-01	9.159303e-01
##	1326	2.613452e-01	4.293695e-02	9.567314e-02	-1.145143e-02	-1.001280e-01
##	1327	6.458224e-04	1.799819e-04	2.343721e-04	-4.304775e-05	-2.532486e-04
##	1328	4.995882e-03	-1.672497e-03	1.898223e-03	2.785341e-04	-1.717188e-03
##	1329	-6.643563e-02	-6.184302e+00	1.471511e-01	1.235058e+00	5.121291e-01
##	1330	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
##	1331	-6.473319e-02	-3.053337e-01	-1.551178e-02	6.165488e-02	4.803407e-02
##	1332	9.080496e-04	-8.201071e-04	3.593223e-04	1.537197e-04	-2.715573e-04
##	1334	1.551818e-03	-1.401640e-03	6.139501e-04	2.636268e-04	-4.645131e-04
##	1335	5.569421e-01	-5.030518e-01	2.203865e-01	9.429471e-02	-1.665573e-01
##	1340	5.744921e-01	-6.598754e-01	2.689409e-01	3.339148e-02	-1.533743e-02
##	1341	1.748077e-01	-1.576688e-01	6.861456e-02	3.380361e-02	-5.433326e-02
##	1343	1.891955e-05	-4.843018e-08	7.013677e-06	-1.987765e-07	-6.999970e-06
##	1347	1.630329e-04	-1.471908e-04	6.451269e-05	2.758669e-05	-4.875707e-05
##	1348	1.401747e-01	-1.865983e-01	-1.093275e-01	1.317873e+00	-6.517828e-01
##	1350	-4.437016e-08	1.220393e-08	-8.783471e-08	5.453399e-07	-2.468602e-07
##	1352	1.099620e+00	-3.025769e+00	1.032672e+00	-7.289407e-01	1.917911e+00
##	1354	4.029225e-01	8.320312e-02	1.470297e-01	-2.105011e-02	-1.557092e-01
##	1355	-8.888802e-01	-1.355843e+00	2.449248e-01	-1.029722e+00	2.505619e+00
##	1356	-1.213232e-02	-1.282814e-02	2.217064e-03	-1.282451e-02	3.001801e-02
##	1357	1.153071e-03	-1.041440e-03	4.562788e-04	1.952101e-04	-3.448348e-04
##	1358	4.469570e-04	-4.035950e-04	1.768670e-04	7.563675e-05	-1.336527e-04
##	1359	-8.306576e-03	-2.175771e-01	2.966732e-03	4.351269e-02	2.023553e-02
##	1360	8.063964e-02	-3.710572e-01	1.199077e-01	-1.214081e-01	3.067870e-01
##	1363	2.377372e-03	-2.147092e-03	9.407583e-04	4.024117e-04	-7.109132e-04

## 1364	-3.505758e-04	-1.286558e-03	3.364971e-04	-7.906870e-04	1.892052e-03
## 1368	4.237982e-04	-4.581480e-04	1.999479e-04	1.318607e-05	-4.518416e-06
## 1369	4.962647e-05	1.378705e-05	1.802228e-05	-3.327073e-06	-1.941288e-05
## 1370	1.513300e-01	-1.366144e-01	5.963205e-02	2.752048e-02	-4.617922e-02
## 1372	1.538231e-01	-1.378355e-01	6.036872e-02	2.944118e-02	-4.782301e-02
## 1374	7.648157e-04	-6.907204e-04	3.026461e-04	1.294595e-04	-2.287120e-04
## 1375	3.495816e-04	9.742274e-05	1.268655e-04	-2.330288e-05	-1.370803e-04
## 1376	3.777837e-03	-3.413207e-03	1.495334e-03	6.388547e-04	-1.128221e-03
## 1377	-2.424512e-01	-1.063445e-01	-8.691003e-02	2.390112e-02	9.812872e-02
## 1378	-2.816516e-01	-7.849220e-02	-1.022136e-01	1.878035e-02	1.104420e-01
## 1379	1.188615e-04	-1.195921e-06	4.409108e-05	-1.078390e-06	-4.389489e-05
## 1383	8.786443e-01	-1.259917e+00	3.598995e-01	2.476092e-01	-2.287300e-01
## 1384	1.956142e-03	-1.766750e-03	7.740658e-04	3.311491e-04	-5.849773e-04
## 1385	-2.852180e-01	-2.726670e-01	-9.814538e-02	5.757848e-02	1.270568e-01
## 1386	4.449035e-02	-5.201015e-01	1.575313e-01	-2.057010e-01	5.127042e-01
## 1387	9.181652e+00	-8.308913e+00	3.637904e+00	1.547372e+00	-2.728351e+00
## 1388	-4.385051e-01	-1.279253e+00	3.053232e-01	-7.951284e-01	1.930269e+00
## 1389	-1.325706e-02	-3.810454e-03	-4.807729e-03	9.065324e-04	5.208083e-03
## 1390	-5.196900e-03	-5.495878e-03	9.505923e-04	-5.495371e-03	1.286174e-02
## 1391	-1.869701e+00	-1.812494e+00	-2.468659e-02	3.886493e-01	3.265203e+00
## 1393	6.893106e+00	-7.943636e+00	3.217899e+00	4.296295e-01	-2.195394e-01
## 1395	9.827769e-03	-3.307749e-01	9.174532e-02	-1.267204e-01	3.267486e-01
## 1397	1.969331e-03	-1.778645e-03	7.792815e-04	3.333855e-04	-5.889340e-04
## 1399	-3.190606e-06	1.140935e-06	-5.654427e-06	3.400802e-05	-1.530230e-05
## 1400	5.712527e+00	-5.164828e+00	2.260635e+00	9.681820e-01	-1.707969e+00
## 1403	1.728534e-01	-1.562077e-01	6.681714e-02	4.148660e-02	-5.753709e-02
## 1404	3.771451e-03	-3.406356e-03	1.492391e-03	6.384992e-04	-1.127884e-03
## 1405	1.105919e-02	-1.552371e-02	4.533207e-03	2.969091e-03	-2.858416e-03
## 1406	1.736487e-01	-1.568074e-01	6.871313e-02	2.939235e-02	-5.193390e-02
## 1408	-5.571772e-01	-1.378570e+00	3.138508e-01	-8.954466e-01	2.173888e+00
## 1409	-7.842174e-01	-1.476200e+00	3.121563e-01	-1.068113e+00	2.573138e+00
## 1410	1.699641e+00	-1.535214e+00	6.725628e-01	2.877686e-01	-5.082858e-01
## 1412	4.045281e-01	-1.753853e+00	5.698458e-01	-5.604946e-01	1.419910e+00
## 1413	5.437618e-06	-4.017459e-06	2.126897e-06	7.421494e-07	-1.696562e-06

## 1414	6.802022e-01	-7.836852e-01	3.191330e-01	3.845290e-02	-1.550761e-02
## 1415	-1.400780e+01	-6.778120e+00	-5.003712e+00	1.507511e+00	5.719334e+00
## 1417	-2.005259e+01	-8.744717e+00	-7.189567e+00	1.966728e+00	8.111906e+00
## 1418	-4.472941e-01	-1.771574e+00	4.650403e-01	-1.061208e+00	2.548061e+00
## 1420	-1.985080e-01	-1.031839e-01	-7.071055e-02	2.278566e-02	8.161315e-02
## 1421	5.455977e-01	1.519196e-01	1.980036e-01	-3.634081e-02	-2.139372e-01
## 1422	-6.413868e-01	-1.688170e+00	3.686910e-01	-1.021786e+00	2.528137e+00
## 1423	1.285507e-02	-9.750510e-03	5.035255e-03	1.804888e-03	-3.990764e-03
## 1424	3.138385e-03	-2.834573e-03	1.241880e-03	5.313263e-04	-9.385668e-04
## 1425	3.227929e+00	-1.214220e+01	1.533581e+00	2.388829e+00	-2.379948e-01
## 1426	1.075732e+00	-1.198070e+00	4.881650e-01	9.013922e-02	-8.713915e-02
## 1427	-1.714795e+00	-1.941619e+00	3.003171e-01	-1.502725e+00	4.196440e+00
## 1429	1.492543e-03	-1.348046e-03	5.906101e-04	2.526823e-04	-4.463585e-04
## 1430	-1.647116e-02	1.487601e-02	-6.517651e-03	-2.788621e-03	4.926235e-03
## 1431	-1.569728e-03	-3.546966e-03	-4.833241e-04	7.253340e-04	8.605581e-04
## 1432	-1.954608e+00	-1.161980e+00	-6.922038e-01	2.535131e-01	8.150832e-01
## 1434	7.387599e-04	-6.672148e-04	2.923332e-04	1.250617e-04	-2.209300e-04
## 1436	6.545465e-04	-4.382752e-04	2.555236e-04	7.843484e-05	-2.048643e-04
## 1437	-1.746668e-04	-1.928617e-04	3.477525e-05	-1.894185e-04	4.429480e-04
## 1438	9.410503e-04	-8.581382e-04	3.507555e-04	3.292692e-04	-3.614646e-04
## 1439	3.289513e-01	-1.387132e+00	4.518799e-01	-4.381421e-01	1.111378e+00
## 1443	2.130228e-03	-1.924002e-03	8.429955e-04	3.605220e-04	-6.368747e-04
## 1445	4.208688e-03	-3.084744e-03	1.645520e-03	5.694789e-04	-1.315079e-03
## 1446	-2.100958e-02	5.336254e-03	-4.272816e-02	2.671600e-01	-1.211017e-01
## 1447	-3.585964e-01	-1.427370e+00	3.749123e-01	-8.539668e-01	2.050639e+00
## 1449	-1.250035e+01	-1.016590e+01	-4.350947e+00	2.167201e+00	5.428162e+00
## 1450	4.134082e+00	-4.091787e+00	1.659113e+00	7.388980e-01	-1.156889e+00
## 1452	1.976644e-02	-1.489687e-01	-3.230661e-01	2.606220e+00	-1.230687e+00
## 1454	-2.212412e-02	-5.144009e-02	1.232260e-02	-3.609737e-02	8.587455e-02
## 1455	-2.913732e-03	-3.113251e-03	5.423796e-04	-3.095517e-03	7.246557e-03
## 1456	2.023186e-03	-1.827334e-03	8.005809e-04	3.425848e-04	-6.050835e-04
## 1457	5.247306e-04	-4.507131e-04	2.149859e-04	6.469484e-05	-1.279406e-04
## 1458	1.546781e-01	-1.397035e-01	6.064338e-02	3.052925e-02	-4.833964e-02
## 1459	3.114578e-03	-2.814011e-03	1.232826e-03	5.266542e-04	-9.300634e-04

## 1462	1.076388e-01	-6.785224e-02	4.164568e-02	1.338268e-02	-3.499299e-02
## 1463	-5.063954e-01	-1.481839e+00	3.569077e-01	-9.275507e-01	2.245625e+00
## 1464	5.270174e-04	-4.727787e-04	2.084550e-04	8.858065e-05	-1.578637e-04
## 1465	7.058435e-01	-5.437645e-01	2.767540e-01	1.006921e-01	-2.182833e-01
## 1466	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
## 1468	-5.121221e-01	-1.772532e+00	4.304512e-01	-1.034459e+00	2.531306e+00
## 1470	-2.798376e+00	-7.904182e-01	-1.015251e+00	1.886317e-01	1.098171e+00
## 1472	-6.140548e-01	-1.493337e+00	3.447258e-01	-9.909569e-01	2.392050e+00
## 1474	-4.361609e-08	1.195973e-08	-8.642754e-08	5.367498e-07	-2.429815e-07
## 1475	2.554603e-03	-2.318324e-03	1.015104e-03	4.251139e-04	-7.479812e-04
## 1477	1.711234e-03	-1.558105e-03	6.824579e-04	2.800970e-04	-4.916378e-04
## 1478	8.815794e-01	-8.899333e-01	3.765021e-01	1.067982e-01	-1.596522e-01
## 1479	2.139142e-05	-1.932094e-05	8.464828e-06	3.621400e-06	-6.396962e-06
## 1480	3.985674e-04	-3.599548e-04	1.577159e-04	6.746921e-05	-1.191947e-04
## 1481	-3.092366e+00	-1.460110e+00	-1.105628e+00	3.255682e-01	1.259744e+00
## 1482	2.768817e-01	-2.500781e-01	1.095640e-01	4.687585e-02	-8.280439e-02
## 1483	1.398394e-03	-1.262993e-03	5.533589e-04	2.367277e-04	-4.181854e-04
## 1484	4.125301e+00	-6.013076e+00	2.306725e+00	-3.360338e-01	1.301894e+00
## 1485	5.486147e-01	-4.955054e-01	2.170906e-01	9.287985e-02	-1.640689e-01
## 1486	-1.524569e-02	5.389140e-03	-2.717649e-02	1.637429e-01	-7.370358e-02
## 1487	-7.550345e-01	1.600513e-01	-1.615528e+00	1.023026e+01	-4.648151e+00
## 1489	1.199481e+00	-1.187010e+00	5.050485e-01	1.565648e-01	-2.443985e-01
## 1494	1.575191e+00	-4.016559e+00	1.387122e+00	-9.041985e-01	2.400955e+00
## 1496	2.741923e-04	-2.475822e-04	1.085000e-04	4.640211e-05	-8.199730e-05
## 1498	1.803703e-03	-1.631692e-03	7.148533e-04	3.033363e-04	-5.351871e-04
## 1500	9.881499e+00	-9.690093e+00	4.034023e+00	1.575222e+00	-2.499228e+00
## 1501	-7.116537e-01	-1.529154e+00	3.422940e-01	-1.062669e+00	2.557283e+00
## 1503	2.090770e-03	-1.888323e-03	8.273372e-04	3.539397e-04	-6.252451e-04
## 1504	2.104867e-01	-2.106027e-01	3.155538e-02	4.426032e-01	-2.544466e-01
## 1505	1.088929e-04	-9.618403e-05	4.319652e-05	1.759511e-05	-3.209226e-05
## 1507	-1.587162e-03	4.727849e-04	-3.051883e-03	1.879806e-02	-8.497122e-03
## 1508	1.827226e-01	-2.596803e-01	9.758626e-02	-5.470120e-03	4.016931e-02
## 1509	-8.456581e-01	2.145478e-01	-1.720441e+00	1.075810e+01	-4.876645e+00
## 1510	1.874541e-01	-1.685400e-01	7.060948e-02	5.889642e-02	-6.921302e-02

## 1511	-6.664420e-01	-3.805847e-01	-2.364465e-01	8.332270e-02	2.766813e-01
## 1513	1.137905e+00	-2.196210e+00	7.949755e-01	-3.363257e-01	9.558771e-01
## 1517	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
## 1518	-1.299003e-01	-1.376759e-01	2.365307e-02	-1.360839e-01	3.210939e-01
## 1519	-1.386978e-01	-2.758056e-01	-4.374905e-02	5.658332e-02	7.307585e-02
## 1520	1.050369e+01	-9.519571e+00	4.074072e+00	2.425777e+00	-3.445910e+00
## 1521	-1.277560e-01	-3.256765e-01	7.889399e-02	-2.162751e-01	5.250150e-01
## 1522	-8.265529e+00	-4.542421e+00	-2.937450e+00	9.979054e-01	3.417550e+00
## 1523	1.605494e-04	-1.322226e-04	6.324632e-05	2.445606e-05	-4.874842e-05
## 1525	-2.536272e-01	9.085834e-02	-4.490688e-01	2.700119e+00	-1.214883e+00
## 1526	-3.046437e-03	-8.490045e-04	-1.105564e-03	2.030571e-04	1.194620e-03
## 1527	1.160891e-03	-8.703041e-04	4.557936e-04	1.576233e-04	-3.559389e-04
## 1528	4.502732e-04	-4.066571e-04	1.781763e-04	7.622330e-05	-1.346577e-04
## 1529	5.151342e-01	-4.653455e-01	2.038795e-01	8.714169e-02	-1.539144e-01
## 1531	-1.354464e+00	-1.741445e+00	-4.536730e-01	3.625600e-01	6.385933e-01
## 1532	1.363811e-03	-1.231765e-03	5.396709e-04	2.308825e-04	-4.078553e-04
## 1535	1.482628e-03	-1.339009e-03	5.866958e-04	2.509595e-04	-4.433561e-04
## 1536	-2.307592e-02	-2.271406e-02	-7.921798e-03	4.787388e-03	1.033362e-02
## 1537	-3.475480e-01	-1.130405e-01	-1.256775e-01	2.639642e-02	1.375606e-01
## 1538	1.872047e-03	-1.690822e-03	7.407827e-04	3.169339e-04	-5.598523e-04
## 1539	-6.481265e-02	-2.779310e-01	7.346813e-02	-1.620865e-01	3.921001e-01
## 1540	-3.464880e-02	-1.102327e-02	-1.253620e-02	2.582294e-03	1.369491e-02
## 1542	-7.329413e-01	-7.759833e-01	1.343239e-01	-7.754226e-01	1.814916e+00
## 1543	6.545465e-04	-4.382752e-04	2.555236e-04	7.843484e-05	-2.048643e-04
## 1544	5.506452e+00	-5.007280e+00	2.179882e+00	9.390008e-01	-1.644092e+00
## 1548	-5.241059e-01	-1.024761e+00	2.052986e-01	-6.955205e-01	1.705787e+00
## 1551	2.336393e+00	-3.986530e+00	1.478238e+00	-4.543489e-01	1.383432e+00
## 1553	-7.854793e-01	-1.372559e+00	2.708566e-01	-9.961412e-01	2.419080e+00
## 1556	5.554896e-01	6.666288e-02	2.040362e-01	-1.942886e-02	-2.108851e-01
## 1558	1.639617e-04	4.552892e-05	5.951462e-05	-1.091448e-05	-6.425277e-05
## 1559	-2.478724e-01	2.297736e-02	-6.049357e-01	3.945113e+00	-1.801972e+00
## 1560	-1.493707e-02	-1.535411e-02	2.601655e-03	-1.559451e-02	3.647660e-02
## 1561	1.971932e-01	-1.868809e-01	5.583169e-02	2.080032e-01	-1.411413e-01
## 1562	6.299049e-02	-1.489483e-01	2.749451e-02	2.900879e-02	-1.153527e-02

## 1563	-1.145714e-04	4.105964e-05	-2.028180e-04	1.219410e-03	-5.486509e-04
## 1565	2.598057e-04	-2.339608e-04	1.028624e-04	4.366382e-05	-7.746407e-05
## 1566	2.025265e-04	-1.810626e-04	8.038267e-05	3.320112e-05	-5.958377e-05
## 1568	-3.172369e+00	-2.822813e+00	-1.097448e+00	5.984764e-01	1.396717e+00
## 1569	-1.455027e-04	-1.459748e-04	2.056729e-05	-1.412097e-04	3.370064e-04
## 1570	-1.076041e+00	-1.796803e+00	3.912648e-01	-1.436251e+00	3.394248e+00
## 1571	-3.578360e+00	-2.365252e+00	-1.260628e+00	5.116128e-01	1.510958e+00
## 1572	-1.646557e-02	1.487048e-02	-6.515440e-03	-2.787543e-03	4.924546e-03
## 1573	-1.341194e+01	-3.737730e+00	-4.867255e+00	8.939776e-01	5.259281e+00
## 1574	-1.467209e+01	-5.766478e+00	-5.278006e+00	1.312878e+00	5.885552e+00
## 1575	-8.223668e-02	-7.825461e-01	2.179691e-01	-3.963114e-01	9.663792e-01
## 1577	5.893743e-02	-1.681019e-02	2.231109e-02	2.706699e-03	-2.049409e-02
## 1578	6.174573e-01	5.421175e-02	2.273494e-01	-1.762581e-02	-2.328442e-01
## 1579	-7.223105e-01	-1.316309e+00	2.658078e-01	-9.424032e-01	2.287534e+00
## 1580	2.046248e-02	-2.160788e-02	8.389090e-03	3.587583e-03	-5.082124e-03
## 1581	-3.659189e-02	-3.869655e-02	6.693126e-03	-3.869336e-02	9.056047e-02
## 1582	4.788316e-02	1.262221e-02	1.787314e-02	-4.209589e-03	-1.688392e-02
## 1584	1.698780e-01	-1.534351e-01	6.722252e-02	2.875921e-02	-5.080135e-02
## 1585	5.536557e+00	-5.047365e+00	2.192152e+00	9.466721e-01	-1.652080e+00
## 1586	1.434340e-01	-1.307391e+00	3.621634e-01	-4.062658e-01	1.101498e+00
## 1587	3.509814e-04	-3.130468e-04	1.394168e-04	5.706627e-05	-1.028049e-04
## 1588	6.082307e-02	-1.614107e-01	-2.447262e-01	2.124708e+00	-1.013126e+00
## 1590	2.817158e-04	-2.821978e-05	1.053624e-04	2.129221e-06	-1.014321e-04
## 1591	5.916297e-01	-4.970222e-01	2.330960e-01	9.279254e-02	-1.797911e-01
## 1592	1.866842e-03	-1.686121e-03	7.387230e-04	3.160529e-04	-5.582960e-04
## 1593	2.691519e-04	-2.430500e-04	1.065052e-04	4.555497e-05	-8.049174e-05
## 1595	1.256274e-04	-1.131317e-04	4.971351e-05	2.117462e-05	-3.755349e-05
## 1596	5.701893e-01	1.588993e-01	2.069245e-01	-3.800518e-02	-2.235904e-01
## 1597	-5.557436e-01	-1.864603e+00	4.528017e-01	-1.103383e+00	2.693385e+00
## 1598	-4.639754e-01	-1.611153e+00	4.155361e-01	-9.981637e-01	2.391717e+00
## 1599	-1.109148e+00	-1.872890e+00	4.094351e-01	-1.489828e+00	3.521738e+00
## 1600	-2.840295e-03	9.254837e-04	-5.261123e-03	3.206389e-02	-1.446436e-02
## 1601	-3.126555e+00	-1.590886e+00	-1.114669e+00	3.520527e-01	1.282700e+00
## 1602	-3.571494e-01	-1.042393e-01	-1.294805e-01	2.474537e-02	1.404214e-01

##	1604	-8.293032e-03	-8.782826e-03	1.520680e-03	-8.775100e-03	2.053845e-02
##	1605	7.416823e-02	-6.695141e-02	2.934767e-02	1.255076e-02	-2.218438e-02
##	1606	8.986779e-04	-8.114645e-04	3.556389e-04	1.520242e-04	-2.686529e-04
##	1607	1.417828e-01	-1.247555e+00	3.865150e-01	-4.831831e-01	1.200064e+00
##	1608	1.356273e+00	-7.506792e-01	5.235227e-01	1.349253e-01	-4.429589e-01
##	1609	1.044201e-02	-5.151769e-04	3.884518e-03	-1.219275e-05	-3.824931e-03
##	1610	-4.215114e-06	1.505150e-06	-7.475451e-06	4.497037e-05	-2.023581e-05
##	1611	1.626292e-01	-1.218889e-01	6.352675e-02	2.356685e-02	-5.109550e-02
##	1612	-2.361755e-02	-1.464821e-02	-8.347003e-03	3.184512e-03	9.896649e-03
##	1614	2.682792e-03	-2.423150e-03	1.061674e-03	4.540291e-04	-8.020296e-04
##	1616	4.251752e-01	1.128975e-01	1.544533e-01	-2.722355e-02	-1.662853e-01
##	1617	3.656788e-04	-3.302156e-04	1.447024e-04	6.189024e-05	-1.093553e-04
##	1618	-2.298057e+01	-6.700080e+00	-8.331549e+00	1.590812e+00	9.034756e+00
##	1619	6.240860e-01	-5.189055e-01	2.456557e-01	9.745955e-02	-1.903659e-01
##	1621	-6.541304e-01	-1.561364e+00	3.762927e-01	-1.085637e+00	2.583968e+00
##	1622	-5.149137e-01	-1.572208e+00	3.974627e-01	-1.009980e+00	2.414785e+00
##	1623	1.453096e-02	-1.312429e-02	5.750002e-03	2.460080e-03	-4.345637e-03
##	1625	-8.618046e-01	-9.113731e-01	1.576352e-01	-9.112983e-01	2.132862e+00
##	1627	-1.654306e-02	1.494109e-02	-6.546132e-03	-2.800765e-03	4.947640e-03
##	1629	4.317136e-01	-3.767981e-01	1.704740e-01	7.045362e-02	-1.301180e-01
##	1630	-2.535103e-01	-7.066409e-01	1.551924e-01	-4.164395e-01	1.034644e+00
##	1631	-2.964457e-02	7.871256e-03	-5.942599e-02	3.701706e-01	-1.676784e-01
##	1632	7.517695e-05	-6.674206e-05	2.972896e-05	1.246449e-05	-2.252329e-05
##	1634	-6.750323e-01	-1.205294e+00	2.449956e-01	-8.790323e-01	2.125343e+00
##	1635	4.240731e-04	-3.829965e-04	1.678087e-04	7.178875e-05	-1.268228e-04
##	1636	-3.793377e-03	-7.128766e-02	2.041643e-02	-3.354005e-02	8.355902e-02
##	1637	-1.054852e+01	-7.041632e+00	-3.714251e+00	1.522003e+00	4.459508e+00
##	1639	5.353875e+00	-4.959169e+00	2.121996e+00	9.310745e-01	-1.591395e+00
##	1640	-7.323222e-05	-6.911732e-05	6.788004e-06	-6.353659e-05	1.559981e-04
##	1641	-3.505213e+00	-1.574629e+00	-1.255466e+00	3.529786e-01	1.421595e+00
##	1643	1.746814e-03	-1.577708e-03	6.912272e-04	2.957307e-04	-5.223996e-04
##	1644	-2.031081e+01	-8.140090e+00	-7.302057e+00	1.848871e+00	8.159869e+00
##	1645	1.587172e-01	-1.458080e-01	6.353009e-02	2.575870e-02	-4.474125e-02
##	1646	-8.018418e-01	-1.032694e+00	1.007467e-01	-6.864043e-01	1.802161e+00

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## 1650 1.613684e-01 -2.263854e-01 -1.395547e-01 1.627418e+00 -8.011756e-01
## 1651 -5.427024e-01 -5.739100e-01 9.926191e-02 -5.738587e-01 1.343102e+00
## 1652 1.146587e-03 -1.035465e-03 4.537803e-04 1.939166e-04 -3.426335e-04
## 1654 -8.248515e-01 2.009955e-01 -1.698976e+00 1.065754e+01 -4.833891e+00
## 1656 -2.181421e+01 -3.867565e+00 -1.292013e+01 3.908030e+01 -9.867317e+00
## 1657 2.422121e-03 -1.100906e-03 9.283257e-04 1.930111e-04 -8.097970e-04
## 1658 8.101409e-04 -7.317039e-04 3.205790e-04 1.371517e-04 -2.422784e-04
## 1659 1.347861e-01 2.471828e-02 4.927101e-02 -6.419833e-03 -5.184272e-02
## 1661 9.107457e-04 -8.225079e-04 3.603878e-04 1.541702e-04 -2.723679e-04
## 1662 -7.222626e-01 1.938048e-01 -1.442746e+00 8.978643e+00 -4.066403e+00
## 1663 -1.747129e-02 -5.721817e-03 -6.223752e-03 1.107907e-03 7.276843e-03
## 1665 1.098704e-03 -9.924599e-04 4.351634e-04 1.850673e-04 -3.270443e-04
## 1668 -4.044849e-07 1.404890e-07 -7.272718e-07 4.393463e-06 -1.978570e-06
## 1669 -6.084048e-04 -2.911351e-04 -2.173461e-04 6.464922e-05 2.484305e-04
## 1670 -1.376324e-03 -1.248768e-03 -5.849698e-05 4.336295e-04 2.252741e-03
## 1671 7.675494e-04 -6.932150e-04 3.037256e-04 1.299346e-04 -2.295389e-04
## 1673 2.315176e+00 -2.100279e+00 9.163870e-01 3.937988e-01 -6.916507e-01
## 1674 -3.698827e-01 1.325345e-01 -6.548353e-01 3.937195e+00 -1.771478e+00
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## 1677 -1.057935e-02 2.250588e-03 -2.261608e-02 1.431841e-01 -6.505359e-02
## 1679 -3.783970e-02 -1.145361e-02 -1.370695e-02 2.703415e-03 1.490995e-02
## 1680 3.652150e-02 3.819497e-03 1.343030e-02 -1.164910e-03 -1.382059e-02
## 1683 -1.003916e-05 -1.160680e-05 2.197970e-06 -1.123379e-05 2.621239e-05
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## 1687 1.051178e-01 2.927622e-02 3.814826e-02 -7.002926e-03 -4.121881e-02
## 1689 -7.663938e+00 -3.010125e+00 -2.757011e+00 6.853792e-01 3.074157e+00
## 1690 2.129555e-03 -1.923276e-03 8.426873e-04 3.604789e-04 -6.368317e-04
## 1691 6.993273e-01 -1.307037e+00 4.760561e-01 -1.875635e-01 5.404024e-01
## 1692 2.880145e-01 -1.200852e+00 3.915916e-01 -3.773742e-01 9.578267e-01
## 1693 -2.666905e-03 8.672321e-04 -4.944372e-03 3.014129e-02 -1.359773e-02
## 1694 1.036002e-01 -9.355472e-02 4.099129e-02 1.756381e-02 -3.099717e-02
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## 1696 -1.028707e-06 3.638758e-07 -1.833087e-06 1.104348e-05 -4.970748e-06
## 1697 -7.010972e-05 -6.253155e-05 4.020298e-06 -5.575100e-05 1.398929e-04

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##	1699	3.816619e-04	9.632018e-05	1.388213e-04	-2.352161e-05	-1.487343e-04
##	1701	-1.415831e-01	-7.925400e-02	-5.027654e-02	1.738215e-02	5.865399e-02
##	1704	1.384996e-03	-1.250895e-03	5.480528e-04	2.344710e-04	-4.141959e-04
##	1705	-2.980288e-02	8.374802e-04	-7.261229e-02	4.764330e-01	-2.161851e-01
##	1706	3.133640e-03	-2.830320e-03	1.240075e-03	5.303549e-04	-9.368699e-04
##	1707	5.048459e+00	-4.560545e+00	1.997733e+00	8.548576e-01	-1.509727e+00
##	1708	1.379611e-01	-1.806129e-01	-8.682285e-02	1.135763e+00	-5.647032e-01
##	1710	1.465184e-03	-1.323333e-03	5.797843e-04	2.480489e-04	-4.381753e-04
##	1711	-1.444133e-01	-7.474465e-02	-5.145070e-02	1.651311e-02	5.934653e-02
##	1713	2.621906e-01	-3.615020e-01	1.056199e-01	8.157090e-02	-7.446616e-02
##	1716	4.516050e-01	1.258400e-01	1.638900e-01	-3.009862e-02	-1.770885e-01
##	1717	-2.521017e+00	-3.068659e-01	-2.819309e+00	1.701790e+01	-5.960194e+00
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##	1719	-1.003823e+00	-1.133646e+00	1.201247e-01	-8.872247e-01	2.237483e+00
##	1720	-6.680884e+00	-4.269577e+00	-2.357694e+00	9.259834e-01	2.809435e+00
##	1722	-6.010842e-01	-1.425883e+00	3.431546e-01	-9.935659e-01	2.364559e+00
##	1723	8.180709e-04	-7.386602e-04	3.237792e-04	1.382871e-04	-2.444039e-04
##	1724	5.572330e-01	-1.009011e+00	3.676642e-01	-1.296604e-01	3.865413e-01
##	1725	2.950290e-03	-2.664704e-03	1.167484e-03	4.994044e-04	-8.821862e-04
##	1726	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
##	1727	2.967587e-01	-3.740453e-01	1.451698e-01	1.087426e-02	1.522521e-02
##	1728	3.274872e+00	-2.964303e+00	1.296069e+00	5.557217e-01	-9.788756e-01
##	1729	-1.113530e-04	-9.998680e-05	-3.774279e-05	1.944183e-05	5.200584e-05
##	1730	-2.583911e-01	9.256661e-02	-4.574995e-01	2.750802e+00	-1.237687e+00
##	1732	3.056862e-03	-2.761914e-03	1.209939e-03	5.170080e-04	-9.129876e-04
##	1733	2.709785e-06	-1.812112e-06	1.054647e-06	3.319208e-07	-8.604239e-07
##	1735	1.266341e-03	-2.217913e-02	1.085875e-03	4.411628e-03	1.281519e-03
##	1737	1.646359e-03	-1.486965e-03	6.514769e-04	2.787188e-04	-4.923543e-04
##	1738	4.015873e-02	-3.627104e-02	1.589108e-02	6.798819e-03	-1.200990e-02
##	1739	4.857205e-03	-1.430157e-03	1.840026e-03	2.318576e-04	-1.685215e-03
##	1740	4.831269e-01	1.346364e-01	1.753292e-01	-3.220207e-02	-1.894503e-01
##	1741	3.861591e-03	-3.515292e-03	1.536914e-03	6.395074e-04	-1.121479e-03
##	1743	-8.366498e-01	-8.850933e-01	1.531197e-01	-8.847778e-01	2.070929e+00

##	1745	1.908135e-04	-2.060935e-04	-9.645883e-06	7.021429e-04	-3.722540e-04
##	1746	8.480811e-01	-7.599140e-01	3.348058e-01	1.471231e-01	-2.563845e-01
##	1748	1.561986e-04	4.353042e-05	5.668525e-05	-1.041155e-05	-6.125070e-05
##	1749	-8.225548e-01	-2.611806e+00	6.642659e-01	-1.658223e+00	3.967809e+00
##	1750	1.569391e-03	-1.417454e-03	6.210195e-04	2.656918e-04	-4.693400e-04
##	1751	8.661145e-01	-1.420506e+00	5.309247e-01	-1.420976e-01	4.486542e-01
##	1752	3.282958e-10	-3.202200e-10	1.368069e-10	4.554540e-11	-7.223633e-11
##	1753	-2.244765e-02	-9.481635e-03	-1.555991e-02	9.407377e-02	-1.758075e-02
##	1754	2.717772e+00	-4.571801e+00	1.133856e+00	8.860739e-01	-6.473059e-01
##	1755	9.420515e-01	-8.509580e-01	3.727792e-01	1.595087e-01	-2.817220e-01
##	1756	1.129089e-04	-1.019657e-04	4.467954e-05	1.911021e-05	-3.376357e-05
##	1758	2.031800e-01	-1.900995e-01	6.369322e-02	1.658052e-01	-1.226012e-01
##	1759	2.248126e-03	-9.569837e-04	8.598520e-04	1.661710e-04	-7.566827e-04
##	1760	-3.394430e-01	-1.240609e-02	-9.394473e-01	6.275908e+00	-2.878650e+00
##	1761	3.364702e-01	-4.278892e-01	1.697377e-01	7.921843e-04	3.698239e-02
##	1762	-4.982356e+00	-7.619611e-01	-5.355526e+00	3.233459e+01	-1.097472e+01
##	1763	8.814224e+00	-9.160192e+00	3.524069e+00	1.727408e+00	-2.530132e+00
##	1764	-2.216076e-02	-2.345466e-02	4.059119e-03	-2.344205e-02	5.486635e-02
##	1765	4.458269e-03	-4.054941e-03	1.771443e-03	7.445780e-04	-1.306037e-03
##	1767	2.601664e-01	-2.349805e-01	1.029496e-01	4.404589e-02	-7.780550e-02
##	1770	2.488291e-01	-4.274654e-01	1.582891e-01	-4.969993e-02	1.505514e-01
##	1771	-1.018939e+00	-1.251421e+00	1.780354e-01	-1.010602e+00	2.484668e+00
##	1772	-5.845074e-07	2.048898e-07	-1.046238e-06	6.311724e-06	-2.841701e-06
##	1774	-5.369140e-02	-5.355151e-02	5.191150e-03	-2.882544e-02	1.156642e-01
##	1775	8.381348e-03	-1.916857e-01	8.433711e-03	3.815890e-02	1.202033e-02
##	1777	-3.346421e-01	-4.790838e-01	9.527260e-02	-3.897962e-01	9.564367e-01
##	1778	-6.664420e-01	-3.805847e-01	-2.364465e-01	8.332270e-02	2.766813e-01
##	1779	-5.850868e+00	-5.539798e+00	-2.014787e+00	1.170388e+00	2.602270e+00
##	1780	6.001079e-03	-1.782127e-03	2.273698e-03	2.896729e-04	-2.081181e-03
##	1781	-1.450255e-01	-5.682546e-02	-5.217266e-02	1.293690e-02	5.817070e-02
##	1783	2.268390e-03	-2.048792e-03	8.976218e-04	3.840245e-04	-6.783692e-04
##	1784	8.701574e-04	-7.858017e-04	3.443455e-04	1.472404e-04	-2.601561e-04
##	1785	3.360730e-04	-4.913492e-04	1.948960e-04	-4.400545e-05	1.329175e-04
##	1786	-7.111582e-01	1.411802e-01	-1.545881e+00	9.826377e+00	-4.467740e+00

##	1787	-1.830408e-02	-1.783969e-02	1.252406e-03	-6.797606e-03	3.750685e-02
##	1788	1.255015e-03	-1.133968e-03	4.954962e-04	2.212991e-04	-3.794781e-04
##	1789	1.932025e-03	-1.744978e-03	7.645178e-04	3.270800e-04	-5.777829e-04
##	1791	-4.347093e-02	-8.858056e-02	2.052596e-02	-6.526857e-02	1.548702e-01
##	1793	4.994779e-01	1.391777e-01	1.812634e-01	-3.328886e-02	-1.958608e-01
##	1796	5.782756e-01	9.321133e-02	2.117447e-01	-2.498013e-02	-2.214109e-01
##	1797	1.292348e-03	-1.167216e-03	5.113928e-04	2.187816e-04	-3.864816e-04
##	1799	-5.186420e-05	-3.483153e-05	-5.279567e-06	-2.415059e-05	7.198255e-05
##	1800	2.480121e-01	-2.240026e-01	9.814008e-02	4.198813e-02	-7.417067e-02
##	1801	3.838149e-03	-2.883684e-01	7.629466e-02	-1.056975e-01	2.791452e-01
##	1802	-1.018354e-01	-1.617305e-01	3.457396e-02	-1.321610e-01	3.119964e-01
##	1803	5.136474e-01	-5.065782e-01	9.563763e-02	9.335086e-01	-5.519513e-01
##	1804	-1.442851e+00	-1.385107e+00	-4.963280e-01	2.924067e-01	6.432301e-01
##	1805	7.363749e-05	-1.140329e-05	2.957920e-05	-3.342863e-06	-1.876597e-05
##	1806	2.778248e-03	-2.509298e-03	1.099372e-03	4.703553e-04	-8.308642e-04
##	1807	1.330282e+00	-1.386421e+00	5.332678e-01	2.579007e-01	-3.765861e-01
##	1809	2.207457e-03	-1.993744e-03	8.735109e-04	3.737030e-04	-6.601430e-04
##	1810	8.626472e-04	-7.791018e-04	3.413553e-04	1.460360e-04	-2.579832e-04
##	1813	8.526809e-02	-7.622519e-02	3.371822e-02	1.428660e-02	-2.556633e-02
##	1814	1.638449e-03	-1.479800e-03	6.483465e-04	2.773750e-04	-4.899898e-04
##	1815	8.295574e-01	-1.344164e+00	5.017054e-01	-1.238581e-01	4.039204e-01
##	1818	-3.710914e-03	-1.578338e-03	-1.331485e-03	3.556940e-04	1.498495e-03
##	1819	-2.458738e-03	-1.543480e-03	-1.052181e-03	6.451252e-03	5.000628e-04
##	1820	-5.449077e-04	-1.973277e-04	-1.964630e-04	4.533855e-05	2.173526e-04
##	1821	8.023501e-02	2.227631e-03	2.967643e-02	-1.328716e-03	-2.987743e-02
##	1823	-2.540361e+00	-9.454769e-01	-9.153168e-01	2.167454e-01	1.014869e+00
##	1824	-3.022696e-03	-1.437954e-03	-1.080278e-03	3.200319e-04	1.232754e-03
##	1825	1.402760e-04	-6.864829e-05	5.389708e-05	1.215968e-05	-4.652232e-05
##	1826	3.696638e-01	1.030198e-01	1.341528e-01	-2.463995e-02	-1.449578e-01
##	1828	1.268089e-04	-1.662870e-04	-8.038656e-05	1.048550e-03	-5.212105e-04
##	1829	2.613819e+00	-2.361691e+00	1.034331e+00	4.426972e-01	-7.816176e-01
##	1830	8.561484e-01	-1.039126e+00	4.172452e-01	2.450899e-02	3.900354e-02
##	1832	4.775433e-04	-8.084132e-05	1.795307e-04	1.016859e-05	-1.692934e-04
##	1834	4.667175e+00	-4.236067e+00	1.847408e+00	7.942803e-01	-1.394136e+00

## 1835	-7.141567e-03	-7.560178e-03	1.308600e-03	-7.555262e-03	1.768322e-02
## 1838	-1.011360e+00	-1.196754e+00	-3.416281e-01	2.500493e-01	4.686651e-01
## 1839	-8.097903e-02	-8.847543e-01	2.419615e-01	-4.264232e-01	1.053745e+00
## 1840	1.490173e-03	-1.345902e-03	5.896727e-04	2.522792e-04	-4.456482e-04
## 1841	1.250817e+00	-4.704950e+00	1.536993e+00	-1.375861e+00	3.543111e+00
## 1842	5.784201e-01	-5.224160e-01	2.288845e-01	9.792406e-02	-1.729834e-01
## 1843	-2.507114e-02	-2.649633e-01	7.488214e-02	-1.340002e-01	3.263912e-01
## 1844	1.400026e-01	-1.259045e-01	5.538486e-02	2.359350e-02	-4.191217e-02
## 1846	8.833776e-01	-1.163413e+00	4.574448e-01	-1.604927e-02	1.415083e-01
## 1847	-9.101819e+00	-2.536752e+00	-3.303087e+00	6.067240e-01	3.569151e+00
## 1848	2.510427e-03	-2.267707e-03	9.936044e-04	4.245789e-04	-7.499641e-04
## 1850	-6.501420e-03	2.245713e-03	-1.172155e-02	7.086794e-02	-3.192019e-02
## 1852	3.717314e-04	9.810252e-05	1.350718e-04	-2.372077e-05	-1.452732e-04
## 1853	-6.306144e-01	-1.661793e+00	3.830148e-01	-1.054176e+00	2.564734e+00
## 1856	-1.528045e-02	-1.890977e-02	3.606745e-03	-1.740405e-02	4.086975e-02
## 1858	9.671130e-02	-2.277760e+00	6.757074e-01	-9.539135e-01	2.367214e+00
## 1859	-3.020436e-01	9.930547e-02	-5.571695e-01	3.391621e+00	-1.529621e+00
## 1861	9.255406e-01	-8.365683e-01	3.662602e-01	1.568179e-01	-2.767432e-01
## 1862	4.570053e-05	-9.229105e-06	1.883396e-05	-2.662741e-06	-9.869170e-06
## 1863	2.064671e-01	2.119212e-02	7.593668e-02	-6.505602e-03	-7.810045e-02
## 1864	9.175270e-04	-8.286853e-04	3.630722e-04	1.553300e-04	-2.743937e-04
## 1865	-1.291673e-07	1.159543e-07	-5.098535e-08	-2.198847e-08	3.909871e-08
## 1867	-1.238272e-02	-3.723914e-03	-4.486132e-03	8.797886e-04	4.877333e-03
## 1868	3.661240e-02	-2.098070e+00	6.237187e-01	-9.287680e-01	2.279962e+00
## 1869	4.506732e-03	-8.601651e-04	1.694374e-03	1.217592e-04	-1.600101e-03
## 1870	-5.850868e+00	-5.539798e+00	-2.014787e+00	1.170388e+00	2.602270e+00
## 1872	8.988391e-04	-8.117722e-04	3.556795e-04	1.521516e-04	-2.687953e-04
## 1873	-1.911298e-01	6.845397e-02	-3.384512e-01	2.035081e+00	-9.156644e-01
## 1875	-1.838830e-02	-1.944649e-02	3.362652e-03	-1.944223e-02	4.550569e-02
## 1876	1.963622e-03	-1.773533e-03	7.770193e-04	3.324378e-04	-5.872388e-04
## 1877	3.274699e-03	8.446829e-04	1.190289e-03	-2.047140e-04	-1.278772e-03
## 1878	1.869030e+00	-1.688559e+00	7.397142e-01	3.162404e-01	-5.584792e-01
## 1879	1.467029e-03	-1.324984e-03	5.805144e-04	2.483569e-04	-4.387260e-04
## 1880	-1.031165e+01	-3.529814e+00	-3.365006e+00	-5.783581e-02	5.479315e+00

## 1881	3.865058e-03	-3.490910e-03	1.529439e-03	6.543322e-04	-1.155852e-03
## 1885	5.629820e-01	-5.084820e-01	2.227759e-01	9.531225e-02	-1.683656e-01
## 1887	9.970091e-01	-8.999477e-01	3.945079e-01	1.686858e-01	-2.982099e-01
## 1890	-3.347639e-03	-2.367202e-03	-1.174798e-03	5.088224e-04	1.426709e-03
## 1891	1.492543e-03	-1.348046e-03	5.906101e-04	2.526823e-04	-4.463585e-04
## 1892	2.135646e-03	-1.928905e-03	8.450909e-04	3.615609e-04	-6.386835e-04
## 1894	2.203565e-01	6.141040e-02	7.996840e-02	-1.468793e-02	-8.640932e-02
## 1895	-4.131048e+00	-2.819153e+00	-1.452882e+00	6.083277e-01	1.751289e+00
## 1896	3.198429e-03	-2.902300e-03	1.270447e-03	5.333657e-04	-9.383679e-04
## 1897	-5.609851e-03	-5.945292e-03	1.029885e-03	-5.937813e-03	1.389788e-02
## 1899	-2.372236e-05	8.495594e-06	-4.200906e-05	2.526003e-04	-1.136553e-04
## 1900	2.396649e+00	-2.420760e+00	9.603488e-01	4.449955e-01	-6.777939e-01
## 1901	6.437719e-10	-9.442570e-10	-5.905049e-10	6.804503e-09	-3.320775e-09
## 1902	3.772961e-01	2.414130e-03	1.397738e-01	-4.638805e-03	-1.398604e-01
## 1903	2.697411e-01	-4.735524e-01	1.745589e-01	-5.840305e-02	1.743575e-01
## 1905	3.305049e-04	8.738532e-05	1.200855e-04	-2.111802e-05	-1.291817e-04
## 1906	5.263949e-04	-1.886712e-04	2.009421e-04	3.039548e-05	-1.776816e-04
## 1907	1.718612e-02	4.493944e-03	6.245126e-03	-1.086533e-03	-6.715986e-03
## 1908	-1.781345e-01	-2.143758e+00	6.007820e-01	-1.052485e+00	2.576645e+00
## 1909	1.277856e-04	3.498283e-05	4.642141e-05	-8.465062e-06	-4.994407e-05
## 1910	1.948884e-03	-1.760216e-03	7.711883e-04	3.299391e-04	-5.828278e-04
## 1911	-9.038212e-05	-8.706411e-05	9.905279e-06	-8.167410e-05	1.983716e-04
## 1913	-6.215202e-02	-3.568786e-02	-2.204543e-02	7.809427e-03	2.581861e-02
## 1915	1.126539e-03	-1.017468e-03	4.457798e-04	1.907165e-04	-3.369009e-04
## 1916	1.436761e+00	-2.306603e+00	8.602323e-01	-1.990080e-01	6.666247e-01
## 1917	-4.388584e-01	-1.490720e+00	3.832502e-01	-9.291193e-01	2.225426e+00
## 1918	1.199753e+00	-2.419753e+00	8.686526e-01	-4.011233e-01	1.122376e+00
## 1919	1.667542e-01	-1.956865e-01	-4.779700e-02	9.232811e-01	-4.710343e-01
## 1920	-1.695106e+01	-9.944223e+00	-6.006708e+00	2.171984e+00	7.058293e+00
## 1921	1.847271e-04	-1.551350e-04	7.277281e-05	2.893642e-05	-5.616672e-05
## 1923	4.336327e-01	-5.638802e-01	1.754672e-01	1.148237e-01	-1.194560e-01
## 1924	1.235807e+00	-1.670572e+00	6.523954e-01	-4.134281e-02	2.447572e-01
## 1925	5.004057e-05	-4.509242e-05	1.979938e-05	8.448964e-06	-1.497001e-05
## 1927	1.675114e-01	-1.493730e-01	6.479961e-02	3.900935e-02	-5.553622e-02

## 1929	4.846315e-03	-1.692810e-03	1.843297e-03	2.843723e-04	-1.660433e-03
## 1930	1.908026e-01	-1.908690e-01	2.866015e-02	4.007674e-01	-2.304448e-01
## 1932	1.251055e-02	-2.219939e+00	6.477279e-01	-9.763277e-01	2.412469e+00
## 1933	2.449746e-03	-2.212597e-03	9.693875e-04	4.147251e-04	-7.325990e-04
## 1934	1.368677e-01	-1.236405e-01	5.401499e-02	2.429434e-02	-4.146578e-02
## 1935	5.750368e-01	1.077139e-01	2.101418e-01	-2.783977e-02	-2.213540e-01
## 1937	-1.442755e-02	1.302893e-02	-5.708614e-03	-2.443184e-03	4.316445e-03
## 1938	-8.981896e+00	8.113726e+00	-3.550687e+00	-1.548219e+00	2.699124e+00
## 1939	4.648260e-01	-1.979419e+00	6.098467e-01	-5.439333e-01	1.459281e+00
## 1940	8.424156e-04	-7.608146e-04	3.333527e-04	1.425991e-04	-2.519198e-04
## 1943	-7.873960e-01	-1.469099e+00	3.017448e-01	-1.047438e+00	2.538910e+00
## 1944	3.524576e-03	-3.183424e-03	1.394713e-03	5.966846e-04	-1.054007e-03
## 1945	1.432746e-02	-1.481173e-02	5.771007e-03	2.678143e-03	-3.946161e-03
## 1949	1.278487e+00	-5.042109e+00	1.648226e+00	-1.532498e+00	3.912721e+00
## 1951	9.685601e-04	-8.747836e-04	3.832662e-04	1.639716e-04	-2.896563e-04
## 1952	6.675908e-02	1.742626e-02	2.425161e-02	-4.150585e-03	-2.611631e-02
## 1954	-6.519163e-03	-6.672527e-03	-2.231007e-03	1.403800e-03	2.939013e-03
## 1955	1.353359e-01	-1.610889e+00	4.928854e-01	-6.514422e-01	1.611574e+00
## 1956	1.629750e-01	-1.171051e+00	3.666364e-01	-4.361763e-01	1.087438e+00
## 1957	3.087436e-03	-3.525645e-03	1.443562e-03	1.782766e-04	-8.871115e-05
## 1958	-2.533758e+00	-7.061736e-01	-9.195112e-01	1.688983e-01	9.935771e-01
## 1959	-3.227432e-01	-1.176451e-01	-1.163559e-01	2.704221e-02	1.287411e-01
## 1960	-7.090005e-01	-1.540516e+00	3.322505e-01	-1.032743e+00	2.513458e+00
## 1962	2.083764e-04	5.807159e-05	7.562088e-05	-1.388960e-05	-8.171118e-05
## 1963	-4.250049e-01	-1.501863e+00	3.805818e-01	-9.072452e-01	2.189893e+00
## 1965	1.229928e-03	-1.110852e-03	4.866915e-04	2.082212e-04	-3.678207e-04
## 1966	4.275668e+00	-3.875168e+00	1.692284e+00	7.265429e-01	-1.277626e+00
## 1968	2.581720e-04	-1.491300e-04	1.040467e-04	1.662983e-05	-6.755884e-05
## 1970	1.042178e-03	2.904386e-04	3.782129e-04	-6.947016e-05	-4.086673e-04
## 1971	1.569391e-03	-1.417454e-03	6.210195e-04	2.656918e-04	-4.693400e-04
## 1972	1.993266e+00	-2.132626e+00	7.979754e-01	4.037954e-01	-5.699239e-01
## 1973	5.657193e-01	-6.387459e-01	2.615747e-01	3.788230e-02	-2.735947e-02
## 1975	3.441316e+00	-1.326873e+01	1.644109e+00	2.610225e+00	-2.276270e-01
## 1978	5.534205e-01	-1.201844e+00	4.229493e-01	-2.164566e-01	6.011381e-01

##	1979	-2.216576e-08	4.456724e-09	-4.799020e-08	3.047893e-07	-1.385396e-07
##	1982	-6.707508e-06	-7.089449e-06	1.218707e-06	-7.032074e-06	1.657012e-05
##	1984	3.732049e-05	-3.370791e-05	1.476805e-05	6.318214e-06	-1.116080e-05
##	1986	-4.092585e-01	5.928578e-02	-9.773398e-01	6.339875e+00	-2.895460e+00
##	1987	-1.074890e+00	-1.687049e+00	3.586865e-01	-1.383496e+00	3.269700e+00
##	1988	4.851786e-03	-1.169034e-03	1.830756e-03	1.798193e-04	-1.703826e-03
##	1989	2.230098e-03	-2.014191e-03	8.824893e-04	3.774890e-04	-6.668404e-04
##	1990	7.122216e-04	-6.432548e-04	2.818313e-04	1.205725e-04	-2.129956e-04
##	1991	1.212291e+00	-1.592429e+00	4.931316e-01	3.077971e-01	-3.247939e-01
##	1994	-1.250035e+01	-1.016590e+01	-4.350947e+00	2.167201e+00	5.428162e+00
##	1995	5.459774e-04	-4.930228e-04	2.160522e-04	9.239386e-05	-1.632574e-04
##	1997	2.150794e-01	2.631015e-02	7.898667e-02	-7.622267e-03	-8.169164e-02
##	1998	-1.177846e+00	-1.246182e+00	2.156173e-01	-1.245757e+00	2.915681e+00
##	2002	1.275887e+00	-4.157885e+00	1.382655e+00	-1.122998e+00	2.918315e+00
##	2004	4.548541e-07	1.253062e-07	1.660887e-07	-3.241900e-08	-1.744718e-07
##	2005	-9.518198e-01	-1.335633e+00	2.137486e-01	-1.015275e+00	2.499225e+00
##	2006	3.342621e-01	-3.010628e-01	1.303871e-01	7.074469e-02	-1.068958e-01
##	2007	1.344782e-03	-1.214588e-03	5.321400e-04	2.276663e-04	-4.021691e-04
##	2008	-2.930435e-02	-6.308431e-01	1.823771e-01	-3.026646e-01	7.381722e-01
##	2009	5.992392e-01	1.485835e-01	2.179778e-01	-3.626577e-02	-2.335319e-01
##	2010	1.879289e-01	-1.410569e+00	4.405726e-01	-5.303078e-01	1.320874e+00
##	2011	2.193585e+00	-1.981235e+00	8.680167e-01	3.713721e-01	-6.560144e-01
##	2013	2.152896e-01	5.331749e-02	7.831501e-02	-1.301641e-02	-8.389630e-02
##	2017	2.450866e-04	-2.204897e-04	9.705508e-05	4.108270e-05	-7.299098e-05
##	2018	-2.924065e-01	-8.228195e-02	-1.086271e+00	7.569902e+00	-3.504157e+00
##	2019	8.266570e-04	-7.465832e-04	3.271166e-04	1.399324e-04	-2.472082e-04
##	2020	-1.582923e+00	-3.644725e-01	-1.523645e+00	9.196612e+00	-2.825472e+00
##	2021	-3.129904e-01	-1.959736e+00	5.281182e-01	-1.044841e+00	2.544309e+00
##	2022	1.879510e-01	-1.711689e-01	7.074103e-02	6.038402e-02	-6.965360e-02
##	2023	-1.857462e+01	-6.742485e+00	-6.697351e+00	1.550724e+00	7.407089e+00
##	2025	2.689307e-09	-2.833275e-09	1.018962e-10	8.063248e-09	-4.365778e-09
##	2026	3.890694e-01	-3.245032e+00	1.006793e+00	-1.242169e+00	3.090509e+00
##	2027	-2.052540e-02	5.087618e-03	-4.205793e-02	2.634773e-01	-1.194749e-01
##	2028	-2.375014e-03	-3.906145e-03	8.528376e-04	-3.159881e-03	7.451928e-03

## 2029	2.494094e-03	-1.900763e-03	9.772410e-04	3.518067e-04	-7.732979e-04
## 2030	2.023591e-02	-1.802719e-01	-1.306997e-01	1.138814e+00	-5.220121e-01
## 2031	1.978161e-01	-1.950741e-01	3.670788e-02	3.604621e-01	-2.130255e-01
## 2032	-1.307085e-03	-1.382451e-03	2.391375e-04	-1.382235e-03	3.235082e-03
## 2033	1.300373e-05	-1.212619e-05	5.258188e-06	2.028807e-06	-3.465773e-06
## 2034	8.300007e-01	-7.538601e-01	3.296779e-01	1.386145e-01	-2.435541e-01
## 2035	8.013535e-04	-7.235251e-04	3.171956e-04	1.353700e-04	-2.392814e-04
## 2036	5.888029e-01	-4.855771e+00	1.508241e+00	-1.856998e+00	4.619224e+00
## 2037	4.550191e-06	-5.849971e-08	1.697336e-06	-6.098739e-08	-1.644218e-06
## 2038	-2.127910e-06	-2.272355e-06	4.046716e-07	-2.281932e-06	5.325271e-06
## 2039	2.704781e-04	6.924949e-05	9.843154e-05	-1.705818e-05	-1.051814e-04
## 2041	3.522212e-04	9.219225e-05	1.280210e-04	-2.236578e-05	-1.375223e-04
## 2042	-1.034242e+00	-1.665974e+00	3.026676e-01	-1.217657e+00	2.981085e+00
## 2043	3.032695e-04	-2.761769e-04	1.142915e-04	9.629505e-05	-1.118473e-04
## 2044	3.165559e-01	-1.698784e+00	5.422354e-01	-5.864446e-01	1.473298e+00
## 2046	5.209583e-04	-4.806875e-04	2.182428e-04	6.138841e-05	-1.094411e-04
## 2047	-6.511159e-02	2.327312e-02	-1.154173e-01	6.942146e-01	-3.123742e-01
## 2048	-2.920116e-02	-8.543182e-03	-1.058596e-02	2.027236e-03	1.148280e-02
## 2049	-2.441845e+00	-3.585492e+00	7.352492e-01	-3.018316e+00	7.127812e+00
## 2051	1.164390e-04	-9.124081e-05	4.568921e-05	1.693274e-05	-3.591902e-05
## 2053	5.159679e-01	-4.659573e-01	2.041703e-01	8.734050e-02	-1.543104e-01
## 2054	-1.819123e-02	-6.500374e-03	-6.561870e-03	1.497921e-03	7.246479e-03
## 2055	5.421962e-03	-4.897087e-03	2.145508e-03	9.179337e-04	-1.621495e-03
## 2056	-7.397900e-02	-1.951124e-01	-2.200066e-02	3.975891e-02	4.276553e-02
## 2058	8.039446e-04	-8.180466e-04	7.754815e-05	2.027168e-03	-1.130843e-03
## 2061	2.427960e-03	-2.192876e-03	9.607723e-04	4.110104e-04	-7.260591e-04
## 2064	-5.088886e-04	1.823901e-04	-9.008094e-04	5.415891e-03	-2.436774e-03
## 2065	-5.372962e-01	5.944015e-02	-1.289135e+00	8.377015e+00	-3.824031e+00
## 2066	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
## 2067	8.821564e-06	-5.744399e-06	3.437388e-06	1.029286e-06	-2.781106e-06
## 2068	3.404607e-01	-1.693194e+00	5.436961e-01	-5.701408e-01	1.436073e+00
## 2069	-1.057638e+00	-1.448571e+00	-3.517872e-01	3.008221e-01	5.056438e-01
## 2070	7.931000e-04	-7.162429e-04	3.138419e-04	1.342330e-04	-2.371564e-04
## 2071	1.944494e-03	-1.756257e-03	7.694505e-04	3.291993e-04	-5.815183e-04

##	2072	-1.160206e+00	-1.594607e+00	3.191993e-01	-1.382423e+00	3.273741e+00
##	2073	1.611599e-01	-1.174579e-02	6.005821e-02	5.693963e-04	-5.873440e-02
##	2074	-7.406715e-01	-7.842832e-01	1.357765e-01	-7.836659e-01	1.834193e+00
##	2076	5.225737e-01	-4.719520e-01	2.067851e-01	8.846449e-02	-1.562837e-01
##	2077	-5.783975e-01	-8.095349e-01	1.017076e-01	-5.487256e-01	1.410102e+00
##	2078	8.824896e-02	-6.546976e-01	2.026292e-01	-2.406873e-01	6.040628e-01
##	2081	1.869800e-05	-1.625148e-05	7.386450e-06	3.025827e-06	-5.621946e-06
##	2082	-2.216576e-08	4.456724e-09	-4.799020e-08	3.047893e-07	-1.385396e-07
##	2083	1.116138e-06	-5.676424e-08	4.157165e-07	-2.077962e-09	-4.069511e-07
##	2084	2.613874e-05	4.980800e-06	9.549808e-06	-1.282365e-06	-1.006848e-05
##	2085	5.212844e-01	-1.946682e+00	6.378441e-01	-5.705710e-01	1.466576e+00
##	2090	-1.400780e+01	-6.778120e+00	-5.003712e+00	1.507511e+00	5.719334e+00
##	2091	3.357583e-03	-2.390649e-03	1.312141e-03	4.370192e-04	-1.049512e-03
##	2092	-2.456663e-03	-2.607447e-03	4.521538e-04	-2.602045e-03	6.090465e-03
##	2093	-7.051938e-03	-7.462405e-03	1.291255e-03	-7.458637e-03	1.745783e-02
##	2094	-3.345873e+00	-3.956342e-01	-3.762031e+00	2.271254e+01	-7.985645e+00
##	2095	9.052656e-01	-2.122764e+00	7.428478e-01	-4.366331e-01	1.175560e+00
##	2096	-1.070130e-02	2.416462e-03	-2.252974e-02	1.421037e-01	-6.451887e-02
##	2097	1.658212e-02	-5.103896e-02	-6.200615e-02	5.458961e-01	-2.589714e-01
##	2098	-1.415104e+01	-9.919527e+00	-4.969605e+00	2.136227e+00	6.019782e+00
##	2100	-9.639351e-04	-1.022510e-03	1.770818e-04	-1.019570e-03	2.388510e-03
##	2101	5.511224e-05	-4.617943e-05	2.188313e-05	8.185795e-06	-1.609158e-05
##	2104	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
##	2105	-1.326492e-08	1.396463e-09	-3.190270e-08	2.074549e-07	-9.469089e-08
##	2107	9.511218e-06	1.232945e-06	3.491013e-06	-3.509384e-07	-3.618030e-06
##	2110	5.045760e-01	-4.549095e-01	1.996413e-01	8.526093e-02	-1.509636e-01
##	2112	-6.368506e-01	-1.537511e+00	3.714757e-01	-1.064814e+00	2.534973e+00
##	2113	1.517861e-03	-1.370913e-03	6.006285e-04	2.569683e-04	-4.539298e-04
##	2114	-1.680005e-01	4.861823e-02	-2.805856e-01	1.684069e+00	-7.420571e-01
##	2116	-1.965511e-01	-8.863038e-02	-7.038965e-02	1.985975e-02	7.974077e-02
##	2117	3.029765e-05	-2.736493e-05	1.198906e-05	5.129250e-06	-9.060544e-06
##	2118	8.958795e-05	-7.446338e-05	3.535116e-05	1.368462e-05	-2.699313e-05
##	2119	8.984673e-02	-8.028151e-02	3.552700e-02	1.505233e-02	-2.694490e-02
##	2121	-2.720203e-02	9.679457e-03	-4.832825e-02	2.908889e-01	-1.309084e-01

## 2122	1.186985e-03	-1.072066e-03	4.696984e-04	2.009514e-04	-3.549784e-04
## 2123	2.383171e+00	-2.171832e+00	9.483331e-01	3.957194e-01	-6.928375e-01
## 2124	-3.914294e-01	1.150425e-01	-7.566138e-01	4.667101e+00	-2.110206e+00
## 2127	5.062884e-01	-4.572410e-01	2.003408e-01	8.570700e-02	-1.514137e-01
## 2128	7.164218e-01	-6.465819e-01	2.834795e-01	1.211928e-01	-2.142919e-01
## 2129	1.730986e-03	-1.563403e-03	6.849641e-04	2.930477e-04	-5.176644e-04
## 2130	-1.659827e+00	-8.732236e-01	-5.909613e-01	1.926189e-01	6.832164e-01
## 2132	4.338521e-01	-3.847456e+00	1.186034e+00	-1.478589e+00	3.684075e+00
## 2137	9.232749e-01	-8.332563e-01	3.652114e-01	1.570833e-01	-2.765976e-01
## 2139	4.270986e-03	3.965149e-04	1.571624e-03	-1.233847e-04	-1.613645e-03
## 2140	1.543477e-03	-1.394049e-03	6.107652e-04	2.613049e-04	-4.615904e-04
## 2141	2.000277e-03	-1.806630e-03	7.915257e-04	3.386370e-04	-5.981947e-04
## 2142	4.223417e-04	-1.155527e-05	1.568623e-04	-2.358708e-06	-1.554159e-04
## 2145	-5.850868e+00	-5.539798e+00	-2.014787e+00	1.170388e+00	2.602270e+00
## 2146	1.543477e-03	-1.394049e-03	6.107652e-04	2.613049e-04	-4.615904e-04
## 2147	-1.394824e-01	-1.027208e+00	2.732467e-01	-5.169844e-01	1.275631e+00
## 2149	2.897178e-04	7.961429e-05	1.052137e-04	-1.919015e-05	-1.133557e-04
## 2151	3.832784e-04	-2.656568e-04	1.550978e-04	3.498153e-05	-9.911269e-05
## 2154	-7.920292e-01	-1.231591e+00	2.209015e-01	-9.177484e-01	2.242217e+00
## 2155	6.703540e-03	-6.054601e-03	2.652637e-03	1.134904e-03	-2.004764e-03
## 2156	-3.191521e-03	-9.970450e-04	-1.155194e-03	2.341231e-04	1.260126e-03
## 2157	1.550036e+00	-1.504212e+00	6.441151e-01	2.152163e-01	-3.479046e-01
## 2158	-1.766474e-01	3.034999e-02	-3.965357e-01	2.539415e+00	-1.156200e+00
## 2159	1.064095e+00	-1.457839e+00	5.676669e-01	-4.486491e-02	2.330294e-01
## 2161	2.665819e-03	-2.407684e-03	1.054881e-03	4.513071e-04	-7.972466e-04
## 2163	-4.824268e-04	-1.987177e-02	3.734583e-04	3.970771e-03	1.746354e-03
## 2164	4.001783e-01	-4.120266e-01	3.062219e-02	1.072516e+00	-5.924713e-01
## 2166	1.374291e-01	-1.240995e-01	5.418210e-02	2.479327e-02	-4.183575e-02
## 2167	2.668222e-02	-2.409924e-02	1.055834e-02	4.517278e-03	-7.979599e-03
## 2168	-7.474655e-01	-1.116585e+00	2.101873e-01	-8.825196e-01	2.123963e+00
## 2169	2.687079e-03	-2.426937e-03	1.063295e-03	4.549166e-04	-8.036007e-04
## 2170	5.215617e-07	1.430779e-07	1.908709e-07	-3.804694e-08	-1.984410e-07
## 2171	4.779100e-05	-4.308031e-05	1.890957e-05	8.072497e-06	-1.429642e-05
## 2172	1.983089e-01	5.514752e-02	7.197051e-02	-1.319468e-02	-7.775438e-02

## 2173	1.689776e-01	-1.528290e-01	6.605876e-02	3.490903e-02	-5.351831e-02
## 2174	1.544868e+00	-6.802621e+00	7.567319e-01	1.377292e+00	-5.336894e-02
## 2176	7.490098e-04	-6.764282e-04	2.963934e-04	1.267747e-04	-2.239776e-04
## 2177	1.194723e+00	-4.791041e+00	1.536336e+00	-1.401369e+00	3.639080e+00
## 2179	1.085836e+00	-1.067345e+00	4.552368e-01	1.445917e-01	-2.286004e-01
## 2180	3.713453e-03	-3.353971e-03	1.469439e-03	6.286845e-04	-1.110547e-03
## 2182	7.231600e-04	-5.020416e-04	2.847304e-04	8.551241e-05	-2.175064e-04
## 2183	1.080753e-03	-9.760521e-04	4.278881e-04	1.823965e-04	-3.223346e-04
## 2184	-1.973743e-02	-8.153842e-02	-5.041062e-03	1.646828e-02	1.377161e-02
## 2185	-5.572462e-01	-2.261900e-01	-2.002139e-01	5.118494e-02	2.242748e-01
## 2186	1.013456e-04	2.311730e-05	3.713445e-05	-6.252635e-06	-3.851456e-05
## 2189	5.188120e+00	-4.692260e+00	2.053636e+00	8.784341e-01	-1.549189e+00
## 2190	-7.895396e-01	-5.766063e+00	-1.790324e+00	1.392864e+01	-5.374082e+00
## 2191	-7.771381e+00	-2.558081e+00	-2.809381e+00	5.963201e-01	3.078326e+00
## 2192	5.850600e+00	-5.496083e+00	2.335659e+00	9.970214e-01	-1.676483e+00
## 2194	9.828754e-10	-9.331101e-10	3.161695e-10	7.664367e-10	-5.630056e-10
## 2195	4.583032e-05	-4.128017e-05	1.813222e-05	7.736370e-06	-1.371498e-05
## 2196	1.223356e-03	-5.816090e-04	4.702513e-04	1.009634e-04	-4.044270e-04
## 2197	5.380631e-01	-4.852636e-01	2.128954e-01	9.095186e-02	-1.609697e-01
## 2198	2.711631e-01	-2.441849e-01	1.072809e-01	4.576233e-02	-8.115151e-02
## 2199	5.782851e-04	-3.476128e-04	2.111361e-04	1.625606e-04	-2.341127e-04
## 2200	1.467526e-03	-1.325451e-03	5.807106e-04	2.484471e-04	-4.388771e-04
## 2201	9.191065e-04	2.561426e-04	3.335481e-04	-6.126343e-05	-3.604130e-04
## 2203	3.884600e-04	-3.507833e-04	1.537175e-04	6.574375e-05	-1.161662e-04
## 2207	1.411208e-01	-1.526790e+00	4.688067e-01	-6.099834e-01	1.510691e+00
## 2209	2.403788e-01	-3.594756e+00	1.891433e-01	7.143367e-01	1.951831e-01
## 2210	4.176916e-01	-3.772568e-01	1.652834e-01	7.071484e-02	-1.249151e-01
## 2213	1.490274e-01	-1.347012e-01	5.869340e-02	2.741238e-02	-4.559606e-02
## 2214	8.870834e-01	-5.445158e-01	3.391911e-01	1.354215e-01	-3.028881e-01
## 2215	9.422570e-04	-8.529766e-04	3.624864e-04	2.402081e-04	-3.201290e-04
## 2216	4.678647e-05	-4.204147e-05	1.850836e-05	7.876294e-06	-1.400656e-05
## 2218	-6.538195e-01	-7.029079e-01	2.431791e-02	1.413180e-02	1.265059e+00
## 2219	-6.215202e-02	-3.568786e-02	-2.204543e-02	7.809427e-03	2.581861e-02
## 2220	7.496503e-02	-1.587850e-01	-2.004431e-01	1.822749e+00	-8.741548e-01

## 2221	2.626725e-03	-2.372432e-03	1.039428e-03	4.446624e-04	-7.854914e-04
## 2222	1.549746e-01	-6.395471e-02	5.921471e-02	1.106069e-02	-5.233320e-02
## 2223	6.098259e-01	-5.504107e-01	2.413019e-01	1.031666e-01	-1.824042e-01
## 2224	-3.279190e-02	-1.898972e-02	-1.162682e-02	4.152196e-03	1.363501e-02
## 2225	2.230802e-01	-2.031678e-01	8.876970e-02	3.700816e-02	-6.485188e-02
## 2226	7.058528e-04	-6.374341e-04	2.793172e-04	1.194609e-04	-2.110653e-04
## 2227	9.166435e-05	-6.256871e-05	5.236364e-05	-2.798645e-05	3.524669e-05
## 2229	-3.910681e-02	-1.039442e+00	2.953451e-01	-4.779486e-01	1.179882e+00
## 2230	2.780448e-03	-2.511395e-03	1.100337e-03	4.705246e-04	-8.311583e-04
## 2231	-1.415831e-01	-7.925400e-02	-5.027654e-02	1.738215e-02	5.865399e-02
## 2234	3.639253e-01	-1.648485e+00	5.335077e-01	-5.362552e-01	1.355826e+00
## 2235	4.917723e-03	-1.416746e-03	1.862198e-03	2.282365e-04	-1.708237e-03
## 2236	4.340590e-03	-4.331142e-04	1.620877e-03	3.849255e-05	-1.572482e-03
## 2237	-1.650532e+00	-1.089024e+00	-2.280910e-01	-6.271347e-01	2.059677e+00
## 2238	-3.159926e+00	-1.089454e+00	-1.140955e+00	2.523137e-01	1.255565e+00
## 2241	4.947686e-01	-5.621042e-01	1.993062e-01	1.059766e-01	-1.376391e-01
## 2242	4.423067e-04	7.387744e-05	1.624480e-04	-2.098255e-05	-1.673866e-04
## 2245	8.575586e-06	2.299262e-06	3.164708e-06	-6.757395e-07	-3.162556e-06
## 2246	2.467175e-03	-2.228335e-03	9.762858e-04	4.176712e-04	-7.378055e-04
## 2248	-2.019157e-01	-7.924605e-01	1.979763e-01	-4.518165e-01	1.104358e+00
## 2249	1.291025e+00	-1.261663e+00	5.389655e-01	1.755488e-01	-2.804467e-01
## 2250	4.485603e+00	-1.298274e+01	2.022997e+00	2.543353e+00	-6.375771e-01
## 2251	1.408814e-01	-1.267249e-01	5.548990e-02	2.562270e-02	-4.307163e-02
## 2252	8.962939e+00	-8.099852e+00	3.548003e+00	1.515451e+00	-2.675550e+00
## 2253	-6.678739e-02	-3.570505e-02	-2.376271e-02	7.863201e-03	2.753706e-02
## 2254	-6.120872e-04	-5.688264e-03	-6.884878e-05	1.142021e-03	6.750872e-04
## 2258	-5.402061e-01	1.498834e-01	-1.066619e+00	6.617416e+00	-2.995277e+00
## 2259	-1.034055e-02	-3.038265e-01	8.145159e-02	-1.268239e-01	3.241078e-01
## 2260	1.562103e-06	-9.652399e-07	6.063287e-07	1.741203e-07	-5.000890e-07
## 2263	-2.615462e-02	9.302647e-03	-4.647773e-02	2.797697e-01	-1.259061e-01
## 2266	1.078594e-01	-9.219963e-01	2.612038e-01	-2.946683e-01	7.870911e-01
## 2269	2.810478e+00	-2.552736e+00	1.112523e+00	4.786717e-01	-8.393742e-01
## 2270	4.454885e-05	-3.198359e-05	1.739924e-05	5.894491e-06	-1.397270e-05
## 2271	-1.743667e-07	-2.211789e-07	5.767138e-08	-2.374678e-07	5.298986e-07

## 2272	-2.425234e+00	-3.571583e+00	7.333728e-01	-3.002609e+00	7.091079e+00
## 2273	6.327103e-02	-6.917966e-02	2.543580e-02	1.295540e-02	-1.772340e-02
## 2275	1.777861e-03	-1.605752e-03	7.035124e-04	3.009880e-04	-5.316850e-04
## 2276	-1.140804e-06	-1.090834e-04	3.204391e-05	-5.007064e-05	1.225353e-04
## 2277	-1.817636e+01	-9.986510e+00	-6.459703e+00	2.193978e+00	7.515135e+00
## 2278	4.886007e-06	9.156677e-07	2.066499e-06	-9.224744e-07	-7.973961e-07
## 2280	-8.220955e-01	-1.537283e+00	2.503288e-01	-9.347116e-01	2.401153e+00
## 2281	1.569391e-03	-1.417454e-03	6.210195e-04	2.656918e-04	-4.693400e-04
## 2284	-5.053549e+00	-1.779282e+00	-1.823660e+00	4.108945e-01	2.010887e+00
## 2285	-6.538297e-07	2.294938e-07	-1.169586e-06	7.054485e-06	-3.176003e-06
## 2286	-7.882859e-05	-8.720240e-05	1.555191e-05	-8.509501e-05	1.993522e-04
## 2287	3.661339e-03	-3.315642e-03	1.451426e-03	6.158286e-04	-1.085145e-03
## 2288	-8.218215e-02	-3.105972e-01	-2.182681e-02	6.288289e-02	5.493173e-02
## 2289	7.995759e-05	-7.865964e-05	3.377166e-05	1.005543e-05	-1.587335e-05
## 2290	-4.645208e-02	-2.774560e-01	-9.509822e-03	5.588791e-02	3.907118e-02
## 2293	-6.374241e-01	1.086443e-01	-1.509508e+00	9.769359e+00	-4.462414e+00
## 2294	5.946378e-01	-5.361437e-01	2.355285e-01	9.987072e-02	-1.769339e-01
## 2295	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
## 2298	-7.549316e+00	-2.383356e+00	-2.731926e+00	5.589949e-01	2.982354e+00
## 2301	3.865441e-03	-3.494593e-03	1.530748e-03	6.524628e-04	-1.151596e-03
## 2303	6.786172e-02	-1.504008e-01	2.934153e-02	2.924209e-02	-1.321938e-02
## 2304	6.722566e-04	1.873424e-04	2.439696e-04	-4.481881e-05	-2.635976e-04
## 2306	-6.820630e-08	2.060372e-08	-1.303929e-07	8.018840e-07	-3.623472e-07
## 2307	-1.248563e+01	-8.009689e+00	-4.405345e+00	1.736595e+00	5.252862e+00
## 2308	5.821574e-01	-4.954673e-01	2.295218e-01	9.250268e-02	-1.764889e-01
## 2310	-2.687914e+00	-1.833346e+00	-9.453577e-01	3.956135e-01	1.139434e+00
## 2312	3.871565e-01	-3.492949e-01	1.531898e-01	6.546887e-02	-1.158133e-01
## 2313	2.789613e-03	-2.519562e-03	1.103892e-03	4.722237e-04	-8.341761e-04
## 2314	5.398845e-01	1.504304e-01	1.959274e-01	-3.598056e-02	-2.117050e-01
## 2315	4.165935e-04	-3.758003e-04	1.649099e-04	7.025570e-05	-1.243382e-04
## 2316	3.224987e-02	-2.765983e-02	1.272088e-02	5.166472e-03	-9.759781e-03
## 2318	2.692002e-03	-2.431393e-03	1.065262e-03	4.557081e-04	-8.050030e-04
## 2320	1.469079e-03	-1.326805e-03	5.814081e-04	2.484941e-04	-4.390196e-04
## 2321	-8.159457e+00	-5.535780e+00	-2.870560e+00	1.195040e+00	3.456533e+00

## 2322	-1.100716e-02	3.863342e-03	-1.969050e-02	1.187665e-01	-5.347008e-02
## 2323	4.638727e-02	-3.898842e-02	1.827504e-02	7.272715e-03	-1.410164e-02
## 2324	1.060459e-06	-1.579506e-07	3.974318e-07	1.985020e-08	-3.801301e-07
## 2325	4.125351e-01	-1.320392e+00	4.429566e-01	-3.595063e-01	9.284517e-01
## 2329	1.678314e-01	-2.351682e-02	6.285764e-02	2.845897e-03	-6.027715e-02
## 2330	2.496275e-03	-2.254605e-03	9.878038e-04	4.225862e-04	-7.464948e-04
## 2331	5.479655e-04	-4.948639e-04	2.168353e-04	9.275136e-05	-1.638671e-04
## 2332	-1.454272e+01	-6.671117e+00	-5.204947e+00	1.492048e+00	5.908918e+00
## 2334	6.798998e-01	-1.575644e+00	5.528381e-01	-3.205277e-01	8.638509e-01
## 2335	-1.547845e-02	-1.004464e-02	-5.892127e-03	3.589082e-02	5.865834e-03
## 2336	1.462294e-04	3.500781e-05	5.336425e-05	-8.935780e-06	-5.635895e-05
## 2337	-3.001894e+00	2.711357e+00	-1.187481e+00	-5.112380e-01	8.991845e-01
## 2338	-9.078053e-03	-7.415816e-03	-3.158822e-03	1.580431e-03	3.944745e-03
## 2340	-6.833310e-01	1.303721e-01	-1.499182e+00	9.550278e+00	-4.343959e+00
## 2341	1.357099e-03	-1.225703e-03	5.370138e-04	2.297493e-04	-4.058533e-04
## 2343	5.899795e-02	-1.962013e-01	6.551206e-02	-5.468129e-02	1.409165e-01
## 2344	-3.020144e-01	-1.097679e+00	-8.148696e-02	2.226391e-01	1.981961e-01
## 2345	5.220252e+00	-4.718427e+00	2.065789e+00	8.844842e-01	-1.560888e+00
## 2346	-1.450886e+00	-1.729135e-01	-1.645779e+00	9.955165e+00	-3.516340e+00
## 2348	4.762863e+00	-5.795538e+00	2.310207e+00	1.670976e-01	1.742160e-01
## 2352	3.394717e-03	-3.066599e-03	1.343491e-03	5.744248e-04	-1.014555e-03
## 2353	1.483300e-01	-1.730060e+00	5.297463e-01	-6.979414e-01	1.726965e+00
## 2354	1.080764e+01	-1.027854e+01	4.298348e+00	1.915072e+00	-3.163110e+00
## 2355	5.582078e+00	-5.151449e+00	2.211913e+00	9.669503e-01	-1.660735e+00
## 2356	2.431343e-03	-2.195958e-03	9.621083e-04	4.115971e-04	-7.270827e-04
## 2357	-9.910379e-01	-1.844055e+00	3.783166e-01	-1.316087e+00	3.190023e+00
## 2359	1.310514e-01	-1.182734e-01	5.181058e-02	2.251387e-02	-3.936495e-02
## 2360	-5.303168e-06	1.894933e-06	-9.401946e-06	5.655381e-05	-2.544763e-05
## 2361	-6.498447e-01	-7.440842e-01	5.509889e-02	-1.327175e-01	1.372749e+00
## 2362	1.889853e+00	-2.911265e+00	1.102938e+00	-2.248359e-01	7.701313e-01
## 2363	-7.134964e-01	-1.964676e+00	4.817762e-01	-1.288336e+00	3.086151e+00
## 2364	1.599898e-04	-1.444607e-04	6.330857e-05	2.707633e-05	-4.784739e-05
## 2365	2.262618e+00	-2.045003e+00	8.953732e-01	3.833421e-01	-6.765473e-01
## 2366	1.181020e-03	-1.066662e-03	4.673400e-04	1.999328e-04	-3.531875e-04

## 2367	1.947696e-01	-1.771115e-01	7.244488e-02	6.910702e-02	-7.535878e-02
## 2368	1.212467e-04	-1.094242e-04	4.797723e-05	2.050640e-05	-3.626115e-05
## 2370	8.252412e-02	-1.900381e-02	3.111413e-02	2.884775e-03	-2.905284e-02
## 2371	1.031814e-03	-9.318388e-04	4.083106e-04	1.746249e-04	-3.085148e-04
## 2372	1.240697e-01	-9.620646e-01	2.946873e-01	-3.512002e-01	8.859069e-01
## 2374	1.521639e+00	-1.377865e+00	6.022209e-01	2.583166e-01	-4.547838e-01
## 2376	7.293084e-04	2.032485e-04	2.646694e-04	-4.861229e-05	-2.859868e-04
## 2377	1.669574e-01	-1.968983e-01	-5.028963e-02	9.435599e-01	-4.806192e-01
## 2379	7.991034e-01	-3.813023e-02	2.972375e-01	-1.191642e-03	-2.928154e-01
## 2380	-3.255579e-01	-9.095029e-01	2.263363e-01	-6.001751e-01	1.432898e+00
## 2381	4.175714e-01	1.163706e-01	1.515386e-01	-2.783316e-02	-1.637440e-01
## 2382	8.255385e-07	1.308204e-07	3.690378e-07	-1.980063e-07	-5.873255e-08
## 2383	5.001697e-01	-1.514506e+00	5.115638e-01	-3.967517e-01	1.029832e+00
## 2384	1.690076e-01	-1.524759e-01	6.617968e-02	3.391687e-02	-5.311566e-02
## 2385	-1.200346e-01	-1.658553e+00	4.663356e-01	-8.021170e-01	1.967369e+00
## 2387	2.466768e-01	-1.766720e+00	5.533375e-01	-6.578309e-01	1.639931e+00
## 2388	1.004947e-03	-9.076472e-04	3.976650e-04	1.701314e-04	-3.005378e-04
## 2389	-8.208076e-01	-1.449799e+00	2.846096e-01	-1.040632e+00	2.533501e+00
## 2390	1.922644e-04	3.626410e-05	7.047909e-05	-9.906922e-06	-7.316276e-05
## 2392	-2.695832e-04	-5.510778e-04	-2.112181e-03	1.573027e-02	-7.342717e-03
## 2394	3.359478e-03	-3.034426e-03	1.329494e-03	5.684947e-04	-1.004209e-03
## 2396	7.260803e-04	-6.328112e-04	2.986396e-04	8.913651e-05	-1.728223e-04
## 2397	1.683996e-04	4.693067e-05	6.111302e-05	-1.122478e-05	-6.603515e-05
## 2400	2.429003e+00	-2.641175e+00	1.087742e+00	2.218829e-01	-2.509975e-01
## 2402	-6.444001e-01	-1.630806e+00	3.980396e-01	-1.111452e+00	2.648355e+00
## 2404	3.017658e-03	-2.725564e-03	1.194123e-03	5.108593e-04	-9.024060e-04
## 2405	9.194756e-06	-8.304801e-06	3.638471e-06	1.556598e-06	-2.749625e-06
## 2406	-5.904620e-01	-6.357531e-01	1.158414e-01	-6.404515e-01	1.491228e+00
## 2407	1.001133e+00	-9.034444e-01	3.961324e-01	1.693467e-01	-2.994650e-01
## 2408	3.979525e-01	-7.024112e-01	2.570563e-01	-8.399989e-02	2.553023e-01
## 2410	6.442792e-04	-5.818793e-04	2.549463e-04	1.090663e-04	-1.926752e-04
## 2411	-2.128342e+00	-1.159059e+00	-7.566778e-01	2.548444e-01	8.791667e-01
## 2413	1.340669e-01	-1.223430e-01	5.332515e-02	2.236412e-02	-3.907311e-02
## 2414	1.608341e-02	-1.407314e-02	6.352135e-03	2.631432e-03	-4.844069e-03

## 2415	-8.474378e-06	-6.210801e-04	1.442807e-05	1.232787e-04	5.332557e-05
## 2416	2.421002e-04	6.649464e-05	8.790266e-05	-1.598230e-05	-9.479613e-05
## 2417	5.568270e-04	-5.028185e-04	2.203460e-04	9.422834e-05	-1.664998e-04
## 2418	-9.588365e-04	-3.960701e-04	-3.443224e-04	8.947169e-05	3.864006e-04
## 2419	5.763517e-02	-5.027448e-02	2.275719e-02	9.401962e-03	-1.737668e-02
## 2420	3.568557e-04	-1.786159e-04	1.382818e-04	2.914114e-05	-1.139511e-04
## 2422	-8.460203e-02	-2.272298e-02	-3.072647e-02	5.469277e-03	3.310697e-02
## 2423	8.985127e-01	6.857809e-02	3.355420e-01	-3.438223e-02	-3.209705e-01
## 2424	1.973388e-03	-1.782349e-03	7.808848e-04	3.340878e-04	-5.901560e-04
## 2426	2.996529e+00	-9.695852e+00	1.382015e+00	1.897125e+00	-3.369222e-01
## 2427	5.633807e-01	-9.452743e-01	3.517499e-01	-1.023621e-01	3.159128e-01
## 2428	2.164751e-01	-2.178840e-01	2.860483e-02	4.853684e-01	-2.759246e-01
## 2430	5.465288e-01	-4.936138e-01	2.162650e-01	9.252526e-02	-1.634458e-01
## 2433	5.206211e-05	-4.694949e-05	2.059990e-05	8.798116e-06	-1.557318e-05
## 2434	-7.076017e-01	-1.273971e+00	2.633428e-01	-9.345618e-01	2.252758e+00
## 2436	-2.195151e-01	-8.053207e-01	2.005692e-01	-4.704359e-01	1.145662e+00
## 2437	3.786639e-04	-3.475998e-04	1.536993e-04	5.618210e-05	-9.851902e-05
## 2438	-2.179214e-01	7.805803e-02	-3.858721e-01	2.320178e+00	-1.043938e+00
## 2439	-1.607360e-02	-1.124218e-01	3.110011e-02	-6.021978e-02	1.456720e-01
## 2441	-2.648168e-02	-3.225174e-02	6.097758e-03	-2.992775e-02	7.025418e-02
## 2443	6.826796e-01	-7.266281e-01	3.020908e-01	6.701032e-02	-8.406984e-02
## 2444	-1.712520e-01	-1.817396e-01	3.151187e-02	-1.813739e-01	4.245335e-01
## 2445	1.561299e-04	-1.409403e-04	6.178111e-05	2.641390e-05	-4.669239e-05
## 2448	2.302618e-03	-2.079693e-03	9.111685e-04	3.898102e-04	-6.885963e-04
## 2449	5.109021e-01	-4.614381e-01	2.021673e-01	8.649401e-02	-1.527909e-01
## 2450	1.457669e-03	-1.316497e-03	5.768112e-04	2.467612e-04	-4.359225e-04
## 2451	8.181219e-02	-7.399587e-02	3.239272e-02	1.383186e-02	-2.439617e-02
## 2452	-5.797307e-01	8.687956e-02	-1.331409e+00	8.570611e+00	-3.905681e+00
## 2453	-2.839088e-01	-7.162316e-01	1.371973e-01	-3.971164e-01	1.019681e+00
## 2454	-2.124302e-01	-6.441214e-01	1.459991e-01	-3.740020e-01	9.270395e-01
## 2456	-9.544508e-02	-4.980837e-02	-3.399325e-02	1.099529e-02	3.925529e-02
## 2458	-3.586291e-01	5.985163e-02	-8.261675e-01	5.319206e+00	-2.425331e+00
## 2460	8.276294e-04	-7.474866e-04	3.273743e-04	1.410733e-04	-2.479694e-04
## 2461	-5.366555e-01	-3.102029e+00	8.328808e-01	-1.683218e+00	4.089699e+00

## 2462	1.180037e-02	-7.455024e-03	4.580592e-03	1.358339e-03	-3.781265e-03
## 2463	-1.582848e-02	3.758503e-03	-3.285054e-02	2.064641e-01	-9.367810e-02
## 2469	2.916391e-02	-1.730588e-02	8.431269e-03	1.011087e-02	-2.045550e-02
## 2470	2.832415e-06	-2.009680e-06	1.105582e-06	3.700129e-07	-8.902614e-07
## 2471	-4.580366e-02	-4.844855e-02	8.381106e-03	-4.843860e-02	1.133699e-01
## 2473	4.378461e-01	-1.207841e+00	4.130052e-01	-2.938696e-01	7.705911e-01
## 2474	-3.505953e-08	8.955686e-09	-7.112282e-08	4.444406e-07	-2.014231e-07
## 2477	-1.555402e+00	-6.086623e-01	-5.596001e-01	1.386511e-01	6.237242e-01
## 2479	1.298077e-03	-1.172421e-03	5.136610e-04	2.197578e-04	-3.881928e-04
## 2481	4.801257e-05	-4.327382e-05	1.900527e-05	8.088731e-06	-1.433155e-05
## 2482	1.832421e-03	-1.083381e-03	7.093605e-04	1.957967e-04	-5.925420e-04
## 2483	5.664643e-01	-6.981453e-01	2.287244e-01	1.379034e-01	-1.569532e-01
## 2485	1.892219e-04	-1.522879e-04	7.714366e-05	2.152297e-05	-4.731958e-05
## 2488	-2.545586e+00	-3.507339e+00	6.766715e-01	-2.988939e+00	7.090810e+00
## 2490	5.818276e-01	-1.782423e+00	6.012104e-01	-4.709615e-01	1.221011e+00
## 2491	1.766623e-03	-1.595589e-03	6.990683e-04	2.990754e-04	-5.283138e-04
## 2492	2.231796e-04	4.021990e-05	8.181966e-05	-1.101766e-05	-8.494969e-05
## 2495	2.812414e-01	-1.123840e+00	3.679861e-01	-3.463987e-01	8.811651e-01
## 2496	-7.649920e-01	2.134686e-01	-1.507397e+00	9.346971e+00	-4.230342e+00
## 2497	-6.119605e-01	-1.464571e+00	3.531664e-01	-1.017380e+00	2.421643e+00
## 2498	2.094320e-05	-1.891183e-05	1.406753e-05	-1.056473e-05	1.602611e-05
## 2499	-1.189363e+00	-1.433022e+00	2.444283e-01	-1.158121e+00	3.045911e+00
## 2500	-1.659784e+00	5.779402e-01	-2.914550e+00	1.752333e+01	-7.860288e+00
## 2501	-2.108105e-01	-1.178999e-01	-7.486233e-02	2.586017e-02	8.732463e-02
## 2503	1.557165e-03	-1.406380e-03	6.161901e-04	2.635928e-04	-4.656498e-04
## 2506	-7.494388e-02	-1.377981e+00	3.885754e-01	-6.470289e-01	1.594308e+00
## 2508	2.315216e-03	-2.091110e-03	9.161478e-04	3.919675e-04	-6.923873e-04
## 2509	-5.067903e-01	-1.358304e+00	3.294851e-01	-8.939974e-01	2.144082e+00
## 2510	1.809721e-01	-1.629893e-01	6.778166e-02	5.994907e-02	-6.825209e-02
## 2511	-1.694600e+00	-1.830557e+00	1.793768e-01	-7.868689e-01	3.710356e+00
## 2513	1.086098e-03	-9.808854e-04	4.297745e-04	1.838610e-04	-3.248148e-04
## 2514	-1.165864e-02	-1.232921e-02	2.132513e-03	-1.232819e-02	2.885371e-02
## 2515	9.807922e-02	-1.206895e-01	4.615679e-02	7.257343e-03	-1.911303e-03
## 2516	6.766716e-01	-6.631568e-01	2.830888e-01	9.105294e-02	-1.447390e-01

## 2517	-4.276328e-09	-4.522379e-09	7.822216e-10	-4.521958e-09	1.058349e-08
## 2518	2.221359e-01	-2.693295e+00	5.326534e-01	1.000428e+00	1.621229e+00
## 2520	5.215030e-01	-4.710071e-01	2.063620e-01	8.828769e-02	-1.559618e-01
## 2521	6.136499e-01	-5.421063e-01	2.424890e-01	1.014658e-01	-1.844726e-01
## 2522	6.385021e-04	-5.765600e-04	2.526712e-04	1.080345e-04	-1.909025e-04
## 2523	4.961192e-01	1.382602e-01	1.800440e-01	-3.306867e-02	-1.945452e-01
## 2524	-4.351862e-01	-1.329917e+00	3.320122e-01	-8.437629e-01	2.025782e+00
## 2525	-4.577866e-02	-1.305887e-01	-4.526545e-01	3.410375e+00	-1.594744e+00
## 2526	-1.158149e+00	-1.224762e+00	2.118401e-01	-1.224661e+00	2.866276e+00
## 2528	-1.482621e-02	3.455940e-03	-3.093280e-02	1.946681e-01	-8.834738e-02
## 2529	1.423328e-04	-1.284449e-04	5.632015e-05	2.407233e-05	-4.257051e-05
## 2531	3.804110e-01	-2.473047e+00	7.744170e-01	-8.890996e-01	2.231834e+00
## 2532	1.227364e-04	2.049071e-05	4.529171e-05	-6.344957e-06	-4.562438e-05
## 2533	-1.921033e+01	-7.965312e+00	-6.899025e+00	1.801849e+00	7.738728e+00
## 2535	5.174658e-01	-4.672998e-01	2.047628e-01	8.759202e-02	-1.547593e-01
## 2537	5.721039e-11	-2.045735e-10	6.776002e-11	-5.956738e-11	1.525636e-10
## 2538	-1.229382e-01	3.522046e-02	-2.399313e-01	1.483895e+00	-6.712681e-01
## 2539	-2.411986e+00	-2.653218e+00	4.714320e-01	-2.596936e+00	6.083119e+00
## 2540	1.473798e-01	-1.332829e-01	5.835938e-02	2.489870e-02	-4.392529e-02
## 2542	2.496275e-03	-2.254605e-03	9.878038e-04	4.225862e-04	-7.464948e-04
## 2545	-8.686589e+00	-6.350350e+00	-3.043327e+00	1.363467e+00	3.715826e+00
## 2546	1.471982e-03	-1.329475e-03	5.824739e-04	2.492011e-04	-4.402095e-04
## 2547	-1.765749e+00	-1.597488e+00	-1.725252e-01	1.250769e+00	2.528663e+00
## 2549	8.411278e-03	-7.597021e-03	3.328401e-03	1.424022e-03	-2.515481e-03
## 2552	-1.379694e+00	-8.080646e-01	-4.889408e-01	1.765232e-01	5.743842e-01
## 2553	1.231087e+00	-3.847161e+00	1.293192e+00	-1.027741e+00	2.662728e+00
## 2554	2.671402e-03	-2.412806e-03	1.057115e-03	4.522128e-04	-7.988225e-04
## 2555	-1.097258e+00	-1.244066e+00	1.407438e-01	-9.915344e-01	2.482002e+00
## 2556	1.555132e-05	-1.376352e-05	6.147496e-06	2.572629e-06	-4.666975e-06
## 2558	2.382669e-03	-2.152016e-03	9.428422e-04	4.033758e-04	-7.125486e-04
## 2559	-1.312104e-02	4.479740e-03	-2.378870e-02	1.440665e-01	-6.491111e-02
## 2560	-2.871063e-01	-1.633613e+00	4.450181e-01	-9.060623e-01	2.186505e+00
## 2562	-5.619672e-01	-1.607022e+00	3.704163e-01	-9.767173e-01	2.394174e+00
## 2564	-2.055667e-02	-2.177214e-02	3.766803e-03	-2.173030e-02	5.090070e-02

## 2567	-1.467056e-01	-4.661523e-02	-5.308102e-02	1.092248e-02	5.797998e-02
## 2569	-7.983272e-03	-4.072349e-03	-4.568429e-03	2.767451e-02	-2.662557e-03
## 2570	-4.589276e-03	-5.094246e-03	-1.559541e-03	1.067499e-03	2.100217e-03
## 2571	-2.434774e+00	-7.018357e-01	-8.829443e-01	1.669417e-01	9.565930e-01
## 2572	-1.719542e-08	2.746824e-09	-3.900766e-08	2.504449e-07	-1.140573e-07
## 2573	1.311479e+00	-2.236702e+00	8.294071e-01	-2.544205e-01	7.751704e-01
## 2574	7.651125e-05	-6.703376e-05	3.032559e-05	1.227859e-05	-2.263181e-05
## 2576	1.158352e-03	-1.046220e-03	4.583625e-04	1.961506e-04	-3.464371e-04
## 2577	2.268720e-01	-2.330605e-01	9.057228e-02	4.398989e-02	-6.556917e-02
## 2578	3.798349e-05	-9.997677e-05	3.441009e-05	-2.331567e-05	6.151548e-05
## 2579	3.281126e-04	-2.961711e-04	1.298425e-04	5.548672e-05	-9.809714e-05
## 2580	1.723876e-01	-1.574875e-01	6.874258e-02	2.837530e-02	-4.957021e-02
## 2581	7.566884e-01	1.836281e-01	2.753621e-01	-4.499686e-02	-2.945775e-01
## 2582	-6.102785e-01	-1.513341e+00	3.677600e-01	-1.038397e+00	2.473515e+00
## 2584	8.753653e-05	-6.462576e-05	3.684297e-05	5.579244e-06	-1.727089e-05
## 2585	3.881740e+00	-3.520829e+00	1.536444e+00	6.601420e-01	-1.159704e+00
## 2588	5.769215e-01	1.205593e-01	2.104838e-01	-3.042504e-02	-2.230633e-01
## 2589	9.007872e-02	2.474000e-02	3.270008e-02	-5.931610e-03	-3.529431e-02
## 2591	1.670793e-04	3.660079e-05	6.108620e-05	-9.577087e-06	-6.405499e-05
## 2592	-8.977031e-03	-3.371707e-02	-2.389856e-03	6.826391e-03	5.984574e-03
## 2593	3.360750e-02	9.365959e-03	1.219632e-02	-2.240118e-03	-1.317865e-02
## 2594	-7.371951e-01	-9.013150e-01	-2.482183e-01	1.880634e-01	3.438795e-01
## 2596	6.535174e-01	1.437701e-01	2.382291e-01	-3.590281e-02	-2.532460e-01
## 2597	1.350124e-01	-1.219425e-01	5.342533e-02	2.285748e-02	-4.037687e-02
## 2598	6.240860e-01	-5.189055e-01	2.456557e-01	9.745955e-02	-1.903659e-01
## 2601	-5.859767e-05	-5.555983e-05	5.305496e-06	-5.046389e-05	1.243307e-04
## 2602	2.276178e-04	-2.055205e-04	9.006979e-05	3.851907e-05	-6.807023e-05
## 2603	-1.374792e-01	-4.078695e-02	-4.982316e-02	9.657372e-03	5.410531e-02
## 2604	5.101126e-01	-4.606905e-01	2.018540e-01	8.635350e-02	-1.525576e-01
## 2605	1.383288e+00	-2.296761e+00	8.546107e-01	-2.357063e-01	7.414455e-01
## 2606	4.380444e-02	-1.521854e-01	5.056690e-02	-4.357947e-02	1.118687e-01
## 2607	-5.680586e-05	-6.670416e-05	1.234737e-05	-6.307181e-05	1.479460e-04
## 2608	3.832296e-03	-3.461311e-03	1.516471e-03	6.487923e-04	-1.146068e-03
## 2610	3.442647e-01	-4.177246e-01	1.391943e-01	7.959644e-02	-9.453621e-02

## 2611	1.199170e-04	-8.665527e-05	4.764855e-05	1.403221e-05	-3.449228e-05
## 2612	-1.624319e-01	5.816576e-02	-2.876582e-01	1.729712e+00	-7.782710e-01
## 2613	-2.566574e-02	-1.612756e-02	-9.065074e-03	3.502401e-03	1.077139e-02
## 2614	-4.497126e-03	-1.015509e-01	2.938719e-02	-4.859931e-02	1.185430e-01
## 2615	4.951482e-06	1.409284e-06	1.727230e-06	2.044833e-07	-2.197926e-06
## 2616	2.267123e-04	8.852211e-06	8.424587e-05	-5.395359e-06	-8.283762e-05
## 2617	2.136014e-03	-1.929202e-03	8.452405e-04	3.616037e-04	-6.387765e-04
## 2619	2.144839e-03	-1.937188e-03	8.487318e-04	3.631039e-04	-6.414195e-04
## 2620	-4.629266e-02	1.652562e-02	-8.211166e-02	4.939848e-01	-2.222858e-01
## 2621	2.031673e-01	-1.874379e-01	7.042801e-02	1.127945e-01	-9.765049e-02
## 2622	-1.243010e-02	-1.301831e-02	2.097433e-03	-1.208680e-02	3.010775e-02
## 2624	1.937483e-03	2.228783e-04	9.013221e-04	-5.281672e-04	-4.424684e-06
## 2628	3.247431e-01	9.050073e-02	1.178508e-01	-2.164569e-02	-1.273428e-01
## 2629	4.465405e-01	-4.250158e-01	1.831104e-01	6.575231e-02	-1.094335e-01
## 2630	6.702595e-02	1.866815e-02	2.432434e-02	-4.465423e-03	-2.628230e-02
## 2631	-1.313736e-01	-4.803519e-01	1.172953e-01	-2.752856e-01	6.751274e-01
## 2634	2.321352e-01	6.469013e-02	8.424302e-02	-1.547248e-02	-9.102794e-02
## 2635	9.213639e-01	-8.319310e-01	3.645834e-01	1.559383e-01	-2.755625e-01
## 2636	6.397921e-01	1.783011e-01	2.321836e-01	-4.264546e-02	-2.508844e-01
## 2637	6.200923e-03	-5.600640e-03	2.453748e-03	1.049811e-03	-1.854451e-03
## 2638	-1.745631e-01	-8.610361e-01	2.200864e-01	-4.630053e-01	1.138460e+00
## 2639	1.490173e-03	-1.345902e-03	5.896727e-04	2.522792e-04	-4.456482e-04
## 2643	4.283538e-02	6.923393e-03	1.568433e-02	-1.854145e-03	-1.640234e-02
## 2644	-3.413003e-01	-1.930069e+00	5.142079e-01	-1.044120e+00	2.542449e+00
## 2645	4.709101e-01	-1.778585e+00	5.857605e-01	-5.334029e-01	1.361131e+00
## 2646	-1.197797e-01	-3.500050e-02	-4.342361e-02	8.307174e-03	4.709741e-02
## 2647	-9.267635e-04	-1.653898e-03	3.683688e-04	-1.285208e-03	3.041381e-03
## 2648	7.023822e-05	-6.343883e-05	2.779376e-05	1.189125e-05	-2.100542e-05
## 2649	-6.738766e-05	2.414661e-05	-1.193006e-04	7.172918e-04	-3.227336e-04
## 2650	2.113839e-02	-1.734737e-01	1.265707e-02	3.438106e-02	5.865803e-03
## 2651	5.061940e-01	-4.571917e-01	2.003045e-01	8.569800e-02	-1.513823e-01
## 2652	-3.652680e-04	-1.267631e-04	-1.318403e-04	2.927248e-05	1.452939e-04
## 2653	1.870365e-01	-1.914309e-01	1.717463e-02	4.787570e-01	-2.663159e-01
## 2654	-2.698813e-01	-2.006024e+00	5.492305e-01	-1.045472e+00	2.546841e+00

## 2655	5.904087e-04	1.645390e-04	2.142621e-04	-3.935388e-05	-2.315195e-04
## 2656	-5.675713e-05	-5.651264e-05	6.793702e-06	-5.219691e-05	1.267306e-04
## 2657	1.617666e-03	-1.762043e-03	6.548227e-04	3.184622e-04	-4.355995e-04
## 2658	6.076586e-01	-5.488327e-01	2.404547e-01	1.028758e-01	-1.817268e-01
## 2659	6.199830e-02	-5.689076e-02	2.462820e-02	1.050335e-02	-1.819999e-02
## 2660	4.818900e-02	-6.178424e-02	1.960118e-02	1.174124e-02	-1.287447e-02
## 2661	-5.942060e-02	-2.411708e-02	-2.135407e-02	5.468996e-03	2.389675e-02
## 2662	1.621516e-01	-6.570303e-02	6.192331e-02	1.133066e-02	-5.485236e-02
## 2663	1.314672e-01	-1.919816e-01	-1.328259e-01	1.476334e+00	-7.235295e-01
## 2665	6.842724e-05	1.904620e-05	2.483322e-05	-4.556337e-06	-2.683081e-05
## 2667	-1.491344e+01	-5.045484e+00	-5.387473e+00	1.171599e+00	5.918113e+00
## 2670	-3.476104e-01	-3.770869e-01	9.298805e-03	3.931308e-02	6.591764e-01
## 2671	1.595600e-03	-1.441125e-03	6.313907e-04	2.701287e-04	-4.771778e-04
## 2672	1.103470e+00	-1.289244e+00	5.226781e-01	5.506159e-02	-6.541161e-03
## 2673	-1.726037e-02	-1.825510e-02	3.157012e-03	-1.825078e-02	4.271674e-02
## 2675	1.976005e-01	-1.807105e-01	7.251944e-02	7.807288e-02	-8.009059e-02
## 2679	8.599080e-02	-8.268210e-02	3.519778e-02	1.304181e-02	-2.134411e-02
## 2681	4.068190e+00	-3.694718e+00	1.610376e+00	6.928033e-01	-1.215031e+00
## 2683	1.285666e-03	-1.161171e-03	5.087467e-04	2.176529e-04	-3.844911e-04
## 2685	-2.837435e+00	-1.419751e+00	-1.012258e+00	3.146969e-01	1.162202e+00
## 2687	5.846553e+00	-5.282344e+00	2.309294e+00	1.023107e+00	-1.764121e+00
## 2688	4.826722e-01	-4.486138e-01	1.594512e-01	3.301379e-01	-2.611109e-01
## 2690	5.606777e-04	-1.930588e-04	2.138813e-04	3.062317e-05	-1.895998e-04
## 2692	4.788782e-04	-4.324977e-04	1.894955e-04	8.106749e-05	-1.432126e-04
## 2695	7.301540e-02	-1.525876e-01	3.131379e-02	2.961844e-02	-1.494955e-02
## 2696	-5.930570e-01	1.821845e-01	-1.019388e+00	6.143397e+00	-2.726577e+00
## 2698	3.653302e-04	-2.327631e-04	1.420819e-04	4.191726e-05	-1.160775e-04
## 2700	1.129898e-03	-1.020421e-03	4.471316e-04	1.912084e-04	-3.378157e-04
## 2703	-2.600808e-01	-1.813834e+00	5.016913e-01	-9.720592e-01	2.351321e+00
## 2708	2.053287e-03	-1.854515e-03	8.125015e-04	3.476146e-04	-6.140499e-04
## 2709	-1.948158e-06	2.006808e-07	-3.195391e-07	-1.014758e-06	2.279063e-06
## 2710	1.360913e-03	-1.229374e-03	5.380085e-04	2.344465e-04	-4.088984e-04
## 2713	-1.355675e+00	-1.450052e+00	2.594597e-01	-1.457191e+00	3.398972e+00
## 2714	-6.997587e-01	-1.665736e+00	3.802974e-01	-1.108283e+00	2.678565e+00

##	2715	1.873580e-01	5.221185e-02	6.799317e-02	-1.248795e-02	-7.346932e-02
##	2716	1.571324e-03	-1.419187e-03	6.217846e-04	2.660154e-04	-4.699172e-04
##	2717	-1.906828e-02	-5.330224e-03	-6.919511e-03	1.274204e-03	7.478634e-03
##	2719	3.652704e-06	-2.586062e-06	1.426128e-06	4.747826e-07	-1.146536e-06
##	2721	-1.415104e+01	-9.919527e+00	-4.969605e+00	2.136227e+00	6.019782e+00
##	2722	7.069617e-05	6.580924e-06	2.689892e-05	-4.237825e-06	-2.330037e-05
##	2724	-6.032976e-01	-1.607528e+00	3.483374e-01	-9.596253e-01	2.383392e+00
##	2725	-7.635590e-01	-7.855322e-01	-4.931635e-02	5.171754e-01	1.188698e+00
##	2726	1.961128e-03	-1.771283e-03	7.760332e-04	3.320144e-04	-5.864904e-04
##	2727	8.236266e-03	2.012809e-03	2.996821e-03	-4.925864e-04	-3.207472e-03
##	2728	1.593119e-03	-1.438880e-03	6.304092e-04	2.697062e-04	-4.764334e-04
##	2729	1.641299e-03	-1.482383e-03	6.494775e-04	2.778522e-04	-4.908298e-04
##	2730	5.619014e-05	-4.299093e-05	2.201946e-05	7.963773e-06	-1.741533e-05
##	2731	3.339838e-03	-3.016674e-03	1.321689e-03	5.652458e-04	-9.984604e-04
##	2732	9.792890e-10	-8.999163e-10	3.606070e-10	3.854012e-10	-3.923786e-10
##	2733	-1.149958e-01	-5.017571e-02	-4.122930e-02	1.128396e-02	4.652177e-02
##	2734	1.002398e+00	-9.050036e-01	3.966446e-01	1.696445e-01	-2.998109e-01
##	2735	3.077185e-04	8.029560e-05	1.118644e-04	-1.951915e-05	-1.200814e-04
##	2736	-1.800738e-07	6.041280e-08	-3.291221e-07	1.998013e-06	-9.006328e-07
##	2737	2.411915e-04	-2.177089e-04	9.544262e-05	4.079405e-05	-7.212127e-05
##	2741	9.186705e-04	-7.779265e-04	3.644917e-04	1.393145e-04	-2.695422e-04
##	2742	4.847214e-01	1.119013e-01	1.765511e-01	-2.768073e-02	-1.882501e-01
##	2743	5.421526e-05	-4.885641e-05	2.145139e-05	9.153836e-06	-1.621808e-05
##	2744	7.474432e-05	-5.142495e-04	1.615696e-04	-1.900849e-04	4.740019e-04
##	2746	2.236994e-05	-8.420013e-06	1.186640e-05	-6.722100e-06	5.267482e-06
##	2747	1.993502e-03	-1.801073e-03	7.892376e-04	3.366810e-04	-5.946688e-04
##	2749	1.415625e-01	-1.265836e-01	5.598187e-02	2.371199e-02	-4.243621e-02
##	2750	6.442792e-04	-5.818793e-04	2.549463e-04	1.090663e-04	-1.926752e-04
##	2751	1.326991e+00	-2.476195e+00	9.020175e-01	-3.537606e-01	1.020484e+00
##	2752	-1.822106e-01	-8.180708e-02	-6.526372e-02	1.833917e-02	7.389532e-02
##	2754	-4.115632e-01	-2.199457e-01	-1.464370e-01	4.844462e-02	1.696771e-01
##	2756	9.847610e-05	-8.652920e-05	4.026729e-05	1.285409e-05	-2.437047e-05
##	2757	1.776635e-01	-1.609493e-01	6.906314e-02	3.982761e-02	-5.771998e-02
##	2758	-1.398032e-01	-1.486791e-01	2.581748e-02	-1.482059e-01	3.469196e-01

## 2760	1.192254e+00	-1.177187e+00	5.008170e-01	1.578083e-01	-2.474334e-01
## 2761	-2.706390e-01	-1.171170e+00	3.106631e-01	-6.870239e-01	1.651853e+00
## 2763	4.290301e-02	-4.066633e-02	1.739051e-02	6.766587e-03	-1.129029e-02
## 2764	-2.939925e-02	-3.219643e-02	5.703953e-03	-3.158872e-02	7.398713e-02
## 2765	1.361491e+00	-2.823438e+00	1.008359e+00	-4.896571e-01	1.358657e+00
## 2767	-1.488415e-01	-4.259458e-01	-4.333780e-02	8.666004e-02	8.866956e-02
## 2768	2.909272e-01	-3.596697e-01	-1.293228e-01	1.972153e+00	-9.918135e-01
## 2769	5.738781e-01	-5.489342e-01	2.361264e-01	8.327826e-02	-1.376344e-01
## 2770	1.016181e-03	-2.561818e-04	3.845659e-04	3.904050e-05	-3.528099e-04
## 2771	2.896144e-01	7.960949e-02	1.051310e-01	-1.906873e-02	-1.134883e-01
## 2773	1.101056e-01	-5.659538e-01	1.772647e-01	-1.829685e-01	4.694325e-01
## 2774	6.620910e-04	-1.216730e-03	4.476301e-04	-1.756018e-04	5.003448e-04
## 2776	2.224439e-03	-2.009085e-03	8.802482e-04	3.765365e-04	-6.651546e-04
## 2777	-3.127525e-02	-3.887435e-02	9.465625e-03	-4.066194e-02	9.167972e-02
## 2778	2.275517e-03	-2.055123e-03	9.004488e-04	3.851857e-04	-6.804704e-04
## 2779	5.157831e-01	-4.704853e-01	2.054602e-01	8.523756e-02	-1.491320e-01
## 2781	6.724284e-05	-6.059259e-05	2.660623e-05	1.135193e-05	-2.011425e-05
## 2782	-8.393400e-01	-5.924866e-02	-2.581042e+00	1.751806e+01	-8.071536e+00
## 2784	-2.795007e-01	-1.594735e-01	-9.916790e-02	3.491717e-02	1.160263e-01
## 2787	1.534162e-01	-1.375193e-01	6.067906e-02	2.576398e-02	-4.596216e-02
## 2788	3.539986e-01	-9.807594e-01	3.327437e-01	-2.336068e-01	6.183880e-01
## 2790	1.972848e-06	-2.723828e-07	7.387751e-07	3.264361e-08	-7.088736e-07
## 2791	-1.082166e-03	2.607637e-05	-2.829026e-03	1.870232e-02	-8.562907e-03
## 2792	1.622751e+00	-1.671352e+00	6.502900e-01	3.098213e-01	-4.596647e-01
## 2793	-2.818018e-01	-3.308238e-02	-3.162139e-01	1.907937e+00	-6.702180e-01
## 2794	1.873912e-01	-1.919268e-01	1.688106e-02	4.822321e-01	-2.680282e-01
## 2795	5.767131e-05	-5.191305e-05	2.281832e-05	9.723200e-06	-1.725234e-05
## 2798	-2.526360e-01	9.055619e-02	-4.471963e-01	2.688639e+00	-1.209700e+00
## 2799	6.916285e+00	-1.036929e+01	2.817232e+00	2.258465e+00	-1.869212e+00
## 2800	9.257769e-02	-1.267875e-01	4.937137e-02	-3.875683e-03	2.021191e-02
## 2802	-1.503040e-07	4.978424e-08	-2.763280e-07	1.680417e-06	-7.577232e-07
## 2807	1.463223e-06	-8.401749e-07	5.660838e-07	1.505466e-07	-4.738162e-07
## 2811	-2.107442e-01	-6.137424e-01	1.538412e-01	-3.994839e-01	9.551136e-01
## 2812	3.343447e-01	-1.705921e+00	5.466444e-01	-5.794005e-01	1.458088e+00

## 2813	4.977265e-04	-1.509288e-04	1.890188e-04	2.378705e-05	-1.710060e-04
## 2814	-1.395055e-01	5.000271e-02	-2.469388e-01	1.484645e+00	-6.679858e-01
## 2815	-2.279739e+00	-2.769503e+00	5.228307e-01	-2.573115e+00	6.040062e+00
## 2816	2.288629e-02	-1.490697e-01	-3.150205e-01	2.553162e+00	-1.206409e+00
## 2817	-8.832638e+00	-2.980739e+00	-2.950448e+00	1.052215e-01	4.432060e+00
## 2818	-3.760399e+00	-2.312130e+00	-1.329578e+00	5.030239e-01	1.574145e+00
## 2820	-1.040012e-01	-9.647257e-01	2.612188e-01	-4.726217e-01	1.167170e+00
## 2821	3.838303e-03	-3.506211e-03	1.531555e-03	6.293475e-04	-1.099982e-03
## 2822	-1.314875e-03	-4.202975e-04	-4.756475e-04	9.831851e-05	5.199714e-04
## 2823	-1.215839e-05	4.351859e-06	-2.153681e-05	1.295118e-04	-5.827366e-05
## 2824	3.179704e-04	-2.871546e-04	1.258230e-04	5.382302e-05	-9.509163e-05
## 2826	2.821098e-03	-2.547884e-03	1.116374e-03	4.774659e-04	-8.434979e-04
## 2827	1.635800e-03	-1.477310e-03	6.473247e-04	2.768365e-04	-4.890938e-04
## 2828	1.085563e+01	-9.853476e+00	4.172870e+00	2.803696e+00	-3.700955e+00
## 2829	1.319075e-04	3.562864e-05	4.794624e-05	-8.676079e-06	-5.146286e-05
## 2831	3.320342e-03	-3.005835e-03	1.316422e-03	5.577827e-04	-9.833865e-04
## 2832	-1.863335e+01	-6.127342e+00	-6.359293e+00	5.085548e-01	8.833771e+00
## 2833	-2.477799e+01	-7.281742e+00	-8.981599e+00	1.726740e+00	9.745943e+00
## 2834	1.522424e-03	-1.375033e-03	6.024344e-04	2.577404e-04	-4.552944e-04
## 2835	-4.771083e-01	5.766831e-03	-6.209046e-01	3.743049e+00	-1.452814e+00
## 2837	-1.139022e+00	-1.204725e+00	2.083978e-01	-1.204522e+00	2.819152e+00
## 2838	-3.126675e-05	3.020106e-05	-7.417628e-06	-4.426887e-05	2.769084e-05
## 2839	1.430648e-03	-1.291508e-03	5.662069e-04	2.418158e-04	-4.274859e-04
## 2840	-6.428756e-02	-6.802058e-02	1.176946e-02	-6.799562e-02	1.591431e-01
## 2843	2.895559e-07	7.577053e-08	1.085324e-07	-2.640792e-08	-1.003757e-07
## 2845	-1.617391e+01	-4.507467e+00	-5.869589e+00	1.078080e+00	6.342347e+00
## 2846	-3.675544e-46	3.319731e-46	-1.454438e-46	-6.222665e-47	1.099210e-46
## 2847	-2.497460e-01	-1.762439e-01	-8.767305e-02	3.793461e-02	1.063366e-01
## 2848	6.673316e-04	-6.026706e-04	2.640704e-04	1.129561e-04	-1.995603e-04
## 2850	1.511982e-05	-1.418938e-05	6.140380e-06	2.318232e-06	-3.929994e-06
## 2852	1.927176e-01	-1.788525e-01	6.408815e-02	1.283602e-01	-1.026861e-01
## 2853	-3.649550e-04	-4.910233e-04	9.776400e-05	-4.335106e-04	1.019824e-03
## 2855	9.685601e-04	-8.747836e-04	3.832662e-04	1.639716e-04	-2.896563e-04
## 2856	-7.676613e-01	-1.161778e+00	1.578407e-01	-7.607068e-01	1.957169e+00

## 2857	-1.342951e-03	-1.354730e-03	1.396409e-04	-7.660153e-04	2.929604e-03
## 2860	4.032962e-05	-3.634407e-05	1.595701e-05	6.810135e-06	-1.206522e-05
## 2861	1.762865e-04	4.883814e-05	6.399378e-05	-1.171809e-05	-6.906458e-05
## 2862	4.604618e-03	-2.238943e-03	1.768883e-03	3.960384e-04	-1.527907e-03
## 2864	8.458898e-03	-7.640031e-03	3.347244e-03	1.432084e-03	-2.529722e-03
## 2865	4.753504e-04	-4.292559e-04	1.881018e-04	8.044976e-05	-1.421472e-04
## 2866	9.329409e-04	-8.424272e-04	3.692863e-04	1.576114e-04	-2.785559e-04
## 2867	4.664830e-01	-1.158266e+00	4.020722e-01	-2.548450e-01	6.783029e-01
## 2868	1.582346e-05	-1.418194e-05	6.258823e-06	2.655973e-06	-4.739198e-06
## 2869	1.689965e-03	-3.102741e-03	7.133127e-04	5.987934e-04	-3.780569e-04
## 2870	-4.352156e-02	-2.186545e-01	1.585773e-02	-1.913810e-02	1.332820e-01
## 2871	3.840760e-03	-3.468981e-03	1.519831e-03	6.502058e-04	-1.148559e-03
## 2872	2.710604e-03	-1.380776e-03	1.043004e-03	2.457379e-04	-8.945992e-04
## 2873	1.026998e+00	-1.648430e+00	6.191166e-01	-1.526448e-01	4.927926e-01
## 2875	1.986293e-01	-1.769555e-01	7.853110e-02	3.313958e-02	-5.959475e-02
## 2877	-4.946080e-02	-1.437225e-02	-1.797210e-02	3.720124e-03	1.929829e-02
## 2878	4.603476e-01	-4.047810e-01	1.818665e-01	7.571745e-02	-1.385027e-01
## 2879	2.912602e+00	-4.233112e+00	1.197215e+00	8.125280e-01	-7.440640e-01
## 2880	1.558177e-01	-1.399788e-01	6.147098e-02	2.750915e-02	-4.727192e-02
## 2881	4.609483e-01	-4.163288e-01	1.824002e-01	7.804096e-02	-1.378523e-01
## 2883	1.673578e+00	-1.557746e+00	6.635396e-01	2.925262e-01	-4.968194e-01
## 2884	5.060843e-01	-4.569944e-01	2.002610e-01	8.565354e-02	-1.513473e-01
## 2885	1.139029e-04	-1.028019e-04	4.507123e-05	1.926598e-05	-3.406531e-05
## 2887	4.582282e-05	-4.130997e-05	1.813085e-05	7.740994e-06	-1.370763e-05
## 2888	-1.558582e+01	-1.153833e+01	-5.456457e+00	2.475200e+00	6.678431e+00
## 2889	-1.579746e-01	5.656711e-02	-2.797708e-01	1.682297e+00	-7.569377e-01
## 2890	7.586474e-01	-6.852156e-01	3.002024e-01	1.284399e-01	-2.268803e-01
## 2891	-4.378582e-03	-1.340937e-03	-1.585623e-03	3.158627e-04	1.726633e-03
## 2892	4.530154e+00	-4.091884e+00	1.792623e+00	7.670006e-01	-1.354760e+00
## 2893	-1.719542e-08	2.746824e-09	-3.900766e-08	2.504449e-07	-1.140573e-07
## 2894	7.603529e+00	-7.170323e+00	3.097270e+00	1.152221e+00	-1.941202e+00
## 2895	-2.435017e+00	-1.693927e+00	-8.554970e-01	3.650020e-01	1.034821e+00
## 2896	6.465250e-04	-5.839036e-04	2.558350e-04	1.094454e-04	-1.933467e-04
## 2898	-6.209072e-02	-1.797052e-02	-2.251447e-02	4.271660e-03	2.440058e-02

## 2901	3.917558e-01	-1.506049e+00	4.903648e-01	-4.441573e-01	1.143408e+00
## 2903	8.653229e-01	-1.287524e+00	4.861477e-01	-6.906264e-02	2.811707e-01
## 2904	-2.753651e-02	-1.591849e-01	3.399555e-02	-6.502804e-02	1.761419e-01
## 2905	-8.414030e-04	-5.670293e-03	1.684213e-03	-3.346940e-03	7.848336e-03
## 2906	8.454762e-05	-3.921665e-05	3.254524e-05	6.604596e-06	-2.774689e-05
## 2907	-8.514701e-08	2.658051e-08	-1.606252e-07	9.840984e-07	-4.443723e-07
## 2908	-8.591488e-03	-6.003436e-03	-2.682367e-03	1.640118e-02	5.443117e-03
## 2909	-2.040763e-01	-1.782605e+00	-2.609993e-02	3.579770e-01	2.161746e-01
## 2910	4.693277e-01	-4.564609e-02	1.752182e-01	3.942136e-03	-1.701446e-01
## 2911	9.356727e-01	-2.424061e+00	8.328271e-01	-5.485330e-01	1.459301e+00
## 2912	8.124883e-01	-1.410958e+00	5.213373e-01	-1.691741e-01	5.084504e-01
## 2913	1.844302e-03	-1.665748e-03	7.298046e-04	3.122302e-04	-5.515505e-04
## 2914	-6.672659e-03	-5.712233e-01	1.677057e-01	-2.625663e-01	6.425584e-01
## 2916	-3.137604e-05	-1.733790e-05	-7.276860e-06	-5.642346e-06	2.790816e-05
## 2918	1.100844e+01	-9.999119e+00	4.215224e+00	2.972226e+00	-3.813703e+00
## 2920	2.268134e-03	-5.451854e-02	2.354474e-03	1.085756e-02	3.456415e-03
## 2921	-2.441845e+00	-3.585492e+00	7.352492e-01	-3.018316e+00	7.127812e+00
## 2922	3.420276e-03	-3.089386e-03	1.353543e-03	5.788216e-04	-1.022426e-03
## 2923	8.682629e-04	-9.454826e-04	3.968563e-04	6.006584e-05	-5.877120e-05
## 2924	1.788915e-04	-1.609141e-04	7.081460e-05	3.004631e-05	-5.338047e-05
## 2925	-1.045265e-06	3.697756e-07	-1.862491e-06	1.122043e-05	-5.050382e-06
## 2926	1.310481e-04	1.518130e-05	4.865078e-05	-5.696450e-06	-4.777778e-05
## 2927	5.819599e-01	-5.206699e-01	2.301482e-01	9.753619e-02	-1.744308e-01
## 2928	-2.680359e-01	-8.605479e-01	1.809794e-01	-4.512138e-01	1.155869e+00
## 2929	-2.534870e-01	-1.086826e-01	-9.093588e-02	2.449053e-02	1.023966e-01
## 2930	-1.097802e+00	-1.488384e+00	2.672847e-01	-1.235578e+00	2.964037e+00
## 2931	-7.877385e+00	-3.452588e+00	-2.823840e+00	7.760618e-01	3.188022e+00
## 2933	-1.755215e-03	5.369384e-04	-3.339466e-03	2.050873e-02	-9.265199e-03
## 2934	-1.450256e+00	-8.382481e-01	-5.142546e-01	1.833221e-01	6.028897e-01
## 2935	-8.011854e-01	-8.474227e-01	5.179810e-02	-6.158742e-01	1.617464e+00
## 2936	2.836580e-03	-2.561994e-03	1.122458e-03	4.802242e-04	-8.482949e-04
## 2938	-4.277594e-02	-4.389004e-01	1.119767e-01	-1.942057e-01	4.963639e-01
## 2939	-3.333560e-02	-3.525364e-02	6.095492e-03	-3.523441e-02	8.249407e-02
## 2940	1.394132e-01	-8.429912e-01	2.443107e-01	-2.463577e-01	6.674033e-01

## 2941	1.648895e-03	-1.489260e-03	6.524799e-04	2.791508e-04	-4.931154e-04
## 2943	2.028531e+00	-1.847321e+00	8.031440e-01	3.464084e-01	-6.053847e-01
## 2945	-1.557703e+00	-1.647346e+00	2.849382e-01	-1.647184e+00	3.855180e+00
## 2946	5.550910e-01	-3.576157e+00	1.090111e+00	-1.208633e+00	3.103690e+00
## 2947	-3.881253e-02	1.384332e-02	-6.887412e-02	4.144038e-01	-1.864804e-01
## 2948	-2.157835e+01	-8.288302e+00	-7.767748e+00	1.892426e+00	8.640770e+00
## 2950	1.362279e+00	-1.973294e+00	7.568883e-01	-1.024350e-01	4.115624e-01
## 2954	2.117162e-01	-1.961343e-01	6.834216e-02	1.567659e-01	-1.204213e-01
## 2955	-4.322308e-01	-2.141797e+00	5.656048e-01	-1.194231e+00	2.898282e+00
## 2956	2.429584e-04	6.527616e-05	8.827074e-05	-1.578802e-05	-9.495543e-05
## 2957	5.009801e-03	-1.762653e-02	2.349025e-03	3.456532e-03	-4.549533e-04
## 2959	-3.450884e-01	-1.226407e+00	3.038581e-01	-7.221953e-01	1.758017e+00
## 2961	-1.120192e-01	-2.785442e-01	5.360387e-02	-1.564794e-01	4.004013e-01
## 2962	7.095773e-01	-1.278008e+00	4.675364e-01	-1.653687e-01	4.899257e-01
## 2964	-6.450763e-01	-1.189459e+00	2.364942e-01	-8.357425e-01	2.039104e+00
## 2965	4.948679e-03	-1.189961e-03	1.867305e-03	1.827945e-04	-1.737832e-03
## 2966	3.653201e-06	-6.923286e-07	1.379257e-06	8.327041e-08	-1.274627e-06
## 2967	-4.058185e-05	-7.583498e-05	-1.242298e-05	1.458131e-05	2.298288e-05
## 2968	2.595168e-02	-9.536164e-04	9.645174e-03	-9.545576e-05	-9.531921e-03
## 2969	5.516066e-04	-4.109206e-04	2.160676e-04	7.543381e-05	-1.710062e-04
## 2970	1.196700e-01	-1.080356e-01	4.732986e-02	2.042751e-02	-3.587745e-02
## 2974	9.070362e-01	-8.945580e-01	3.623399e-01	1.653556e-01	-2.602026e-01
## 2976	-3.702651e-01	-8.618025e-01	1.926125e-01	-5.706380e-01	1.384648e+00
## 2977	-3.391238e-01	-1.435051e+00	3.678425e-01	-8.172607e-01	1.988119e+00
## 2979	1.560941e-02	-1.409833e-02	6.176749e-03	2.642659e-03	-4.668156e-03
## 2980	-2.968452e-03	1.411487e-03	-6.194773e-03	3.869248e-02	-1.767705e-02
## 2981	5.550200e+00	-5.223941e+00	2.202110e+00	9.817740e-01	-1.643225e+00
## 2982	-5.227401e-07	1.826610e-07	-9.371514e-07	5.656321e-06	-2.546862e-06
## 2985	-1.569728e-03	-3.546966e-03	-4.833241e-04	7.253340e-04	8.605581e-04
## 2986	9.665878e-04	-8.729343e-04	3.824924e-04	1.636034e-04	-2.890391e-04
## 2987	3.244908e-04	9.041586e-05	1.177599e-04	-2.162660e-05	-1.272417e-04
## 2988	-7.145181e-01	-2.350924e+00	6.014684e-01	-1.478138e+00	3.538622e+00
## 2989	-1.032299e-01	-3.577260e-02	-3.726810e-02	8.278745e-03	4.103209e-02
## 2992	1.153957e-03	-1.042378e-03	4.563014e-04	1.979394e-04	-3.463147e-04

##	2994	-9.391853e-01	-1.603757e+00	3.654629e-01	-1.302623e+00	3.053946e+00
##	2995	2.126912e-01	-1.921016e-01	8.416338e-02	3.600845e-02	-6.360755e-02
##	2996	-8.419741e-03	-8.918227e-03	1.544271e-03	-8.909721e-03	2.085360e-02
##	2997	-3.386022e-02	-3.579998e-02	6.180293e-03	-3.572293e-02	8.375095e-02
##	2998	6.571025e-04	-1.968343e-03	2.993588e-04	3.828441e-04	-8.368926e-05
##		[,21]	[,22]	[,23]	[,24]	[,25]
##	3	-2.462907e-01	2.560366e-01	1.288739e+00	1.778786e+00	6.046515e-01
##	4	-1.663104e-05	3.203796e-07	1.065285e-04	1.536781e-04	6.680534e-05
##	6	-6.649486e-05	5.917860e-06	4.221500e-04	6.023449e-04	2.581359e-04
##	7	-4.084844e-01	4.739814e-02	2.571028e+00	3.696377e+00	1.580221e+00
##	8	2.160371e-07	-1.165203e-06	-4.759699e-08	3.006699e-07	9.139027e-07
##	9	-9.192404e-05	1.931341e-06	5.886230e-04	8.491004e-04	3.689969e-04
##	10	-4.148966e-06	-4.260615e-07	2.718639e-05	3.934689e-05	1.751874e-05
##	11	-1.131907e-04	2.560230e-06	7.246310e-04	1.045088e-03	4.540046e-04
##	13	1.319835e-01	-6.488117e-01	-1.025776e-01	5.870864e-02	4.590418e-01
##	15	-1.022490e-01	4.745377e-01	2.703929e-01	-2.878618e-01	-5.022716e-01
##	16	-1.421477e-02	6.829790e-02	3.566928e-02	-4.605235e-02	-7.431578e-02
##	18	-3.555850e-02	7.503634e-04	2.276874e-01	3.284459e-01	1.427245e-01
##	21	4.701989e-07	-5.583246e-06	3.608230e-06	6.737933e-06	7.217750e-06
##	22	8.951407e-04	2.394148e-02	3.951660e-02	-3.609346e-02	1.560200e-01
##	23	-5.608664e-02	2.838473e-01	8.929995e-01	1.898192e-01	2.108273e+00
##	24	-9.929011e-07	-3.445715e-07	6.784168e-06	9.895891e-06	4.561799e-06
##	25	-3.934592e-04	1.538258e-03	1.274110e-03	-3.563054e-04	-1.376707e-03
##	26	-1.682310e-05	2.232182e-07	1.078859e-04	1.556554e-04	6.776161e-05
##	27	-3.568236e-03	1.544684e-02	5.181659e-03	2.555213e-03	-9.201213e-03
##	28	-3.284108e+00	1.460441e+01	4.322296e+00	1.584817e+00	-9.065253e+00
##	29	-8.475784e-03	1.696245e-04	5.431379e-02	7.824864e-02	3.399708e-02
##	30	3.895552e-04	-1.948923e-03	-2.636993e-04	2.404031e-04	1.406996e-03
##	31	-1.609562e-02	1.051920e-02	9.478118e-02	1.221151e-01	4.493544e-02
##	32	-5.459325e-02	1.574768e-01	6.435097e-01	3.223825e-01	1.257052e+00
##	35	-4.088733e-02	8.732013e-04	2.617968e-01	3.776465e-01	1.640973e-01
##	36	-7.048220e-02	2.262845e-03	4.527208e-01	6.501131e-01	2.879223e-01
##	38	-1.528507e-06	-5.639568e-06	1.630643e-05	2.533708e-05	1.481629e-05
##	39	-2.324886e-01	1.034836e+00	6.503241e-01	-5.388407e-01	-1.056671e+00

## 40	-3.728909e+00	1.780620e+01	3.501066e+00	-6.210983e-01	-1.216629e+01
## 41	-2.503566e-03	5.707819e-02	7.316748e-02	-7.016428e-02	2.291716e-01
## 44	1.257063e-04	-1.278656e-03	6.618123e-04	1.362783e-03	1.448757e-03
## 45	-2.090471e-05	4.168200e-07	1.338863e-04	1.931407e-04	8.394918e-05
## 47	-9.681046e-04	2.067610e-05	6.198661e-03	8.941675e-03	3.885392e-03
## 49	-7.014822e-03	-1.633279e-03	4.696684e-02	6.831338e-02	3.087974e-02
## 50	-3.071483e-02	7.295257e-02	1.378641e-01	9.503424e-02	-1.646385e-02
## 52	-2.583599e-02	9.003317e-03	1.768579e-01	2.275963e-01	1.477814e-01
## 53	-8.250264e-08	3.941734e-07	2.088489e-07	-2.614711e-07	-4.269918e-07
## 55	-3.327361e-05	6.506527e-07	2.131231e-04	3.074446e-04	1.336515e-04
## 56	-5.192079e-02	3.068377e-01	8.581446e-01	1.106241e-01	2.105701e+00
## 57	-3.711215e-02	-6.425282e-03	2.460683e-01	3.570941e-01	1.603909e-01
## 58	-1.994524e-07	-4.076576e-07	1.753275e-06	2.657689e-06	1.438375e-06
## 59	-2.952677e+00	1.408492e+01	2.789090e+00	-4.628520e-01	-9.611275e+00
## 60	-5.292352e-02	2.608774e-01	7.843284e-01	1.750582e-01	1.821211e+00
## 63	-4.709665e-02	1.488475e-01	1.812293e-01	4.936722e-02	-9.662826e-02
## 65	3.263475e-05	-1.753968e-04	-8.086237e-06	4.414413e-05	1.366105e-04
## 66	-8.482922e-06	-1.009112e-04	1.707935e-04	2.783829e-04	1.895409e-04
## 67	-6.314905e-04	7.768732e-02	1.507273e-01	-8.437033e-02	5.199604e-01
## 69	-5.315493e+00	2.564259e+01	4.691664e+00	-1.399964e+00	-1.774107e+01
## 71	-7.817065e-01	3.374164e+00	1.146173e+00	5.791466e-01	-2.001483e+00
## 76	-3.059981e-05	5.569141e-07	1.960513e-04	2.828228e-04	1.229929e-04
## 77	-1.788212e-04	3.754486e-06	1.145099e-03	1.651783e-03	7.179237e-04
## 78	-5.028046e-02	9.792260e-02	5.050320e-01	3.519861e-01	8.474871e-01
## 79	-4.955355e-02	3.542128e-01	9.843222e-01	4.760204e-02	2.551744e+00
## 80	-4.543388e-05	6.944839e-07	2.913588e-04	4.202212e-04	1.831277e-04
## 81	-7.620011e-05	1.570867e-06	4.880541e-04	7.039406e-04	3.061473e-04
## 82	7.603672e-03	-3.764846e-02	-5.599352e-03	3.916098e-03	2.685888e-02
## 83	-4.733161e-04	2.220026e-03	4.908469e-04	6.470657e-07	-1.482004e-03
## 87	-5.014776e+00	2.349567e+01	5.226465e+00	5.632616e-02	-1.567177e+01
## 90	-1.137212e-04	2.412464e-06	7.281655e-04	1.050393e-03	4.564423e-04
## 93	-1.171535e-04	2.486365e-06	7.501417e-04	1.082093e-03	4.702173e-04
## 94	-4.550993e-04	9.719691e-06	2.913948e-03	4.203420e-03	1.826496e-03
## 95	-4.864826e-06	1.077218e-08	3.125885e-05	4.511783e-05	1.967486e-05

## 96	-3.673601e-02	1.013287e-01	1.533921e-01	7.703276e-02	-4.683279e-02
## 97	-1.203772e-02	5.549920e-02	1.358156e-02	1.917336e-03	-3.623994e-02
## 98	3.397213e-02	-1.670419e-01	-2.635741e-02	1.519014e-02	1.182168e-01
## 99	-9.008324e-03	3.797967e-02	1.425358e-02	8.463633e-03	-2.166464e-02
## 100	1.371491e-05	-1.323288e-04	6.974053e-05	1.360440e-04	1.626751e-04
## 102	-5.496972e-01	6.256102e-01	4.611416e+00	4.346116e+00	6.113437e+00
## 103	-1.201018e-04	5.777736e-03	8.011928e-03	-7.558751e-03	2.730468e-02
## 104	-3.309719e-08	1.568220e-07	8.485062e-08	-1.014828e-07	-1.687568e-07
## 105	8.232457e-06	2.607313e-04	4.214603e-04	-3.840139e-04	1.654999e-03
## 106	-1.494823e+00	7.237421e+00	1.289262e+00	-4.455401e-01	-5.029269e+00
## 107	-3.461258e-02	1.701504e-01	2.690096e-02	-1.539623e-02	-1.203834e-01
## 108	-8.183439e-01	3.748463e+00	9.514120e-01	1.787328e-01	-2.426220e+00
## 109	-5.426894e+00	2.609039e+01	4.892996e+00	-1.252049e+00	-1.797571e+01
## 110	3.951622e-02	-1.561511e-01	2.445770e-01	2.798605e-02	9.395892e-01
## 111	-2.786141e-02	6.845577e-01	9.568293e-01	-6.749141e-01	3.284115e+00
## 112	-7.026163e-05	8.464818e-07	4.510828e-04	6.503713e-04	2.842134e-04
## 113	1.229214e-01	-6.042676e-01	-9.553051e-02	5.468475e-02	4.275293e-01
## 115	-2.902484e-01	1.217303e+00	4.664196e-01	2.853121e-01	-6.887490e-01
## 118	-3.050340e-02	3.120239e-01	5.565384e-01	-1.408261e-01	1.585068e+00
## 119	-3.707591e-02	7.829710e-04	2.374030e-01	3.424607e-01	1.488142e-01
## 120	7.200279e-04	-3.550166e-03	-5.474082e-04	3.412725e-04	2.520518e-03
## 121	1.489048e-03	5.559064e-02	8.935726e-02	-8.163920e-02	3.450016e-01
## 122	-7.218113e-02	1.098838e+00	2.511493e+00	-6.137598e-01	7.537668e+00
## 124	-9.392493e-05	1.952423e-06	6.014553e-04	8.676229e-04	3.770496e-04
## 125	-4.833094e-01	7.041458e-01	2.298330e+00	3.091869e+00	8.809176e-01
## 126	-8.597341e-05	1.822086e-06	5.504960e-04	7.941020e-04	3.450730e-04
## 127	-4.247837e-02	9.058265e-04	2.719857e-01	3.923445e-01	1.704849e-01
## 128	-1.979942e+00	6.251724e+00	5.542195e+00	6.005818e+00	-1.552577e+00
## 130	4.753844e-02	-2.496306e-01	-1.862737e-02	5.267156e-02	1.897350e-01
## 131	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02
## 133	5.416720e-07	-2.814772e-06	-2.383484e-07	5.437118e-07	2.138002e-06
## 134	-4.022143e-06	2.586206e-05	7.442999e-05	7.215483e-06	1.878494e-04
## 135	-1.587021e-04	4.407259e-04	6.603316e-04	3.248426e-04	-2.081901e-04
## 136	-1.050100e-01	4.016061e-01	2.133739e-01	1.799869e-01	-1.897267e-01

## 137	-4.360317e-02	1.937807e-01	1.209208e-01	-9.779043e-02	-1.959567e-01
## 138	-1.671773e-04	-1.022451e-04	1.192938e-03	1.753634e-03	8.353290e-04
## 141	-5.172931e-05	1.082539e-06	3.312449e-04	4.778306e-04	2.076514e-04
## 143	-3.472857e-06	1.209695e-08	2.230891e-05	3.219936e-05	1.403638e-05
## 144	8.237180e-02	-4.241020e-01	-4.198088e-02	7.456600e-02	3.158388e-01
## 146	-6.392013e-05	1.346417e-06	4.092971e-04	5.904213e-04	2.565723e-04
## 147	-7.533171e-01	2.369310e+00	2.119894e+00	2.303616e+00	-5.750376e-01
## 148	5.333401e-05	-2.836958e-04	-1.581219e-05	6.652163e-05	2.208837e-04
## 149	-4.773435e+00	2.346544e+01	3.709999e+00	-2.123168e+00	-1.660202e+01
## 150	-2.454168e-02	5.359096e-01	9.826108e-01	-4.449604e-01	3.164525e+00
## 151	6.565167e-05	-3.228638e-04	-5.085848e-05	2.946404e-05	2.285825e-04
## 153	-3.456013e-05	7.057246e-07	2.213217e-04	3.192707e-04	1.387532e-04
## 154	1.397261e-05	-7.225341e-05	-6.713687e-06	1.328141e-05	5.418213e-05
## 155	1.157761e-05	-5.786863e-05	-7.900697e-06	7.038458e-06	4.172859e-05
## 157	-3.097984e-01	7.515076e-02	1.904839e+00	2.725827e+00	1.138471e+00
## 158	-1.294612e+00	6.364123e+00	1.006178e+00	-5.758585e-01	-4.502687e+00
## 159	-8.114594e-01	1.761171e-01	5.065983e+00	7.081548e+00	2.950470e+00
## 162	-1.159668e-01	4.309799e-03	7.404151e-01	1.067475e+00	4.626160e-01
## 163	7.324675e-05	-9.784463e-04	6.538897e-04	1.255717e-03	1.201397e-03
## 164	-2.685845e-04	1.790109e-05	1.755993e-03	2.470168e-03	1.194853e-03
## 165	-4.644743e-02	2.135503e-01	1.243786e-01	-1.253968e-01	-2.242516e-01
## 166	-2.612770e-03	5.580443e-05	1.672927e-02	2.413225e-02	1.048612e-02
## 167	-1.479949e-01	6.031777e-01	2.579595e-01	1.801206e-01	-3.243627e-01
## 168	-5.994172e-02	8.821647e-02	3.130353e-01	3.268892e-01	7.260871e-02
## 169	-1.737168e-02	8.347686e-02	4.358207e-02	-5.630842e-02	-9.084140e-02
## 171	-3.230545e-02	3.481801e-01	5.092199e-01	-2.002833e-01	1.490250e+00
## 172	-1.066068e-02	-2.829757e-03	7.177330e-02	1.045124e-01	4.746525e-02
## 174	-6.446569e-03	3.052025e-02	6.355730e-03	-5.529143e-04	-2.062899e-02
## 175	4.767276e-05	-2.380792e-04	-3.242323e-05	2.866980e-05	1.724402e-04
## 176	-4.812183e-01	2.324033e+00	1.221751e+00	-1.577300e+00	-2.462788e+00
## 177	9.876788e-03	6.372009e-01	1.119153e+00	-8.428773e-01	4.138650e+00
## 178	-3.188383e-02	7.557481e-02	1.182075e-01	1.463891e-01	1.371240e-02
## 179	-4.155933e-01	1.688736e-02	2.654442e+00	3.817698e+00	1.652503e+00
## 180	-2.835185e-01	1.310389e+00	3.161509e-01	3.874372e-02	-8.585106e-01

## 182	-4.084147e-01	1.981662e+00	3.473581e-01	-1.301529e-01	-1.380608e+00
## 183	1.984487e-02	-1.011765e-01	-1.126037e-02	1.599150e-02	7.456473e-02
## 185	1.149216e-05	-5.649160e-05	-8.920956e-06	5.111114e-06	4.000254e-05
## 186	1.123025e-03	3.005828e-02	4.961789e-02	-4.530740e-02	1.958847e-01
## 188	-2.546620e-04	6.867315e-04	8.517580e-04	1.005707e-03	-9.232491e-06
## 189	8.178748e-03	-4.070373e-02	-5.783916e-03	4.623448e-03	2.920841e-02
## 190	-9.630270e-03	4.167091e-04	6.149554e-02	8.838711e-02	3.823671e-02
## 192	8.472206e-02	-4.283526e-01	-5.220144e-02	6.116654e-02	3.128353e-01
## 194	4.080884e-06	-1.775105e-07	-2.605597e-05	-3.745640e-05	-1.620372e-05
## 195	-1.622874e-02	3.466014e-04	1.039107e-01	1.498930e-01	6.513242e-02
## 196	-1.101123e-04	2.271401e-06	7.051381e-04	1.017188e-03	4.420734e-04
## 197	-6.601613e-09	3.027310e-08	1.775515e-08	-1.760988e-08	-3.167972e-08
## 199	-1.268764e-03	5.268702e-03	2.099211e-03	1.351028e-03	-2.930357e-03
## 200	2.586520e-03	6.919138e-02	1.142068e-01	-1.043066e-01	4.509030e-01
## 201	1.724441e-06	-1.097047e-03	1.249888e-03	2.153918e-03	1.672244e-03
## 203	-3.550269e-03	1.737449e-02	2.849142e-03	-1.424687e-03	-1.222814e-02
## 204	-2.105504e-06	-6.782743e-08	1.361296e-05	1.967065e-05	8.628318e-06
## 208	-6.304241e-02	4.938318e-03	4.104416e-01	5.781068e-01	2.769561e-01
## 209	-1.132758e-02	7.885815e-04	7.233512e-02	1.027274e-01	4.410581e-02
## 210	-1.016987e-06	-1.335897e-04	1.600832e-04	2.736704e-04	2.085848e-04
## 211	-9.983474e-02	4.728201e-01	2.561421e-01	-3.056370e-01	-5.087469e-01
## 212	3.946552e-06	-3.586027e-05	1.585121e-05	3.431180e-05	3.891895e-05
## 214	-6.182322e-03	2.679566e-02	8.939497e-03	4.362659e-03	-1.599416e-02
## 215	1.824997e-03	-1.168908e-02	1.705301e-03	6.187136e-03	1.050697e-02
## 219	-8.003066e-07	3.844635e-06	2.008724e-06	-2.591202e-06	-4.182851e-06
## 220	-5.923994e-05	1.268202e-06	3.794767e-04	5.471969e-04	2.382176e-04
## 222	-4.087175e-01	1.886699e+00	4.584545e-01	6.048927e-02	-1.234032e+00
## 223	-2.722772e-06	2.100988e-05	1.516048e-05	-1.043059e-05	3.766995e-05
## 224	8.050930e-02	-4.224926e-01	-3.185960e-02	8.866394e-02	3.209113e-01
## 226	1.554279e-05	-8.923361e-04	9.260605e-04	1.620871e-03	1.303766e-03
## 228	-4.759144e-02	4.929625e-01	1.143093e+00	-1.561006e-01	3.223660e+00
## 230	-5.213629e-04	5.322536e-01	1.007976e+00	-6.135447e-01	3.546095e+00
## 231	-5.264436e-02	1.043781e-01	5.320913e-01	3.663352e-01	8.991775e-01
## 232	-4.015563e-01	3.735990e-02	2.538039e+00	3.651951e+00	1.567564e+00

## 233	-2.714734e-01	1.213444e+00	7.552247e-01	-6.424264e-01	-1.243662e+00
## 235	1.298847e-02	-6.458457e-02	-9.249737e-03	7.231499e-03	4.629937e-02
## 237	1.048397e-05	-5.153470e-05	-8.135954e-06	4.661728e-06	3.650112e-05
## 238	-5.113177e-05	-5.259535e-04	9.333635e-04	1.514790e-03	1.012417e-03
## 239	-4.066435e-06	1.954683e-05	1.019682e-05	-1.319713e-05	-2.127654e-05
## 242	2.449494e-07	-1.175644e-06	-1.499018e-07	7.228538e-08	1.005786e-06
## 244	-1.061016e-04	2.253813e-06	6.793726e-04	9.800081e-04	4.258529e-04
## 246	5.635747e-06	-3.096271e-05	8.316425e-06	1.135785e-05	4.872778e-05
## 247	2.539905e-02	6.791243e-01	1.120881e+00	-1.023896e+00	4.425637e+00
## 248	-4.538937e-02	1.010998e-01	4.797555e-01	3.029574e-01	8.492956e-01
## 249	-3.264330e-01	1.482617e+00	8.889771e-01	-8.338024e-01	-1.540862e+00
## 250	8.332770e-04	-4.214510e-03	-5.117179e-04	6.045308e-04	3.079137e-03
## 252	-3.745696e-01	2.264556e-02	2.381494e+00	3.430658e+00	1.480887e+00
## 253	-4.935523e-01	2.299500e+00	1.296994e+00	-1.411531e+00	-2.441465e+00
## 254	-4.021159e-08	1.909771e-07	1.027247e-07	-1.244601e-07	-2.059001e-07
## 255	-7.653186e-01	3.688415e+00	6.796104e-01	-1.944927e-01	-2.548865e+00
## 256	-3.170125e-02	5.657398e-01	9.868349e-01	-4.395512e-01	3.127592e+00
## 258	-7.873373e-02	2.898084e-01	2.695998e-01	-2.430224e-02	-2.406772e-01
## 259	-7.056653e-08	3.367914e-07	1.789210e-07	-2.227181e-07	-3.645353e-07
## 260	-3.257864e-01	1.585800e+00	2.712697e-01	-1.138238e-01	-1.109031e+00
## 261	-7.241840e-02	1.149960e-01	3.344221e-01	4.447830e-01	1.200558e-01
## 266	1.085626e-02	-2.318600e-04	-6.951139e-02	-1.002714e-01	-4.357053e-02
## 267	-4.432320e-03	2.217182e-02	6.973294e-02	1.511843e-02	1.637794e-01
## 268	-2.522672e-11	1.152593e-11	1.810159e-10	2.195686e-10	1.704403e-10
## 269	-2.172368e-03	1.039152e-02	5.488669e-03	-6.917721e-03	-1.126824e-02
## 270	9.601251e-08	5.858109e-10	-6.186628e-07	-8.922475e-07	-3.917331e-07
## 271	-4.611773e-03	2.096805e-02	5.541506e-03	1.316605e-03	-1.343338e-02
## 273	-5.744176e-05	1.080768e-06	3.680035e-04	5.308479e-04	2.308756e-04
## 274	-2.824633e-05	5.223747e-07	1.809605e-04	2.610533e-04	1.135135e-04
## 275	-9.298563e-01	4.508219e+00	7.948936e-01	-2.893590e-01	-3.137904e+00
## 276	-1.439380e-04	3.069268e-06	9.216863e-04	1.329477e-03	5.778565e-04
## 277	1.731395e-03	-8.511290e-03	-1.345642e-03	7.701553e-04	6.021836e-03
## 278	-3.490117e-05	-3.384984e-07	2.247151e-04	3.245008e-04	1.417344e-04
## 279	-1.078922e-04	2.291528e-06	6.908381e-04	9.965473e-04	4.330404e-04

## 280	-1.152607e-04	2.446578e-06	7.380211e-04	1.064609e-03	4.626189e-04
## 281	9.529167e-02	-4.684401e-01	-7.406077e-02	4.238742e-02	3.314268e-01
## 283	-1.954343e-05	3.478173e-07	1.252200e-04	1.806476e-04	7.855749e-05
## 284	-1.572800e-04	6.808631e-04	4.555691e-04	-3.143951e-04	-6.777130e-04
## 286	-1.781466e-02	1.579494e-02	1.015221e-01	1.243315e-01	4.171588e-02
## 287	-2.104324e-04	8.161152e-04	4.150396e-04	3.384056e-04	-3.962625e-04
## 288	-9.754389e-05	2.746730e-06	6.240224e-04	8.992114e-04	3.902018e-04
## 289	-2.072734e-05	3.320695e-07	1.328535e-04	1.916652e-04	8.338772e-05
## 292	-7.006550e-06	-2.605787e-05	1.160215e-04	1.275833e-04	1.788959e-04
## 295	1.455807e-04	-7.156534e-04	-1.131454e-04	6.475679e-05	5.063334e-04
## 296	-1.196019e-04	2.504301e-04	5.641666e-04	4.579098e-04	9.557175e-07
## 297	-8.026129e-05	9.806375e-06	6.433145e-04	7.625982e-04	6.837965e-04
## 298	-1.211837e-03	2.588154e-05	7.759250e-03	1.119285e-02	4.863587e-03
## 299	-8.026038e-02	1.024009e+00	2.423673e+00	-4.514779e-01	7.076097e+00
## 300	-1.228791e-04	2.562995e-06	7.868600e-04	1.135068e-03	4.932809e-04
## 301	-1.359957e-02	3.618199e-03	8.477090e-02	1.161722e-01	4.766883e-02
## 302	-5.613804e-01	2.753277e+00	4.436477e-01	-2.370766e-01	-1.942717e+00
## 303	-6.866837e-06	9.501591e-08	4.402855e-05	6.352655e-05	2.764283e-05
## 305	-6.126776e-01	3.260664e+00	2.012023e+00	-2.419292e+00	-1.485835e+00
## 306	-2.717043e-02	1.319716e-01	2.294948e-02	-8.932415e-03	-9.205889e-02
## 308	-1.585118e-04	3.338078e-06	1.015014e-03	1.464159e-03	6.363154e-04
## 310	-1.366719e-02	1.489899e-01	3.683602e-01	-4.643961e-02	1.045515e+00
## 311	-5.872328e-03	4.858089e-01	9.548123e-01	-5.097966e-01	3.258984e+00
## 312	-3.372726e-05	5.536419e-07	2.161749e-04	3.118522e-04	1.357015e-04
## 314	-7.196426e-03	3.304334e-02	8.274995e-03	1.413996e-03	-2.145782e-02
## 315	-3.738855e-07	-1.989305e-05	2.595004e-05	4.299998e-05	3.380000e-05
## 316	-1.796787e-06	-1.789416e-04	2.216310e-04	3.717947e-04	2.930436e-04
## 317	-3.552070e-05	7.330087e-07	2.274666e-04	3.281301e-04	1.426041e-04
## 318	-1.752445e-07	8.398781e-07	4.414804e-07	-5.622097e-07	-9.120588e-07
## 320	1.887318e-03	1.188309e+00	2.158163e+00	-1.417334e+00	7.709346e+00
## 321	-3.530773e-05	-1.487579e-07	2.271102e-04	3.278978e-04	1.430892e-04
## 322	-1.950304e-01	9.023874e-01	2.163514e-01	2.471282e-02	-5.920638e-01
## 323	-5.326577e-05	-4.196678e-05	4.110358e-04	5.827296e-04	3.348654e-04
## 324	-4.177124e-02	2.053414e-01	3.246466e-02	-1.858057e-02	-1.452814e-01

## 325	-1.709999e-02	2.475490e-01	4.599608e-01	-1.603866e-01	1.401558e+00
## 328	1.247486e-01	-6.132461e-01	-9.695472e-02	5.549038e-02	4.338787e-01
## 329	-8.814637e-01	4.261404e+00	7.714511e-01	-2.491317e-01	-2.945386e+00
## 330	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02
## 332	-5.509940e-02	3.658807e-01	1.041740e+00	8.543888e-02	2.651203e+00
## 334	-7.180456e-01	1.934312e+00	2.392494e+00	2.836058e+00	-5.471207e-02
## 335	-1.286267e-02	5.487688e-02	1.960007e-02	1.080288e-02	-3.194727e-02
## 336	-6.265850e-01	2.390122e+00	1.284729e+00	1.077828e+00	-1.128171e+00
## 338	-4.220362e-02	5.484284e-01	8.270325e-01	-3.743180e-01	2.529955e+00
## 340	-6.732126e-05	8.255024e-06	4.255528e-04	6.039284e-04	2.569708e-04
## 341	-3.015319e-01	2.047354e+00	1.639439e+00	-1.804582e+00	1.623705e+00
## 342	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 344	-6.946336e-02	3.405839e-01	5.500776e-02	-2.914209e-02	-2.402358e-01
## 345	-1.970302e-04	4.125496e-06	1.261754e-03	1.820014e-03	7.911526e-04
## 346	-7.735164e-05	-1.555104e-06	5.111116e-04	7.240509e-04	3.481216e-04
## 349	-7.313351e-02	3.427014e-01	7.616377e-02	7.231572e-04	-2.286265e-01
## 351	-5.603766e-02	2.754295e-01	4.424944e-02	-2.605594e-02	-1.956079e-01
## 352	-5.667636e-02	1.336635e-03	3.627472e-01	5.232286e-01	2.272722e-01
## 353	-1.744512e-04	3.633251e-06	1.117176e-03	1.611483e-03	7.004966e-04
## 354	1.285081e-03	-6.854714e-03	-3.810327e-04	1.634664e-03	5.292146e-03
## 358	-4.529691e-02	3.402961e-02	2.631453e-01	3.320919e-01	1.178877e-01
## 359	-2.637650e-02	1.031660e+00	1.444931e+00	-1.313133e+00	4.840364e+00
## 361	-2.775344e-07	2.534061e-05	3.721651e-05	-3.019241e-05	1.364316e-04
## 362	-9.649590e-02	3.834742e-01	1.794765e-01	1.368490e-01	-1.964619e-01
## 364	-3.582958e-03	1.037322e-03	2.184061e-02	3.119374e-02	1.291918e-02
## 367	6.125572e-05	-3.425483e-04	9.408621e-07	1.094342e-04	2.789773e-04
## 368	-1.037619e-01	2.289618e-01	9.111020e-01	6.462673e-01	1.437534e+00
## 370	-5.919900e-06	7.429817e-08	3.796583e-05	5.478132e-05	2.384272e-05
## 372	-1.176988e+00	5.225225e+00	1.559222e+00	5.854542e-01	-3.235348e+00
## 373	-7.018059e-05	5.556230e-05	5.857681e-04	5.946471e-04	7.343396e-04
## 375	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
## 377	-4.025678e-03	1.563102e-02	7.912199e-03	6.435841e-03	-7.626706e-03
## 378	-2.503350e-01	1.028062e+00	7.913854e-01	-3.943270e-01	-9.955566e-01
## 379	-4.502926e-05	9.302373e-07	2.883569e-04	4.159656e-04	1.807786e-04

## 380	-5.233514e-05	1.032144e-06	3.352121e-04	4.835556e-04	2.102212e-04
## 381	2.822073e-02	-1.387571e-01	-2.190096e-02	1.260850e-02	9.819531e-02
## 382	1.168168e-02	3.123248e-01	5.154808e-01	-4.708909e-01	2.035318e+00
## 383	-3.684983e-02	3.040177e-02	2.833784e-01	3.036801e-01	3.222694e-01
## 386	-5.512144e-02	3.054464e-01	9.276531e-01	1.557988e-01	2.248435e+00
## 388	-5.227254e-01	2.445777e+00	1.365250e+00	-1.522026e+00	-2.605819e+00
## 389	-6.031622e-02	2.899514e-01	1.512308e-01	-1.957988e-01	-3.156255e-01
## 391	-1.242998e-01	4.061350e-01	4.777048e-01	7.708352e-02	-2.917587e-01
## 392	4.995799e-02	-2.606882e-01	-2.146932e-02	5.209323e-02	1.968699e-01
## 393	-1.860746e-01	8.042305e-01	5.400329e-01	-3.686296e-01	-7.993208e-01
## 395	-3.276657e-02	1.896388e-01	4.018646e-01	3.893909e-02	9.458767e-01
## 396	-3.715207e-01	1.760678e+00	9.521156e-01	-1.140095e+00	-1.895265e+00
## 397	-6.527556e-02	1.294922e-01	6.599442e-01	4.541645e-01	1.115532e+00
## 398	1.887826e-02	-9.283109e-02	-1.463955e-02	8.453407e-03	6.570268e-02
## 402	-5.684364e-05	-3.119858e-05	4.172344e-04	5.934394e-04	3.209380e-04
## 403	-4.265933e-04	1.315283e-03	1.234440e-03	1.357744e-03	-2.754832e-04
## 404	-2.293821e-04	4.517484e-06	1.469534e-03	2.119494e-03	9.222342e-04
## 405	5.734786e-02	-2.867166e-01	-3.905048e-02	3.500912e-02	2.068084e-01
## 406	-8.367300e-02	1.923656e-03	5.355919e-01	7.725563e-01	3.356053e-01
## 407	-1.024184e-04	2.171825e-06	6.557938e-04	9.459955e-04	4.110778e-04
## 408	-4.502926e-05	9.302373e-07	2.883569e-04	4.159656e-04	1.807786e-04
## 410	-4.027395e-05	-4.935730e-05	3.155986e-04	4.712905e-04	2.384857e-04
## 411	-3.346955e-05	6.924243e-07	2.143291e-04	3.091785e-04	1.343657e-04
## 412	-4.611773e-03	2.096805e-02	5.541506e-03	1.316605e-03	-1.343338e-02
## 414	-1.224836e-04	2.672339e-06	7.842028e-04	1.131145e-03	4.914677e-04
## 415	-1.707598e-01	4.860629e-01	2.003681e+00	1.016765e+00	3.897069e+00
## 416	-1.635623e-02	7.905828e-02	1.426002e-02	-4.611982e-03	-5.482583e-02
## 417	-3.382146e-02	8.715073e-02	1.462625e-01	8.685027e-02	-3.131049e-02
## 418	-1.622538e+00	7.787519e+00	1.477871e+00	-3.486018e-01	-5.354474e+00
## 419	-1.068577e-04	2.195271e-06	6.843357e-04	9.871485e-04	4.291001e-04
## 420	1.871851e-05	-9.368499e-05	-1.179128e-05	1.185040e-05	6.992133e-05
## 421	-3.776023e-05	7.853711e-07	2.418004e-04	3.488059e-04	1.515840e-04
## 422	-1.590293e-04	3.257332e-06	1.018442e-03	1.469122e-03	6.385590e-04
## 423	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02

## 424	-1.752854e-01	7.589246e-01	5.076448e-01	-3.507215e-01	-7.555393e-01
## 425	-3.813417e-06	1.853619e-05	8.258147e-06	7.688389e-08	6.834220e-07
## 426	-1.953565e-05	3.305291e-07	1.251890e-04	1.806093e-04	7.855026e-05
## 428	-3.465369e-02	-8.510313e-05	2.228332e-01	3.217009e-01	1.403408e-01
## 429	-4.204558e-02	8.694674e-04	2.692457e-01	3.884008e-01	1.687894e-01
## 430	-8.600956e-03	1.496043e-02	8.290823e-02	6.224402e-02	1.327384e-01
## 431	-5.159397e-06	-3.865972e-08	3.321201e-05	4.794959e-05	2.095049e-05
## 434	4.802209e-06	-2.360792e-05	-3.731172e-06	2.137994e-06	1.670370e-05
## 435	-4.999688e-02	3.250812e-01	4.559774e-01	-4.246294e-02	1.075371e+00
## 436	-3.774267e-01	2.791141e+00	2.426068e+00	-2.554893e+00	3.371595e+00
## 437	-7.427352e-02	5.390651e-01	1.487098e+00	6.090001e-02	3.869147e+00
## 438	-2.939921e-02	1.395810e-01	2.852873e-02	-3.303541e-03	-9.468776e-02
## 439	-8.483205e-02	6.118221e-01	1.630356e+00	5.770599e-02	4.229334e+00
## 442	4.135452e-07	-2.031803e-06	-3.198089e-07	1.825037e-07	1.444398e-06
## 444	-2.181463e+00	8.225810e+00	4.567090e+00	3.970021e+00	-3.763492e+00
## 447	-6.175481e-02	1.078449e-04	3.969639e-01	5.724735e-01	2.495057e-01
## 448	-1.210438e-04	5.985746e-06	7.787221e-04	1.113310e-03	5.010904e-04
## 450	-1.156915e-02	5.372163e-02	1.261299e-02	1.085693e-03	-3.541513e-02
## 451	-8.001224e-01	3.908419e+00	6.504383e-01	-3.067218e-01	-2.744784e+00
## 452	-2.561723e-03	1.247436e-02	2.127541e-03	-9.046834e-04	-8.727692e-03
## 455	-2.202844e-02	3.462953e-02	1.134427e-01	1.139869e-01	2.217190e-02
## 456	-6.573342e-02	3.215715e-01	5.288656e-02	-2.614471e-02	-2.262273e-01
## 457	-1.590619e-02	9.576940e-02	1.900104e-01	1.134562e-02	4.513148e-01
## 458	-1.245794e+00	6.033630e+00	3.188341e+00	-4.106885e+00	-6.283645e+00
## 460	-1.055354e-01	4.171070e-01	3.380551e-01	-1.072837e-01	-3.779467e-01
## 462	-7.599121e-03	9.122005e-02	2.206160e-01	-3.556209e-02	6.370763e-01
## 464	-6.217489e-02	2.351651e-01	5.797942e-01	2.328413e-01	1.106387e+00
## 465	7.123033e-05	-3.569772e-04	-4.726239e-05	4.524241e-05	2.588793e-04
## 466	-8.037577e-05	1.645603e-06	5.147241e-04	7.425143e-04	3.227046e-04
## 467	-1.159958e-02	1.109539e-03	7.380856e-02	1.044394e-01	4.460244e-02
## 468	-1.633609e-05	-6.208471e-05	1.778493e-04	2.747760e-04	1.651430e-04
## 469	-2.281310e-02	2.855470e-01	6.843969e-01	-1.203368e-01	1.990490e+00
## 470	-3.000623e-02	1.454608e-01	2.567224e-02	-9.301365e-03	-1.012308e-01
## 473	-1.384572e+00	6.692207e+00	3.523386e+00	-4.545710e+00	-7.056507e+00

## 474	-1.054591e+00	4.863548e+00	1.188216e+00	1.651705e-01	-3.177046e+00
## 475	-1.466702e-04	3.127117e-06	9.391230e-04	1.354698e-03	5.886665e-04
## 476	2.655214e-03	7.188808e-02	1.188604e-01	-1.080752e-01	4.685956e-01
## 477	-1.049655e-01	5.159888e-01	8.158645e-02	-4.667810e-02	-3.650629e-01
## 478	-1.972244e-11	6.281790e-12	1.372828e-10	1.753210e-10	1.179874e-10
## 479	-1.291910e-05	-2.693587e-04	2.143092e-03	1.123215e-03	5.184967e-03
## 480	-6.466137e-02	1.382073e-03	4.140192e-01	5.972281e-01	2.595136e-01
## 481	-1.977801e-03	2.214994e-02	2.380436e-02	-2.379440e-02	5.787556e-02
## 482	-4.721858e-01	2.195977e+00	1.244083e+00	-1.340062e+00	-2.328094e+00
## 485	-7.679843e-03	3.620228e-02	7.751727e-03	-3.487231e-04	-2.433566e-02
## 487	-1.374181e-02	6.909066e-02	8.912523e-03	-9.154465e-03	-5.014823e-02
## 488	-1.372651e-04	2.929887e-06	8.788961e-04	1.267821e-03	5.509074e-04
## 489	1.187531e-01	-5.892072e-01	-8.604885e-02	6.357226e-02	4.213437e-01
## 490	-2.764841e-03	1.169445e-02	4.330400e-03	2.522833e-03	-6.709695e-03
## 491	-4.903780e-02	6.515236e-01	8.531803e-01	-4.877488e-01	2.671415e+00
## 493	4.454404e-02	-2.189722e-01	-3.461952e-02	1.981424e-02	1.549255e-01
## 495	-6.709462e-02	1.161255e-02	4.470732e-01	6.074121e-01	3.323710e-01
## 496	-1.191093e-04	2.534003e-06	7.626591e-04	1.100146e-03	4.780621e-04
## 497	-4.772218e-05	9.832995e-07	3.056055e-04	4.408472e-04	1.915959e-04
## 500	-1.664669e-02	8.272348e-02	2.475774e-01	5.418557e-02	5.762475e-01
## 502	-1.416586e-03	6.745812e-03	1.351768e-03	-1.989974e-04	-4.592516e-03
## 503	-1.425568e+00	6.274702e+00	1.950705e+00	8.160963e-01	-3.835859e+00
## 504	-1.229503e-04	2.608104e-06	7.872615e-04	1.135639e-03	4.934880e-04
## 506	8.557744e-02	-4.206864e-01	-6.651082e-02	3.806642e-02	2.976405e-01
## 507	-7.878126e-05	1.920646e-03	4.151367e-03	-1.494659e-03	1.316157e-02
## 508	-1.296371e-05	-5.500545e-05	1.469867e-04	2.292006e-04	1.378310e-04
## 509	-4.583346e-02	-1.778297e-03	2.966354e-01	4.287837e-01	1.881681e-01
## 510	-1.115355e-04	2.368224e-06	7.141673e-04	1.030200e-03	4.476652e-04
## 512	5.759836e-10	1.539967e-08	2.541659e-08	-2.321802e-08	1.003546e-07
## 514	5.212467e-02	-2.562415e-01	-4.050655e-02	2.319422e-02	1.812973e-01
## 515	-2.125849e+00	9.522936e+00	2.718223e+00	8.888072e-01	-5.974159e+00
## 516	-4.466006e-02	4.461213e-01	1.008117e+00	-1.363428e-01	2.825129e+00
## 517	-7.823932e-02	7.357836e-03	4.945738e-01	7.114323e-01	3.057142e-01
## 519	-1.901196e-03	4.475351e-05	1.218096e-02	1.755514e-02	7.657869e-03

## 520	-2.415518e-03	1.613666e-01	2.144476e-01	-1.934283e-01	7.993785e-01
## 521	-1.379402e-02	3.250644e-03	9.386463e-02	1.239619e-01	7.494687e-02
## 522	-1.355565e-04	2.893216e-06	8.679563e-04	1.252041e-03	5.440504e-04
## 523	4.940590e-02	-2.429090e-01	-3.835613e-02	2.204920e-02	1.718911e-01
## 524	-4.619280e-02	5.288730e-01	1.166780e+00	-2.202270e-01	3.362461e+00
## 526	-4.023705e-02	1.970376e-01	3.214814e-02	-1.639109e-02	-1.387790e-01
## 527	-9.573020e-06	9.699177e-08	6.142444e-05	8.863316e-05	3.860103e-05
## 529	6.238770e-06	-3.059629e-05	-4.745137e-06	2.681805e-06	2.209199e-05
## 531	-6.406562e-02	6.200484e-02	5.232682e-01	5.209211e-01	6.571527e-01
## 532	-3.881976e-03	6.461757e-01	1.010014e+00	-8.402553e-01	3.572383e+00
## 533	-3.195885e-05	6.744563e-07	2.046401e-04	2.951971e-04	1.282816e-04
## 535	8.408929e-02	-4.134241e-01	-6.528991e-02	3.751070e-02	2.925545e-01
## 536	7.084276e-05	-3.805612e-04	-1.743394e-05	9.554842e-05	2.971654e-04
## 537	-1.690248e-05	2.905146e-07	1.083108e-04	1.562567e-04	6.795824e-05
## 538	-3.604724e-04	1.591368e-03	5.160628e-04	2.045915e-04	-9.010268e-04
## 541	-5.104511e-02	2.453770e-01	1.279906e-01	-1.656861e-01	-2.670988e-01
## 542	1.495101e-05	-1.018853e-04	2.152771e-05	6.294058e-05	9.684863e-05
## 544	-1.625930e-05	3.009724e-07	1.041624e-04	1.502676e-04	6.533336e-05
## 545	-3.333975e-05	6.688293e-07	2.135247e-04	3.080216e-04	1.338840e-04
## 546	-9.525155e-02	5.042561e-02	6.902524e-01	8.206103e-01	6.749325e-01
## 547	3.521178e-03	-1.730981e-02	-2.736417e-03	1.566704e-03	1.224707e-02
## 548	-8.415508e-02	2.781621e-01	1.007651e+00	4.420641e-01	2.035597e+00
## 550	-8.608180e-06	-7.818038e-07	5.622708e-05	8.141749e-05	3.602608e-05
## 551	-4.267774e-02	5.944808e-01	8.172185e-01	-4.502363e-01	2.569444e+00
## 552	-2.756875e-01	1.275582e+00	7.367163e-01	-7.746653e-01	-1.352452e+00
## 553	-3.958121e-01	4.171122e-02	2.496115e+00	3.590046e+00	1.537655e+00
## 554	-1.209986e-04	2.567134e-06	7.747635e-04	1.117611e-03	4.856529e-04
## 555	-3.090862e-03	-2.330405e-02	4.665829e-02	7.476060e-02	4.816679e-02
## 556	-1.092089e-01	1.215801e-01	5.622178e-01	7.728238e-01	2.558565e-01
## 557	-1.337277e-02	7.123409e-02	4.076888e-03	-1.681824e-02	-5.492211e-02
## 558	-4.151209e-01	8.482557e-02	2.570665e+00	3.683925e+00	1.549789e+00
## 560	-1.088814e-04	2.310966e-06	6.971748e-04	1.005687e-03	4.370160e-04
## 561	4.146442e-04	-2.268636e-03	-5.728627e-05	6.394805e-04	1.794337e-03
## 562	-3.416920e-01	8.160678e-01	1.261618e+00	1.557163e+00	1.426163e-01

## 563	-4.033102e-02	7.941844e-01	1.384191e+00	-6.488385e-01	4.442892e+00
## 564	-3.570960e-02	7.628435e-04	2.286423e-01	3.298268e-01	1.433190e-01
## 565	-1.881411e-04	3.954221e-06	1.205189e-03	1.737975e-03	7.564509e-04
## 566	-1.637165e-03	6.373684e-03	3.202192e-03	2.582959e-03	-3.120851e-03
## 570	-2.835185e-01	1.310389e+00	3.161509e-01	3.874372e-02	-8.585106e-01
## 571	-6.344497e-03	1.355011e-04	4.062307e-02	5.859949e-02	2.546301e-02
## 573	3.851122e-05	-2.688914e-04	6.373051e-05	1.751186e-04	2.616672e-04
## 574	-8.259901e-05	1.422547e-05	6.773678e-04	7.820285e-04	7.515002e-04
## 575	5.231677e-02	-2.703166e-01	-2.556350e-02	4.925170e-02	2.020631e-01
## 578	-1.243915e-06	-6.100178e-07	8.713083e-06	1.275277e-05	6.011861e-06
## 582	-1.019047e-02	3.094311e-02	6.667914e-02	4.322670e-02	9.296346e-02
## 583	-6.984435e-02	3.975642e-01	1.123977e+00	1.660015e-01	2.726769e+00
## 584	-1.316472e-01	7.775484e-01	2.224569e+00	2.943382e-01	5.469738e+00
## 585	-3.216113e-01	2.439451e+00	2.165441e+00	-2.257193e+00	3.225187e+00
## 586	-3.537810e-01	1.690308e+00	3.310867e-01	-6.078752e-02	-1.155709e+00
## 587	-1.487927e-01	4.405745e-01	4.518727e-01	5.056002e-01	-7.450191e-02
## 588	-1.379932e-02	5.862773e-01	9.312682e-01	-6.239368e-01	3.247825e+00
## 589	-1.864085e-02	5.163546e-01	1.093798e+00	-4.269917e-01	3.512079e+00
## 590	-2.592650e-01	5.620473e-03	1.660078e+00	2.394512e+00	1.040757e+00
## 591	-4.469567e-02	5.224252e-01	6.953387e-01	-3.475054e-01	2.100910e+00
## 592	-3.778363e-02	1.016398e-01	1.598545e-01	8.597643e-02	-4.317191e-02
## 594	2.331759e-06	-1.192842e-05	-1.276827e-06	1.958596e-06	8.822906e-06
## 595	-2.172368e-03	1.039152e-02	5.488669e-03	-6.917721e-03	-1.126824e-02
## 597	3.267943e-02	-2.238845e-01	4.745405e-02	1.393000e-01	2.102478e-01
## 598	1.217710e-02	3.256018e-01	5.374014e-01	-4.908977e-01	2.121845e+00
## 599	-6.126298e-05	9.999063e-07	3.926722e-04	5.663509e-04	2.462903e-04
## 601	2.127734e-06	1.000524e-04	1.559215e-04	-1.411346e-04	6.057180e-04
## 602	-1.956011e-04	3.866556e-06	1.254401e-03	1.807678e-03	7.899032e-04
## 606	-3.583585e-03	1.619961e-02	4.414455e-03	1.208511e-03	-1.029299e-02
## 608	-2.790177e-01	1.827811e+00	9.295507e-01	-6.939054e-01	1.667243e+00
## 609	-5.178409e-06	3.697572e-09	3.328332e-05	4.804162e-05	2.095663e-05
## 610	9.040863e-03	6.208891e-01	1.111132e+00	-8.068465e-01	4.088753e+00
## 612	-9.525673e-03	2.587194e-04	6.099825e-02	8.789117e-02	3.833454e-02
## 613	-8.158838e+00	4.220653e+01	3.902966e+00	-7.739850e+00	-3.157192e+01

## 614	-1.074864e-02	5.163049e-02	2.698278e-02	-3.478737e-02	-5.616826e-02
## 615	-1.369123e-02	5.982371e-03	8.304518e-02	1.115911e-01	4.394102e-02
## 616	-2.671750e+00	1.220972e+01	3.138788e+00	6.396144e-01	-7.877771e+00
## 618	-3.775790e-02	7.997638e-04	2.417671e-01	3.487553e-01	1.515479e-01
## 620	-2.123494e-11	7.812600e-12	1.496987e-10	1.874981e-10	1.337273e-10
## 621	-9.551668e-01	4.441820e+00	1.033893e+00	7.681833e-02	-2.933865e+00
## 622	-1.254892e-01	5.545858e-01	1.806770e+00	5.076443e-01	4.075067e+00
## 623	1.149216e-05	-5.649160e-05	-8.920956e-06	5.111114e-06	4.000254e-05
## 624	-4.648911e-02	8.731485e-01	1.842019e+00	-6.110539e-01	5.719578e+00
## 625	-3.946977e-02	8.484952e-04	2.527141e-01	3.645426e-01	1.583999e-01
## 627	-1.133879e-04	2.407195e-06	7.260292e-04	1.047311e-03	4.551013e-04
## 628	-2.984610e+00	1.454427e+01	2.466351e+00	-1.075139e+00	-1.018518e+01
## 629	2.925598e-07	-1.732625e-06	1.170071e-07	7.141315e-07	1.484258e-06
## 631	3.988814e-05	1.096386e-03	1.803237e-03	-1.646261e-03	7.112904e-03
## 632	-5.133086e-04	8.020325e-06	3.290037e-03	4.746877e-03	2.064617e-03
## 633	-1.097035e-04	2.329667e-06	7.024366e-04	1.013278e-03	4.403113e-04
## 634	-1.907121e-01	4.180607e-03	1.221126e+00	1.761294e+00	7.656228e-01
## 637	1.173028e-02	-6.046568e-02	-4.969324e-03	9.016130e-03	4.397676e-02
## 639	-2.066831e+00	9.463924e+00	2.406701e+00	4.579297e-01	-6.122675e+00
## 641	-5.304362e-06	3.291910e-08	3.405810e-05	4.915216e-05	2.141832e-05
## 642	-5.994613e-02	2.589694e-01	8.705570e-01	2.544483e-01	1.957441e+00
## 644	1.423080e-02	-2.999053e-04	-9.112276e-02	-1.314475e-01	-5.712000e-02
## 645	3.154425e-05	-1.591541e-04	-1.976236e-05	2.213070e-05	1.161188e-04
## 646	4.223991e-03	-2.095670e-02	-3.061974e-03	2.258975e-03	1.498527e-02
## 647	3.946385e-02	-1.177942e+00	-3.067830e+00	8.432614e-01	-9.596743e+00
## 649	-4.485497e+00	2.159717e+01	4.006691e+00	-1.099431e+00	-1.490745e+01
## 650	-6.500587e-05	1.361211e-06	4.162603e-04	6.004665e-04	2.609474e-04
## 651	-3.354395e-02	4.798306e-01	1.119090e+00	-2.467044e-01	3.324971e+00
## 653	-4.331049e-06	-1.073617e-07	2.796878e-05	4.040016e-05	1.770934e-05
## 654	-6.881056e-02	2.819414e-01	1.182242e-01	8.079534e-02	-1.530948e-01
## 656	-4.495244e+00	2.069971e+01	5.100876e+00	7.661341e-01	-1.349436e+01
## 657	-1.006762e-04	1.988321e-01	4.099754e-01	-2.208729e-01	1.416192e+00
## 658	-1.497760e-05	2.813016e-07	9.594616e-05	1.384140e-04	6.017553e-05
## 659	-4.230131e-06	-5.062827e-07	2.778548e-05	4.025468e-05	1.793002e-05

## 660	-2.609320e-01	1.168472e+00	7.241526e-01	-6.230804e-01	-1.199517e+00
## 661	-3.695250e-05	7.611927e-07	2.366374e-04	3.413594e-04	1.483552e-04
## 662	-1.900696e-03	9.081859e-03	4.810497e-03	-6.026224e-03	-9.839514e-03
## 663	-2.004945e-02	1.255401e-01	1.098876e-01	-9.650908e-02	1.038027e-01
## 664	-3.969626e-03	5.011988e-01	1.022955e+00	-5.315163e-01	3.492194e+00
## 665	-1.304748e-02	4.245232e-03	8.032208e-02	1.101479e-01	4.469208e-02
## 666	-1.884142e-02	5.894879e-01	1.189500e+00	-5.218047e-01	3.882239e+00
## 668	-1.749553e-04	3.670718e-05	1.261704e-03	1.598942e-03	1.135437e-03
## 669	-1.436968e-02	2.787941e-02	1.440541e-01	1.006960e-01	2.412846e-01
## 672	-2.977650e+00	1.448695e+01	2.487504e+00	-1.026339e+00	-1.012559e+01
## 673	-3.818834e-02	5.933333e-01	1.082133e+00	-4.110035e-01	3.341682e+00
## 678	-1.317935e-02	2.818491e-04	8.438555e-02	1.217271e-01	5.289354e-02
## 679	-4.699909e-02	3.790060e-01	1.014939e+00	-4.834246e-03	2.707147e+00
## 681	-7.703537e-05	1.593999e-06	4.933117e-04	7.116220e-04	3.092637e-04
## 683	-3.336540e-03	1.633745e-02	2.667376e-03	-1.356546e-03	-1.150564e-02
## 684	-1.525707e-01	1.021680e+00	7.388817e-01	-3.545131e-01	1.568344e+00
## 685	-9.915647e-03	3.806935e-01	6.754817e-01	-3.789098e-01	2.287101e+00
## 687	-3.174943e-02	4.163378e-01	8.284031e-01	-2.324305e-01	2.465308e+00
## 688	-2.963807e-05	6.092188e-07	1.897981e-04	2.737927e-04	1.189905e-04
## 689	-6.722177e-05	1.379072e-06	4.304907e-04	6.209937e-04	2.699082e-04
## 690	1.016582e-03	2.725730e-02	4.500568e-02	-4.106882e-02	1.776382e-01
## 691	-2.212098e-04	4.689298e-06	1.416517e-03	2.043249e-03	8.881166e-04
## 693	-4.090023e-01	2.013108e-01	2.543830e+00	3.436101e+00	1.741478e+00
## 695	-8.474305e-03	-1.442923e-02	7.144233e-02	1.064374e-01	5.590672e-02
## 696	-4.019657e-05	3.327306e-07	2.581585e-04	3.723547e-04	1.626159e-04
## 697	-1.941686e-04	7.196249e-04	4.221361e-04	3.785502e-04	-3.124229e-04
## 698	-7.163892e-01	3.738108e+00	2.230286e+00	-2.732449e+00	-2.175235e+00
## 699	1.905877e-04	5.106690e-03	8.428671e-03	-7.696769e-03	3.327268e-02
## 700	-2.115269e-05	3.360841e-07	1.355838e-04	1.956042e-04	8.510523e-05
## 701	-3.317339e-02	-4.486559e-02	2.653606e-01	3.958823e-01	2.029633e-01
## 702	-1.160988e-01	9.320529e-01	7.502874e-01	-4.772487e-01	1.943068e+00
## 704	-1.037996e-01	4.911923e-01	2.666114e-01	-3.166532e-01	-5.281257e-01
## 705	-5.316449e-02	1.691961e-01	2.036131e-01	5.269518e-02	-1.113259e-01
## 706	-3.724733e-01	9.293835e-03	2.383369e+00	3.437618e+00	1.492849e+00

## 707	-9.922647e-02	2.506898e-03	6.360664e-01	9.160319e-01	4.008149e-01
## 711	-3.603334e-02	-2.566766e-02	2.611040e-01	3.851053e-01	1.850808e-01
## 712	-1.107927e-02	5.033910e-02	1.335230e-02	3.230834e-03	-3.221958e-02
## 713	-1.165231e-02	8.384082e-04	7.418254e-02	1.059849e-01	4.556193e-02
## 714	2.057133e-07	-1.112336e-06	-4.213933e-08	2.918540e-07	8.743986e-07
## 715	-1.638265e-01	7.024773e-01	2.455769e-01	1.306030e-01	-4.123070e-01
## 716	-1.619700e-02	5.328595e-02	2.036814e-01	8.812004e-02	4.176629e-01
## 718	-1.673857e-03	8.025455e-03	1.534501e-03	-3.429963e-04	-5.510301e-03
## 719	-4.683857e-02	1.886721e-01	8.421036e-02	6.141213e-02	-9.922085e-02
## 720	-2.972007e-02	7.399941e-02	1.060793e-01	1.294202e-01	7.283689e-03
## 721	-2.199461e-03	-8.632509e-04	1.512909e-02	2.211520e-02	1.022049e-02
## 722	-5.005016e-01	2.533086e+00	1.447786e+00	-1.797532e+00	-1.922297e+00
## 723	-1.097035e-04	2.329667e-06	7.024366e-04	1.013278e-03	4.403113e-04
## 724	-1.290914e-01	5.416972e-02	9.235242e-01	1.132584e+00	8.602491e-01
## 725	-1.096322e-01	8.892447e-01	9.513222e-01	-4.005873e-01	2.503950e+00
## 726	1.265377e-05	3.384214e-04	5.585775e-04	-5.101997e-04	2.205397e-03
## 727	-1.732575e-04	1.789211e-04	1.387819e-03	1.382675e-03	1.721213e-03
## 729	-4.285919e-03	2.055496e-02	1.078536e-02	-1.378709e-02	-2.233432e-02
## 730	-7.025791e-05	2.541874e-04	9.425274e-04	3.596375e-04	2.007011e-03
## 732	-1.619912e-02	7.884609e-02	1.349409e-02	-5.650071e-03	-5.513669e-02
## 733	-2.286943e+00	7.863309e+00	5.661668e+00	5.666307e+00	-2.780913e+00
## 738	-2.413937e-02	2.776526e-01	4.154499e-01	-1.694422e-01	1.235228e+00
## 739	4.910896e-02	-2.414126e-01	-3.816748e-02	2.184462e-02	1.708023e-01
## 740	-2.781002e-02	6.324770e-01	1.102089e+00	-5.493317e-01	3.594805e+00
## 742	-2.404145e-02	4.756491e-01	8.753373e-01	-3.770024e-01	2.787344e+00
## 743	-9.848676e-05	2.075669e-06	6.306338e-04	9.097059e-04	3.953166e-04
## 744	-9.269261e-02	4.517880e-01	7.649556e-02	-3.356573e-02	-3.164545e-01
## 747	-6.120705e-02	5.757953e-01	1.389236e+00	-1.253699e-01	3.836482e+00
## 748	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
## 749	7.752878e-03	-3.841207e-02	-5.680660e-03	4.042052e-03	2.742394e-02
## 750	-2.654083e-02	5.699548e-04	1.699343e-01	2.451319e-01	1.065141e-01
## 751	-3.923763e-02	6.171754e-01	1.004941e+00	-4.636236e-01	3.156985e+00
## 752	-4.892627e-03	2.347144e-02	1.230662e-02	-1.575641e-02	-2.550899e-02
## 753	-2.698853e-04	7.569090e-06	1.733578e-03	2.491208e-03	1.100913e-03

## 754	-2.039899e-04	4.288892e-06	1.306279e-03	1.884260e-03	8.190057e-04
## 755	-6.415818e-01	1.370285e-02	4.107974e+00	5.925822e+00	2.574926e+00
## 757	5.543507e-02	-2.879853e-01	-2.529798e-02	5.526631e-02	2.164895e-01
## 758	-3.652873e-02	1.005548e-01	1.526933e-01	7.712143e-02	-4.618060e-02
## 759	-8.077575e-06	4.456495e-05	1.437779e-05	-9.521373e-06	1.368820e-06
## 761	-2.711857e-05	5.653391e-07	1.736553e-04	2.505024e-04	1.088652e-04
## 762	-2.743416e-02	1.270782e-01	3.026904e-02	3.193484e-03	-8.350189e-02
## 763	-1.061016e-04	2.253813e-06	6.793726e-04	9.800081e-04	4.258529e-04
## 764	-1.023502e-02	4.330995e-02	6.457679e-02	2.235806e-02	1.061052e-01
## 765	-1.463539e-01	6.114834e-01	4.418997e-01	-2.349700e-01	-5.879733e-01
## 769	4.450028e-02	-2.189399e-01	-3.437536e-02	2.015636e-02	1.550532e-01
## 770	-3.189054e-06	1.456585e-05	8.618232e-06	-8.358252e-06	-1.521074e-05
## 772	9.136490e-02	-4.593817e-01	-5.923335e-02	6.090493e-02	3.334503e-01
## 773	2.629555e-05	-1.299659e-04	-1.936574e-05	1.315424e-05	9.324577e-05
## 774	1.913803e-02	5.116797e-01	8.445089e-01	-7.714575e-01	3.334449e+00
## 775	-1.833642e+00	8.061199e+00	2.520206e+00	1.068812e+00	-4.919096e+00
## 777	-1.659600e-05	3.060119e-07	1.063209e-04	1.533817e-04	6.668856e-05
## 778	-2.642729e-03	1.214568e-02	7.080966e-03	-7.122973e-03	-1.275051e-02
## 779	-1.054882e+00	5.103846e+00	9.138782e-01	-3.074329e-01	-3.543694e+00
## 780	1.153788e-01	-5.795750e-01	-7.543241e-02	7.582801e-02	4.202533e-01
## 781	-4.157443e-05	8.513385e-07	2.662425e-04	3.840661e-04	1.669224e-04
## 782	-1.025833e-04	2.179663e-06	6.568436e-04	9.475098e-04	4.117300e-04
## 783	-2.280121e-01	1.120873e+00	1.772123e-01	-1.014219e-01	-7.930301e-01
## 784	-2.267344e-05	4.487080e-07	1.452187e-04	2.094889e-04	9.105863e-05
## 785	-2.196752e-02	1.571060e-01	3.633215e-01	1.334084e-03	9.343787e-01
## 788	5.934823e-03	1.595615e-01	2.635582e-01	-2.402642e-01	1.039930e+00
## 789	-1.115355e-04	2.368224e-06	7.141673e-04	1.030200e-03	4.476652e-04
## 790	-2.030600e-11	2.238526e-11	1.712579e-10	1.619449e-10	2.270475e-10
## 791	-6.848989e-02	-1.221336e-03	4.416736e-01	6.377955e-01	2.789191e-01
## 792	-8.983963e-05	1.913566e-06	5.752420e-04	8.297942e-04	3.605795e-04
## 793	-4.410575e-02	3.825601e-01	1.003180e+00	-3.577385e-02	2.719455e+00
## 794	-8.608369e-07	-2.267740e-06	8.239777e-06	1.249973e-05	7.224439e-06
## 795	-9.151829e-02	2.327939e-02	6.234399e-01	8.197671e-01	5.017719e-01
## 796	5.544420e-05	1.492735e-03	2.466171e-03	-2.247001e-03	9.729165e-03

## 797	-1.150675e-08	1.220083e-09	7.551636e-08	1.051480e-07	5.267167e-08
## 798	-1.787827e-01	9.418244e-03	1.138338e+00	1.640222e+00	7.090902e-01
## 799	-3.785487e-02	8.084112e-04	2.423804e-01	3.496379e-01	1.519271e-01
## 800	-8.996205e-06	9.842917e-08	5.771406e-05	8.327799e-05	3.626149e-05
## 803	-8.474063e-01	4.049877e+00	7.917638e-01	-1.477944e-01	-2.769977e+00
## 804	-5.232589e-05	1.075093e-06	3.350919e-04	4.833818e-04	2.100873e-04
## 806	-1.504583e-02	7.235642e-02	1.354075e-02	-3.514541e-03	-4.986955e-02
## 807	-2.724568e-05	5.435355e-07	1.744982e-04	2.517252e-04	1.094152e-04
## 810	3.195123e-05	8.743735e-04	1.439382e-03	-1.313614e-03	5.677924e-03
## 811	-4.029250e-06	8.610686e-08	2.579892e-05	3.721518e-05	1.617135e-05
## 814	4.041203e-05	-2.014339e-04	4.728876e-05	4.376176e-05	3.484220e-04
## 815	1.246708e-02	6.972354e-01	1.222594e+00	-9.330800e-01	4.549366e+00
## 816	-6.125245e-03	-3.629709e-04	3.978678e-02	5.755111e-02	2.533884e-02
## 817	-3.707770e-06	-1.600485e-04	2.098544e-04	3.515261e-04	2.655377e-04
## 819	-2.985910e-05	-6.247038e-07	1.931942e-04	2.784339e-04	1.232759e-04
## 820	-1.703047e-02	1.451891e-01	3.820164e-01	-1.102943e-02	1.031693e+00
## 822	-1.369327e-03	6.595707e-03	1.220445e-03	-3.406150e-04	-4.554248e-03
## 823	-1.269155e-11	2.549154e-11	1.288879e-10	8.793275e-11	2.189356e-10
## 825	-8.295394e-03	4.610401e-02	2.999324e-02	-3.553230e-02	-1.008472e-02
## 826	-1.793801e-03	-6.652423e-03	1.917576e-02	2.980199e-02	1.743995e-02
## 827	-1.413727e-03	6.740763e-03	3.589637e-03	-4.445049e-03	-7.291001e-03
## 830	-1.469034e-02	1.201594e+00	2.360499e+00	-1.259941e+00	8.055563e+00
## 831	-5.395958e-12	2.991353e-11	9.082180e-11	1.523342e-11	2.201559e-10
## 832	-3.474652e-02	7.497891e-04	2.224701e-01	3.209111e-01	1.394387e-01
## 833	7.840773e-02	-3.862052e-01	-6.006029e-02	3.638854e-02	2.738736e-01
## 834	9.453419e-07	-2.108387e-06	3.109922e-06	-2.783101e-06	1.763891e-05
## 835	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 837	2.679455e-03	-1.502468e-02	4.719725e-05	4.856757e-03	1.215519e-02
## 842	-5.608017e-02	3.420965e-01	1.003490e+00	1.222569e-01	2.497706e+00
## 843	-3.494593e-01	1.863127e-02	2.228456e+00	3.198573e+00	1.380945e+00
## 844	-1.652222e-05	2.592412e-07	1.059051e-04	1.527910e-04	6.647412e-05
## 845	-6.881261e-05	1.434711e-06	4.406417e-04	6.356417e-04	2.762326e-04
## 846	-2.020288e-02	4.523290e-01	9.827989e-01	-3.381803e-01	3.091541e+00
## 847	-1.339270e-01	3.900043e-03	8.563246e-01	1.234930e+00	5.359127e-01

## 848	-3.883834e-06	-1.382345e-07	2.513032e-05	3.631187e-05	1.594847e-05
## 849	-2.073992e-02	8.391070e-02	9.348413e-02	4.168664e-02	1.081849e-01
## 851	-1.316125e-03	2.810885e-05	8.426994e-03	1.215609e-02	5.282137e-03
## 852	-1.450186e-02	9.080885e-01	1.348002e+00	-1.166099e+00	4.645317e+00
## 855	2.160371e-07	-1.165203e-06	-4.759699e-08	3.006699e-07	9.139027e-07
## 858	-1.916984e-01	9.423617e-01	1.489882e-01	-8.527084e-02	-6.667318e-01
## 859	-9.049074e-07	3.821419e-05	4.977840e-05	-4.356398e-05	1.821694e-04
## 860	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 862	-3.255607e-01	1.685722e-02	2.073144e+00	2.987377e+00	1.291450e+00
## 863	4.714026e-06	-2.297834e-05	-3.001623e-06	1.949208e-06	1.848718e-05
## 864	6.164526e-05	-3.032200e-04	-4.767853e-05	2.778502e-05	2.147464e-04
## 866	8.618862e-03	6.182588e-01	1.110080e+00	-7.992262e-01	4.076775e+00
## 867	8.430172e-02	-4.146433e-01	-6.525700e-02	3.795040e-02	2.935529e-01
## 868	-1.678646e-04	3.583813e-06	1.074826e-03	1.550447e-03	6.737275e-04
## 869	-9.654539e-06	-1.208157e-04	2.073598e-04	3.302792e-04	2.413524e-04
## 872	1.628595e-07	-1.825637e-06	1.073168e-06	2.105729e-06	2.193505e-06
## 873	-1.112065e-04	2.362769e-06	7.120586e-04	1.027158e-03	4.463417e-04
## 876	-9.738835e-03	8.516675e-01	1.288753e+00	-1.103138e+00	4.497804e+00
## 877	-4.653255e-02	2.449181e-03	3.006962e-01	4.280985e-01	1.964630e-01
## 878	-3.658928e-02	1.583505e-01	2.175658e-01	-2.826112e-01	-2.910377e-01
## 879	-1.614344e-01	6.774599e-01	2.172860e+00	6.723955e-01	4.777490e+00
## 880	-2.388660e-02	3.426340e-01	7.991330e-01	-1.766596e-01	2.375208e+00
## 881	8.158025e-05	-4.093727e-04	-5.374490e-05	5.279754e-05	2.967075e-04
## 886	-2.169941e-01	4.696801e-01	8.552401e-01	1.083978e+00	1.591895e-01
## 887	-2.553377e-02	5.145438e-01	9.281770e-01	-4.164438e-01	2.971031e+00
## 888	-1.766632e-08	5.544452e-10	1.134499e-07	1.629652e-07	7.208202e-08
## 890	-1.078922e-04	2.291528e-06	6.908381e-04	9.965473e-04	4.330404e-04
## 892	-3.887602e+00	1.772306e+01	4.616630e+00	1.015788e+00	-1.139691e+01
## 893	-1.184453e-10	1.951066e-10	6.045813e-10	5.932868e-10	1.126721e-10
## 895	-8.164112e-03	-2.221047e-03	5.505966e-02	8.008281e-02	3.639329e-02
## 897	-6.333129e-02	1.352688e-03	4.055031e-01	5.849448e-01	2.541746e-01
## 898	4.048815e-02	-2.144403e-01	-1.375942e-02	4.848309e-02	1.643996e-01
## 899	-1.812132e-03	-2.866855e-02	4.459867e-02	7.351894e-02	5.121159e-02
## 902	-1.392700e-07	-2.241843e-07	1.153688e-06	1.735877e-06	9.089611e-07

## 903	-6.452283e-03	-6.578564e-04	4.222857e-02	6.116724e-02	2.711243e-02
## 904	-1.988831e-02	2.511863e-03	1.299942e-01	1.809233e-01	9.024495e-02
## 905	-6.196276e-02	6.732395e-01	1.543483e+00	-2.408298e-01	4.395280e+00
## 906	-3.544962e-02	5.798147e-01	7.432902e-01	-5.002098e-01	2.443110e+00
## 907	-7.193278e-02	2.595797e-01	2.524948e-01	-1.232629e-02	-2.121925e-01
## 909	1.162716e-04	-5.865683e-04	-7.309671e-05	8.138669e-05	4.274413e-04
## 911	-1.986413e-07	-1.573217e-06	3.114062e-06	4.962661e-06	3.290049e-06
## 912	3.461606e-03	9.255093e-02	1.527521e-01	-1.395385e-01	6.031242e-01
## 913	-1.538916e-04	3.285908e-06	9.853529e-04	1.421386e-03	6.176356e-04
## 914	-3.078667e-05	6.213795e-07	1.971682e-04	2.844263e-04	1.236233e-04
## 915	-3.261985e-02	3.273574e-01	8.259108e-01	-7.802269e-02	2.307416e+00
## 917	4.229083e-05	-2.954478e-04	6.953502e-05	1.924622e-04	2.858727e-04
## 919	1.089732e-04	-8.398436e-04	2.651399e-04	6.501294e-04	8.452089e-04
## 921	-2.611842e-05	5.091030e-07	1.672935e-04	2.413343e-04	1.049100e-04
## 922	9.562616e-02	-4.704105e-01	-7.394469e-02	4.317919e-02	3.330884e-01
## 923	-7.208941e-02	3.465557e-01	1.807429e-01	-2.340387e-01	-3.772489e-01
## 924	-1.173553e-04	2.497448e-06	7.514253e-04	1.083944e-03	4.710144e-04
## 925	-6.379554e-03	3.881531e-03	4.792027e-02	5.457385e-02	5.055275e-02
## 927	-1.585118e-04	3.338078e-06	1.015014e-03	1.464159e-03	6.363154e-04
## 928	-1.002697e-01	2.873037e-01	4.098981e-01	1.823531e-01	-1.485126e-01
## 929	1.716263e-02	5.422977e-01	8.768936e-01	-7.989366e-01	3.443572e+00
## 932	-6.160986e-03	1.243171e-03	3.901524e-02	5.493297e-02	2.530331e-02
## 933	-9.754389e-05	2.746730e-06	6.240224e-04	8.992114e-04	3.902018e-04
## 935	4.211944e-04	-2.314973e-03	-4.622778e-05	6.708939e-04	1.839511e-03
## 936	-1.334442e-06	1.175738e-05	1.208598e-05	-6.298519e-06	3.330717e-05
## 937	-1.133879e-04	2.407195e-06	7.260292e-04	1.047311e-03	4.551013e-04
## 939	-2.012316e-02	1.816177e-02	1.144220e-01	1.395970e-01	4.649372e-02
## 940	1.386534e-07	-7.671718e-07	-8.591009e-09	2.311516e-07	6.154130e-07
## 941	-2.470498e-04	1.424656e-05	1.618969e-03	2.276831e-03	1.105732e-03
## 942	-6.468564e-01	3.186891e+00	1.735402e+00	-2.207031e+00	-2.973097e+00
## 946	-1.242837e-04	5.816553e-04	1.889196e-03	4.755224e-04	4.355832e-03
## 947	-1.085554e+00	5.911697e+00	3.771838e+00	-4.467718e+00	-1.886504e+00
## 949	-6.685685e-02	1.118340e-01	6.366224e-01	4.893058e-01	1.003926e+00
## 950	-1.481263e-04	3.162556e-06	9.484389e-04	1.368138e-03	5.944973e-04

## 952	-1.197731e-02	1.097751e-03	7.608287e-02	1.082816e-01	4.634889e-02
## 957	-2.234323e-04	4.687473e-06	1.430861e-03	2.063889e-03	8.972660e-04
## 958	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 960	-1.375003e+00	6.611938e+00	3.449440e+00	-4.466956e+00	-7.187816e+00
## 961	-2.751006e-02	-7.081235e-02	2.585081e-01	3.950210e-01	2.198161e-01
## 962	-2.426384e-02	1.702460e-03	1.575951e-01	2.227322e-01	1.052697e-01
## 963	-9.580148e-01	1.098703e+00	4.903252e+00	6.710524e+00	2.203865e+00
## 964	-2.206961e-01	5.051823e-03	1.412704e+00	2.037740e+00	8.852287e-01
## 965	5.911390e-06	-1.941672e-04	1.895473e-04	3.303791e-04	2.850515e-04
## 966	-6.701456e-12	2.576749e-11	9.129835e-11	3.213845e-11	1.975904e-10
## 967	-1.260787e-06	8.302889e-05	1.648169e-04	-8.474603e-05	5.579748e-04
## 968	-3.790193e-06	3.772565e-08	2.431912e-05	3.509308e-05	1.528116e-05
## 969	-2.459977e+00	1.194439e+01	2.082587e+00	-8.005127e-01	-8.328555e+00
## 971	-2.033104e-02	5.897765e-02	2.082332e-01	1.110592e-01	3.839403e-01
## 975	-3.759739e+00	1.548712e+01	6.367712e+00	4.252799e+00	-8.484034e+00
## 977	-6.103852e-03	1.846840e-01	3.871177e-01	-1.580770e-01	1.252593e+00
## 978	-1.375062e-01	1.028404e+00	9.473098e-01	-4.234517e-01	2.341113e+00
## 979	-4.719578e-02	5.948857e-02	3.980069e-01	3.640688e-01	5.395587e-01
## 981	1.402073e-02	1.504116e-01	1.932835e-01	-3.049385e-01	9.435006e-01
## 982	2.921372e+00	-9.391069e-01	-2.014783e+01	-2.579227e+01	-1.678217e+01
## 983	-2.694282e-02	7.967795e-01	1.676323e+00	-6.757271e-01	5.412633e+00
## 984	-7.209812e-01	1.158406e+00	3.685922e+00	3.678057e+00	6.853473e-01
## 985	5.128438e-02	-2.522950e-01	-3.964162e-02	2.318495e-02	1.786569e-01
## 988	-7.433874e-05	1.573866e-06	4.760000e-04	6.866405e-04	2.983771e-04
## 989	-1.512465e-02	1.889608e-02	7.571203e-02	1.030174e-01	3.286248e-02
## 990	-8.582867e-05	1.813579e-06	5.495767e-04	7.927762e-04	3.445038e-04
## 991	1.689156e-07	-1.333613e-06	4.471461e-07	1.070537e-06	1.357754e-06
## 992	6.257502e-02	-3.254104e-01	-2.817348e-02	6.304335e-02	2.448828e-01
## 993	-5.459388e-02	3.741797e-01	3.254698e-01	-1.247800e-01	7.393886e-01
## 994	-1.722141e-02	5.027372e-04	1.101768e-01	1.588122e-01	6.908578e-02
## 995	4.564346e-06	8.145495e-04	1.523591e-03	-9.843428e-04	5.447269e-03
## 996	-4.486459e+00	2.159747e+01	4.012520e+00	-1.091109e+00	-1.490403e+01
## 997	-7.870561e-02	2.838429e-01	2.768609e-01	-1.386544e-02	-2.323646e-01
## 999	-7.295608e-02	4.362414e-02	5.465946e-01	6.249974e-01	5.730941e-01

## 1000	-5.501576e-02	2.850185e-01	8.885888e-01	1.785929e-01	2.112445e+00
## 1001	-3.689249e-04	1.687202e-03	9.952440e-04	-9.725431e-04	-1.763814e-03
## 1002	-1.980011e-02	-7.557526e-02	2.141444e-01	3.332040e-01	1.958280e-01
## 1004	-9.730524e-05	2.064475e-06	6.230521e-04	8.987652e-04	3.905521e-04
## 1006	5.613303e-08	-4.782425e-07	1.896935e-07	4.253247e-07	5.070216e-07
## 1007	-1.302854e-04	2.777967e-06	8.342102e-04	1.203361e-03	5.229015e-04
## 1008	-1.457361e-02	6.760832e-02	1.596354e-02	1.495639e-03	-4.451142e-02
## 1009	-4.546175e-02	2.151194e-01	1.167981e-01	-1.386953e-01	-2.313096e-01
## 1010	-2.854584e-04	1.298972e-03	3.539646e-04	8.260726e-05	-8.002302e-04
## 1011	-3.762608e-02	1.050011e-03	2.413483e-01	3.472297e-01	1.525625e-01
## 1012	-2.433698e-02	-1.626712e-02	1.751227e-01	2.579869e-01	1.233709e-01
## 1013	5.034325e-03	5.495989e-01	9.443473e-01	-7.178109e-01	3.446058e+00
## 1014	3.494811e-02	-1.725173e-01	-2.633712e-02	1.696454e-02	1.226485e-01
## 1016	-1.961082e-06	-2.857662e-05	4.784952e-05	7.536409e-05	5.814327e-05
## 1017	9.836324e-02	-1.183045e-01	4.432168e-01	-4.261134e-01	2.316515e+00
## 1018	-1.345458e-03	6.081202e-03	1.658923e-03	4.557195e-04	-3.861901e-03
## 1020	-1.616252e-04	3.170695e-06	1.035704e-03	1.493508e-03	6.504819e-04
## 1023	-8.070204e-02	3.920394e-01	6.810155e-02	-2.664031e-02	-2.735191e-01
## 1024	7.586480e-06	-3.736879e-05	-5.803110e-06	3.524390e-06	2.651977e-05
## 1025	-6.508097e-02	2.755487e-01	1.935449e-01	-1.139590e-01	-2.684797e-01
## 1032	-2.971736e-01	1.788494e+00	7.971731e-01	-5.267831e-01	1.007345e+00
## 1033	-3.621731e-02	-1.261836e-02	2.472878e-01	3.610014e-01	1.658522e-01
## 1034	-8.680753e-06	4.799178e-05	1.535969e-05	-1.042230e-05	1.379008e-06
## 1035	-1.002909e-02	4.706638e-02	2.607856e-02	-2.956981e-02	-5.026827e-02
## 1039	5.177051e-07	-1.630998e-07	-4.129502e-06	-4.746920e-06	-4.513282e-06
## 1041	-1.722154e-04	3.634888e-06	1.102751e-03	1.590721e-03	6.913069e-04
## 1044	-5.219153e-02	3.079259e-01	2.194168e-01	-6.085347e-02	3.813681e-01
## 1045	5.961067e-07	-3.088505e-06	-2.721970e-07	5.804446e-07	2.340505e-06
## 1046	-3.854769e+00	1.720120e+01	5.005464e+00	1.743378e+00	-1.073089e+01
## 1049	-1.016401e-01	2.979373e-01	4.270691e-01	1.366052e-01	-1.816125e-01
## 1050	-6.177706e-07	2.966970e-06	1.551192e-06	-1.998185e-06	-3.227339e-06
## 1051	-8.739877e-03	8.548326e-04	5.578877e-02	7.956256e-02	3.566210e-02
## 1055	2.121674e-02	1.051587e-01	2.856529e-01	-2.589164e-01	1.217202e+00
## 1056	-9.024003e-01	4.283783e+00	8.763896e-01	-1.001855e-01	-2.905466e+00

##	1057	-1.877597e-02	5.231452e-01	1.053386e+00	-4.481659e-01	3.411963e+00
##	1058	1.834909e-05	-9.324867e-05	-1.071605e-05	1.420061e-05	6.859710e-05
##	1059	-8.481482e-01	4.062962e+00	7.814953e-01	-1.667915e-01	-2.786996e+00
##	1061	-1.185173e-02	5.764336e-02	9.921720e-03	-4.049382e-03	-4.027414e-02
##	1062	-4.948151e-01	1.137150e-02	3.169554e+00	4.569257e+00	1.990687e+00
##	1063	-4.876926e-02	3.580492e-01	9.866680e-01	3.590795e-02	2.574509e+00
##	1064	-2.298951e-08	1.082963e-07	5.945512e-08	-6.883796e-08	-1.159900e-07
##	1065	-1.869663e-02	1.682251e-01	4.366410e-01	-2.221066e-02	1.193002e+00
##	1066	-1.224836e-04	2.672339e-06	7.842028e-04	1.131145e-03	4.914677e-04
##	1067	-2.091809e-05	-2.966353e-05	1.744198e-04	2.543412e-04	1.458826e-04
##	1070	-1.652222e-05	2.592412e-07	1.059051e-04	1.527910e-04	6.647412e-05
##	1074	-1.379296e-02	6.141901e-02	1.806058e-02	6.494717e-03	-3.819490e-02
##	1075	8.591589e-03	-4.223501e-02	-6.677391e-03	3.821691e-03	2.988176e-02
##	1080	3.392683e-02	9.071265e-01	1.497191e+00	-1.367654e+00	5.911453e+00
##	1081	-3.819012e-02	7.262628e-02	3.771106e-01	2.685263e-01	6.234754e-01
##	1082	-9.876785e-03	4.744024e-02	2.479606e-02	-3.195950e-02	-5.160773e-02
##	1086	-3.852234e+00	1.888406e+01	3.054835e+00	-1.608783e+00	-1.331710e+01
##	1087	-6.445155e-01	2.969859e+00	1.720547e+00	-1.757210e+00	-3.124490e+00
##	1088	-1.661312e-03	3.548109e-05	1.063719e-02	1.534432e-02	6.667510e-03
##	1091	-1.371286e-04	2.905109e-06	8.780533e-04	1.266606e-03	5.504087e-04
##	1092	-6.758292e-05	1.422028e-06	4.327531e-04	6.242572e-04	2.712783e-04
##	1093	1.201100e-01	-5.968694e-01	-8.596389e-02	6.613700e-02	4.275809e-01
##	1095	-5.582878e-05	1.165813e-06	3.574992e-04	5.157031e-04	2.241133e-04
##	1096	-1.104579e-01	4.428423e-01	2.009798e-01	1.489688e-01	-2.308371e-01
##	1098	5.695579e-05	-2.888428e-04	-3.407272e-05	4.285614e-05	2.116867e-04
##	1099	-2.756468e-05	4.399549e-07	1.766869e-04	2.548951e-04	1.109166e-04
##	1100	-6.411905e-02	2.138934e-03	4.119487e-01	5.913135e-01	2.623233e-01
##	1102	-2.143288e-07	-2.524760e-07	1.669127e-06	2.488401e-06	1.257271e-06
##	1104	-8.017139e-02	8.149018e-02	4.490908e-01	5.310908e-01	1.667914e-01
##	1105	-1.374154e-02	6.032477e-03	8.332601e-02	1.119306e-01	4.405006e-02
##	1107	-6.018166e-01	2.725228e+00	7.357929e-01	1.935913e-01	-1.736163e+00
##	1108	-8.792153e-01	4.232340e+00	2.211797e+00	-2.862753e+00	-4.573653e+00
##	1110	-1.023396e-01	8.197423e-02	8.028994e-01	8.517587e-01	9.340266e-01
##	1111	2.637456e-03	7.136992e-02	1.179940e-01	-1.073094e-01	4.652101e-01

##	1112	-5.593051e-05	1.175393e-06	3.581407e-04	5.166277e-04	2.245067e-04
##	1113	-2.507784e-01	5.033711e-01	1.082173e+00	1.239839e+00	1.865978e-01
##	1114	-1.829163e-01	8.613025e-01	1.857130e-01	-6.423394e-03	-5.781907e-01
##	1115	-2.163265e+00	6.704245e+00	6.224231e+00	6.818136e+00	-1.439112e+00
##	1117	7.776898e-02	-3.946146e-01	-4.628903e-02	5.894870e-02	2.893294e-01
##	1118	-1.430310e-11	1.996803e-11	1.287077e-10	1.092703e-10	1.883697e-10
##	1119	-2.509617e-06	-4.498805e-07	1.664748e-05	2.417536e-05	1.084271e-05
##	1121	-2.248689e-01	2.747575e-01	1.930504e+00	1.758315e+00	2.649281e+00
##	1122	-1.675604e-02	2.750575e-01	6.259920e-01	-1.642787e-01	1.896988e+00
##	1127	-2.526277e-02	4.358398e-01	7.622516e-01	-3.317403e-01	2.403702e+00
##	1129	7.251812e-08	5.102584e-07	1.173486e-06	-1.083703e-06	4.928607e-06
##	1130	-4.582195e-03	2.236738e-02	3.744485e-03	-1.725246e-03	-1.569090e-02
##	1131	-1.744774e-01	7.503566e-01	5.097161e-01	-3.364189e-01	-7.426066e-01
##	1132	1.264517e-05	4.048760e-03	7.717657e-03	-4.778038e-03	2.733236e-02
##	1134	-4.532256e-05	2.028477e-04	1.410657e-04	-1.312363e-04	-2.167974e-04
##	1135	-5.853653e-05	1.097906e-06	3.750239e-04	5.409728e-04	2.352885e-04
##	1136	-2.703871e-02	1.309287e-01	2.330166e-02	-8.091708e-03	-9.099535e-02
##	1137	-2.698261e-02	1.519709e-01	3.993832e-01	5.746581e-02	9.569352e-01
##	1138	-8.505720e-03	7.793627e-03	6.880545e-02	6.971310e-02	8.476168e-02
##	1141	-3.080082e-02	1.500957e-01	2.545203e-02	-1.109634e-02	-1.051101e-01
##	1142	-2.835168e-04	1.350456e-03	4.354173e-03	1.057380e-03	1.009362e-02
##	1143	-1.214128e-03	6.235949e-01	1.552112e+00	-6.143471e-01	5.147805e+00
##	1144	-1.002390e+00	4.821649e+00	9.008456e-01	-2.363066e-01	-3.324153e+00
##	1145	-3.796422e-02	8.104805e-04	2.430808e-01	3.506484e-01	1.523661e-01
##	1146	-2.591501e-03	5.715356e-03	2.562935e-02	1.647809e-02	4.285044e-02
##	1147	1.571374e-05	-7.720241e-05	-1.197878e-05	6.979076e-06	5.535284e-05
##	1148	-9.029215e-02	7.070774e-01	6.086300e-01	-3.347100e-01	1.550972e+00
##	1150	-1.776724e-04	3.542033e-06	1.138459e-03	1.641678e-03	7.149477e-04
##	1152	-3.666145e-05	6.793185e-07	2.348753e-04	3.388247e-04	1.473420e-04
##	1153	-2.383044e-02	-2.128514e-03	1.556158e-01	2.253213e-01	9.968006e-02
##	1156	-3.176615e-03	6.778063e-05	2.033956e-02	2.934020e-02	1.274912e-02
##	1157	6.257451e-04	-6.429586e-03	3.368898e-03	6.911632e-03	7.311168e-03
##	1158	7.046200e-04	-3.463807e-03	-5.476272e-04	3.134237e-04	2.450701e-03
##	1159	-5.063693e-01	2.599480e+00	5.832909e-01	-3.582250e-01	-1.076533e+00

##	1160	-1.577550e-02	7.212077e-02	1.850143e-02	3.721813e-03	-4.655681e-02
##	1161	-1.440131e-01	2.489104e-01	6.395394e-01	8.438944e-01	2.017124e-01
##	1163	-9.385663e-02	7.899019e-01	7.718578e-01	-4.021476e-01	2.073732e+00
##	1166	3.555211e-05	-1.747616e-04	-2.762052e-05	1.580458e-05	1.236915e-04
##	1167	8.180885e-05	-4.084139e-04	-5.626484e-05	4.879378e-05	2.944537e-04
##	1168	-3.971290e-01	6.853901e-02	2.473742e+00	3.549200e+00	1.501918e+00
##	1169	-6.896404e-05	1.456793e-06	4.415893e-04	6.370029e-04	2.768106e-04
##	1172	-1.796606e-07	4.021363e-09	1.150189e-06	1.659044e-06	7.209174e-07
##	1175	8.035951e-05	-3.955170e-04	-6.187346e-05	3.670503e-05	2.803068e-04
##	1176	-2.698797e-04	5.751281e-06	1.728042e-03	2.492712e-03	1.083205e-03
##	1177	-1.263200e-04	2.736850e-06	8.087805e-04	1.166624e-03	5.068981e-04
##	1178	2.661488e-05	-1.697618e-04	2.492537e-05	8.906769e-05	1.544897e-04
##	1179	-2.767380e-04	8.158140e-03	1.716701e-02	-6.911212e-03	5.541671e-02
##	1181	-8.831819e-02	1.027478e-01	5.230985e-01	6.359997e-01	3.983841e-01
##	1182	-8.568362e-05	1.803010e-06	5.486586e-04	7.914519e-04	3.439386e-04
##	1184	2.120774e-07	-1.313235e-06	1.463051e-07	6.297543e-07	1.151929e-06
##	1185	1.855674e-02	-9.122232e-02	-1.442223e-02	8.254509e-03	6.454091e-02
##	1186	6.658862e-09	8.750489e-06	1.648239e-05	-1.022370e-05	5.826527e-05
##	1187	-1.238939e-05	2.150419e-07	7.938722e-05	1.145304e-04	4.980604e-05
##	1188	-3.556233e-02	5.073346e-01	1.026911e+00	-3.021476e-01	3.092728e+00
##	1189	-3.607050e+00	1.376575e+01	7.361869e+00	6.240065e+00	-6.475141e+00
##	1190	-7.455810e-02	2.670705e-01	2.615144e-01	-4.202917e-03	-2.139394e-01
##	1191	-2.990570e-06	1.285640e-05	4.288306e-05	1.253923e-05	9.587411e-05
##	1194	4.674670e-06	-4.732036e-05	2.489159e-05	5.037084e-05	5.499186e-05
##	1195	-7.707509e-03	-2.083167e-04	4.978406e-02	7.192765e-02	3.151797e-02
##	1197	-5.314644e-06	2.554802e-05	1.332579e-05	-1.725120e-05	-2.780979e-05
##	1198	-1.349507e-03	6.038562e-03	3.750226e-03	-3.212749e-03	-6.196305e-03
##	1201	-3.783005e-01	3.346534e-02	2.393037e+00	3.443874e+00	1.479421e+00
##	1203	1.531141e-03	4.093704e-02	6.756510e-02	-6.172061e-02	2.667733e-01
##	1205	6.917875e-08	-1.255592e-06	1.008233e-06	1.844237e-06	1.668070e-06
##	1206	-2.344611e-02	2.236852e-02	1.855570e-01	1.895836e-01	2.239631e-01
##	1207	-2.469275e-04	5.282334e-06	1.583681e-03	2.281383e-03	9.981330e-04
##	1208	-1.499249e-04	3.172170e-06	9.599981e-04	1.384809e-03	6.017871e-04
##	1211	-3.502731e-02	-5.978561e-03	2.321157e-01	3.368558e-01	1.511668e-01

##	1212	-2.375437e-04	-1.245952e-03	2.958996e-03	4.668518e-03	2.868469e-03
##	1216	-9.754389e-05	2.746730e-06	6.240224e-04	8.992114e-04	3.902018e-04
##	1217	-2.879278e-07	-2.040704e-07	2.086387e-06	3.075505e-06	1.480551e-06
##	1218	-2.856502e-06	6.105815e-08	1.828995e-05	2.638337e-05	1.146463e-05
##	1219	-4.000672e-04	1.848013e-03	4.476899e-04	5.684585e-05	-1.208824e-03
##	1220	-1.305564e-02	5.625698e-03	8.902860e-02	1.131227e-01	7.544256e-02
##	1221	-5.858703e-02	2.816372e-01	1.468965e-01	-1.901812e-01	-3.065738e-01
##	1224	-6.727160e-01	3.132350e+00	7.235492e-01	4.616401e-02	-2.072440e+00
##	1225	-2.685059e-01	1.272363e+00	6.882047e-01	-8.236602e-01	-1.369519e+00
##	1226	-3.161381e-03	1.514833e-02	7.966432e-03	-1.013462e-02	-1.644830e-02
##	1227	-4.102418e-07	-3.487882e-07	3.037694e-06	4.496321e-06	2.193724e-06
##	1229	-4.148205e-02	1.027383e-03	2.654422e-01	3.828597e-01	1.662677e-01
##	1230	3.073751e-02	-1.511012e-01	-2.388922e-02	1.367259e-02	1.069058e-01
##	1231	-1.203772e-02	5.549920e-02	1.358156e-02	1.917336e-03	-3.623994e-02
##	1233	-3.758140e-07	1.803971e-06	9.444341e-07	-1.213085e-06	-1.961452e-06
##	1234	-6.158727e-02	8.727117e-01	9.873753e-01	-7.260731e-01	3.213589e+00
##	1235	-2.633478e-04	1.099877e-05	1.708154e-03	2.429287e-03	1.124594e-03
##	1236	-2.936646e+00	1.161486e+01	5.975766e+00	3.427545e+00	-6.434326e+00
##	1238	-5.921815e-06	4.171136e-05	2.327812e-05	-1.864361e-05	4.953577e-05
##	1242	-1.299235e-04	2.675158e-06	8.320136e-04	1.200209e-03	5.216258e-04
##	1247	-1.043320e-04	2.216523e-06	6.680409e-04	9.636620e-04	4.187493e-04
##	1249	7.926509e-06	5.018824e-03	9.427831e-03	-5.901677e-03	3.340344e-02
##	1251	-4.734461e-04	1.011153e-05	3.031420e-03	4.372876e-03	1.900129e-03
##	1252	-8.831222e-02	7.220483e-02	5.985987e-01	6.818109e-01	5.080728e-01
##	1253	-2.560526e-02	-2.117728e-02	1.889258e-01	2.794688e-01	1.360386e-01
##	1256	-2.458392e-04	5.144063e-06	1.574804e-03	2.271009e-03	9.884373e-04
##	1258	-7.817065e-01	3.374164e+00	1.146173e+00	5.791466e-01	-2.001483e+00
##	1259	-1.842243e-05	3.497595e-07	1.180097e-04	1.702417e-04	7.401102e-05
##	1263	7.864564e-02	-3.939065e-01	-5.273771e-02	4.941380e-02	2.846984e-01
##	1264	1.135926e-05	-1.432491e-04	9.220209e-05	1.780945e-04	1.748148e-04
##	1265	-8.220497e-01	3.783790e+00	9.346260e-01	1.432417e-01	-2.465297e+00
##	1266	-5.270344e-03	2.550633e-02	4.558311e-03	-1.549294e-03	-1.771459e-02
##	1269	-2.674979e-04	5.713060e-06	1.712758e-03	2.470683e-03	1.073576e-03
##	1270	-1.152607e-04	2.446578e-06	7.380211e-04	1.064609e-03	4.626189e-04

##	1271	-2.249605e-05	7.947439e-05	5.347219e-05	5.159441e-05	-3.000778e-05
##	1272	-1.798694e-01	8.647470e-01	4.509201e-01	-5.841047e-01	-9.413858e-01
##	1273	-1.057221e-04	2.220805e-06	6.769730e-04	9.765525e-04	4.243729e-04
##	1274	-7.962591e-02	1.888740e-01	3.574794e-01	2.472577e-01	-4.204936e-02
##	1276	-8.568362e-05	1.803010e-06	5.486586e-04	7.914519e-04	3.439386e-04
##	1282	-3.682488e+00	1.810252e+01	2.862100e+00	-1.637919e+00	-1.280769e+01
##	1283	5.537525e-04	1.480579e-02	2.443654e-02	-2.232245e-02	9.648455e-02
##	1284	-4.145194e-02	1.228466e-01	1.661537e-01	6.473122e-02	-6.928288e-02
##	1285	-2.226922e-02	1.089249e-01	1.793697e-02	-8.822965e-03	-7.661471e-02
##	1286	-1.544028e-02	9.634148e-03	9.130665e-02	1.183097e-01	4.397161e-02
##	1287	-2.490344e-06	1.196964e-05	6.245604e-06	-8.079172e-06	-1.302786e-05
##	1288	-6.074668e-01	2.906931e+00	5.632604e-01	-1.133825e-01	-1.991418e+00
##	1289	-5.177497e-04	1.587458e-01	3.030866e-01	-1.795553e-01	1.059512e+00
##	1290	-2.819200e-04	1.291204e-03	7.589849e-04	-7.481430e-04	-1.351519e-03
##	1291	-1.331688e-02	6.312853e-02	1.303464e-02	-1.304287e-03	-4.274052e-02
##	1293	4.104706e-04	-2.809916e-03	5.918222e-04	1.749433e-03	2.641102e-03
##	1294	-1.453987e-02	3.522264e-03	9.912516e-02	1.305544e-01	7.964907e-02
##	1296	-6.775018e-02	2.896720e-01	9.782801e-01	2.910910e-01	2.192417e+00
##	1298	7.857542e-03	5.101167e-01	9.136587e-01	-6.650846e-01	3.368592e+00
##	1299	-1.428019e-11	4.881051e-12	9.991990e-11	1.264979e-10	8.729895e-11
##	1301	-2.537196e-01	1.645308e+00	8.383510e-01	-6.048481e-01	1.471095e+00
##	1302	-8.133863e-05	1.314103e-06	5.215997e-04	7.521861e-04	3.279325e-04
##	1304	-2.518495e-01	5.464884e-03	1.612543e+00	2.326001e+00	1.010853e+00
##	1305	-1.420915e-04	3.002113e-06	9.098431e-04	1.312463e-03	5.703480e-04
##	1306	2.679689e-05	-1.438736e-04	-6.821156e-06	3.595253e-05	1.119151e-04
##	1308	-3.946345e-01	4.474570e-02	2.485061e+00	3.573118e+00	1.528253e+00
##	1309	-6.399766e-02	1.537302e-01	6.978551e-01	4.142544e-01	1.272773e+00
##	1311	-3.495537e-02	4.874106e-01	8.384384e-01	-3.241441e-01	2.561283e+00
##	1312	1.748462e-06	7.638043e-05	1.301574e-04	-1.064775e-04	4.926318e-04
##	1315	-8.164339e-05	1.519932e-06	5.230381e-04	7.545304e-04	3.280852e-04
##	1317	-2.252772e+00	9.943750e+00	3.050359e+00	1.234122e+00	-6.104638e+00
##	1318	-5.666619e-08	2.700419e-07	1.440129e-07	-1.777812e-07	-2.919272e-07
##	1320	-1.269109e-04	2.691178e-06	8.126227e-04	1.172222e-03	5.093875e-04
##	1321	-4.735277e-08	2.252970e-07	1.206391e-07	-1.476172e-07	-2.432450e-07

##	1323	-7.764230e-01	4.470880e-01	4.709616e+00	6.382393e+00	3.085737e+00
##	1324	1.768197e-03	4.731163e-02	7.807961e-02	-7.132297e-02	3.082786e-01
##	1325	-2.353220e-02	1.846900e-01	4.982527e-01	3.384501e-03	1.320733e+00
##	1326	5.048723e-02	-2.568412e-01	-2.929276e-02	3.957336e-02	1.888404e-01
##	1327	1.427099e-04	-7.015412e-04	-1.109141e-04	6.347975e-05	4.963493e-04
##	1328	3.497815e-04	-2.606520e-03	7.480464e-04	1.910212e-03	2.575153e-03
##	1329	-1.530553e+00	5.740971e+00	3.239256e+00	2.845979e+00	-2.593350e+00
##	1330	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02
##	1331	-8.492239e-02	3.343874e-01	1.615082e-01	1.265554e-01	-1.681585e-01
##	1332	-6.346555e-05	1.315301e-06	4.064135e-04	5.862657e-04	2.547873e-04
##	1334	-1.085289e-04	2.529604e-06	6.947256e-04	1.001850e-03	4.351616e-04
##	1335	-3.892773e-02	8.537886e-04	2.492240e-01	3.595027e-01	1.561984e-01
##	1340	-4.401465e-02	3.226257e-02	3.409840e-01	3.701594e-01	3.853365e-01
##	1341	-1.235075e-02	8.714100e-04	7.871873e-02	1.122403e-01	4.823554e-02
##	1343	2.871137e-06	-1.565451e-05	-4.609207e-07	4.323991e-06	1.234361e-05
##	1347	-1.138111e-05	1.856069e-07	7.294080e-05	1.052334e-04	4.577252e-05
##	1348	-8.012013e-02	2.996007e-01	2.721399e-01	-3.998767e-02	-2.559053e-01
##	1350	-2.746910e-08	1.298030e-07	7.070982e-08	-8.330743e-08	-1.393758e-07
##	1352	-1.341972e-01	4.600302e-01	1.698798e+00	7.021802e-01	3.519850e+00
##	1354	8.187685e-02	-4.109150e-01	-5.395669e-02	5.307502e-02	2.976575e-01
##	1355	-2.991018e-02	5.844026e-01	8.744612e-01	-5.144313e-01	2.877635e+00
##	1356	1.963036e-04	5.283324e-03	8.712616e-03	-7.957759e-03	3.439261e-02
##	1357	-8.060198e-05	1.712014e-06	5.160984e-04	7.444810e-04	3.235091e-04
##	1358	-3.121638e-05	5.657120e-07	2.000053e-04	2.885265e-04	1.254771e-04
##	1359	-5.475519e-02	2.069222e-01	1.141183e-01	9.876904e-02	-9.512048e-02
##	1360	-1.378899e-02	6.656951e-02	2.133424e-01	5.036529e-02	4.965511e-01
##	1363	-1.661386e-04	3.371464e-06	1.064019e-03	1.534864e-03	6.671851e-04
##	1364	-1.761442e-05	3.510986e-04	7.970190e-04	-2.387137e-04	2.466124e-03
##	1368	-2.349923e-05	-8.684314e-06	2.371491e-04	2.556801e-04	3.136642e-04
##	1369	1.096514e-05	-5.389943e-05	-8.497483e-06	4.878089e-06	3.820911e-05
##	1370	-1.064528e-02	5.295724e-04	6.796469e-02	9.744014e-02	4.207997e-02
##	1372	-1.063975e-02	-9.071797e-05	6.877705e-02	9.836215e-02	4.284539e-02
##	1374	-5.344595e-05	1.076826e-06	3.422946e-04	4.937723e-04	2.146318e-04
##	1375	7.724869e-05	-3.797428e-04	-6.003684e-05	3.436076e-05	2.686764e-04

##	1376	-2.640368e-04	5.626866e-06	1.691590e-03	2.439003e-03	1.062344e-03
##	1377	-6.305614e-02	2.987608e-01	6.189772e-02	-5.867220e-03	-2.021439e-01
##	1378	-6.217657e-02	3.056510e-01	4.832433e-02	-2.765823e-02	-2.162520e-01
##	1379	1.782093e-05	-9.753645e-05	-2.427650e-06	2.757284e-05	7.720351e-05
##	1383	-1.762481e-01	4.311213e-01	6.378259e-01	7.817361e-01	5.288332e-02
##	1384	-1.367299e-04	2.875786e-06	8.755360e-04	1.262967e-03	5.488721e-04
##	1385	-1.103138e-01	4.863822e-01	1.499922e-01	6.150719e-02	-2.981077e-01
##	1386	-1.760997e-02	1.113036e-01	3.045644e-01	2.907913e-02	7.619650e-01
##	1387	-6.417693e-01	1.751126e-02	4.115436e+00	5.922888e+00	2.598535e+00
##	1388	-2.786250e-02	4.127477e-01	7.951677e-01	-2.647221e-01	2.421694e+00
##	1389	-2.954709e-03	1.449155e-02	2.335028e-03	-1.248224e-03	-1.022475e-02
##	1390	8.457412e-05	2.261439e-03	3.732406e-03	-3.409499e-03	1.473689e-02
##	1391	-8.582783e-02	1.278149e+00	1.545015e+00	-1.446958e+00	4.347726e+00
##	1393	-5.419632e-01	4.360830e-01	4.098403e+00	4.466124e+00	4.535405e+00
##	1395	-1.531644e-02	9.025821e-02	1.937492e-01	1.709569e-02	4.605862e-01
##	1397	-1.376499e-04	2.886917e-06	8.814295e-04	1.271480e-03	5.525581e-04
##	1399	-1.687312e-06	8.110593e-06	4.231107e-06	-5.475715e-06	-8.828225e-06
##	1400	-4.002505e-01	1.339387e-02	2.557190e+00	3.687238e+00	1.598957e+00
##	1403	-1.263355e-02	2.662840e-03	7.910718e-02	1.101375e-01	4.588416e-02
##	1404	-2.636396e-04	5.627541e-06	1.688062e-03	2.435054e-03	1.058109e-03
##	1405	-2.130534e-03	5.096870e-03	7.844123e-03	9.689121e-03	8.422083e-04
##	1406	-1.213112e-02	2.305489e-04	7.770696e-02	1.121027e-01	4.873076e-02
##	1408	-2.967390e-02	4.727547e-01	8.633701e-01	-3.328601e-01	2.675695e+00
##	1409	-2.305177e-02	5.428882e-01	9.414246e-01	-4.789292e-01	3.084204e+00
##	1410	-1.187404e-01	2.633850e-03	7.601690e-01	1.096525e+00	4.764049e-01
##	1412	-6.623100e-02	3.098461e-01	1.006727e+00	2.535973e-01	2.320965e+00
##	1413	-1.601435e-07	-8.144803e-07	1.965466e-06	3.096897e-06	1.894583e-06
##	1414	-5.217860e-02	3.873023e-02	4.051474e-01	4.382570e-01	4.600405e-01
##	1415	-3.799024e+00	1.784419e+01	3.908080e+00	-4.565839e-02	-1.194071e+01
##	1417	-5.202785e+00	2.466332e+01	5.092823e+00	-5.087616e-01	-1.669820e+01
##	1418	-2.822214e-02	4.839207e-01	1.093553e+00	-3.005793e-01	3.333230e+00
##	1420	-5.558928e-02	2.594272e-01	5.911488e-02	2.651406e-03	-1.721513e-01
##	1421	1.205397e-01	-5.925939e-01	-9.363994e-02	5.369330e-02	4.192983e-01
##	1422	-5.529520e-02	6.253425e-01	1.048114e+00	-3.444029e-01	3.072872e+00

##	1423	-4.407876e-04	-1.692917e-03	4.779060e-03	7.438394e-03	4.374904e-03
##	1424	-2.193867e-04	4.685675e-06	1.404707e-03	2.026314e-03	8.804868e-04
##	1425	-2.493810e+00	8.487850e+00	6.273856e+00	6.350339e+00	-2.899049e+00
##	1426	-8.486313e-02	6.332822e-02	6.144145e-01	7.002497e-01	6.286927e-01
##	1427	4.981004e-03	8.555588e-01	1.356370e+00	-1.161568e+00	4.956206e+00
##	1429	-1.043320e-04	2.216523e-06	6.680409e-04	9.636620e-04	4.187493e-04
##	1430	1.314303e-02	-2.786075e-04	-8.415574e-02	-1.213967e-01	-5.275154e-02
##	1431	-1.110469e-03	4.559173e-03	1.897289e-03	1.285694e-03	-2.484882e-03
##	1432	-5.832576e-01	2.688695e+00	6.584942e-01	9.365112e-02	-1.755345e+00
##	1434	-5.163401e-05	1.071883e-06	3.306461e-04	4.769678e-04	2.072862e-04
##	1436	-7.427160e-06	-1.420674e-04	2.129439e-04	3.504307e-04	2.526626e-04
##	1437	2.965846e-06	7.674152e-05	1.304369e-04	-1.154087e-04	5.115561e-04
##	1438	-7.509107e-05	4.099267e-05	4.488561e-04	5.906066e-04	2.251341e-04
##	1439	-5.277585e-02	2.432035e-01	7.954538e-01	2.064311e-01	1.825445e+00
##	1443	-1.488691e-04	3.042236e-06	9.534758e-04	1.375301e-03	5.980221e-04
##	1445	-1.178593e-04	-6.531808e-04	1.508292e-03	2.385520e-03	1.476615e-03
##	1446	-1.350037e-02	6.355877e-02	3.494065e-02	-4.033062e-02	-6.805687e-02
##	1447	-2.282377e-02	3.895538e-01	8.809232e-01	-2.410067e-01	2.683503e+00
##	1449	-4.402484e+00	1.970946e+01	5.642899e+00	1.864138e+00	-1.235388e+01
##	1450	-3.658375e-01	3.005928e-01	2.039426e+00	2.808884e+00	1.110547e+00
##	1452	-1.452991e-01	6.114100e-01	4.351945e-01	-2.445954e-01	-5.921197e-01
##	1454	-4.067897e-04	1.587679e-02	3.257056e-02	-1.467057e-02	1.073374e-01
##	1455	4.651683e-05	1.274141e-03	2.110162e-03	-1.910473e-03	8.307542e-03
##	1456	-1.414328e-04	3.034972e-06	9.055663e-04	1.306274e-03	5.675993e-04
##	1457	-2.442480e-05	-4.144535e-05	2.247982e-04	3.140257e-04	2.166596e-04
##	1458	-1.100058e-02	1.057024e-03	6.983450e-02	9.933214e-02	4.248010e-02
##	1459	-2.176760e-04	4.629354e-06	1.394634e-03	2.010784e-03	8.759634e-04
##	1462	-3.411346e-04	-2.667283e-02	3.293123e-02	5.577073e-02	4.210876e-02
##	1463	-2.986568e-02	4.699141e-01	9.217821e-01	-3.109686e-01	2.826208e+00
##	1464	-3.604817e-05	-2.177253e-06	2.341996e-04	3.387800e-04	1.491866e-04
##	1465	-2.622564e-02	-8.536454e-02	2.668213e-01	4.122125e-01	2.371350e-01
##	1466	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02
##	1468	-4.695139e-02	5.657595e-01	1.092004e+00	-2.961634e-01	3.208606e+00
##	1470	-6.203524e-01	3.046513e+00	4.856451e-01	-2.699105e-01	-2.152930e+00

## 1472	-2.668186e-02	4.983134e-01	9.378202e-01	-3.780947e-01	2.956317e+00
## 1474	-2.703989e-08	1.277571e-07	6.962089e-08	-8.195878e-08	-1.371590e-07
## 1475	-1.780793e-04	3.718071e-06	1.150225e-03	1.647620e-03	7.415472e-04
## 1477	-1.186449e-04	1.134865e-06	7.738064e-04	1.101972e-03	5.120974e-04
## 1478	-6.418382e-02	2.217482e-02	4.502989e-01	5.686727e-01	3.963162e-01
## 1479	-1.495361e-06	3.201011e-08	9.574763e-06	1.381148e-05	6.001972e-06
## 1480	-2.785371e-05	5.660110e-07	1.783794e-04	2.573221e-04	1.118382e-04
## 1481	-8.297661e-01	3.905976e+00	8.437819e-01	-2.683950e-02	-2.621096e+00
## 1482	-1.935523e-02	4.133713e-04	1.239293e-01	1.787701e-01	7.768029e-02
## 1483	-9.774219e-05	2.046866e-06	6.258925e-04	9.028574e-04	3.923784e-04
## 1484	-3.511078e-01	5.170865e-01	3.203869e+00	2.649374e+00	4.786050e+00
## 1485	-3.834995e-02	8.185389e-04	2.455509e-01	3.542116e-01	1.539147e-01
## 1486	-8.131177e-03	3.904668e-02	2.042100e-02	-2.628744e-02	-4.246919e-02
## 1487	-5.199652e-01	2.431957e+00	1.358753e+00	-1.511581e+00	-2.590278e+00
## 1489	-8.674607e-02	2.532616e-02	5.978766e-01	7.734456e-01	4.994540e-01
## 1494	-1.822254e-01	5.841421e-01	2.245323e+00	1.004606e+00	4.550244e+00
## 1496	-1.914909e-05	3.424666e-07	1.226911e-04	1.769991e-04	7.696893e-05
## 1498	-1.258718e-04	2.359811e-06	8.089545e-04	1.163944e-03	5.127815e-04
## 1500	-7.943367e-01	4.508119e-01	4.846166e+00	6.548145e+00	3.221799e+00
## 1501	-2.357558e-02	5.268021e-01	9.677502e-01	-4.410500e-01	3.122998e+00
## 1503	-1.461363e-04	3.058871e-06	9.357819e-04	1.349882e-03	5.866436e-04
## 1504	-3.721373e-02	9.589782e-02	1.608686e-01	9.565846e-02	-3.438889e-02
## 1505	-6.941988e-06	-2.268063e-06	4.764763e-05	6.901078e-05	3.269626e-05
## 1507	-9.433514e-04	4.476408e-03	2.412849e-03	-2.909838e-03	-4.823469e-03
## 1508	-1.751202e-02	2.824085e-02	1.372339e-01	1.219861e-01	1.817084e-01
## 1509	-5.436620e-01	2.559402e+00	1.407160e+00	-1.623804e+00	-2.740425e+00
## 1510	-1.409846e-02	4.775118e-03	8.729134e-02	1.173035e-01	4.714634e-02
## 1511	-1.950304e-01	9.023874e-01	2.163514e-01	2.471282e-02	-5.920638e-01
## 1513	-1.115498e-01	2.622911e-01	1.203795e+00	7.281285e-01	2.175649e+00
## 1517	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 1518	2.029175e-03	5.686633e-02	9.359514e-02	-8.530122e-02	3.681566e-01
## 1519	-8.892510e-02	3.685604e-01	1.479484e-01	9.609967e-02	-2.042918e-01
## 1520	-7.693162e-01	1.676765e-01	4.802709e+00	6.711169e+00	2.795391e+00
## 1521	-3.402962e-03	9.918297e-02	2.057804e-01	-8.536612e-02	6.637889e-01

##	1522	-2.375152e+00	1.102840e+01	2.590228e+00	2.242295e-01	-7.269717e+00
##	1523	-7.860077e-06	-1.247871e-05	6.504131e-05	9.766007e-05	5.138310e-05
##	1525	-1.339483e-01	6.439647e-01	3.358076e-01	-4.349542e-01	-7.010277e-01
##	1526	-6.724994e-04	3.305912e-03	5.226700e-04	-2.991418e-04	-2.338959e-03
##	1527	-3.617352e-05	-1.658497e-04	4.265797e-04	6.646072e-04	4.095141e-04
##	1528	-3.146862e-05	6.448815e-07	2.015234e-04	2.907071e-04	1.263438e-04
##	1529	-3.599489e-02	7.498616e-04	2.305816e-01	3.325198e-01	1.447303e-01
##	1531	-6.343600e-01	2.723967e+00	9.464392e-01	4.980484e-01	-1.602489e+00
##	1532	-9.532926e-05	2.010851e-06	6.104164e-04	8.805379e-04	3.826477e-04
##	1535	-1.036093e-04	2.096045e-06	6.635628e-04	9.572022e-04	4.160868e-04
##	1536	-9.097078e-03	4.001133e-02	1.248388e-02	5.267275e-03	-2.442864e-02
##	1537	-8.070204e-02	3.920394e-01	6.810155e-02	-2.664031e-02	-2.735191e-01
##	1538	-1.308633e-04	2.792014e-06	8.379078e-04	1.208695e-03	5.252167e-04
##	1539	-4.739610e-03	7.513656e-02	1.712497e-01	-4.379048e-02	5.163311e-01
##	1540	-7.984729e-03	3.885645e-02	6.660292e-03	-2.769773e-03	-2.716554e-02
##	1542	1.190747e-02	3.192260e-01	5.270694e-01	-4.810005e-01	2.080393e+00
##	1543	-7.427160e-06	-1.420674e-04	2.129439e-04	3.504307e-04	2.526626e-04
##	1544	-3.928872e-01	3.936469e-02	2.480012e+00	3.567548e+00	1.529410e+00
##	1548	-2.837824e-02	4.093208e-01	6.479480e-01	-2.946847e-01	2.012461e+00
##	1551	-2.144318e-01	4.212819e-01	2.159886e+00	1.496626e+00	3.636415e+00
##	1553	-2.878913e-02	5.475637e-01	8.771504e-01	-4.606902e-01	2.841983e+00
##	1556	1.010554e-01	-5.222911e-01	-4.921113e-02	9.542314e-02	3.905295e-01
##	1558	3.619859e-05	-1.779841e-04	-2.807185e-05	1.618021e-05	1.260079e-04
##	1559	-2.031342e-01	9.361777e-01	5.421435e-01	-5.542345e-01	-9.850590e-01
##	1560	-3.089030e-04	-1.171507e-02	-2.016195e-02	1.646447e-02	-7.685495e-02
##	1561	-2.343482e-02	4.129239e-02	1.168546e-01	1.100434e-01	1.523754e-02
##	1562	-2.702165e-02	8.469962e-02	7.636183e-02	8.319825e-02	-2.021363e-02
##	1563	-6.049101e-05	2.908241e-04	1.516426e-04	-1.964509e-04	-3.166030e-04
##	1565	-1.792950e-05	-4.461968e-07	1.159422e-04	1.672924e-04	7.373615e-05
##	1566	-1.346029e-05	-2.172753e-06	8.975236e-05	1.293880e-04	5.978246e-05
##	1568	-1.176988e+00	5.225225e+00	1.559222e+00	5.854542e-01	-3.235348e+00
##	1569	-4.549958e-07	7.122672e-05	9.879479e-05	-8.888118e-05	3.721237e-04
##	1570	-4.930025e-04	6.151100e-01	1.164849e+00	-7.097481e-01	4.099729e+00
##	1571	-1.126296e+00	5.141078e+00	1.330110e+00	2.815466e-01	-3.311692e+00

## 1572	1.231447e-02	-2.576310e-04	-7.885432e-02	-1.137504e-01	-4.943124e-02
## 1573	-2.960605e+00	1.455391e+01	2.300986e+00	-1.316928e+00	-1.029706e+01
## 1574	-3.651421e+00	1.746470e+01	3.395536e+00	-6.645897e-01	-1.195713e+01
## 1575	-1.958280e-02	1.966699e-01	4.716527e-01	-5.358103e-02	1.320272e+00
## 1577	4.985970e-03	-3.412934e-02	7.180909e-03	2.124384e-02	3.206403e-02
## 1578	1.074337e-01	-5.622499e-01	-4.427908e-02	1.152785e-01	4.258825e-01
## 1579	-2.733276e-02	5.135907e-01	8.389594e-01	-4.252535e-01	2.705043e+00
## 1580	-2.029950e-03	2.370171e-03	1.084058e-02	1.428594e-02	5.981053e-03
## 1581	5.957176e-04	1.592729e-02	2.628742e-02	-2.401351e-02	1.037930e-01
## 1582	1.079274e-02	-5.259187e-02	-7.719250e-03	4.206730e-03	4.006868e-02
## 1584	-1.145926e-02	2.452582e-04	7.337318e-02	1.058402e-01	4.599378e-02
## 1585	-3.981601e-01	5.126609e-02	2.500223e+00	3.592932e+00	1.532528e+00
## 1586	-7.668148e-02	3.723046e-01	7.527652e-01	1.599930e-01	1.595255e+00
## 1587	-2.303663e-05	-4.790891e-06	1.551909e-04	2.236568e-04	1.049042e-04
## 1588	-1.211530e-01	4.967075e-01	3.735443e-01	-1.698073e-01	-4.684291e-01
## 1590	3.611835e-05	-2.082182e-04	7.590060e-06	7.683263e-05	1.736747e-04
## 1591	-3.214010e-02	-3.355999e-02	2.452820e-01	3.645943e-01	1.816992e-01
## 1592	-1.304996e-04	2.784588e-06	8.355782e-04	1.205335e-03	5.237559e-04
## 1593	-1.880244e-05	3.558490e-07	1.204454e-04	1.737557e-04	7.553990e-05
## 1595	-8.690480e-06	-1.492821e-07	5.605722e-05	8.093758e-05	3.546693e-05
## 1596	1.259961e-01	-6.193799e-01	-9.792265e-02	5.604806e-02	4.382196e-01
## 1597	-4.683089e-02	5.928474e-01	1.150849e+00	-3.264631e-01	3.411395e+00
## 1598	-2.308662e-02	4.515366e-01	9.996477e-01	-3.105538e-01	3.097420e+00
## 1599	-1.081369e-03	6.386843e-01	1.213062e+00	-7.316944e-01	4.258906e+00
## 1600	-1.601019e-03	7.640510e-03	4.059729e-03	-5.051460e-03	-8.269907e-03
## 1601	-8.671249e-01	4.054561e+00	9.131220e-01	2.590105e-02	-2.697358e+00
## 1602	-7.999979e-02	3.919063e-01	6.374051e-02	-3.289309e-02	-2.761575e-01
## 1604	1.345309e-04	3.609063e-03	5.959533e-03	-5.437142e-03	2.352085e-02
## 1605	-5.175643e-03	7.698965e-05	3.317776e-02	4.786977e-02	2.082323e-02
## 1606	-6.274202e-05	1.058993e-06	4.021335e-04	5.800797e-04	2.524565e-04
## 1607	-4.049681e-02	2.494850e-01	7.292065e-01	8.542363e-02	1.819799e+00
## 1608	2.192258e-02	-4.345060e-01	3.585105e-01	6.560235e-01	5.763458e-01
## 1609	1.464413e-03	-8.190423e-03	1.566998e-06	2.612694e-03	6.610958e-03
## 1610	-2.231451e-06	1.072486e-05	5.596661e-06	-7.238159e-06	-1.167269e-05

##	1611	-5.260753e-03	-2.256860e-02	5.983433e-02	9.329917e-02	5.573146e-02
##	1612	-7.196426e-03	3.304334e-02	8.274995e-03	1.413996e-03	-2.145782e-02
##	1614	-1.874953e-04	3.875874e-06	1.200843e-03	1.732061e-03	7.531884e-04
##	1616	9.257606e-02	-4.567098e-01	-7.008912e-02	4.438215e-02	3.244602e-01
##	1617	-2.554482e-05	4.808722e-07	1.636413e-04	2.360685e-04	1.026379e-04
##	1618	-5.145650e+00	2.520975e+01	4.097508e+00	-2.119708e+00	-1.776579e+01
##	1619	-3.260021e-02	-4.025080e-02	2.560131e-01	3.820036e-01	1.938157e-01
##	1621	-1.312107e-02	4.783923e-01	9.870625e-01	-4.340024e-01	3.238030e+00
##	1622	-1.971935e-02	4.530353e-01	9.810489e-01	-3.434811e-01	3.094354e+00
##	1623	-1.015777e-03	2.169425e-05	6.503902e-03	9.381992e-03	4.076721e-03
##	1625	1.403030e-02	3.751160e-01	6.191160e-01	-5.655614e-01	2.444511e+00
##	1627	1.271352e-02	-2.697068e-04	-8.140528e-02	-1.174291e-01	-5.102730e-02
##	1629	-2.694373e-02	-1.144995e-02	1.863551e-01	2.726495e-01	1.265841e-01
##	1630	-2.469592e-02	2.615304e-01	4.370561e-01	-1.325242e-01	1.260803e+00
##	1631	-1.867356e-02	8.808639e-02	4.818889e-02	-5.623479e-02	-9.446881e-02
##	1632	-4.959676e-06	-9.870015e-07	3.304536e-05	4.797952e-05	2.166680e-05
##	1634	-2.165904e-02	4.642108e-01	7.702993e-01	-4.041378e-01	2.517798e+00
##	1635	-2.963807e-05	6.092188e-07	1.897981e-04	2.737927e-04	1.189905e-04
##	1636	-1.827917e-03	1.684367e-02	4.285619e-02	-2.944356e-03	1.174274e-01
##	1637	-3.337188e+00	1.521885e+01	3.957202e+00	8.619893e-01	-9.791036e+00
##	1639	-4.042823e-01	1.216067e-01	2.458727e+00	3.510608e+00	1.449644e+00
##	1640	-1.973246e-06	4.081972e-05	4.653374e-05	-4.071812e-05	1.633129e-04
##	1641	-9.207728e-01	4.353507e+00	9.143344e-01	-6.762856e-02	-2.937855e+00
##	1643	-1.221078e-04	2.600892e-06	7.818528e-04	1.127835e-03	4.900852e-04
##	1644	-5.093436e+00	2.432144e+01	4.782927e+00	-8.471516e-01	-1.661739e+01
##	1645	-1.116218e-02	7.839918e-04	7.250038e-02	1.024633e-01	4.843240e-02
##	1646	-7.410768e-02	6.516244e-01	6.587492e-01	-3.508908e-01	1.814161e+00
##	1650	-9.968931e-02	3.758673e-01	3.340784e-01	-5.402460e-02	-3.219660e-01
##	1651	4.638693e-03	1.243820e-01	2.051559e-01	-1.874640e-01	8.100215e-01
##	1652	-8.006179e-05	1.408912e-06	5.131525e-04	7.401161e-04	3.222669e-04
##	1654	-5.393623e-01	2.534988e+00	1.399426e+00	-1.600077e+00	-2.710691e+00
##	1656	-5.919953e+00	2.888317e+01	7.864131e+00	-7.861061e+00	-2.386019e+01
##	1657	9.817655e-05	-9.966851e-04	5.146507e-04	1.060489e-03	1.128532e-03
##	1658	-5.662887e-05	1.196944e-06	3.626048e-04	5.230649e-04	2.272999e-04

## 1659	2.662291e-02	-1.345929e-01	-1.641737e-02	1.919733e-02	9.828660e-02
## 1661	-6.364591e-05	1.288820e-06	4.076022e-04	5.879913e-04	2.555548e-04
## 1662	-4.527395e-01	2.136694e+00	1.167488e+00	-1.366133e+00	-2.292409e+00
## 1663	-3.978627e-03	1.944297e-02	3.459620e-03	-1.478432e-03	-1.302801e-02
## 1665	-7.650916e-05	7.154821e-07	4.919336e-04	7.087445e-04	3.111607e-04
## 1668	-2.184494e-07	1.047509e-06	5.498566e-07	-7.022982e-07	-1.138030e-06
## 1669	-1.639551e-04	7.708987e-04	1.679309e-04	-3.492199e-06	-5.160520e-04
## 1670	-6.658032e-05	9.456393e-04	1.100745e-03	-1.075162e-03	3.031648e-03
## 1671	-5.364572e-05	1.112019e-06	3.435308e-04	4.955543e-04	2.153662e-04
## 1673	-1.639668e-01	1.193510e-02	1.040167e+00	1.497761e+00	6.451572e-01
## 1674	-1.953142e-01	9.390032e-01	4.896370e-01	-6.342674e-01	-1.022225e+00
## 1675	-4.740662e-02	5.241646e-01	1.189832e+00	-1.970068e-01	3.401110e+00
## 1677	-7.276806e-03	3.403852e-02	1.901239e-02	-2.116408e-02	-3.625769e-02
## 1679	-8.576310e-03	4.189729e-02	6.967484e-03	-3.295423e-03	-2.942634e-02
## 1680	6.505363e-03	-3.382018e-02	-2.940227e-03	6.534634e-03	2.544325e-02
## 1683	1.931931e-07	4.409059e-06	7.819290e-06	-6.715300e-06	3.057059e-05
## 1685	-4.229349e-01	1.967780e+00	4.566426e-01	3.203217e-02	-1.300608e+00
## 1687	2.322368e-02	-1.141697e-01	-1.804324e-02	1.034101e-02	8.078083e-02
## 1689	-1.906824e+00	9.120825e+00	1.772613e+00	-3.480680e-01	-6.244955e+00
## 1690	-1.488248e-04	3.033814e-06	9.531027e-04	1.374880e-03	5.975924e-04
## 1691	-6.734770e-02	1.514704e-01	7.146459e-01	4.478348e-01	1.269996e+00
## 1692	-4.585356e-02	2.099559e-01	6.883353e-01	1.808565e-01	1.576390e+00
## 1693	-1.505207e-03	7.182256e-03	3.817596e-03	-4.746526e-03	-7.773045e-03
## 1694	-7.239232e-03	1.447507e-04	4.636559e-02	6.687890e-02	2.906667e-02
## 1695	-5.921947e-01	2.558846e+00	8.652055e-01	4.334154e-01	-1.520382e+00
## 1696	-5.483712e-07	2.633488e-06	1.377085e-06	-1.773247e-06	-2.864422e-06
## 1697	-2.937805e-06	4.192971e-05	4.201569e-05	-3.650215e-05	1.400550e-04
## 1698	-8.487580e-07	-1.766507e-07	5.660434e-06	8.225174e-06	3.710086e-06
## 1699	8.191551e-05	-4.055419e-04	-6.029093e-05	4.211283e-05	2.895198e-04
## 1701	-4.103972e-02	1.902355e-01	4.512568e-02	4.510859e-03	-1.251197e-01
## 1704	-9.680995e-05	2.041032e-06	6.198959e-04	8.942161e-04	3.885845e-04
## 1705	-2.465694e-02	1.136938e-01	6.665411e-02	-6.680288e-02	-1.165743e-01
## 1706	-2.190046e-04	4.522211e-06	1.402619e-03	2.023141e-03	8.796768e-04
## 1707	-3.527708e-01	8.266404e-03	2.257911e+00	3.256839e+00	1.414698e+00

##	1708	-7.114398e-02	2.614698e-01	2.439466e-01	-2.092776e-02	-2.167102e-01
##	1710	-1.024184e-04	2.171825e-06	6.5557938e-04	9.459955e-04	4.110778e-04
##	1711	-4.036183e-02	1.884353e-01	4.283761e-02	1.781623e-03	-1.251073e-01
##	1713	-4.949672e-02	1.173675e-01	1.842234e-01	2.252837e-01	1.950149e-02
##	1716	9.982982e-02	-4.907537e-01	-7.758240e-02	4.441540e-02	3.472178e-01
##	1717	-8.757118e-01	4.642629e+00	2.844033e+00	-3.436071e+00	-2.236569e+00
##	1718	-4.325473e-02	8.945060e-01	1.673049e+00	-7.165440e-01	5.340403e+00
##	1719	-5.492960e-02	6.735491e-01	7.409691e-01	-5.101870e-01	2.325092e+00
##	1720	-2.066831e+00	9.463924e+00	2.406701e+00	4.579297e-01	-6.122675e+00
##	1722	-1.181965e-02	4.376414e-01	9.017377e-01	-3.987544e-01	2.961291e+00
##	1723	-5.707687e-05	8.417585e-07	3.660642e-04	5.279704e-04	2.301190e-04
##	1724	-5.443132e-02	1.187953e-01	5.490677e-01	3.603297e-01	9.438346e-01
##	1725	-2.062153e-04	4.334503e-06	1.320536e-03	1.904820e-03	8.279566e-04
##	1726	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
##	1727	-2.651899e-02	3.327690e-02	1.947422e-01	1.970493e-01	2.250191e-01
##	1728	-2.303050e-01	1.082093e-02	1.467833e+00	2.115485e+00	9.152737e-01
##	1729	-4.089365e-05	1.821627e-04	5.542447e-05	1.962641e-05	-1.081145e-04
##	1730	-1.364624e-01	6.560525e-01	3.421096e-01	-4.431207e-01	-7.141875e-01
##	1732	-2.136892e-04	4.700099e-06	1.368805e-03	1.973619e-03	8.593931e-04
##	1733	-3.305641e-08	-5.807131e-07	8.799330e-07	1.455338e-06	1.022578e-06
##	1735	-5.259667e-03	1.934028e-02	1.157905e-02	1.054837e-02	-8.314285e-03
##	1737	-1.150817e-04	2.437014e-06	7.368839e-04	1.062968e-03	4.619147e-04
##	1738	-2.807243e-03	5.986017e-05	1.797456e-02	2.592864e-02	1.126674e-02
##	1739	3.882331e-04	-2.714301e-03	6.246008e-04	1.766575e-03	2.584048e-03
##	1740	1.067581e-01	-5.248086e-01	-8.297095e-02	4.749050e-02	3.713093e-01
##	1741	-2.700948e-04	9.983365e-06	1.744968e-03	2.491823e-03	1.132633e-03
##	1743	1.360593e-02	3.641877e-01	6.011365e-01	-5.489625e-01	2.373222e+00
##	1745	-5.037754e-05	1.576297e-04	1.951295e-04	5.697465e-05	-1.002772e-04
##	1746	-5.799700e-02	-3.413567e-03	3.770721e-01	5.441703e-01	2.394358e-01
##	1748	3.451583e-05	-1.696748e-04	-2.682569e-05	1.535321e-05	1.200471e-04
##	1749	-3.443011e-02	7.466913e-01	1.626565e+00	-5.489737e-01	5.100385e+00
##	1750	-1.097035e-04	2.329667e-06	7.024366e-04	1.013278e-03	4.403113e-04
##	1751	-7.804695e-02	1.437837e-01	7.665406e-01	5.554006e-01	1.255723e+00
##	1752	-2.363466e-11	5.924258e-12	1.611304e-10	2.117700e-10	1.295772e-10

##	1753	-5.109481e-03	3.091584e-02	2.219739e-02	-2.536342e-02	7.281248e-03
##	1754	-7.103960e-01	1.951042e+00	2.324103e+00	2.731899e+00	-1.114204e-01
##	1755	-6.583590e-02	1.499203e-03	4.214328e-01	6.078940e-01	2.640839e-01
##	1756	-7.888746e-06	1.537986e-07	5.053026e-05	7.289234e-05	3.169035e-05
##	1758	-2.146136e-02	3.114128e-02	1.124502e-01	1.181759e-01	2.684257e-02
##	1759	1.070920e-04	-9.847960e-04	4.437071e-04	9.542581e-04	1.074329e-03
##	1760	-3.264445e-01	1.487081e+00	8.854449e-01	-8.453927e-01	-1.549475e+00
##	1761	-2.690895e-02	2.811306e-02	2.243356e-01	2.165675e-01	2.915399e-01
##	1762	-1.670217e+00	8.941466e+00	5.552531e+00	-6.673278e+00	-3.801159e+00
##	1763	-9.077358e-01	1.107512e+00	4.570588e+00	6.233565e+00	2.000979e+00
##	1764	3.601570e-04	9.649017e-03	1.592947e-02	-1.454110e-02	6.288077e-02
##	1765	-3.129901e-04	1.571098e-05	2.010038e-03	2.877409e-03	1.286494e-03
##	1767	-1.818668e-02	3.881407e-04	1.164475e-01	1.679776e-01	7.299084e-02
##	1770	-2.293819e-02	4.552840e-02	2.319285e-01	1.595608e-01	3.920967e-01
##	1771	-3.693999e-02	6.373512e-01	8.189600e-01	-5.646413e-01	2.717637e+00
##	1772	-3.136211e-07	1.504999e-06	7.884963e-07	-1.011197e-06	-1.636010e-06
##	1774	-4.338486e-04	2.844339e-02	4.011798e-02	-3.777094e-02	1.391433e-01
##	1775	-4.584844e-02	1.692814e-01	1.001356e-01	9.057962e-02	-7.354319e-02
##	1777	9.294022e-04	1.780883e-01	3.175733e-01	-2.222898e-01	1.141955e+00
##	1778	-1.950304e-01	9.023874e-01	2.163514e-01	2.471282e-02	-5.920638e-01
##	1779	-2.252772e+00	9.943750e+00	3.050359e+00	1.234122e+00	-6.104638e+00
##	1780	4.758671e-04	-3.339362e-03	7.796227e-04	2.189762e-03	3.185763e-03
##	1781	-3.604642e-02	1.724562e-01	3.347252e-02	-6.651522e-03	-1.180952e-01
##	1783	-1.585652e-04	3.369508e-06	1.015305e-03	1.464587e-03	6.364418e-04
##	1784	-6.078064e-05	1.132616e-06	3.894159e-04	5.617284e-04	2.443370e-04
##	1785	-2.332149e-05	2.541277e-05	2.638175e-04	2.046002e-04	4.414386e-04
##	1786	-5.002812e-01	2.335378e+00	1.311001e+00	-1.442603e+00	-2.483511e+00
##	1787	-2.859711e-04	1.021522e-02	1.378731e-02	-1.313545e-02	4.586880e-02
##	1788	-8.821903e-05	3.947092e-06	5.631772e-04	8.094343e-04	3.500735e-04
##	1789	-1.350505e-04	2.861645e-06	8.647454e-04	1.247409e-03	5.420652e-04
##	1791	-4.574140e-04	2.841233e-02	5.656800e-02	-2.875865e-02	1.910458e-01
##	1793	1.104150e-01	-5.427901e-01	-8.580795e-02	4.912607e-02	3.840352e-01
##	1796	1.110625e-01	-5.656372e-01	-6.370949e-02	8.830876e-02	4.163846e-01
##	1797	-9.033212e-05	1.898652e-06	5.784281e-04	8.343942e-04	3.626044e-04

## 1799	-5.851584e-06	4.119703e-05	2.299954e-05	-1.839039e-05	4.891072e-05
## 1800	-1.733698e-02	3.697443e-04	1.110072e-01	1.601300e-01	6.958103e-02
## 1801	-1.565511e-02	8.765303e-02	1.685201e-01	1.721860e-02	3.839643e-01
## 1802	1.798531e-04	5.630896e-02	1.051917e-01	-6.705781e-02	3.744038e-01
## 1803	-8.271599e-02	1.996199e-01	3.685719e-01	2.479426e-01	-5.028160e-02
## 1804	-5.602063e-01	2.469610e+00	7.621626e-01	3.131144e-01	-1.513246e+00
## 1805	1.002686e-05	-5.574909e-05	4.603004e-06	1.857148e-05	5.816831e-05
## 1806	-1.942115e-04	4.147908e-06	1.243514e-03	1.793790e-03	7.794485e-04
## 1807	-1.369498e-01	1.674895e-01	6.920975e-01	9.405795e-01	3.095473e-01
## 1809	-1.543014e-04	3.263277e-06	9.880252e-04	1.425237e-03	6.193610e-04
## 1810	-6.029308e-05	1.252082e-06	3.860927e-04	5.569542e-04	2.420408e-04
## 1813	-5.766902e-03	-5.968461e-04	3.775303e-02	5.468759e-02	2.424616e-02
## 1814	-1.145234e-04	2.405108e-06	7.333324e-04	1.057851e-03	4.597056e-04
## 1815	-7.591898e-02	1.391561e-01	7.238168e-01	5.355711e-01	1.161523e+00
## 1818	-9.526900e-04	4.526027e-03	9.214897e-04	-1.126384e-04	-3.071958e-03
## 1819	-3.829659e-04	2.709512e-03	2.259727e-03	-2.434191e-03	2.698440e-03
## 1820	-1.312589e-04	6.321262e-04	1.171607e-04	-3.241182e-05	-4.362676e-04
## 1821	1.277487e-02	-6.862771e-02	-3.229647e-03	1.721060e-02	5.335200e-02
## 1823	-6.191980e-01	2.975198e+00	5.601940e-01	-1.395640e-01	-2.048448e+00
## 1824	-8.133956e-04	3.826428e-03	8.303507e-04	-2.129470e-05	-2.564614e-03
## 1825	4.480614e-06	-5.321643e-05	3.236754e-05	6.368616e-05	6.332309e-05
## 1826	8.168591e-02	-4.015563e-01	-6.348618e-02	3.633566e-02	2.841059e-01
## 1828	-6.565725e-05	2.414510e-04	2.250011e-04	-1.967000e-05	-2.002632e-04
## 1829	-1.827760e-01	4.729641e-03	1.169345e+00	1.686535e+00	7.322908e-01
## 1830	-6.711338e-02	6.048585e-02	5.412904e-01	5.513136e-01	6.628751e-01
## 1832	5.316591e-05	-3.228672e-04	3.011360e-05	1.455129e-04	2.810391e-04
## 1834	-3.310366e-01	2.599244e-02	2.097840e+00	3.020116e+00	1.299623e+00
## 1835	1.159385e-04	3.107248e-03	5.130180e-03	-4.682193e-03	2.025000e-02
## 1838	-4.482075e-01	1.938736e+00	6.524791e-01	3.239761e-01	-1.153857e+00
## 1839	-2.760857e-02	2.356729e-01	5.305920e-01	-4.223155e-02	1.433771e+00
## 1840	-1.041650e-04	2.208460e-06	6.669783e-04	9.621293e-04	4.180894e-04
## 1841	-1.956863e-01	8.319855e-01	2.680808e+00	8.096705e-01	5.934611e+00
## 1842	-4.043163e-02	8.544660e-04	2.588894e-01	3.734553e-01	1.622821e-01
## 1843	-6.140526e-03	6.414214e-02	1.598793e-01	-1.779242e-02	4.500366e-01

##	1844	-9.652629e-03	-2.926757e-04	6.237801e-02	9.014095e-02	3.950337e-02
##	1846	-7.173712e-02	8.272311e-02	6.127460e-01	5.683217e-01	8.290232e-01
##	1847	-2.009167e+00	9.876716e+00	1.561592e+00	-8.936001e-01	-6.987844e+00
##	1848	-1.753984e-04	3.497951e-06	1.123852e-03	1.620655e-03	7.057038e-04
##	1850	-3.525042e-03	1.689570e-02	8.878904e-03	-1.131301e-02	-1.834971e-02
##	1852	8.085656e-05	-3.990465e-04	-6.099926e-05	3.907751e-05	2.837309e-04
##	1853	-3.812613e-02	5.633267e-01	1.036959e+00	-3.735371e-01	3.173609e+00
##	1856	1.736128e-04	7.263553e-03	1.261303e-02	-1.004284e-02	4.771616e-02
##	1858	-7.392918e-02	5.110609e-01	1.342332e+00	6.612153e-02	3.439399e+00
##	1859	-1.692551e-01	8.082598e-01	4.287686e-01	-5.353931e-01	-8.752407e-01
##	1861	-6.481154e-02	1.955271e-03	4.143245e-01	5.974873e-01	2.592410e-01
##	1862	6.034122e-06	-3.370497e-05	4.094821e-06	1.179173e-05	3.833406e-05
##	1863	3.667819e-02	-1.908270e-01	-1.641204e-02	3.712783e-02	1.436730e-01
##	1864	-6.413329e-05	1.348588e-06	4.106649e-04	5.923949e-04	2.574320e-04
##	1865	7.595368e-08	1.175483e-10	-4.887048e-07	-7.050726e-07	-3.085272e-07
##	1867	-2.800389e-03	1.368738e-02	2.267271e-03	-1.089533e-03	-9.618770e-03
##	1868	-5.911475e-02	4.604278e-01	1.243890e+00	1.230414e-02	3.291325e+00
##	1869	4.751649e-04	-2.948266e-03	3.349392e-04	1.422794e-03	2.590875e-03
##	1870	-2.252772e+00	9.943750e+00	3.050359e+00	1.234122e+00	-6.104638e+00
##	1872	-6.281590e-05	1.280901e-06	4.022832e-04	5.803075e-04	2.522269e-04
##	1873	-1.009586e-01	4.853553e-01	2.531105e-01	-3.278059e-01	-5.283555e-01
##	1875	2.985153e-04	8.005288e-03	1.320816e-02	-1.206389e-02	5.214434e-02
##	1876	-1.372651e-04	2.929887e-06	8.788961e-04	1.267821e-03	5.509074e-04
##	1877	7.069039e-04	-3.494704e-03	-5.268026e-04	3.533415e-04	2.488730e-03
##	1878	-1.305494e-01	2.916364e-03	8.360315e-01	1.205613e+00	5.245227e-01
##	1879	-1.025432e-04	2.159432e-06	6.566118e-04	9.471786e-04	4.116056e-04
##	1880	-2.144244e+00	1.085791e+01	2.207616e+00	-1.337591e+00	-5.501003e+00
##	1881	-2.701797e-04	5.757196e-06	1.729966e-03	2.495484e-03	1.084418e-03
##	1885	-3.935451e-02	8.401369e-04	2.519828e-01	3.634896e-01	1.579462e-01
##	1887	-6.956107e-02	9.868149e-04	4.459649e-01	6.434712e-01	2.799397e-01
##	1890	-1.091270e-03	4.949972e-03	1.325296e-03	3.347314e-04	-3.159128e-03
##	1891	-1.043320e-04	2.216523e-06	6.680409e-04	9.636620e-04	4.187493e-04
##	1892	-1.492904e-04	3.186881e-06	9.558930e-04	1.378890e-03	5.991712e-04
##	1894	4.880560e-02	-2.399213e-01	-3.793175e-02	2.170959e-02	1.697471e-01

##	1895	-1.322039e+00	6.016591e+00	1.581921e+00	3.660234e-01	-3.859763e+00
##	1896	-2.232785e-04	5.630196e-06	1.439826e-03	2.063564e-03	9.249631e-04
##	1897	9.089140e-05	2.442280e-03	4.033793e-03	-3.677996e-03	1.591730e-02
##	1899	-1.253137e-05	6.024371e-05	3.141737e-05	-4.068743e-05	-6.558068e-05
##	1900	-2.263630e-01	2.263726e-01	1.207025e+00	1.655860e+00	6.025246e-01
##	1901	-4.165351e-10	1.581920e-09	1.401541e-09	-2.475601e-10	-1.319891e-09
##	1902	5.808844e-02	-3.152950e-01	-1.096290e-02	8.466422e-02	2.475534e-01
##	1903	-2.515149e-02	5.169858e-02	2.573295e-01	1.728036e-01	4.408691e-01
##	1905	7.195339e-05	-3.550614e-04	-5.433991e-05	3.468284e-05	2.524063e-04
##	1906	3.428800e-05	-2.647840e-04	8.547829e-05	2.059979e-04	2.706460e-04
##	1907	3.724932e-03	-1.839680e-02	-2.796663e-03	1.826175e-03	1.308638e-02
##	1908	-5.775713e-02	5.357736e-01	1.287359e+00	-1.120111e-01	3.544799e+00
##	1909	2.810802e-05	-1.383148e-04	-2.160922e-05	1.279990e-05	9.817834e-05
##	1910	-1.362327e-04	2.900376e-06	8.722971e-04	1.258301e-03	5.467823e-04
##	1911	-1.659370e-06	4.814371e-05	5.874435e-05	-5.202908e-05	2.119023e-04
##	1913	-1.823581e-02	8.433237e-02	2.027891e-02	2.395823e-03	-5.529331e-02
##	1915	-7.874507e-05	1.664057e-06	5.042183e-04	7.273464e-04	3.160693e-04
##	1916	-1.328451e-01	2.424520e-01	1.240289e+00	9.318438e-01	1.959992e+00
##	1917	-2.092062e-02	4.196685e-01	9.257812e-01	-2.935764e-01	2.877009e+00
##	1918	-1.206206e-01	3.003338e-01	1.330431e+00	7.671705e-01	2.456313e+00
##	1919	-6.114266e-02	2.104733e-01	2.212397e-01	1.916180e-02	-1.587292e-01
##	1920	-5.025533e+00	2.319511e+01	5.641133e+00	7.506552e-01	-1.516805e+01
##	1921	-1.003134e-05	-1.050131e-05	7.654583e-05	1.138470e-04	5.666080e-05
##	1923	-7.292431e-02	1.603136e-01	2.850411e-01	3.584956e-01	4.909740e-02
##	1924	-1.016378e-01	1.258410e-01	8.819430e-01	7.944958e-01	1.225332e+00
##	1925	-3.471760e-06	-2.322306e-08	2.234337e-05	3.225929e-05	1.408848e-05
##	1927	-1.171472e-02	5.819769e-04	7.550036e-02	1.059022e-01	4.546238e-02
##	1929	3.219450e-04	-2.463571e-03	7.625208e-04	1.885711e-03	2.468611e-03
##	1930	-3.370508e-02	8.681065e-02	1.457437e-01	8.674864e-02	-3.106426e-02
##	1932	-6.857962e-02	5.150982e-01	1.315504e+00	1.177848e-02	3.444464e+00
##	1933	-1.712428e-04	3.641168e-06	1.096481e-03	1.581681e-03	6.873318e-04
##	1934	-9.621524e-03	4.376354e-04	6.142746e-02	8.824144e-02	3.815430e-02
##	1935	1.141389e-01	-5.763006e-01	-7.122639e-02	8.085613e-02	4.202585e-01
##	1937	9.751131e-03	-2.059428e-04	-6.243861e-02	-9.006882e-02	-3.914034e-02

## 1938	4.825681e+00	-1.459589e-01	-3.086346e+01	-4.445922e+01	-1.928440e+01
## 1939	-1.031393e-01	4.372936e-01	1.125372e+00	3.514684e-01	2.350484e+00
## 1940	-5.887234e-05	1.199374e-06	3.770308e-04	5.438786e-04	2.363977e-04
## 1943	-2.917670e-02	5.625451e-01	9.353957e-01	-4.671094e-01	3.017408e+00
## 1944	-2.463835e-04	5.269670e-06	1.577589e-03	2.275659e-03	9.889140e-04
## 1945	-1.420178e-03	1.612615e-03	7.399744e-03	1.002112e-02	3.615467e-03
## 1949	-1.994734e-01	8.801486e-01	2.880631e+00	8.116003e-01	6.498717e+00
## 1951	-6.770230e-05	1.430532e-06	4.335095e-04	6.253477e-04	2.717452e-04
## 1952	1.445919e-02	-7.142188e-02	-1.083877e-02	7.099858e-03	5.080789e-02
## 1954	-2.632464e-03	1.153606e-02	3.660722e-03	1.607622e-03	-7.005264e-03
## 1955	-5.015793e-02	3.317573e-01	9.458431e-01	7.929880e-02	2.404716e+00
## 1956	-3.935525e-02	2.281022e-01	6.811566e-01	9.957449e-02	1.671843e+00
## 1957	-2.324478e-04	1.575240e-04	1.821373e-03	1.981862e-03	2.070358e-03
## 1958	-5.591993e-01	2.748929e+00	4.346266e-01	-2.487136e-01	-1.944887e+00
## 1959	-7.805797e-02	3.757106e-01	6.987521e-02	-1.887587e-02	-2.592242e-01
## 1960	-3.523722e-02	5.646103e-01	9.706262e-01	-4.153244e-01	3.035129e+00
## 1962	4.604579e-05	-2.263543e-04	-3.578670e-05	2.048186e-05	1.601489e-04
## 1963	-2.816033e-02	4.392257e-01	9.283091e-01	-2.708726e-01	2.818319e+00
## 1965	-8.597341e-05	1.822086e-06	5.504960e-04	7.941020e-04	3.450730e-04
## 1966	-3.019033e-01	1.870402e-02	1.918965e+00	2.764218e+00	1.192902e+00
## 1968	6.091952e-06	-8.798499e-05	7.262406e-05	1.203691e-04	1.387410e-04
## 1970	2.302948e-04	-1.132094e-03	-1.789831e-04	1.024372e-04	8.009796e-04
## 1971	-1.097035e-04	2.329667e-06	7.024366e-04	1.013278e-03	4.403113e-04
## 1972	-2.209103e-01	3.085172e-01	1.065288e+00	1.439489e+00	4.216347e-01
## 1973	-4.303832e-02	2.930166e-02	3.292049e-01	3.645626e-01	3.618987e-01
## 1975	-2.738233e+00	9.346470e+00	6.857980e+00	6.920093e+00	-3.223946e+00
## 1978	-6.045043e-02	1.654136e-01	6.636753e-01	3.587829e-01	1.246062e+00
## 1979	-1.551225e-08	7.244864e-08	4.063059e-08	-4.481694e-08	-7.704324e-08
## 1982	1.073806e-07	2.928031e-06	4.825052e-06	-4.410878e-06	1.901345e-05
## 1984	-2.608870e-06	5.577417e-08	1.670440e-05	2.409616e-05	1.047081e-05
## 1986	-3.227588e-01	1.493674e+00	8.604603e-01	-9.041472e-01	-1.581471e+00
## 1987	2.323039e-03	5.909764e-01	1.099781e+00	-7.086107e-01	3.923115e+00
## 1988	4.516627e-04	-2.950100e-03	4.879020e-04	1.644434e-03	2.688223e-03
## 1989	-1.558679e-04	3.245016e-06	9.981631e-04	1.439821e-03	6.258575e-04

## 1990	-4.978178e-05	1.042826e-06	3.187725e-04	4.598388e-04	1.998312e-04
## 1991	-2.070874e-01	4.597504e-01	8.029929e-01	1.011633e+00	1.342146e-01
## 1994	-4.402484e+00	1.970946e+01	5.642899e+00	1.864138e+00	-1.235388e+01
## 1995	-3.813478e-05	7.013065e-07	2.443227e-04	3.524523e-04	1.532777e-04
## 1997	3.925019e-02	-2.026838e-01	-1.931536e-02	3.671561e-02	1.514141e-01
## 1998	1.915930e-02	5.128105e-01	8.465094e-01	-7.729676e-01	3.341901e+00
## 2002	-1.787104e-01	6.948993e-01	2.354082e+00	8.224515e-01	5.064006e+00
## 2004	1.009562e-07	-4.953233e-07	-7.709711e-08	4.366732e-08	3.563231e-07
## 2005	-4.047989e-02	6.369890e-01	8.635695e-01	-5.253160e-01	2.790333e+00
## 2006	-2.377992e-02	2.452435e-03	1.511594e-01	2.136604e-01	9.110517e-02
## 2007	-9.400260e-05	1.995058e-06	6.019041e-04	8.682588e-04	3.772947e-04
## 2008	-1.592949e-02	1.463814e-01	3.777743e-01	-2.247886e-02	1.036741e+00
## 2009	1.278842e-01	-6.339917e-01	-9.326385e-02	6.743045e-02	4.529446e-01
## 2010	-4.704875e-02	2.766067e-01	8.220130e-01	1.145786e-01	2.025568e+00
## 2011	-1.531947e-01	3.272340e-03	9.808872e-01	1.414947e+00	6.148312e-01
## 2013	4.593034e-02	-2.277209e-01	-3.347416e-02	2.425602e-02	1.627070e-01
## 2017	-1.683898e-05	-6.885304e-07	1.092672e-04	1.576683e-04	6.984496e-05
## 2018	-3.919024e-01	1.756057e+00	1.098640e+00	-9.605849e-01	-1.817139e+00
## 2019	-5.777145e-05	1.178306e-06	3.699782e-04	5.337054e-04	2.319733e-04
## 2020	-4.801724e-01	2.644777e+00	1.703274e+00	-2.022398e+00	-7.039455e-01
## 2021	-4.740662e-02	5.241646e-01	1.189832e+00	-1.970068e-01	3.401110e+00
## 2022	-1.471158e-02	6.966355e-03	8.879065e-02	1.185141e-01	4.618255e-02
## 2023	-4.485497e+00	2.159717e+01	4.006691e+00	-1.099431e+00	-1.490745e+01
## 2025	-6.097510e-10	1.797865e-09	2.463637e-09	9.831592e-10	-9.620240e-10
## 2026	-1.071252e-01	6.478965e-01	1.893745e+00	2.366325e-01	4.700008e+00
## 2027	-1.332629e-02	6.267608e-02	3.454120e-02	-3.964532e-02	-6.705694e-02
## 2028	6.158079e-06	1.326449e-03	2.537302e-03	-1.578210e-03	9.005242e-03
## 2029	-8.706358e-05	-3.231992e-04	9.312722e-04	1.447146e-03	8.474766e-04
## 2030	-8.900832e-02	3.589213e-01	2.468600e-01	-4.809614e-02	-2.936685e-01
## 2031	-3.189198e-02	7.704083e-02	1.420667e-01	9.536077e-02	-1.955614e-02
## 2032	2.127429e-05	5.689740e-04	9.391134e-04	-8.577781e-04	3.707843e-03
## 2033	-9.185411e-07	1.042495e-07	6.041133e-06	8.385609e-06	4.250246e-06
## 2034	-5.808162e-02	2.177138e-03	3.736499e-01	5.353674e-01	2.393207e-01
## 2035	-5.587267e-05	6.984335e-07	3.585714e-04	5.171028e-04	2.256883e-04

## 2036	-1.599015e-01	9.659503e-01	2.833357e+00	3.568976e-01	7.031629e+00
## 2037	6.865375e-07	-3.745909e-06	-8.386118e-08	1.045448e-06	3.018471e-06
## 2038	4.135590e-08	9.077926e-07	1.544157e-06	-1.412235e-06	6.137857e-06
## 2039	5.835031e-05	-2.884695e-04	-4.321725e-05	2.924535e-05	2.061410e-04
## 2041	7.640332e-05	-3.772689e-04	-5.736596e-05	3.733309e-05	2.685281e-04
## 2042	-4.408172e-02	7.215879e-01	1.067846e+00	-5.843983e-01	3.426076e+00
## 2043	-2.368549e-05	1.101212e-05	1.431039e-04	1.913632e-04	7.476231e-05
## 2044	-6.074918e-02	3.151373e-01	9.818826e-01	1.966963e-01	2.335105e+00
## 2046	-2.924892e-05	-2.070109e-05	2.416130e-04	3.203497e-04	2.304540e-04
## 2047	-3.444469e-02	1.655629e-01	8.637873e-02	-1.117646e-01	-1.802068e-01
## 2048	-6.545644e-03	3.206028e-02	5.222020e-03	-2.679859e-03	-2.258638e-02
## 2049	6.250116e-03	1.305454e+00	2.348152e+00	-1.594713e+00	8.463446e+00
## 2051	-4.712128e-06	-1.264351e-05	4.481918e-05	6.872981e-05	3.841760e-05
## 2053	-3.605160e-02	7.131057e-04	2.308996e-01	3.330948e-01	1.447766e-01
## 2054	-4.367259e-03	2.105513e-02	3.869993e-03	-1.124304e-03	-1.455554e-02
## 2055	-3.788591e-04	8.091404e-06	2.425791e-03	3.499245e-03	1.520514e-03
## 2056	-5.923189e-02	2.407147e-01	1.040434e-01	7.346407e-02	-1.287507e-01
## 2058	-1.599683e-04	4.424466e-04	6.679368e-04	3.304688e-04	-2.074368e-04
## 2061	-1.697032e-04	3.549691e-06	1.086709e-03	1.567581e-03	6.812913e-04
## 2064	-2.686632e-04	1.291669e-03	6.734932e-04	-8.725385e-04	-1.406172e-03
## 2065	-4.304800e-01	1.987583e+00	1.146199e+00	-1.184523e+00	-2.094880e+00
## 2066	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
## 2067	-6.268345e-08	-2.054744e-06	2.785643e-06	4.651455e-06	3.455337e-06
## 2068	-6.165810e-02	3.090596e-01	9.764224e-01	2.122350e-01	2.298769e+00
## 2069	-5.171639e-01	2.208624e+00	7.854959e-01	4.299658e-01	-1.287909e+00
## 2070	-5.541384e-05	1.086162e-06	3.549430e-04	5.120159e-04	2.226084e-04
## 2071	-1.359279e-04	2.900884e-06	8.703347e-04	1.255471e-03	5.455417e-04
## 2072	8.256794e-03	5.892925e-01	1.053564e+00	-7.644353e-01	3.872130e+00
## 2073	2.166755e-02	-1.229169e-01	2.012662e-03	4.208122e-02	1.004654e-01
## 2074	1.203053e-02	3.226160e-01	5.326954e-01	-4.860728e-01	2.102522e+00
## 2076	-3.651481e-02	7.487964e-04	2.338359e-01	3.373221e-01	1.465963e-01
## 2077	-4.707470e-02	4.584340e-01	5.161909e-01	-2.709021e-01	1.485798e+00
## 2078	-2.348794e-02	1.332431e-01	3.805425e-01	5.727010e-02	9.231774e-01
## 2081	-1.146185e-06	-5.713944e-07	8.036878e-06	1.176861e-05	5.547453e-06

##	2082	-1.551225e-08	7.244864e-08	4.063059e-08	-4.481694e-08	-7.704324e-08
##	2083	1.564855e-07	-8.750962e-07	1.177513e-09	2.792555e-07	7.093565e-07
##	2084	5.209000e-06	-2.627360e-05	-3.281900e-06	3.636172e-06	1.913779e-05
##	2085	-7.997156e-02	3.395901e-01	1.108894e+00	3.351709e-01	2.460579e+00
##	2090	-3.799024e+00	1.784419e+01	3.908080e+00	-4.565839e-02	-1.194071e+01
##	2091	-7.563359e-05	-5.892651e-04	1.166802e-03	1.868214e-03	1.217045e-03
##	2092	3.969688e-05	1.070387e-03	1.768786e-03	-1.610687e-03	6.976670e-03
##	2093	1.146470e-04	3.070676e-03	5.069030e-03	-4.627924e-03	2.001041e-02
##	2094	-1.168311e+00	6.185583e+00	3.783525e+00	-4.571950e+00	-3.023572e+00
##	2095	-9.930866e-02	2.933429e-01	1.180352e+00	5.775738e-01	2.323794e+00
##	2096	-7.209130e-03	3.378735e-02	1.878305e-02	-2.113918e-02	-3.604771e-02
##	2097	-3.323301e-02	1.351966e-01	1.006468e-01	-3.876653e-02	-1.231885e-01
##	2098	-4.593207e+00	2.085131e+01	5.556303e+00	1.375233e+00	-1.332996e+01
##	2100	1.554704e-05	4.205179e-04	6.944980e-04	-6.327116e-04	2.738837e-03
##	2101	-2.824208e-06	-3.684714e-06	2.282856e-05	3.361119e-05	1.825597e-05
##	2104	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
##	2105	-1.066909e-08	4.924461e-08	2.842470e-08	-2.929797e-08	-5.184766e-08
##	2107	1.752813e-06	-9.026992e-06	-8.905606e-07	1.591465e-06	6.724502e-06
##	2110	-3.507004e-02	-2.094110e-06	2.254127e-01	3.254019e-01	1.418997e-01
##	2112	-1.325770e-02	4.696533e-01	9.713279e-01	-4.226154e-01	3.180072e+00
##	2113	-1.061016e-04	2.253813e-06	6.793726e-04	9.800081e-04	4.258529e-04
##	2114	-8.409975e-02	4.082267e-01	2.159500e-01	-2.775308e-01	-4.189289e-01
##	2116	-5.171310e-02	2.444230e-01	5.144553e-02	-3.636373e-03	-1.648728e-01
##	2117	-2.117944e-06	4.529079e-08	1.356105e-05	1.956183e-05	8.500537e-06
##	2118	-4.609477e-06	-6.012312e-06	3.673868e-05	5.471523e-05	2.839499e-05
##	2119	-6.067781e-03	-6.615825e-04	3.976182e-02	5.760640e-02	2.556203e-02
##	2121	-1.443787e-02	6.937087e-02	3.622828e-02	-4.677782e-02	-7.548415e-02
##	2122	-8.297180e-05	1.759140e-06	5.312754e-04	7.663760e-04	3.330237e-04
##	2123	-1.673323e-01	8.959585e-03	1.077230e+00	1.538102e+00	6.957182e-01
##	2124	-2.343678e-01	1.111274e+00	6.001487e-01	-7.207082e-01	-1.196708e+00
##	2127	-3.538003e-02	7.226473e-04	2.265722e-01	3.268448e-01	1.420448e-01
##	2128	-4.996126e-02	6.219090e-04	3.204078e-01	4.623361e-01	2.011958e-01
##	2129	-1.209986e-04	2.567134e-06	7.747635e-04	1.117611e-03	4.856529e-04
##	2130	-4.673848e-01	2.178832e+00	4.997588e-01	2.700825e-02	-1.443795e+00

##	2132	-1.291340e-01	7.840725e-01	2.246027e+00	2.702419e-01	5.571230e+00
##	2137	-6.442230e-02	9.604961e-04	4.130373e-01	5.957092e-01	2.591029e-01
##	2139	7.483008e-04	-3.908386e-03	-3.171674e-04	7.870640e-04	2.954151e-03
##	2140	-1.078922e-04	2.291528e-06	6.908381e-04	9.965473e-04	4.330404e-04
##	2141	-1.398235e-04	2.970616e-06	8.952980e-04	1.291480e-03	5.612092e-04
##	2142	6.151882e-05	-3.398292e-04	-4.799113e-06	1.013664e-04	2.712603e-04
##	2145	-2.252772e+00	9.943750e+00	3.050359e+00	1.234122e+00	-6.104638e+00
##	2146	-1.078922e-04	2.291528e-06	6.908381e-04	9.965473e-04	4.330404e-04
##	2147	-3.147229e-02	2.873853e-01	6.196185e-01	-7.543169e-02	1.703645e+00
##	2149	6.378443e-05	-3.138210e-04	-4.916034e-05	2.892732e-05	2.225402e-04
##	2151	-2.337222e-06	-8.832812e-05	1.308509e-04	2.002404e-04	1.832266e-04
##	2154	-3.078014e-02	5.370551e-01	7.919773e-01	-4.510148e-01	2.569357e+00
##	2155	-4.681457e-04	9.998357e-06	2.997482e-03	4.323920e-03	1.878856e-03
##	2156	-7.307460e-04	3.561160e-03	6.037564e-04	-2.635460e-04	-2.493722e-03
##	2157	-1.111646e-01	2.553833e-02	7.554854e-01	9.998369e-01	6.003670e-01
##	2158	-1.296598e-01	6.030350e-01	3.416724e-01	-3.682044e-01	-6.394383e-01
##	2159	-8.794870e-02	1.122383e-01	7.715493e-01	6.841601e-01	1.088175e+00
##	2161	-1.863351e-04	3.915976e-06	1.193155e-03	1.721168e-03	7.479349e-04
##	2163	-4.958740e-03	1.866893e-02	1.041596e-02	9.083971e-03	-8.505767e-03
##	2164	-8.352307e-02	2.365802e-01	3.436822e-01	1.590182e-01	-1.184286e-01
##	2166	-9.666896e-03	4.731111e-04	6.171094e-02	8.853072e-02	3.824413e-02
##	2167	-1.865203e-03	3.983565e-05	1.194267e-02	1.722752e-02	7.485805e-03
##	2168	-1.537067e-02	4.570261e-01	7.242658e-01	-4.520031e-01	2.465939e+00
##	2169	-1.878339e-04	3.994802e-06	1.202698e-03	1.734918e-03	7.538784e-04
##	2170	1.159465e-07	-5.684718e-07	-8.797908e-08	4.963796e-08	4.113818e-07
##	2171	-3.319503e-06	-7.975437e-09	2.134676e-05	3.081629e-05	1.344784e-05
##	2172	4.379191e-02	-2.153090e-01	-3.399568e-02	1.954728e-02	1.523619e-01
##	2173	-1.213499e-02	1.636955e-03	7.661107e-02	1.084254e-01	4.600077e-02
##	2174	-1.438916e+00	4.980886e+00	3.526599e+00	3.493684e+00	-1.804674e+00
##	2176	-5.233514e-05	1.032144e-06	3.352121e-04	4.835556e-04	2.102212e-04
##	2177	-2.108859e-01	9.112446e-01	2.731715e+00	8.058415e-01	5.994294e+00
##	2179	-7.826326e-02	2.091480e-02	5.374585e-01	7.005154e-01	4.423124e-01
##	2180	-2.595864e-04	5.544091e-06	1.662102e-03	2.397610e-03	1.041824e-03
##	2182	-1.108099e-05	-1.452813e-04	2.451872e-04	3.920512e-04	2.860227e-04

##	2183	-7.534280e-05	9.443366e-07	4.837528e-04	6.973566e-04	3.049558e-04
##	2184	-2.304346e-02	9.130337e-02	4.319586e-02	3.322301e-02	-4.643390e-02
##	2185	-1.404088e-01	6.697912e-01	1.327328e-01	-2.199944e-02	-4.567516e-01
##	2186	2.130839e-05	-1.059315e-04	-1.466308e-05	1.196209e-05	7.737364e-05
##	2189	-3.634950e-01	1.233912e-02	2.323380e+00	3.348616e+00	1.455147e+00
##	2190	-2.090620e+00	8.385444e+00	4.809410e+00	9.136843e-01	-5.584506e+00
##	2191	-1.812037e+00	8.794258e+00	1.538725e+00	-5.816171e-01	-6.128647e+00
##	2192	-4.486679e-01	1.653140e-01	2.730732e+00	3.845924e+00	1.661993e+00
##	2194	-1.026624e-10	1.472906e-10	5.481197e-10	5.745313e-10	1.599706e-10
##	2195	-3.175796e-06	-3.606648e-08	2.045366e-05	2.953801e-05	1.290476e-05
##	2196	4.383938e-05	-4.816094e-04	2.735117e-04	5.463015e-04	5.644287e-04
##	2197	-3.743770e-02	1.480457e-04	2.404581e-01	3.470734e-01	1.512497e-01
##	2198	-1.877627e-02	-2.652902e-04	1.209881e-01	1.747406e-01	7.637653e-02
##	2199	-1.664749e-06	-1.411987e-04	1.811739e-04	2.799549e-04	2.141442e-04
##	2200	-1.025833e-04	2.179663e-06	6.568436e-04	9.475098e-04	4.117300e-04
##	2201	2.030985e-04	-9.984031e-04	-1.578483e-04	9.034177e-05	7.063820e-04
##	2203	-2.713474e-05	5.055364e-07	1.738338e-04	2.507723e-04	1.090378e-04
##	2207	-4.812574e-02	3.118888e-01	8.953120e-01	8.353050e-02	2.264278e+00
##	2209	-8.470285e-01	3.105257e+00	1.875775e+00	1.717303e+00	-1.323790e+00
##	2210	-2.919844e-02	6.235988e-04	1.869542e-01	2.696847e-01	1.171850e-01
##	2213	-1.053590e-02	7.262192e-04	6.705592e-02	9.599946e-02	4.131425e-02
##	2214	-3.843662e-04	-2.280775e-01	2.676180e-01	4.492763e-01	3.474510e-01
##	2215	-6.982334e-05	1.847959e-05	4.339034e-04	5.993566e-04	2.466176e-04
##	2216	-3.216949e-06	-1.304104e-07	2.082819e-05	3.010688e-05	1.321994e-05
##	2218	-2.713352e-02	4.425633e-01	5.695278e-01	-4.976411e-01	1.657605e+00
##	2219	-1.823581e-02	8.433237e-02	2.027891e-02	2.395823e-03	-5.529331e-02
##	2220	-1.052974e-01	4.251807e-01	3.299880e-01	-1.306165e-01	-3.945517e-01
##	2221	-1.836038e-04	3.870005e-06	1.175691e-03	1.695926e-03	7.370589e-04
##	2222	7.875625e-03	-6.973291e-02	2.953020e-02	6.485433e-02	7.486637e-02
##	2223	-4.253562e-02	5.596397e-04	2.727519e-01	3.935605e-01	1.712473e-01
##	2224	-9.660844e-03	4.464225e-02	1.078336e-02	1.338061e-03	-2.923923e-02
##	2225	-1.562622e-02	7.108410e-04	1.007512e-01	1.438864e-01	6.518921e-02
##	2226	-4.931312e-05	9.492412e-07	3.158881e-04	4.556809e-04	1.981331e-04
##	2227	1.230481e-05	-6.218638e-05	3.513065e-05	2.002756e-05	1.601249e-04

## 2229	-3.182472e-02	2.556842e-01	6.193656e-01	-1.993054e-02	1.648543e+00
## 2230	-1.943170e-04	4.011980e-06	1.244580e-03	1.795100e-03	7.807101e-04
## 2231	-4.103972e-02	1.902355e-01	4.512568e-02	4.510859e-03	-1.251197e-01
## 2234	-6.151690e-02	2.944801e-01	9.477298e-01	2.277883e-01	2.200396e+00
## 2235	4.008529e-04	-2.777176e-03	6.160422e-04	1.773923e-03	2.629995e-03
## 2236	5.549775e-04	-3.203657e-03	1.153269e-04	1.187359e-03	2.658395e-03
## 2237	-2.301089e-01	1.448251e+00	7.058503e-01	-4.898620e-01	1.118317e+00
## 2238	-7.489171e-01	3.621176e+00	6.514762e-01	-2.136773e-01	-2.512309e+00
## 2241	-6.261940e-02	1.058432e-01	2.816458e-01	3.718823e-01	9.357055e-02
## 2242	8.604422e-05	-4.364813e-04	-4.993066e-05	6.535744e-05	3.237671e-04
## 2245	1.913685e-06	-9.362882e-06	-1.412082e-06	7.971647e-07	6.928581e-06
## 2246	-1.724589e-04	3.659537e-06	1.104281e-03	1.592929e-03	6.922351e-04
## 2248	-2.054734e-02	2.422009e-01	4.862792e-01	-1.183559e-01	1.418335e+00
## 2249	-9.286905e-02	2.351394e-02	6.340551e-01	8.324284e-01	5.128188e-01
## 2250	-2.509017e+00	8.218177e+00	6.681682e+00	7.024768e+00	-2.424633e+00
## 2251	-9.801880e-03	9.032157e-05	6.304561e-02	9.048921e-02	3.934341e-02
## 2252	-6.261404e-01	1.449948e-02	4.010787e+00	5.781774e+00	2.519259e+00
## 2253	-1.894575e-02	8.819165e-02	2.040691e-02	1.349702e-03	-5.832576e-02
## 2254	-1.491469e-03	5.735695e-03	2.994130e-03	2.493781e-03	-2.743361e-03
## 2258	-3.332017e-01	1.575090e+00	8.571526e-01	-1.012083e+00	-1.692068e+00
## 2259	-1.345354e-02	8.759647e-02	1.796126e-01	3.671676e-03	4.430400e-01
## 2260	9.416728e-10	-4.092918e-07	4.658028e-07	8.012044e-07	6.264729e-07
## 2263	-1.388644e-02	6.671888e-02	3.484666e-02	-4.498470e-02	-7.259635e-02
## 2266	-5.034759e-02	2.483562e-01	5.315622e-01	1.085558e-01	1.154162e+00
## 2269	-1.998099e-01	1.736500e-02	1.264305e+00	1.819592e+00	7.818709e-01
## 2270	-1.083051e-06	-7.529017e-06	1.561500e-05	2.494114e-05	1.590589e-05
## 2271	1.404348e-08	4.515101e-08	1.510814e-07	-1.407788e-07	6.648483e-07
## 2272	5.946877e-03	1.298808e+00	2.338388e+00	-1.583956e+00	8.422661e+00
## 2273	-7.324195e-03	1.098927e-02	3.460889e-02	4.626549e-02	1.325685e-02
## 2275	-1.242789e-04	2.650173e-06	7.957503e-04	1.147883e-03	4.987929e-04
## 2276	-2.931797e-06	2.452685e-05	6.497115e-05	-1.331699e-06	1.747340e-04
## 2277	-5.222483e+00	2.424979e+01	5.694729e+00	4.919452e-01	-1.598558e+01
## 2278	1.199842e-06	-5.630324e-06	-5.311851e-07	1.944358e-07	5.675715e-06
## 2280	-8.428839e-02	7.594204e-01	9.612722e-01	-3.726022e-01	2.663827e+00

## 2281	-1.097035e-04	2.329667e-06	7.024366e-04	1.013278e-03	4.403113e-04
## 2284	-1.206802e+00	5.825192e+00	1.061230e+00	-3.246259e-01	-4.033087e+00
## 2285	-3.504947e-07	1.682123e-06	8.810529e-07	-1.130550e-06	-1.828723e-06
## 2286	1.177182e-06	3.513302e-05	5.885665e-05	-5.170230e-05	2.294802e-04
## 2287	-2.561578e-04	7.334831e-06	1.643982e-03	2.363862e-03	1.041325e-03
## 2288	-8.886785e-02	3.536756e-01	1.647133e-01	1.250164e-01	-1.816751e-01
## 2289	-5.576796e-06	9.524631e-07	3.968023e-05	5.118590e-05	3.440240e-05
## 2290	-7.528501e-02	2.936005e-01	1.464447e-01	1.178095e-01	-1.447246e-01
## 2293	-4.943348e-01	2.292195e+00	1.317454e+00	-1.403034e+00	-2.435523e+00
## 2294	-4.113262e-02	-6.258476e-04	2.657327e-01	3.830585e-01	1.691002e-01
## 2295	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
## 2298	-1.735109e+00	8.448706e+00	1.441444e+00	-6.119106e-01	-5.911021e+00
## 2301	-2.701562e-04	6.049774e-06	1.732168e-03	2.495410e-03	1.091128e-03
## 2303	-2.663621e-02	8.199390e-02	7.699749e-02	8.497457e-02	-1.762342e-02
## 2304	1.485531e-04	-7.302613e-04	-1.154495e-04	6.607355e-05	5.166945e-04
## 2306	-4.021159e-08	1.909771e-07	1.027247e-07	-1.244601e-07	-2.059001e-07
## 2307	-3.870098e+00	1.771472e+01	4.513728e+00	8.698822e-01	-1.145493e+01
## 2308	-3.322780e-02	-2.705246e-02	2.446633e-01	3.618132e-01	1.758489e-01
## 2310	-8.599588e-01	3.913865e+00	1.028789e+00	2.377032e-01	-2.510973e+00
## 2312	-2.696973e-02	2.258073e-04	1.730865e-01	2.497923e-01	1.087763e-01
## 2313	-1.949871e-04	4.104181e-06	1.248606e-03	1.801088e-03	7.828073e-04
## 2314	1.192980e-01	-5.864599e-01	-9.270914e-02	5.308199e-02	4.149339e-01
## 2315	-2.894681e-05	1.326643e-09	1.862387e-04	2.686309e-04	1.176226e-04
## 2316	-1.892985e-03	-1.303361e-03	1.366542e-02	2.014216e-02	9.654955e-03
## 2318	-1.881657e-04	3.963947e-06	1.204911e-03	1.738070e-03	7.553903e-04
## 2320	-1.026107e-04	1.916735e-06	6.575353e-04	9.483417e-04	4.128183e-04
## 2321	-2.603239e+00	1.185381e+01	3.107534e+00	7.079123e-01	-7.610181e+00
## 2322	-5.900812e-03	2.831951e-02	1.483319e-02	-1.903318e-02	-3.078763e-02
## 2323	-2.526893e-03	-2.607467e-03	1.923843e-02	2.860326e-02	1.421498e-02
## 2324	1.227242e-07	-7.345755e-07	5.551186e-08	3.142580e-07	6.277743e-07
## 2325	-5.474835e-02	2.117076e-01	7.482761e-01	2.612080e-01	1.622598e+00
## 2329	1.978717e-02	-1.176191e-01	8.009441e-03	4.904955e-02	9.996490e-02
## 2330	-1.744870e-04	3.681854e-06	1.117300e-03	1.611705e-03	7.004316e-04
## 2331	-3.828892e-05	7.587818e-07	2.452351e-04	3.537655e-04	1.537803e-04

## 2332	-3.854150e+00	1.818923e+01	3.865798e+00	-2.166612e-01	-1.224581e+01
## 2334	-7.378933e-02	2.151207e-01	8.760788e-01	4.336402e-01	1.719606e+00
## 2335	-2.176659e-03	1.611448e-02	1.380887e-02	-1.487044e-02	1.887560e-02
## 2336	3.101297e-05	-1.539239e-04	-2.206818e-05	1.679330e-05	1.110478e-04
## 2337	2.242001e+00	-5.252083e-02	-1.435161e+01	-2.069542e+01	-8.988956e+00
## 2338	-3.204754e-03	1.434064e-02	4.115465e-03	1.370264e-03	-8.982505e-03
## 2340	-4.866573e-01	2.269302e+00	1.277371e+00	-1.396959e+00	-2.411159e+00
## 2341	-9.486093e-05	2.003388e-06	6.074115e-04	8.762064e-04	3.807552e-04
## 2343	-8.036137e-03	3.193711e-02	1.114032e-01	3.731314e-02	2.437335e-01
## 2344	-3.158651e-01	1.259643e+00	5.824266e-01	4.392229e-01	-6.499054e-01
## 2345	-3.654359e-01	1.102180e-02	2.336150e+00	3.368903e+00	1.461727e+00
## 2346	-5.122888e-01	2.705947e+00	1.655452e+00	-1.992861e+00	-1.341326e+00
## 2348	-3.859421e-01	3.794444e-01	3.013140e+00	3.090843e+00	3.592932e+00
## 2352	-2.372967e-04	5.109300e-06	1.519749e-03	2.191766e-03	9.534178e-04
## 2353	-5.399269e-02	3.556712e-01	1.015550e+00	8.708127e-02	2.579263e+00
## 2354	-8.759067e-01	4.724769e-01	5.105292e+00	7.197550e+00	2.870770e+00
## 2355	-4.168213e-01	1.092318e-01	2.553541e+00	3.651427e+00	1.519311e+00
## 2356	-1.699490e-04	3.587991e-06	1.088236e-03	1.569784e-03	6.822031e-04
## 2357	-3.657907e-02	7.069725e-01	1.174458e+00	-5.879957e-01	3.790329e+00
## 2359	-9.153477e-03	1.771218e-04	5.865715e-02	8.452896e-02	3.673209e-02
## 2360	-2.806085e-06	1.348745e-05	7.037265e-06	-9.104102e-06	-1.468009e-05
## 2361	-2.156035e-02	4.224043e-01	5.765823e-01	-4.826986e-01	1.757989e+00
## 2362	-1.651901e-01	2.718788e-01	1.561288e+00	1.213250e+00	2.442037e+00
## 2363	-2.623849e-02	5.949805e-01	1.229731e+00	-4.643039e-01	3.901064e+00
## 2364	-1.117329e-05	1.991939e-07	7.158826e-05	1.032780e-04	4.490766e-05
## 2365	-1.583770e-01	4.678600e-03	1.012580e+00	1.460249e+00	6.336479e-01
## 2366	-8.254886e-05	1.728783e-06	5.285974e-04	7.625133e-04	3.313739e-04
## 2367	-1.546501e-02	8.227724e-03	9.278582e-02	1.218773e-01	4.657794e-02
## 2368	-8.453517e-06	9.885210e-08	5.422447e-05	7.824154e-05	3.406234e-05
## 2370	7.898326e-03	-5.098638e-02	7.837229e-03	2.756393e-02	4.608144e-02
## 2371	-7.209195e-05	1.412661e-06	4.617862e-04	6.661238e-04	2.896465e-04
## 2372	-3.618053e-02	2.030387e-01	5.590852e-01	8.461761e-02	1.345514e+00
## 2374	-1.071515e-01	5.514494e-03	6.823706e-01	9.832991e-01	4.251046e-01
## 2376	1.611581e-04	-7.922299e-04	-1.252522e-04	7.168597e-05	5.605119e-04

## 2377	-6.227816e-02	2.152360e-01	2.246509e-01	1.729525e-02	-1.633230e-01
## 2379	1.123888e-01	-6.279951e-01	-5.605347e-04	1.993439e-01	5.064622e-01
## 2380	-1.016204e-02	2.676289e-01	5.700156e-01	-2.167180e-01	1.821994e+00
## 2381	9.227214e-02	-4.535968e-01	-7.171367e-02	4.104483e-02	3.209252e-01
## 2382	2.125720e-07	-9.794608e-07	-7.215064e-08	1.023424e-08	1.093071e-06
## 2383	-6.401446e-02	2.374388e-01	8.558568e-01	3.171489e-01	1.829964e+00
## 2384	-1.200362e-02	1.111706e-03	7.629739e-02	1.083825e-01	4.636032e-02
## 2385	-4.611467e-02	4.129249e-01	9.941369e-01	-7.371407e-02	2.716018e+00
## 2387	-5.938326e-02	3.440172e-01	1.028559e+00	1.507310e-01	2.524437e+00
## 2388	-7.024553e-05	1.483447e-06	4.497955e-04	6.488405e-04	2.819552e-04
## 2389	-3.296397e-02	5.834842e-01	9.250343e-01	-4.762453e-01	2.971999e+00
## 2390	3.840947e-05	-1.935109e-04	-2.388739e-05	2.652524e-05	1.423064e-04
## 2392	-8.534036e-04	3.705044e-03	2.463349e-03	-1.733950e-03	-3.698021e-03
## 2394	-2.347834e-04	4.850965e-06	1.503783e-03	2.168928e-03	9.433518e-04
## 2396	-3.530389e-05	-5.130133e-05	3.160772e-04	4.371574e-04	3.027998e-04
## 2397	3.721192e-05	-1.829284e-04	-2.892110e-05	1.655249e-05	1.294241e-04
## 2400	-1.862970e-01	1.173475e-01	1.350453e+00	1.573852e+00	1.350590e+00
## 2402	-1.546164e-02	4.919231e-01	1.027487e+00	-4.280462e-01	3.337170e+00
## 2404	-2.109438e-04	4.498469e-06	1.350692e-03	1.948357e-03	8.467072e-04
## 2405	-6.427571e-07	1.376020e-08	4.115561e-06	5.936641e-06	2.579859e-06
## 2406	1.298323e-02	2.477989e-01	4.321163e-01	-3.954433e-01	1.726555e+00
## 2407	-6.979360e-02	7.847837e-04	4.476924e-01	6.460271e-01	2.811891e-01
## 2408	-3.849708e-02	8.117849e-02	3.812789e-01	2.576912e-01	6.440554e-01
## 2410	-4.502926e-05	9.302373e-07	2.883569e-04	4.159656e-04	1.807786e-04
## 2411	-6.089877e-01	2.830029e+00	6.614258e-01	5.283818e-02	-1.867561e+00
## 2413	-9.475611e-03	7.300961e-04	6.066781e-02	8.663763e-02	3.884816e-02
## 2414	-1.012407e-03	-3.942442e-04	6.961324e-03	1.017370e-02	4.702434e-03
## 2415	-1.535960e-04	5.764760e-04	3.254693e-04	2.851252e-04	-2.586236e-04
## 2416	5.327518e-05	-2.621524e-04	-4.106628e-05	2.422178e-05	1.858003e-04
## 2417	-3.889178e-05	7.124306e-07	2.491772e-04	3.594546e-04	1.563281e-04
## 2418	-2.430995e-04	1.157850e-03	2.318553e-04	-3.452592e-05	-7.881214e-04
## 2419	-3.590544e-03	-1.553406e-03	2.486344e-02	3.638747e-02	1.690528e-02
## 2420	1.128658e-05	-1.344842e-04	8.470603e-05	1.619998e-04	1.673863e-04
## 2422	-1.104418e-02	2.605015e-01	-2.284421e-01	-4.127889e-01	-3.540606e-01

## 2423	1.574155e-01	-8.202218e-01	-5.786293e-02	1.647781e-01	6.485954e-01
## 2424	-1.379459e-04	2.937724e-06	8.832653e-04	1.274123e-03	5.536567e-04
## 2426	-1.925900e+00	6.425032e+00	4.999487e+00	5.162628e+00	-2.026143e+00
## 2427	-5.130064e-02	9.800117e-02	5.117032e-01	3.613513e-01	8.520457e-01
## 2428	-3.988636e-02	1.055109e-01	1.702731e-01	9.528503e-02	-4.221262e-02
## 2430	-3.820274e-02	8.085347e-04	2.446161e-01	3.528654e-01	1.533342e-01
## 2433	-3.620987e-06	9.260252e-09	2.326448e-05	3.357946e-05	1.464067e-05
## 2434	-2.019469e-02	4.800399e-01	8.146330e-01	-4.296949e-01	2.681643e+00
## 2436	-1.922835e-02	2.457826e-01	4.957773e-01	-1.317396e-01	1.467093e+00
## 2437	-2.481565e-05	-3.952922e-06	1.733954e-04	2.405848e-04	1.316735e-04
## 2438	-1.151011e-01	5.533501e-01	2.885625e-01	-3.737393e-01	-6.023788e-01
## 2439	-2.347019e-03	2.825240e-02	6.828434e-02	-1.107431e-02	1.972836e-01
## 2441	3.154849e-04	1.247103e-02	2.155000e-02	-1.740271e-02	8.187158e-02
## 2443	-5.110886e-02	2.686775e-02	3.704936e-01	4.406621e-01	3.621919e-01
## 2444	2.767562e-03	7.461229e-02	1.232877e-01	-1.122799e-01	4.863016e-01
## 2445	-1.089434e-05	1.596856e-07	6.984293e-05	1.007685e-04	4.384541e-05
## 2448	-1.609524e-04	3.401496e-06	1.030619e-03	1.486676e-03	6.460700e-04
## 2449	-3.570764e-02	7.570849e-04	2.286383e-01	3.298164e-01	1.433178e-01
## 2450	-1.018793e-04	2.110251e-06	6.524052e-04	9.411165e-04	4.090064e-04
## 2451	-5.725617e-03	1.749908e-04	3.664073e-02	5.279007e-02	2.300870e-02
## 2452	-4.387985e-01	2.035362e+00	1.160477e+00	-1.231397e+00	-2.153172e+00
## 2453	-3.739941e-02	3.137803e-01	4.410099e-01	-1.227450e-01	1.184656e+00
## 2454	-2.161362e-02	2.291226e-01	3.972804e-01	-1.124025e-01	1.143648e+00
## 2456	-2.677600e-02	1.249143e-01	2.852590e-02	1.366828e-03	-8.285293e-02
## 2458	-2.707092e-01	1.256898e+00	7.172873e-01	-7.669803e-01	-1.333007e+00
## 2460	-5.788949e-05	1.393266e-06	3.705599e-04	5.342302e-04	2.320132e-04
## 2461	-7.132642e-02	8.322075e-01	1.887950e+00	-3.428394e-01	5.449199e+00
## 2462	-3.658944e-05	-2.930339e-03	3.603277e-03	6.135568e-03	4.633168e-03
## 2463	-1.045803e-02	4.910366e-02	2.717401e-02	-3.089750e-02	-5.246492e-02
## 2469	8.235690e-02	-2.052843e-01	-9.244105e-01	-5.277404e-01	-1.720674e+00
## 2470	-6.299389e-08	-5.006330e-07	9.803110e-07	1.574718e-06	1.021138e-06
## 2471	7.446691e-04	1.992007e-02	3.287965e-02	-3.002990e-02	1.298135e-01
## 2473	-5.281940e-02	1.815978e-01	6.790781e-01	2.782933e-01	1.414382e+00
## 2474	-2.245367e-08	1.057462e-07	5.809267e-08	-6.716462e-08	-1.132293e-07

## 2477	-3.864393e-01	1.849013e+00	3.585778e-01	-7.167791e-02	-1.266494e+00
## 2479	-9.074021e-05	1.935478e-06	5.810087e-04	8.381079e-04	3.641991e-04
## 2481	-3.326643e-06	-3.515883e-08	2.144465e-05	3.094187e-05	1.357428e-05
## 2482	1.269969e-05	-5.237210e-04	5.206474e-04	9.181458e-04	7.510618e-04
## 2483	-8.561215e-02	1.732085e-01	3.516090e-01	4.510527e-01	8.095432e-02
## 2485	-6.367706e-06	-2.411558e-05	7.567407e-05	1.086716e-04	8.162714e-05
## 2488	-5.006361e-03	1.366406e+00	2.305166e+00	-1.623003e+00	8.293599e+00
## 2490	-7.499266e-02	2.807191e-01	1.007801e+00	3.686547e-01	2.161751e+00
## 2491	-1.234876e-04	2.613049e-06	7.907141e-04	1.140615e-03	4.956682e-04
## 2492	4.408829e-05	-2.227875e-04	-2.675773e-05	3.173645e-05	1.640848e-04
## 2495	-4.344429e-02	1.941634e-01	6.431436e-01	1.768732e-01	1.461756e+00
## 2496	-4.705206e-01	2.224854e+00	1.209885e+00	-1.430850e+00	-2.390636e+00
## 2497	-1.238471e-02	4.484312e-01	9.257052e-01	-4.060525e-01	3.035345e+00
## 2498	3.266842e-06	-1.505552e-05	1.089930e-05	3.390372e-06	4.917584e-05
## 2499	5.138645e-03	5.958568e-01	9.820634e-01	-7.987196e-01	3.598061e+00
## 2500	-8.688596e-01	4.183446e+00	2.187160e+00	-2.830356e+00	-4.514659e+00
## 2501	-6.108051e-02	2.831560e-01	6.713465e-02	6.667064e-03	-1.862551e-01
## 2503	-1.088335e-04	2.258358e-06	6.969506e-04	1.005354e-03	4.369645e-04
## 2506	-4.112804e-02	3.435188e-01	8.231766e-01	-4.148800e-02	2.212354e+00
## 2508	-1.616911e-04	3.470258e-06	1.035270e-03	1.493389e-03	6.489067e-04
## 2509	-1.904670e-02	4.188124e-01	8.508109e-01	-3.264506e-01	2.698393e+00
## 2510	-1.381065e-02	5.442969e-03	8.483927e-02	1.130011e-01	4.476161e-02
## 2511	-2.736303e-02	9.697788e-01	1.374078e+00	-1.210858e+00	4.558305e+00
## 2513	-7.590506e-05	1.554555e-06	4.860877e-04	7.012113e-04	3.047393e-04
## 2514	1.898033e-04	5.074637e-03	8.375504e-03	-7.651010e-03	3.306975e-02
## 2515	-9.466334e-03	1.283871e-02	6.236753e-02	6.681561e-02	6.255284e-02
## 2516	-4.869082e-02	1.262651e-02	3.334598e-01	4.362169e-01	2.721077e-01
## 2517	6.961633e-11	1.861370e-09	3.072145e-09	-2.806350e-09	1.212995e-08
## 2518	-1.942517e-01	1.013628e+00	1.853515e+00	-7.051876e-02	3.384508e+00
## 2520	-3.645129e-02	7.679309e-04	2.334056e-01	3.366949e-01	1.463099e-01
## 2521	-3.990875e-02	-1.025744e-02	2.683017e-01	3.905830e-01	1.771774e-01
## 2522	-4.458920e-05	7.923749e-07	2.857216e-04	4.121646e-04	1.793026e-04
## 2523	1.096290e-01	-5.389210e-01	-8.520326e-02	4.876584e-02	3.812932e-01
## 2524	-2.015183e-02	3.938875e-01	8.279673e-01	-2.826483e-01	2.583002e+00

## 2525	-1.857355e-01	8.025871e-01	5.392716e-01	-3.676422e-01	-7.976165e-01
## 2526	1.885472e-02	5.041054e-01	8.320078e-01	-7.600377e-01	3.285090e+00
## 2528	-9.866505e-03	4.629463e-02	2.566268e-02	-2.906725e-02	-4.943620e-02
## 2529	-9.921879e-06	1.090260e-07	6.364965e-05	9.184538e-05	3.998541e-05
## 2531	-8.845164e-02	4.863577e-01	1.434144e+00	2.416859e-01	3.455274e+00
## 2532	2.404952e-05	-1.216720e-04	-1.379546e-05	1.776843e-05	9.143756e-05
## 2533	-4.882930e+00	2.324848e+01	4.663171e+00	-6.780599e-01	-1.582685e+01
## 2535	-3.614899e-02	7.055394e-04	2.315342e-01	3.340134e-01	1.451822e-01
## 2537	-8.181315e-12	3.414645e-11	1.165340e-10	3.611125e-11	2.591250e-10
## 2538	-7.460874e-02	3.532701e-01	1.914529e-01	-2.281431e-01	-3.800069e-01
## 2539	3.645587e-02	1.072391e+00	1.793192e+00	-1.583000e+00	7.002569e+00
## 2540	-1.030524e-02	2.839714e-04	6.599928e-02	9.507968e-02	4.150250e-02
## 2542	-1.744870e-04	3.681854e-06	1.117300e-03	1.611705e-03	7.004316e-04
## 2545	-2.883766e+00	1.303975e+01	3.547502e+00	9.650562e-01	-8.290305e+00
## 2546	-1.028944e-04	2.184876e-06	6.588374e-04	9.503860e-04	4.129812e-04
## 2547	-1.217891e-01	1.363582e+00	1.500052e+00	-1.446090e+00	3.672455e+00
## 2549	-5.876301e-04	1.255019e-05	3.762527e-03	5.427510e-03	2.358395e-03
## 2552	-4.087175e-01	1.886699e+00	4.584545e-01	6.048927e-02	-1.234032e+00
## 2553	-1.616435e-01	6.139166e-01	2.175871e+00	7.808357e-01	4.683133e+00
## 2554	-1.867265e-04	3.938460e-06	1.195702e-03	1.724769e-03	7.496384e-04
## 2555	-5.364282e-02	7.165188e-01	8.149891e-01	-5.717196e-01	2.609215e+00
## 2556	-1.016331e-06	-2.407415e-07	6.813059e-06	9.907277e-06	4.491313e-06
## 2558	-1.665565e-04	3.550096e-06	1.066459e-03	1.538378e-03	6.684929e-04
## 2559	-7.171802e-03	3.434339e-02	1.808995e-02	-2.293475e-02	-3.727235e-02
## 2560	-3.169016e-02	4.212004e-01	9.971714e-01	-1.956247e-01	2.928838e+00
## 2562	-4.406451e-02	5.512465e-01	9.968514e-01	-3.193187e-01	2.967598e+00
## 2564	3.326021e-04	8.959840e-03	1.479036e-02	-1.349266e-02	5.835502e-02
## 2567	-3.379472e-02	1.644728e-01	2.817027e-02	-1.175463e-02	-1.150018e-01
## 2569	-1.548486e-03	9.956877e-03	7.595943e-03	-8.497769e-03	5.354910e-03
## 2570	-1.950589e-03	8.484972e-03	2.784841e-03	1.315717e-03	-5.094414e-03
## 2571	-5.432199e-01	2.663653e+00	4.299351e-01	-2.283071e-01	-1.879020e+00
## 2572	-1.280826e-08	5.949336e-08	3.381642e-08	-3.615180e-08	-6.297476e-08
## 2573	-1.204446e-01	2.364868e-01	1.212301e+00	8.406442e-01	2.039920e+00
## 2574	-4.751230e-06	-2.070963e-06	3.318876e-05	4.825326e-05	2.312236e-05

## 2576	-8.097618e-05	1.739484e-06	5.184730e-04	7.478918e-04	3.249710e-04
## 2577	-2.275297e-02	2.617946e-02	1.161936e-01	1.593430e-01	5.210087e-02
## 2578	-4.451253e-06	1.468519e-05	5.605340e-05	2.416931e-05	1.150562e-04
## 2579	-2.288358e-05	2.969665e-07	1.467691e-04	2.117457e-04	9.220937e-05
## 2580	-1.209954e-02	6.556708e-04	7.822210e-02	1.112932e-01	5.120649e-02
## 2581	1.605015e-01	-7.968913e-01	-1.156745e-01	8.699787e-02	5.703030e-01
## 2582	-1.380441e-02	4.589887e-01	9.545879e-01	-4.052041e-01	3.110905e+00
## 2584	-4.346319e-07	-1.995341e-05	3.230362e-05	4.526738e-05	5.003177e-05
## 2585	-2.747516e-01	1.945441e-02	1.743586e+00	2.510806e+00	1.081894e+00
## 2588	1.176017e-01	-5.897562e-01	-7.801751e-02	7.534112e-02	4.268426e-01
## 2589	1.981552e-02	-9.751555e-02	-1.527962e-02	9.022568e-03	6.908005e-02
## 2591	3.461396e-05	-1.727926e-04	-2.342901e-05	2.072895e-05	1.256189e-04
## 2592	-9.655372e-03	3.843858e-02	1.788239e-02	1.355888e-02	-1.975599e-02
## 2593	7.426379e-03	-3.650701e-02	-5.771788e-03	3.303386e-03	2.582913e-02
## 2594	-3.336995e-01	1.439068e+00	4.907821e-01	2.498273e-01	-8.524313e-01
## 2596	1.349724e-01	-6.746085e-01	-9.213796e-02	8.200105e-02	4.864326e-01
## 2597	-9.428895e-03	2.013754e-04	6.037211e-02	8.708782e-02	3.784193e-02
## 2598	-3.260021e-02	-4.025080e-02	2.560131e-01	3.820036e-01	1.938157e-01
## 2601	-1.750342e-06	3.324343e-05	3.733260e-05	-3.223009e-05	1.295752e-04
## 2602	-1.589473e-05	2.779533e-07	1.018468e-04	1.469308e-04	6.389699e-05
## 2603	-3.095715e-02	1.514656e-01	2.488217e-02	-1.235551e-02	-1.065746e-01
## 2604	-3.564415e-02	7.241173e-04	2.282681e-01	3.292925e-01	1.431113e-01
## 2605	-1.267366e-01	2.400083e-01	1.240330e+00	8.898099e-01	2.037431e+00
## 2606	-6.142887e-03	2.515555e-02	8.658201e-02	2.767128e-02	1.913278e-01
## 2607	7.434482e-07	2.620289e-05	4.475231e-05	-3.731481e-05	1.716716e-04
## 2608	-2.678904e-04	5.710128e-06	1.715297e-03	2.474333e-03	1.075204e-03
## 2610	-5.029686e-02	9.869111e-02	2.098518e-01	2.714755e-01	5.246896e-02
## 2611	-2.400980e-06	-2.183089e-05	4.253763e-05	6.599924e-05	4.855777e-05
## 2612	-8.581070e-02	4.125260e-01	2.151385e-01	-2.786057e-01	-4.490688e-01
## 2613	-7.871970e-03	3.610145e-02	9.102063e-03	1.633239e-03	-2.340515e-02
## 2614	-2.572755e-03	2.351924e-02	6.078083e-02	-3.487494e-03	1.666237e-01
## 2615	1.080186e-06	-5.311168e-06	-7.903087e-07	4.029085e-07	3.719820e-06
## 2616	3.710765e-05	-1.974892e-04	-1.034600e-05	4.663479e-05	1.552846e-04
## 2617	-1.493033e-04	3.141927e-06	9.560406e-04	1.379102e-03	5.993269e-04

## 2619	-1.499249e-04	3.172170e-06	9.599981e-04	1.384809e-03	6.017871e-04
## 2620	-2.451230e-02	1.178087e-01	6.148121e-02	-7.950286e-02	-1.282179e-01
## 2621	-1.853421e-02	1.870769e-02	1.037718e-01	1.234184e-01	3.900423e-02
## 2622	1.529804e-04	5.595426e-03	8.976511e-03	-8.245007e-03	3.472027e-02
## 2624	5.050765e-04	-2.307026e-03	-1.165403e-04	5.364587e-06	2.776877e-03
## 2628	7.175953e-02	-3.527597e-01	-5.577130e-02	3.192037e-02	2.495818e-01
## 2629	-3.180329e-02	5.483968e-03	2.127745e-01	2.881824e-01	1.598302e-01
## 2630	1.480826e-02	-7.279846e-02	-1.150530e-02	6.593321e-03	5.150839e-02
## 2631	-1.331495e-02	1.526364e-01	2.951501e-01	-7.486512e-02	8.584933e-01
## 2634	5.129511e-02	-2.521602e-01	-3.986566e-02	2.281860e-02	1.784069e-01
## 2635	-6.434826e-02	1.154740e-03	4.122668e-01	5.947722e-01	2.585914e-01
## 2636	1.413813e-01	-6.950104e-01	-1.098816e-01	6.288917e-02	4.917280e-01
## 2637	-4.332621e-04	9.253306e-06	2.774126e-03	4.001725e-03	1.738854e-03
## 2638	-2.501322e-02	2.563330e-01	5.241364e-01	-9.804471e-02	1.483260e+00
## 2639	-1.041650e-04	2.208460e-06	6.669783e-04	9.621293e-04	4.180894e-04
## 2643	8.231418e-03	-4.191605e-02	-4.729021e-03	6.532661e-03	3.085086e-02
## 2644	-4.654271e-02	5.271161e-01	1.174342e+00	-2.126201e-01	3.375446e+00
## 2645	-6.987040e-02	3.019894e-01	1.015480e+00	2.965427e-01	2.283887e+00
## 2646	-2.683994e-02	1.314729e-01	2.139843e-02	-1.101251e-02	-9.263286e-02
## 2647	-3.341088e-06	5.534909e-04	1.066491e-03	-6.118325e-04	3.699992e-03
## 2648	-4.909956e-06	1.048741e-07	3.143790e-05	4.534967e-05	1.970569e-05
## 2649	-3.558295e-05	1.710709e-04	8.920329e-05	-1.155538e-04	-1.862329e-04
## 2650	-3.942807e-02	1.419595e-01	9.027408e-02	8.505000e-02	-5.769833e-02
## 2651	-3.538223e-02	7.554428e-04	2.265488e-01	3.268003e-01	1.420040e-01
## 2652	-8.656584e-05	4.183538e-04	7.560598e-05	-2.426538e-05	-2.899060e-04
## 2653	-3.778988e-02	1.052759e-01	1.569384e-01	7.654410e-02	-5.017590e-02
## 2654	-4.907777e-02	5.209548e-01	1.213976e+00	-1.725410e-01	3.438978e+00
## 2655	1.304649e-04	-6.413465e-04	-1.013974e-04	5.803309e-05	4.537601e-04
## 2656	-1.067134e-06	3.056186e-05	3.799041e-05	-3.273647e-05	1.362194e-04
## 2657	-1.818195e-04	2.624647e-04	8.829828e-04	1.172180e-03	3.771474e-04
## 2658	-4.247763e-02	9.060155e-04	2.719807e-01	3.923373e-01	1.704816e-01
## 2659	-4.492142e-03	7.316045e-04	2.820917e-02	4.028094e-02	1.753350e-02
## 2660	-7.834063e-03	1.679450e-02	3.111422e-02	3.948712e-02	6.166551e-03
## 2661	-1.497520e-02	7.143041e-02	1.415121e-02	-2.338299e-03	-4.873770e-02

## 2662	8.539005e-03	-7.407914e-02	3.026188e-02	6.729578e-02	7.883453e-02
## 2663	-8.958708e-02	3.417344e-01	2.970164e-01	-5.889171e-02	-2.969949e-01
## 2665	1.511483e-05	-7.430917e-05	-1.173942e-05	6.736835e-06	5.258021e-05
## 2667	-3.510893e+00	1.700185e+01	3.024288e+00	-1.052991e+00	-1.181730e+01
## 2670	-1.627512e-02	2.433348e-01	3.091661e-01	-2.678077e-01	8.765618e-01
## 2671	-1.115355e-04	2.368224e-06	7.141673e-04	1.030200e-03	4.476652e-04
## 2672	-8.533916e-02	6.765098e-02	6.674105e-01	7.108761e-01	7.720632e-01
## 2673	2.803214e-04	7.514029e-03	1.239883e-02	-1.132418e-02	4.894934e-02
## 2675	-1.627785e-02	1.076692e-02	9.574823e-02	1.231650e-01	4.519798e-02
## 2679	-6.395285e-03	2.051315e-03	4.134878e-02	5.598062e-02	2.975102e-02
## 2681	-2.891215e-01	2.477889e-02	1.829829e+00	2.633607e+00	1.131887e+00
## 2683	-8.986423e-05	1.884887e-06	5.754320e-04	8.300789e-04	3.607200e-04
## 2685	-7.810318e-01	3.657533e+00	8.161081e-01	1.238791e-02	-2.438004e+00
## 2687	-4.100478e-01	1.660022e-02	2.619076e+00	3.766911e+00	1.630568e+00
## 2688	-4.746476e-02	5.911709e-02	2.567039e-01	2.868982e-01	7.851817e-02
## 2690	3.853368e-05	-2.895318e-04	8.691410e-05	2.156294e-04	2.921006e-04
## 2692	-3.346955e-05	6.924243e-07	2.143291e-04	3.091785e-04	1.343657e-04
## 2695	-2.638816e-02	7.972868e-02	7.801031e-02	8.715445e-02	-1.515037e-02
## 2696	-3.057852e-01	1.478284e+00	7.827303e-01	-1.002124e+00	-1.543676e+00
## 2698	-1.438773e-06	-8.947932e-05	1.126395e-04	1.904822e-04	1.442473e-04
## 2700	-7.893978e-05	1.530373e-06	5.056863e-04	7.294344e-04	3.172312e-04
## 2703	-3.784223e-02	4.559537e-01	1.101924e+00	-1.790145e-01	3.184108e+00
## 2708	-1.435314e-04	3.058121e-06	9.190281e-04	1.325711e-03	5.760731e-04
## 2709	6.193413e-07	-2.949781e-07	-5.096162e-06	-5.554101e-06	-5.976562e-06
## 2710	-9.535739e-05	2.982107e-06	6.097928e-04	8.782806e-04	3.808813e-04
## 2713	2.706238e-02	5.763873e-01	9.854213e-01	-9.014057e-01	3.921256e+00
## 2714	-3.098259e-02	5.648468e-01	1.046840e+00	-4.273564e-01	3.297553e+00
## 2715	4.140065e-02	-2.035203e-01	-3.217585e-02	1.841707e-02	1.439935e-01
## 2716	-1.098351e-04	2.319597e-06	7.032953e-04	1.014520e-03	4.408625e-04
## 2717	-4.051538e-03	1.991212e-02	3.154239e-03	-1.792971e-03	-1.408415e-02
## 2719	-7.942657e-08	-6.521588e-07	1.261400e-06	2.027251e-06	1.323072e-06
## 2721	-4.593207e+00	2.085131e+01	5.556303e+00	1.375233e+00	-1.332996e+01
## 2722	1.311177e-05	-6.701224e-05	-5.033447e-06	1.148566e-05	5.549867e-05
## 2724	-5.601841e-02	6.036286e-01	9.963845e-01	-3.166086e-01	2.889697e+00

##	2725	-5.626915e-02	6.149567e-01	7.075148e-01	-6.276940e-01	1.732854e+00
##	2726	-1.370907e-04	2.926393e-06	8.777812e-04	1.266211e-03	5.502117e-04
##	2727	1.750465e-03	-8.686824e-03	-1.266454e-03	9.404144e-04	6.213349e-03
##	2728	-1.113605e-04	2.359189e-06	7.130547e-04	1.028595e-03	4.469754e-04
##	2729	-1.147226e-04	2.410665e-06	7.346139e-04	1.059691e-03	4.605234e-04
##	2730	-2.018158e-06	-7.057908e-06	2.108385e-05	3.268572e-05	1.896835e-05
##	2731	-2.334337e-04	4.893943e-06	1.494978e-03	2.156298e-03	9.376056e-04
##	2732	-8.082328e-11	5.445179e-11	4.771449e-10	6.103569e-10	2.306527e-10
##	2733	-2.984287e-02	1.414605e-01	2.922013e-02	-2.904638e-03	-9.576912e-02
##	2734	-6.998453e-02	1.169875e-03	4.484770e-01	6.470369e-01	2.813721e-01
##	2735	6.669460e-05	-3.293851e-04	-4.998164e-05	3.270874e-05	2.345726e-04
##	2736	-9.957924e-08	4.762306e-07	2.516920e-07	-3.168185e-07	-5.162870e-07
##	2737	-1.682310e-05	2.232182e-07	1.078859e-04	1.556554e-04	6.776161e-05
##	2741	-4.944496e-05	-5.279449e-05	3.845580e-04	5.648332e-04	2.972406e-04
##	2742	1.014053e-01	-5.052053e-01	-7.109802e-02	5.838211e-02	3.629627e-01
##	2743	-3.761776e-06	-2.366167e-08	2.420854e-05	3.495124e-05	1.526422e-05
##	2744	-1.731507e-05	9.921796e-05	2.991612e-04	4.557048e-05	7.323508e-04
##	2746	4.070912e-06	-1.953229e-05	4.720227e-06	3.129615e-06	3.617240e-05
##	2747	-1.391795e-04	2.493365e-06	8.926598e-04	1.286705e-03	5.619030e-04
##	2749	-9.582054e-03	-9.620555e-04	6.269378e-02	9.081011e-02	4.024235e-02
##	2750	-4.502926e-05	9.302373e-07	2.883569e-04	4.159656e-04	1.807786e-04
##	2751	-1.277423e-01	2.869151e-01	1.353243e+00	8.494714e-01	2.402154e+00
##	2752	-4.785250e-02	2.262627e-01	4.750532e-02	-3.536827e-03	-1.526964e-01
##	2754	-1.167323e-01	5.434004e-01	1.257111e-01	8.282376e-03	-3.594075e-01
##	2756	-5.171554e-06	-5.640627e-06	4.317307e-05	6.006867e-05	3.886151e-05
##	2757	-1.295674e-02	2.548838e-03	8.111412e-02	1.137416e-01	4.761010e-02
##	2758	2.250697e-03	6.098057e-02	1.008341e-01	-9.166289e-02	3.974956e-01
##	2760	-8.647753e-02	2.562180e-02	5.925799e-01	7.695007e-01	4.892023e-01
##	2761	-1.979543e-02	3.149278e-01	7.206953e-01	-1.823993e-01	2.174568e+00
##	2763	-3.172859e-03	8.869954e-04	2.028251e-02	2.792925e-02	1.393047e-02
##	2764	4.479352e-04	1.303042e-02	2.175712e-02	-1.928071e-02	8.506760e-02
##	2765	-1.392111e-01	3.587427e-01	1.555743e+00	8.706272e-01	2.908542e+00
##	2767	-1.273815e-01	5.150078e-01	2.268091e-01	1.632545e-01	-2.728168e-01
##	2768	-1.265607e-01	4.517727e-01	4.448133e-01	-2.313015e-03	-3.596606e-01

##	2769	-4.094926e-02	7.661267e-03	2.750663e-01	3.703522e-01	2.097081e-01
##	2770	9.257143e-05	-6.097994e-04	1.086181e-04	3.476882e-04	5.656320e-04
##	2771	6.372532e-02	-3.135838e-01	-4.915895e-02	2.897551e-02	2.221259e-01
##	2773	-2.368421e-02	1.143429e-01	3.253363e-01	7.545517e-02	7.420426e-01
##	2774	-6.071431e-05	1.308728e-04	6.650932e-04	4.188041e-04	1.192187e-03
##	2776	-1.554752e-04	3.246669e-06	9.956325e-04	1.436173e-03	6.242535e-04
##	2777	2.014300e-03	9.599619e-03	2.645456e-02	-2.411912e-02	1.131640e-01
##	2778	-1.590293e-04	3.257332e-06	1.018442e-03	1.469122e-03	6.385590e-04
##	2779	-3.615313e-02	1.816260e-03	2.333948e-01	3.326911e-01	1.518873e-01
##	2781	-4.664537e-06	-3.357856e-08	3.002384e-05	4.334753e-05	1.893602e-05
##	2782	-9.006259e-01	4.083119e+00	2.481165e+00	-2.323314e+00	-4.263765e+00
##	2784	-8.161106e-02	3.775791e-01	9.056415e-02	1.039552e-02	-2.477098e-01
##	2787	-1.046699e-02	-7.336494e-04	6.811971e-02	9.856943e-02	4.347486e-02
##	2788	-4.475297e-02	1.539212e-01	5.503742e-01	2.289790e-01	1.131061e+00
##	2790	2.335952e-07	-1.386338e-06	9.202509e-08	5.746960e-07	1.176756e-06
##	2791	-9.685663e-04	4.434349e-03	2.609059e-03	-2.566000e-03	-4.640064e-03
##	2792	-1.618992e-01	1.851674e-01	8.339388e-01	1.137591e+00	3.882900e-01
##	2793	-9.812378e-02	5.198028e-01	3.178519e-01	-3.845731e-01	-2.534907e-01
##	2794	-3.800429e-02	1.060815e-01	1.576582e-01	7.643706e-02	-5.086156e-02
##	2795	-3.986473e-06	-8.116815e-08	2.572176e-05	3.715062e-05	1.626919e-05
##	2798	-1.333721e-01	6.412247e-01	3.343403e-01	-4.331657e-01	-6.980728e-01
##	2799	-1.507725e+00	3.850129e+00	5.287753e+00	6.334908e+00	1.856182e-01
##	2800	-7.647359e-03	9.759190e-03	6.705974e-02	5.948215e-02	9.454267e-02
##	2802	-8.381995e-08	4.004872e-07	2.121655e-07	-2.656993e-07	-4.338537e-07
##	2807	1.655184e-08	-4.420231e-07	4.027747e-07	7.210212e-07	6.125591e-07
##	2811	-7.280584e-03	1.788896e-01	3.838968e-01	-1.404560e-01	1.219056e+00
##	2812	-6.174384e-02	3.131614e-01	9.845325e-01	2.082169e-01	2.325935e+00
##	2813	3.905358e-05	-2.753189e-04	6.632486e-05	1.824480e-04	2.657852e-04
##	2814	-7.364769e-02	3.540823e-01	1.846209e-01	-2.391903e-01	-3.854721e-01
##	2815	2.730959e-02	1.072007e+00	1.850660e+00	-1.497849e+00	7.035414e+00
##	2816	-1.425502e-01	5.988128e-01	4.278049e-01	-2.372913e-01	-5.789343e-01
##	2817	-1.880875e+00	9.435585e+00	1.850800e+00	-1.048305e+00	-5.195495e+00
##	2818	-1.140951e+00	5.243149e+00	1.306973e+00	2.156287e-01	-3.408655e+00
##	2820	-2.987304e-02	2.616338e-01	5.798036e-01	-5.523197e-02	1.577123e+00

## 2821	-2.685246e-04	1.175295e-05	1.741739e-03	2.476145e-03	1.147565e-03
## 2822	-3.032743e-04	1.475312e-03	2.536469e-04	-1.041426e-04	-1.030794e-03
## 2823	-6.425279e-06	3.088766e-05	1.611000e-05	-2.085812e-05	-3.362273e-05
## 2824	-2.221826e-05	4.405580e-07	1.423022e-04	2.052816e-04	8.922891e-05
## 2826	-1.971379e-04	3.975911e-06	1.262645e-03	1.821316e-03	7.918880e-04
## 2827	-1.142906e-04	2.236192e-06	7.321036e-04	1.056045e-03	4.592195e-04
## 2828	-8.114775e-01	2.428982e-01	5.012169e+00	6.906733e+00	2.821010e+00
## 2829	2.890743e-05	-1.423689e-04	-2.204966e-05	1.341165e-05	1.012513e-04
## 2831	-2.318885e-04	5.200511e-06	1.490396e-03	2.142887e-03	9.462618e-04
## 2832	-4.035090e+00	2.009777e+01	3.785689e+00	-2.057255e+00	-1.187153e+01
## 2833	-5.562294e+00	2.723455e+01	4.448166e+00	-2.258846e+00	-1.917915e+01
## 2834	-1.064202e-04	2.259058e-06	6.814144e-04	9.829538e-04	4.271344e-04
## 2835	-1.899964e-01	9.723178e-01	5.648456e-01	-6.975057e-01	-6.741953e-01
## 2837	1.853819e-02	4.958225e-01	8.183805e-01	-7.474871e-01	3.231141e+00
## 2838	4.341736e-05	-1.097282e-04	-1.894399e-04	-1.172275e-04	3.595947e-05
## 2839	-9.976148e-05	1.260801e-06	6.400326e-04	9.232175e-04	4.024470e-04
## 2840	1.044630e-03	2.796330e-02	4.616045e-02	-4.214846e-02	1.822326e-01
## 2843	6.548567e-08	-3.186600e-07	-4.627304e-08	2.493412e-08	2.453380e-07
## 2845	-3.570332e+00	1.755123e+01	2.774870e+00	-1.588139e+00	-1.241770e+01
## 2846	2.180139e-46	-4.656180e-48	-1.395918e-45	-2.013635e-45	-8.749771e-46
## 2847	-8.135248e-02	3.690763e-01	9.867812e-02	2.481524e-02	-2.357339e-01
## 2848	-4.663108e-05	9.299079e-07	2.986603e-04	4.308308e-04	1.872801e-04
## 2850	-1.070471e-06	1.412203e-07	7.077612e-06	9.749709e-06	5.084665e-06
## 2852	-1.875742e-02	2.274598e-02	1.019239e-01	1.149477e-01	3.209908e-02
## 2853	3.067733e-06	1.822599e-04	3.246684e-04	-2.400706e-04	1.202243e-03
## 2855	-6.770230e-05	1.430532e-06	4.335095e-04	6.253477e-04	2.717452e-04
## 2856	-6.725491e-02	6.355198e-01	7.362457e-01	-3.549227e-01	2.088927e+00
## 2857	-9.261371e-06	7.065101e-04	1.007547e-03	-9.411509e-04	3.516131e-03
## 2860	-2.798713e-06	-1.619961e-08	1.800858e-05	2.600033e-05	1.135249e-05
## 2861	3.889383e-05	-1.912657e-04	-3.012218e-05	1.744478e-05	1.354513e-04
## 2862	1.507122e-04	-1.760401e-03	1.054921e-03	2.083667e-03	2.085255e-03
## 2864	-5.907322e-04	1.261645e-05	3.782389e-03	5.456162e-03	2.370845e-03
## 2865	-3.320612e-05	6.260070e-07	2.127220e-04	3.068683e-04	1.334277e-04
## 2866	-6.506857e-05	8.936918e-07	4.175014e-04	6.020539e-04	2.627274e-04

## 2867	-5.275964e-02	1.648410e-01	6.470330e-01	2.971941e-01	1.302470e+00
## 2868	-1.078783e-06	-7.844633e-08	7.025024e-06	1.016495e-05	4.487768e-06
## 2869	-5.045252e-04	1.447135e-03	1.581577e-03	1.819442e-03	-1.679466e-04
## 2870	-3.919810e-02	1.695560e-01	1.224282e-01	4.589966e-02	7.536417e-02
## 2871	-2.684800e-04	5.719503e-06	1.719101e-03	2.479793e-03	1.077643e-03
## 2872	7.324675e-05	-9.784463e-04	6.538897e-04	1.255717e-03	1.201397e-03
## 2873	-9.148208e-02	1.621099e-01	8.881745e-01	6.589572e-01	1.433975e+00
## 2875	-1.328320e-02	-1.954103e-03	8.762289e-02	1.271135e-01	5.673594e-02
## 2877	-1.107546e-02	5.426999e-02	8.836952e-03	-4.624835e-03	-3.827320e-02
## 2878	-2.946490e-02	-9.463016e-03	2.002835e-01	2.921141e-01	1.337642e-01
## 2879	-5.972387e-01	1.477224e+00	2.141321e+00	2.619746e+00	1.568581e-01
## 2880	-1.076200e-02	-2.183797e-04	6.952439e-02	1.000968e-01	4.375697e-02
## 2881	-3.211270e-02	6.887788e-04	2.056107e-01	2.965954e-01	1.288765e-01
## 2883	-1.282236e-01	4.492560e-02	7.725408e-01	1.100872e+00	4.501213e-01
## 2884	-3.534782e-02	6.580870e-04	2.264460e-01	3.266754e-01	1.420313e-01
## 2885	-7.943014e-06	9.843621e-08	5.094293e-05	7.350544e-05	3.199528e-05
## 2887	-3.183801e-06	-3.920690e-09	2.046963e-05	2.954909e-05	1.289187e-05
## 2888	-5.209646e+00	2.352912e+01	6.440602e+00	1.798305e+00	-1.493434e+01
## 2889	-8.345869e-02	4.012174e-01	2.092430e-01	-2.709653e-01	-4.367571e-01
## 2890	-5.300651e-02	1.140271e-03	3.393854e-01	4.895663e-01	2.127247e-01
## 2891	-9.960039e-04	4.861346e-03	8.142586e-04	-3.740543e-04	-3.410520e-03
## 2892	-3.164442e-01	7.002535e-03	2.025880e+00	2.922283e+00	1.269658e+00
## 2893	-1.280826e-08	5.949336e-08	3.381642e-08	-3.615180e-08	-6.297476e-08
## 2894	-5.400288e-01	8.106402e-02	3.579967e+00	4.904665e+00	2.606044e+00
## 2895	-7.871825e-01	3.576040e+00	9.493073e-01	2.306466e-01	-2.288389e+00
## 2896	-4.518516e-05	9.295725e-07	2.893601e-04	4.174136e-04	1.814112e-04
## 2898	-1.387047e-02	6.799247e-02	1.100180e-02	-5.788543e-03	-4.794650e-02
## 2901	-6.266757e-02	2.692208e-01	8.584865e-01	2.546428e-01	1.904816e+00
## 2903	-7.881717e-02	1.284412e-01	6.860525e-01	5.651852e-01	1.004367e+00
## 2904	-1.080969e-02	6.548563e-02	9.454569e-02	-2.256943e-03	2.140788e-01
## 2905	-1.922057e-05	1.119171e-03	3.478889e-03	-7.875230e-04	1.088199e-02
## 2906	3.330301e-06	-3.437559e-05	1.840892e-05	3.717459e-05	3.995775e-05
## 2907	-4.926144e-08	2.344270e-07	1.254585e-07	-1.536964e-07	-2.531550e-07
## 2908	-1.044690e-03	8.313030e-03	7.484201e-03	-7.935970e-03	1.216329e-02

## 2909	-4.693087e-01	1.808048e+00	9.384606e-01	7.782971e-01	-8.680628e-01
## 2910	6.028435e-02	-3.474278e-01	1.185612e-02	1.278466e-01	2.878504e-01
## 2911	-1.112539e-01	3.616548e-01	1.355616e+00	6.008728e-01	2.744891e+00
## 2912	-7.530104e-02	1.520288e-01	7.662710e-01	5.208339e-01	1.304416e+00
## 2913	-1.289190e-04	2.733268e-06	8.254818e-04	1.190772e-03	5.174492e-04
## 2914	-1.532219e-02	1.285820e-01	3.402942e-01	-7.433715e-03	9.158113e-01
## 2916	-5.874853e-06	3.186111e-05	1.090634e-05	-5.884274e-06	1.342448e-06
## 2918	-8.301346e-01	2.769951e-01	5.104061e+00	6.991420e+00	2.830947e+00
## 2920	-1.305871e-02	4.824443e-02	2.848408e-02	2.574064e-02	-2.100057e-02
## 2921	6.250116e-03	1.305454e+00	2.348152e+00	-1.594713e+00	8.463446e+00
## 2922	-2.390533e-04	5.011421e-06	1.531018e-03	2.208223e-03	9.603150e-04
## 2923	-6.044175e-05	2.236839e-05	4.859752e-04	5.496852e-04	5.425468e-04
## 2924	-1.230666e-05	-4.557466e-07	7.973590e-05	1.151190e-04	5.079305e-05
## 2925	-5.571534e-07	2.675688e-06	1.399117e-06	-1.801710e-06	-2.910348e-06
## 2926	2.411667e-05	-1.240245e-04	-1.119230e-05	2.188741e-05	9.565871e-05
## 2927	-3.946238e-02	-3.690161e-03	2.578834e-01	3.734512e-01	1.653172e-01
## 2928	-4.275965e-02	3.449659e-01	5.251057e-01	-1.117124e-01	1.389145e+00
## 2929	-6.516254e-02	3.093211e-01	6.329747e-02	-7.211083e-03	-2.097875e-01
## 2930	-1.573059e-02	6.289659e-01	9.746866e-01	-6.689284e-01	3.406227e+00
## 2931	-2.048106e+00	9.704590e+00	2.009726e+00	-1.918369e-01	-6.566803e+00
## 2933	-1.027769e-03	4.884677e-03	2.622508e-03	-3.190284e-03	-5.269960e-03
## 2934	-4.268796e-01	1.972942e+00	4.760681e-01	5.842333e-02	-1.292536e+00
## 2935	-6.446388e-02	5.955502e-01	5.500996e-01	-3.593295e-01	1.561324e+00
## 2936	-1.982888e-04	4.234990e-06	1.269629e-03	1.831451e-03	7.958357e-04
## 2938	-1.988646e-02	1.375437e-01	2.614026e-01	-9.128653e-03	6.564941e-01
## 2939	5.413232e-04	1.449959e-02	2.392754e-02	-2.185703e-02	9.446164e-02
## 2940	-4.769605e-02	2.183622e-01	4.824211e-01	1.253838e-01	1.009815e+00
## 2941	-1.152607e-04	2.446578e-06	7.380211e-04	1.064609e-03	4.626189e-04
## 2943	-1.453799e-01	1.691625e-02	9.150249e-01	1.315463e+00	5.624605e-01
## 2945	2.534458e-02	6.776671e-01	1.118476e+00	-1.021700e+00	4.416141e+00
## 2946	-1.529656e-01	7.815869e-01	2.065531e+00	4.058128e-01	4.763950e+00
## 2947	-2.056472e-02	9.882887e-02	5.158597e-02	-6.668011e-02	-1.075549e-01
## 2948	-5.322843e+00	2.550847e+01	4.893065e+00	-1.066484e+00	-1.750604e+01
## 2950	-1.165834e-01	1.710342e-01	1.050137e+00	8.771336e-01	1.551226e+00

##	2954	-2.120617e-02	2.767982e-02	1.139842e-01	1.241649e-01	3.206862e-02
##	2955	-4.768065e-02	5.906983e-01	1.308507e+00	-2.740777e-01	3.821884e+00
##	2956	5.311932e-05	-2.617853e-04	-4.044557e-05	2.495282e-05	1.859793e-04
##	2957	-3.568782e-03	1.204594e-02	9.100167e-03	9.288719e-03	-3.977351e-03
##	2959	-2.895033e-02	3.769620e-01	7.559487e-01	-2.073260e-01	2.245333e+00
##	2961	-1.410028e-02	1.211630e-01	1.717713e-01	-4.957437e-02	4.659656e-01
##	2962	-6.799720e-02	1.461509e-01	6.954695e-01	4.564619e-01	1.201308e+00
##	2964	-2.887198e-02	4.747707e-01	7.561704e-01	-3.710977e-01	2.400430e+00
##	2965	4.613248e-04	-3.011394e-03	4.963898e-04	1.676057e-03	2.743322e-03
##	2966	3.912285e-07	-2.409870e-06	2.704858e-07	1.140677e-06	2.146550e-06
##	2967	-2.436223e-05	1.018730e-04	4.093881e-05	2.487182e-05	-5.357111e-05
##	2968	3.7119948e-03	-2.065651e-02	-1.673212e-04	6.342019e-03	1.656524e-02
##	2969	-1.690049e-05	-8.007604e-05	2.012096e-04	3.153445e-04	1.924117e-04
##	2970	-8.360887e-03	1.666459e-04	5.356161e-02	7.722060e-02	3.355721e-02
##	2974	-8.077823e-02	6.715027e-02	4.453660e-01	6.175827e-01	2.330943e-01
##	2976	-1.817601e-02	3.018643e-01	5.414620e-01	-2.210028e-01	1.692261e+00
##	2977	-3.357795e-02	4.179382e-01	8.798260e-01	-2.074712e-01	2.582195e+00
##	2979	-1.090324e-03	2.328634e-05	6.981216e-03	1.007053e-02	4.375906e-03
##	2980	-1.791945e-03	8.579038e-03	4.741931e-03	-6.136727e-03	-9.568009e-03
##	2981	-4.394964e-01	2.023109e-01	2.592300e+00	3.677712e+00	1.468592e+00
##	2982	-2.811195e-07	1.348678e-06	7.070657e-07	-9.054846e-07	-1.465795e-06
##	2985	-1.110469e-03	4.559173e-03	1.897289e-03	1.285694e-03	-2.484882e-03
##	2986	-6.754077e-05	1.342949e-06	4.325934e-04	6.240279e-04	2.712834e-04
##	2987	7.170041e-05	-3.524729e-04	-5.572027e-05	3.190186e-05	2.493838e-04
##	2988	-3.198621e-02	6.663899e-01	1.461815e+00	-4.776951e-01	4.562590e+00
##	2989	-2.451029e-02	1.184636e-01	2.137778e-02	-6.896293e-03	-8.214634e-02
##	2992	-8.080900e-05	2.327824e-06	5.169207e-04	7.448038e-04	3.231562e-04
##	2994	9.634613e-03	5.095880e-01	1.041352e+00	-6.432931e-01	3.735722e+00
##	2995	-1.485342e-02	3.172284e-04	9.510471e-02	1.371902e-01	5.961272e-02
##	2996	1.365534e-04	3.664475e-03	6.051306e-03	-5.520223e-03	2.388214e-02
##	2997	5.468008e-04	1.473948e-02	2.430720e-02	-2.220695e-02	9.591600e-02
##	2998	-3.829242e-04	1.261578e-03	1.014156e-03	1.058427e-03	-3.735626e-04
##		[,26]	[,27]	[,28]	[,29]	[,30]
##	3	-4.504064e-01	3.039592e+00	-4.395138e+00	1.773461e-01	2.259064e-01

## 4	-4.393488e-05	2.570493e-04	-3.735316e-04	1.467428e-05	2.674032e-05
## 6	-1.728259e-04	1.012567e-03	-1.453478e-03	5.850200e-05	1.046058e-04
## 7	-1.047605e+00	6.192846e+00	-8.995617e+00	3.541517e-01	6.300039e-01
## 8	-3.547319e-07	2.060753e-07	-4.039183e-07	-6.558435e-09	4.394696e-07
## 9	-2.427110e-04	1.420286e-03	-2.063871e-03	8.108405e-05	1.476904e-04
## 10	-1.136948e-05	6.568925e-05	-9.556285e-05	3.730651e-06	7.030240e-06
## 11	-2.987419e-04	1.748278e-03	-2.539914e-03	9.983467e-05	1.817558e-04
## 13	-1.662746e-01	-6.720115e-02	4.153694e-02	-1.365578e-02	2.252134e-01
## 15	1.888989e-02	3.375354e-02	1.777606e+00	7.283060e-02	-7.068608e-02
## 16	4.062011e-03	-2.914550e-03	2.669567e-01	1.003430e-02	-1.099943e-02
## 18	-9.388345e-02	5.493902e-01	-7.983331e-01	3.136584e-02	5.712644e-02
## 21	-3.242075e-06	9.882170e-06	-1.530304e-05	3.936365e-07	3.140354e-06
## 22	6.842069e-03	-4.105364e-02	-9.502363e-02	-3.130521e-02	2.454935e-02
## 23	-9.526066e-02	5.454396e-01	-2.617513e+00	-3.105476e-01	3.967215e-01
## 24	-2.914023e-06	1.646038e-05	-2.396436e-05	9.316571e-07	1.846204e-06
## 25	-1.030555e-04	1.071907e-03	4.354807e-03	2.907552e-04	-1.291458e-04
## 26	-4.452488e-05	2.603328e-04	-3.783360e-04	1.485565e-05	2.712393e-05
## 27	2.826468e-03	8.209958e-03	-1.059811e-02	7.017600e-04	-4.670538e-03
## 28	2.910471e+00	6.372371e+00	-7.997464e+00	5.847070e-01	-4.561706e+00
## 29	-2.240279e-02	1.309614e-01	-1.899534e-01	7.489216e-03	1.363969e-02
## 30	-5.178124e-04	-9.474618e-05	-3.104386e-05	-3.493451e-05	6.877299e-04
## 31	-3.627204e-02	2.153659e-01	-2.735851e-01	1.382392e-02	2.079528e-02
## 32	-1.146639e-01	6.650652e-01	-1.972856e+00	-1.504694e-01	2.565177e-01
## 35	-1.079446e-01	6.316906e-01	-9.179248e-01	3.606472e-02	6.568039e-02
## 36	-1.859351e-01	1.088058e+00	-1.585975e+00	6.120375e-02	1.140430e-01
## 38	-8.554871e-06	4.092908e-05	-5.996775e-05	2.250521e-06	6.294487e-06
## 39	1.614107e-02	2.213508e-01	3.657901e+00	1.671506e-01	-1.389826e-01
## 40	4.279755e+00	3.499889e+00	-3.545975e+00	4.692548e-01	-6.007863e+00
## 41	1.199491e-02	-6.607699e-02	-7.908288e-02	-4.728319e-02	3.627430e-02
## 44	-6.848258e-04	1.952845e-03	-2.948796e-03	9.205453e-05	6.617485e-04
## 45	-5.521346e-05	3.230598e-04	-4.694524e-04	1.844309e-05	3.360190e-05
## 47	-2.555844e-03	1.495677e-02	-2.173404e-02	8.539178e-04	1.555139e-03
## 49	-1.994149e-02	1.138172e-01	-1.655196e-01	6.471907e-03	1.247651e-02
## 50	-3.689427e-02	2.378920e-01	-6.579540e-02	2.444738e-02	1.339115e-02

## 52	-6.571965e-02	3.866958e-01	-6.067266e-01	1.368590e-02	4.804370e-02
## 53	2.221140e-08	-9.615570e-09	1.530162e-06	5.831655e-08	-6.272600e-08
## 55	-8.789321e-05	5.142496e-04	-7.472891e-04	2.935593e-05	5.349463e-05
## 56	-6.955629e-02	4.222023e-01	-2.475939e+00	-3.246240e-01	3.850461e-01
## 57	-1.037586e-01	5.954911e-01	-8.662669e-01	3.382892e-02	6.458676e-02
## 58	-8.553262e-07	4.340554e-06	-6.349071e-06	2.404429e-07	6.007891e-07
## 59	3.377191e+00	2.816016e+00	-2.874031e+00	3.739000e-01	-4.747321e+00
## 60	-8.212312e-02	4.941001e-01	-2.297785e+00	-2.675986e-01	3.406109e-01
## 63	-3.391627e-02	2.437685e-01	2.171790e-01	3.610250e-02	2.097846e-03
## 65	-5.305536e-05	2.912207e-05	-5.764887e-05	-1.021871e-06	6.586056e-05
## 66	-1.030013e-04	4.398193e-04	-6.485047e-04	2.345936e-05	8.221386e-05
## 67	1.285172e-02	-7.849593e-02	-3.873697e-01	-9.836723e-02	8.525927e-02
## 69	6.308013e+00	4.194869e+00	-3.878087e+00	6.275327e-01	-8.740196e+00
## 71	6.114300e-01	1.828410e+00	-2.365332e+00	1.554080e-01	-1.016707e+00
## 76	-8.086467e-05	4.730563e-04	-6.874464e-04	2.700110e-05	4.922783e-05
## 77	-4.721592e-04	2.762937e-03	-4.015010e-03	1.577202e-04	2.873285e-04
## 78	-1.146794e-01	6.668959e-01	-1.594727e+00	-7.906747e-02	1.859254e-01
## 79	-6.483559e-02	3.644040e-01	-2.809616e+00	-4.061069e-01	4.627007e-01
## 80	-1.201944e-04	7.028592e-04	-1.021654e-03	4.006976e-05	7.324819e-05
## 81	-2.012350e-04	1.177485e-03	-1.711228e-03	6.718886e-05	1.224956e-04
## 82	-9.794266e-03	-3.047646e-03	1.172358e-03	-7.437877e-04	1.315741e-02
## 83	5.111881e-04	5.669776e-04	-6.325984e-04	6.583447e-05	-7.352367e-04
## 87	5.396408e+00	6.082748e+00	-6.807343e+00	7.027812e-01	-7.774508e+00
## 90	-3.002433e-04	1.756992e-03	-2.553136e-03	1.003093e-04	1.826917e-04
## 93	-3.093043e-04	1.810018e-03	-2.630189e-03	1.033366e-04	1.882050e-04
## 94	-1.201485e-03	7.031076e-03	-1.021703e-02	4.014209e-04	7.310600e-04
## 95	-1.291817e-05	7.544543e-05	-1.096459e-04	4.304775e-06	7.879446e-06
## 96	-3.549473e-02	2.384918e-01	4.211267e-02	2.870620e-02	8.990579e-03
## 97	1.223589e-02	1.735163e-02	-2.041574e-02	1.830267e-03	-1.805243e-02
## 98	-4.283027e-02	-1.717588e-02	1.051148e-02	-3.508622e-03	5.799616e-02
## 99	6.324589e-03	2.383359e-02	-3.136499e-02	1.932420e-03	-1.110104e-02
## 100	-7.015956e-05	1.948039e-04	-3.070238e-04	6.780176e-06	7.069481e-05
## 102	-1.322932e+00	7.752517e+00	-1.508292e+01	-2.721906e-01	1.509683e+00
## 103	1.338184e-03	-7.602292e-03	-1.224703e-02	-5.572773e-03	4.311951e-03

## 104	8.110556e-09	4.221734e-10	6.025645e-07	2.344082e-08	-2.451090e-08
## 105	7.422534e-05	-4.353232e-04	-1.011812e-03	-3.327466e-04	2.590043e-04
## 106	1.794824e+00	1.099675e+00	-9.720537e-01	1.723067e-01	-2.475660e+00
## 107	4.360539e-02	1.762357e-02	-1.089320e-02	3.581225e-03	-5.906206e-02
## 108	8.123240e-01	1.254268e+00	-1.498523e+00	1.283182e-01	-1.210679e+00
## 109	6.368811e+00	4.556336e+00	-4.364658e+00	6.549390e-01	-8.862717e+00
## 110	-8.347989e-02	6.484681e-02	-7.949258e-01	-1.272150e-01	2.266541e-01
## 111	1.573192e-01	-6.703950e-01	-2.335987e+00	-6.582289e-01	4.890124e-01
## 112	-1.861065e-04	1.087793e-03	-1.581733e-03	6.191187e-05	1.135724e-04
## 113	-1.548610e-01	-6.257621e-02	3.866886e-02	-1.271760e-02	2.097526e-01
## 115	1.987148e-01	7.873437e-01	-1.038953e+00	6.335111e-02	-3.534526e-01
## 118	2.320003e-02	-2.557241e-02	-1.484527e+00	-2.864517e-01	2.552170e-01
## 119	-9.788933e-02	5.728329e-01	-8.323982e-01	3.270424e-02	5.956383e-02
## 120	-9.155570e-04	-3.342174e-04	1.786072e-04	-7.281012e-05	1.235821e-03
## 121	1.529483e-02	-9.106372e-02	-2.032761e-01	-6.933947e-02	5.433580e-02
## 122	1.913839e-02	-1.460006e-01	-6.822324e+00	-1.325440e+00	1.292811e+00
## 124	-2.480099e-04	1.451263e-03	-2.108877e-03	8.285386e-05	1.509169e-04
## 125	-7.233937e-01	5.349746e+00	-7.715676e+00	3.155134e-01	3.074852e-01
## 126	-2.269857e-04	1.328294e-03	-1.930182e-03	7.583441e-05	1.381163e-04
## 127	-1.121461e-01	6.562756e-01	-9.536500e-01	3.746832e-02	6.823712e-02
## 128	-2.799427e-01	1.163620e+01	-1.637358e+01	7.579495e-01	-1.021103e+00
## 130	-7.258914e-02	2.444717e-02	-5.712093e-02	-2.383209e-03	9.190613e-02
## 131	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 133	-8.051046e-07	1.931608e-07	-5.412947e-07	-3.478070e-08	1.031774e-06
## 134	-5.800433e-06	3.285331e-05	-2.141402e-04	-2.928018e-05	3.441750e-05
## 135	-1.515686e-04	1.020490e-03	2.087436e-04	1.239373e-04	3.740663e-05
## 136	4.096896e-02	4.033254e-01	-5.514579e-01	2.908458e-02	-1.015983e-01
## 137	3.564146e-03	4.338330e-02	6.672801e-01	3.087202e-02	-2.660580e-02
## 138	-5.258489e-04	2.906379e-03	-4.234454e-03	1.639621e-04	3.406891e-04
## 141	-1.365862e-04	7.992637e-04	-1.161437e-03	4.563051e-05	8.311319e-05
## 143	-9.218229e-06	5.384433e-05	-7.825059e-05	3.072649e-06	5.621455e-06
## 144	-1.190508e-01	1.658801e-02	-6.079157e-02	-5.472568e-03	1.535349e-01
## 146	-1.687678e-04	9.875954e-04	-1.435105e-03	5.638292e-05	1.026938e-04
## 147	-1.140357e-01	4.456027e+00	-6.273453e+00	2.896670e-01	-3.818947e-01

## 148	-8.451556e-05	3.908886e-05	-8.330897e-05	-2.430506e-06	1.060975e-04
## 149	6.013582e+00	2.430679e+00	-1.502590e+00	4.938988e-01	-8.145226e+00
## 150	7.253990e-02	-3.462070e-01	-2.553493e+00	-5.921269e-01	5.124960e-01
## 151	-8.281560e-05	-3.302098e-05	2.002287e-05	-6.778335e-06	1.121241e-04
## 153	-9.126626e-05	5.340370e-04	-7.760247e-04	3.048895e-05	5.553842e-05
## 154	-2.045372e-05	3.800654e-06	-1.187459e-05	-8.956873e-07	2.628344e-05
## 155	-1.534639e-05	-2.980414e-06	-6.744146e-07	-1.046005e-06	2.040198e-05
## 157	-7.632779e-01	4.577049e+00	-6.645086e+00	2.623528e-01	4.512712e-01
## 158	1.630967e+00	6.591823e-01	-4.074510e-01	1.339488e-01	-2.209092e+00
## 159	-2.044922e+00	1.201730e+01	-1.685414e+01	7.097386e-01	1.224257e+00
## 162	-3.046976e-01	1.786039e+00	-2.595177e+00	1.019970e-01	1.850455e-01
## 163	-5.850026e-04	1.850327e-03	-2.773748e-03	9.076571e-05	5.435591e-04
## 164	-7.094736e-04	4.144078e-03	-6.129046e-03	2.165310e-04	4.523559e-04
## 165	7.390848e-03	2.194810e-02	7.894054e-01	3.314169e-02	-3.115611e-02
## 166	-6.897843e-03	4.036610e-02	-5.865697e-02	2.304592e-03	4.197092e-03
## 167	8.736696e-02	4.549231e-01	-6.089778e-01	3.508561e-02	-1.683646e-01
## 168	-1.050734e-01	6.415542e-01	-5.963457e-01	4.967034e-02	5.302981e-02
## 169	4.970803e-03	-3.597541e-03	3.263383e-01	1.226239e-02	-1.344768e-02
## 171	5.070238e-02	-1.189206e-01	-1.308391e+00	-2.842446e-01	2.236099e-01
## 172	-3.058086e-02	1.740354e-01	-2.531607e-01	9.889625e-03	1.919442e-02
## 174	7.189019e-03	6.854536e-03	-7.322349e-03	8.529584e-04	-1.020799e-02
## 175	-6.309744e-05	-1.267985e-05	-2.909026e-06	-4.466047e-06	8.406983e-05
## 176	1.410415e-01	-1.187518e-01	9.021265e+00	3.283078e-01	-3.642907e-01
## 177	1.485739e-01	-8.936797e-01	-2.734798e+00	-8.107462e-01	6.629790e-01
## 178	-2.452894e-02	2.640673e-01	-3.775211e-01	1.615771e-02	6.087549e-04
## 179	-1.092269e+00	6.394528e+00	-9.261453e+00	3.662677e-01	6.635947e-01
## 180	2.907702e-01	3.987752e-01	-4.661709e-01	4.259235e-02	-4.273762e-01
## 182	4.937735e-01	2.874545e-01	-2.463292e-01	4.639961e-02	-6.792798e-01
## 183	-2.788680e-02	9.517986e-04	-1.013504e-02	-1.477102e-03	3.631430e-02
## 185	-1.447889e-05	-5.849764e-06	3.585900e-06	-1.194282e-06	1.961617e-05
## 186	8.587988e-03	-5.152979e-02	-1.193195e-01	-3.930264e-02	3.082277e-02
## 188	-1.303312e-04	1.857462e-03	-2.649110e-03	1.146874e-04	-4.956930e-05
## 189	-1.070065e-02	-2.643609e-03	3.209042e-04	-7.669723e-04	1.429321e-02
## 190	-2.529841e-02	1.480892e-01	-2.143154e-01	8.488504e-03	1.536794e-02

## 192	-1.161928e-01	-6.900803e-03	-2.702428e-02	-6.877447e-03	1.526025e-01
## 194	1.071851e-05	-6.275208e-05	9.083695e-05	-3.596223e-06	-6.510522e-06
## 195	-4.284468e-02	2.507266e-01	-3.643368e-01	1.431458e-02	2.606943e-02
## 196	-2.907679e-04	1.701436e-03	-2.472425e-03	9.713395e-05	1.769415e-04
## 197	1.000141e-09	3.388129e-09	1.114544e-07	4.707501e-09	-4.381440e-09
## 199	8.268113e-04	3.601975e-03	-4.779028e-03	2.852754e-04	-1.509512e-03
## 200	1.977251e-02	-1.186388e-01	-2.746308e-01	-9.047234e-02	7.094891e-02
## 201	-8.695367e-04	3.321989e-03	-4.922636e-03	1.729706e-04	7.397430e-04
## 203	4.410418e-03	2.046175e-03	-1.470859e-03	3.797284e-04	-6.005174e-03
## 204	-5.648914e-06	3.287465e-05	-4.778509e-05	1.874364e-06	3.459742e-06
## 208	-1.657648e-01	9.698985e-01	-1.432582e+00	5.103011e-02	1.051685e-01
## 209	-2.970948e-02	1.730522e-01	-2.465292e-01	1.006280e-02	1.805840e-02
## 210	-1.091445e-04	4.235588e-04	-6.270898e-04	2.215107e-05	9.206612e-05
## 211	2.431017e-02	1.943565e-03	1.816349e+00	7.074256e-02	-7.381678e-02
## 212	-1.808668e-05	4.823321e-05	-7.319654e-05	2.209953e-06	1.787467e-05
## 214	4.923201e-03	1.412483e-02	-1.821260e-02	1.211030e-03	-8.114677e-03
## 215	-4.464568e-03	7.366375e-03	-1.171590e-02	2.434916e-04	4.953552e-03
## 219	2.283212e-07	-1.620898e-07	1.502465e-05	5.649604e-07	-6.189708e-07
## 220	-1.564289e-04	9.153304e-04	-1.330463e-03	5.218843e-05	9.526026e-05
## 222	4.173037e-01	5.820261e-01	-6.826293e-01	6.177359e-02	-6.145147e-01
## 223	5.127587e-06	-8.132241e-06	-3.333114e-05	-8.932262e-06	2.838215e-06
## 224	-1.227172e-01	4.057157e-02	-9.550632e-02	-4.079431e-03	1.554644e-01
## 226	-6.697661e-04	2.482901e-03	-3.686135e-03	1.280676e-04	5.789542e-04
## 228	-1.549022e-02	1.191396e-01	-3.153721e+00	-5.513000e-01	5.574520e-01
## 230	9.818537e-02	-5.970579e-01	-2.566483e+00	-6.771737e-01	5.778247e-01
## 231	-1.196884e-01	6.960311e-01	-1.678042e+00	-8.507660e-02	1.965698e-01
## 232	-1.037195e+00	6.116002e+00	-8.884820e+00	3.496127e-01	6.255709e-01
## 233	2.196243e-02	2.418459e-01	4.314927e+00	1.949879e-01	-1.648229e-01
## 235	-1.694878e-02	-4.369382e-03	7.631619e-04	-1.226928e-03	2.266076e-02
## 237	-1.320860e-05	-5.337352e-06	3.264983e-06	-1.090951e-06	1.789664e-05
## 238	-5.549711e-04	2.398882e-03	-3.532069e-03	1.288693e-04	4.389693e-04
## 239	1.167389e-06	-8.624738e-07	7.644421e-05	2.870201e-06	-3.150982e-06
## 242	-3.005881e-07	-1.655028e-07	-1.886763e-08	-5.673949e-08	4.411473e-07
## 244	-2.801238e-04	1.639260e-03	-2.382054e-03	9.358823e-05	1.704485e-04

## 246	-1.149315e-05	1.272279e-05	-4.044566e-05	-3.348934e-06	1.701234e-05
## 247	1.941019e-01	-1.164643e+00	-2.695278e+00	-8.880111e-01	6.963558e-01
## 248	-1.011218e-01	5.875033e-01	-1.500208e+00	-8.750368e-02	1.815370e-01
## 249	4.079242e-02	2.138616e-01	5.391096e+00	2.335958e-01	-2.098928e-01
## 250	-1.143987e-03	-6.334634e-05	-2.724988e-04	-6.740688e-05	1.501914e-03
## 252	-9.772134e-01	5.742225e+00	-8.342897e+00	3.280590e-01	5.917877e-01
## 253	9.706689e-02	1.340354e-01	8.649582e+00	3.510520e-01	-3.461405e-01
## 254	1.012678e-08	-9.466963e-10	7.359399e-07	2.846424e-08	-3.000268e-08
## 255	9.053714e-01	6.148873e-01	-5.745342e-01	9.092017e-02	-1.255983e+00
## 256	7.879184e-02	-3.309201e-01	-2.556962e+00	-5.877785e-01	4.995576e-01
## 258	-3.162766e-02	2.734387e-01	7.160139e-01	5.883900e-02	-1.689085e-02
## 259	1.878118e-08	-7.064484e-09	1.305734e-06	4.989323e-08	-5.347532e-08
## 260	3.979053e-01	2.138615e-01	-1.736219e-01	3.620790e-02	-5.452744e-01
## 261	-1.010209e-01	7.732435e-01	-1.116204e+00	4.541431e-02	4.020190e-02
## 266	2.866108e-02	-1.677243e-01	2.437242e-01	-9.575781e-03	-1.743923e-02
## 267	-7.521673e-03	4.312577e-02	-2.038957e-01	-2.405264e-02	3.086660e-02
## 268	-6.434855e-11	3.762643e-10	-6.128897e-10	8.833248e-12	5.170449e-11
## 269	5.925829e-04	-2.945685e-04	4.040030e-02	1.535187e-03	-1.658049e-03
## 270	2.557542e-07	-1.491949e-06	2.170102e-06	-8.478608e-08	-1.565242e-07
## 271	4.453222e-03	7.545856e-03	-9.152430e-03	7.479881e-04	-6.716880e-03
## 273	-1.517741e-04	8.879216e-04	-1.290365e-03	5.067411e-05	9.239661e-05
## 274	-7.463811e-05	4.366459e-04	-6.345283e-04	2.492406e-05	4.543450e-05
## 275	1.121390e+00	6.652111e-01	-5.767553e-01	1.062005e-01	-1.544164e+00
## 276	-3.800200e-04	2.223831e-03	-3.231637e-03	1.269386e-04	2.312578e-04
## 277	-2.181236e-03	-8.815646e-04	5.448950e-04	-1.791403e-04	2.954412e-03
## 278	-9.300471e-05	5.425164e-04	-7.884399e-04	3.095663e-05	5.679864e-05
## 279	-2.848514e-04	1.666925e-03	-2.422255e-03	9.516761e-05	1.733253e-04
## 280	-3.043065e-04	1.780772e-03	-2.587691e-03	1.016670e-04	1.851638e-04
## 281	-1.200498e-01	-4.851910e-02	2.998964e-02	-9.859435e-03	1.626034e-01
## 283	-5.165221e-05	3.021530e-04	-4.390841e-04	1.724728e-05	3.144447e-05
## 284	-8.220250e-07	2.126252e-04	2.308820e-03	1.137804e-04	-8.447229e-05
## 286	-3.760495e-02	2.247799e-01	-2.670425e-01	1.514650e-02	2.094903e-02
## 287	9.102838e-05	7.739605e-04	-1.055308e-03	5.630883e-05	-2.109879e-04
## 288	-2.571150e-04	1.504837e-03	-2.184153e-03	8.601414e-05	1.563621e-04

## 289	-5.481167e-05	3.205728e-04	-4.658667e-04	1.829591e-05	3.337746e-05
## 292	-4.761775e-05	2.141323e-04	-4.018167e-04	-4.706325e-06	5.278748e-05
## 295	-1.834045e-04	-7.412452e-05	4.581618e-05	-1.506267e-05	2.484154e-04
## 296	-1.642129e-04	1.036480e-03	-5.468595e-04	9.641578e-05	6.885638e-05
## 297	-2.332932e-04	1.302799e-03	-2.191165e-03	1.861733e-05	2.038817e-04
## 298	-3.199310e-03	1.872232e-02	-2.720586e-02	1.068902e-03	1.946664e-03
## 299	-1.662923e-02	6.535118e-02	-6.649757e+00	-1.223559e+00	1.225653e+00
## 300	-3.244577e-04	1.898619e-03	-2.758953e-03	1.083922e-04	1.974366e-04
## 301	-3.409059e-02	1.989516e-01	-2.717034e-01	1.201991e-02	2.040558e-02
## 302	7.021448e-01	3.053344e-01	-2.055646e-01	5.909988e-02	-9.536023e-01
## 303	-1.817027e-05	1.062482e-04	-1.543998e-04	6.064516e-06	1.106662e-05
## 305	2.537878e-01	-5.836395e-01	1.059886e+01	8.555461e-02	-2.028814e-01
## 306	3.295935e-02	1.870085e-02	-1.576152e-02	3.064775e-03	-4.528383e-02
## 308	-4.185222e-04	2.449096e-03	-3.558902e-03	1.398134e-04	2.546768e-04
## 310	-8.295533e-03	4.222788e-02	-1.021385e+00	-1.773390e-01	1.832556e-01
## 311	7.527531e-02	-4.611001e-01	-2.465314e+00	-6.133816e-01	5.362148e-01
## 312	-8.918080e-05	5.215994e-04	-7.580313e-04	2.976406e-05	5.430978e-05
## 314	7.207033e-03	1.078645e-02	-1.281730e-02	1.115702e-03	-1.070053e-02
## 315	-1.698085e-05	6.695420e-05	-1.004904e-04	3.245283e-06	1.446573e-05
## 316	-1.482373e-04	5.768740e-04	-8.633118e-04	2.843837e-05	1.265819e-04
## 317	-9.379730e-05	5.488582e-04	-7.975661e-04	3.133433e-05	5.707820e-05
## 318	4.877845e-08	-2.897955e-08	3.272794e-06	1.237798e-07	-1.345430e-07
## 320	2.419466e-01	-1.425966e+00	-5.440281e+00	-1.488015e+00	1.242998e+00
## 321	-9.393380e-05	5.482449e-04	-7.967485e-04	3.128640e-05	5.732923e-05
## 322	2.007998e-01	2.713228e-01	-3.162429e-01	2.914307e-02	-2.946525e-01
## 323	-1.790722e-04	9.673993e-04	-1.453511e-03	4.634183e-05	1.265895e-04
## 324	5.262398e-02	2.126845e-02	-1.314605e-02	4.321898e-03	-7.127744e-02
## 325	2.441196e-02	-9.003932e-02	-1.214365e+00	-2.570497e-01	2.281154e-01
## 328	-1.571600e-01	-6.351753e-02	3.926018e-02	-1.290722e-02	2.128680e-01
## 329	1.052529e+00	6.702770e-01	-6.138919e-01	1.011777e-01	-1.453280e+00
## 330	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 332	-7.733773e-02	4.370243e-01	-2.989913e+00	-4.159604e-01	4.841929e-01
## 334	-3.668657e-01	5.235888e+00	-7.439727e+00	3.280571e-01	-1.450470e-01
## 335	9.547893e-03	3.205081e-02	-4.183290e-02	2.659409e-03	-1.629361e-02

## 336	2.370421e-01	2.422605e+00	-3.263598e+00	1.762035e-01	-5.996722e-01
## 338	8.672020e-02	-2.710732e-01	-2.113058e+00	-4.850327e-01	3.849618e-01
## 340	-1.735887e-04	1.017743e-03	-1.452040e-03	5.914552e-05	1.047788e-04
## 341	2.369675e-01	-9.376671e-01	4.016770e+00	-4.361799e-01	2.709344e-01
## 342	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 344	8.680333e-02	3.807892e-02	-2.587746e-02	7.328296e-03	-1.179295e-01
## 345	-5.202550e-04	3.044340e-03	-4.424022e-03	1.737677e-04	3.166172e-04
## 346	-2.092071e-04	1.212502e-03	-1.788366e-03	6.428005e-05	1.334724e-04
## 349	7.873866e-02	8.855678e-02	-9.905140e-02	1.024110e-02	-1.134139e-01
## 351	7.020530e-02	2.824054e-02	-9.931310e-03	6.040673e-03	-9.524617e-02
## 352	-1.495279e-01	8.752387e-01	-1.271820e+00	4.997133e-02	9.095814e-02
## 353	-4.606494e-04	2.695523e-03	-3.917107e-03	1.538607e-04	2.803423e-04
## 354	-2.047189e-03	9.862211e-04	-2.026158e-03	-4.746931e-05	2.556590e-03
## 358	-9.937768e-02	5.915962e-01	-7.316196e-01	3.874615e-02	5.632640e-02
## 359	2.285813e-01	-1.294615e+00	-2.212329e+00	-9.827791e-01	7.677648e-01
## 361	6.493063e-06	-3.232178e-05	-8.986980e-05	-2.747034e-05	2.073155e-05
## 362	4.914713e-02	3.265699e-01	-4.414510e-01	2.443537e-02	-1.031343e-01
## 364	-8.694376e-03	5.242456e-02	-7.610384e-02	3.006165e-03	5.107406e-03
## 367	-1.103649e-04	9.584773e-05	-1.709377e-04	-9.200346e-08	1.331054e-04
## 368	-1.951212e-01	1.230973e+00	-2.861711e+00	-1.306786e-01	3.073850e-01
## 370	-1.567067e-05	9.161982e-05	-1.331427e-04	5.229405e-06	9.545722e-06
## 372	1.036041e+00	2.310754e+00	-2.906170e+00	2.109552e-01	-1.628882e+00
## 373	-1.820632e-04	1.044477e-03	-1.940667e-03	-1.954022e-05	1.912692e-04
## 375	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
## 377	1.757355e-03	1.474613e-02	-2.008527e-02	1.076745e-03	-4.052568e-03
## 378	-4.685552e-02	5.069691e-01	3.448722e+00	1.906551e-01	-9.553977e-02
## 379	-1.189053e-04	6.957798e-04	-1.011065e-03	3.972176e-05	7.235730e-05
## 380	-1.382392e-04	8.088264e-04	-1.175371e-03	4.616930e-05	8.413816e-05
## 381	-3.557519e-02	-1.428346e-02	8.754730e-03	-2.915429e-03	4.817414e-02
## 382	8.926836e-02	-5.356245e-01	-1.239522e+00	-4.083913e-01	3.202482e-01
## 383	-9.004475e-02	5.303076e-01	-9.434936e-01	-2.097579e-03	8.639022e-02
## 386	-8.867245e-02	5.059673e-01	-2.699736e+00	-3.389356e-01	4.186230e-01
## 388	1.091264e-01	1.080432e-01	9.250427e+00	3.714299e-01	-3.717416e-01
## 389	1.732721e-02	-1.285526e-02	1.134039e+00	4.257216e-02	-4.674709e-02

## 391	-8.691657e-02	5.935538e-01	8.079113e-01	9.829764e-02	4.395151e-03
## 392	-7.497080e-02	2.066178e-02	-5.257634e-02	-2.766617e-03	9.546861e-02
## 393	-1.765252e-03	2.557464e-01	2.720605e+00	1.346629e-01	-9.929105e-02
## 395	-1.811632e-02	1.876391e-01	-1.137591e+00	-1.512892e-01	1.620376e-01
## 396	9.124941e-02	3.579755e-03	6.767350e+00	2.631621e-01	-2.753478e-01
## 397	-1.484034e-01	8.629870e-01	-2.081163e+00	-1.055984e-01	2.438408e-01
## 398	-2.380567e-02	-9.525648e-03	5.812885e-03	-1.948793e-03	3.223263e-02
## 402	-1.791113e-04	9.872504e-04	-1.471907e-03	4.941889e-05	1.225369e-04
## 403	-8.635492e-05	2.606322e-03	-3.683135e-03	1.669176e-04	-1.962893e-04
## 404	-6.059622e-04	3.545258e-03	-5.152570e-03	2.022449e-04	3.689571e-04
## 405	-7.607445e-02	-1.453890e-02	-3.672647e-03	-5.169541e-03	1.011077e-01
## 406	-2.207921e-01	1.292293e+00	-1.877851e+00	7.378198e-02	1.343180e-01
## 407	-2.704026e-04	1.582366e-03	-2.299382e-03	9.033966e-05	1.645345e-04
## 408	-1.189053e-04	6.957798e-04	-1.011065e-03	3.972176e-05	7.235730e-05
## 410	-1.463431e-04	7.754956e-04	-1.131144e-03	4.351551e-05	9.868902e-05
## 411	-8.837947e-05	5.171586e-04	-7.515014e-04	2.952477e-05	5.378081e-05
## 412	4.453222e-03	7.545856e-03	-9.152430e-03	7.479881e-04	-6.716880e-03
## 414	-3.233285e-04	1.892132e-03	-2.749285e-03	1.080346e-04	1.967267e-04
## 415	-3.605006e-01	2.089605e+00	-6.149254e+00	-4.635227e-01	7.971267e-01
## 416	1.953282e-02	1.243859e-02	-1.123808e-02	1.906456e-03	-2.699836e-02
## 417	-3.645756e-02	2.396320e-01	-1.360710e-02	2.667086e-02	1.135501e-02
## 418	1.893785e+00	1.401977e+00	-1.363803e+00	1.978831e-01	-2.640975e+00
## 419	-2.821866e-04	1.651191e-03	-2.399477e-03	9.425353e-05	1.717347e-04
## 420	-2.507914e-05	-3.910821e-06	-4.229811e-06	-1.979707e-06	3.355658e-05
## 421	-9.970605e-05	5.834437e-04	-8.478218e-04	3.330915e-05	6.067238e-05
## 422	-4.199633e-04	2.457377e-03	-3.570964e-03	1.402808e-04	2.555758e-04
## 423	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 424	-8.539686e-04	2.365746e-01	2.574334e+00	1.268071e-01	-9.419137e-02
## 425	3.622351e-06	5.769804e-06	-1.765979e-05	-1.425637e-06	-3.435141e-06
## 426	-5.164515e-05	3.020846e-04	-4.389844e-04	1.724344e-05	3.144308e-05
## 428	-9.214566e-02	5.379018e-01	-7.816963e-01	3.069803e-02	5.622598e-02
## 429	-1.110252e-01	6.496720e-01	-9.440565e-01	3.709089e-02	6.756026e-02
## 430	-1.993420e-02	1.160379e-01	-2.637508e-01	-1.120182e-02	2.980337e-02
## 431	-1.374085e-05	8.016841e-05	-1.165203e-04	4.572362e-06	8.392097e-06

## 434	-6.050650e-06	-2.442199e-06	1.506975e-06	-4.967187e-07	8.195026e-06
## 435	2.413685e-02	1.040035e-01	-1.217628e+00	-1.939141e-01	1.557207e-01
## 436	3.483513e-01	-1.478706e+00	4.215577e+00	-8.106412e-01	5.532793e-01
## 437	-9.492219e-02	5.346227e-01	-4.239159e+00	-6.177373e-01	7.002449e-01
## 438	3.310033e-02	3.005243e-02	-3.159991e-02	3.827804e-03	-4.682159e-02
## 439	-9.692932e-02	5.766568e-01	-4.636415e+00	-6.783026e-01	7.603186e-01
## 442	-5.206738e-07	-2.121733e-07	1.263581e-07	-4.402797e-08	7.065789e-07
## 444	7.577036e-01	8.735653e+00	-1.198094e+01	6.230686e-01	-2.031406e+00
## 447	-1.640907e-01	9.576734e-01	-1.389889e+00	5.472290e-02	1.001082e-01
## 448	-3.183782e-04	1.864485e-03	-2.725401e-03	1.034372e-04	1.965476e-04
## 450	1.206456e-02	1.550796e-02	-1.789016e-02	1.698149e-03	-1.760879e-02
## 451	9.881911e-01	4.833014e-01	-3.642735e-01	8.674111e-02	-1.348479e+00
## 452	3.132690e-03	1.666749e-03	-1.343444e-03	2.838826e-04	-4.290845e-03
## 455	-3.737378e-02	2.284037e-01	-1.976382e-01	1.824592e-02	1.849650e-02
## 456	8.156521e-02	3.824502e-02	-2.776357e-02	7.049972e-03	-1.111069e-01
## 457	-5.675743e-03	7.925131e-02	-5.329760e-01	-7.373677e-02	7.568081e-02
## 458	3.694074e-01	-3.322696e-01	2.330641e+01	8.312953e-01	-9.285586e-01
## 460	-2.487163e-02	2.727737e-01	1.206635e+00	7.781286e-02	-3.689559e-02
## 462	-3.042270e-03	1.394215e-02	-6.080716e-01	-1.092659e-01	1.109684e-01
## 464	-6.826009e-02	5.309458e-01	-1.721368e+00	-1.476205e-01	2.028001e-01
## 465	-9.522255e-05	-1.528850e-05	-9.220796e-06	-6.380540e-06	1.263119e-04
## 466	-2.122538e-04	1.241989e-03	-1.804783e-03	7.090469e-05	1.291650e-04
## 467	-3.022840e-02	1.762306e-01	-2.500605e-01	1.028689e-02	1.833232e-02
## 468	-9.317353e-05	4.439030e-04	-6.536800e-04	2.379388e-05	6.936328e-05
## 469	-6.945422e-03	2.856949e-02	-1.881736e+00	-3.429251e-01	3.458233e-01
## 470	3.617239e-02	2.152208e-02	-1.869504e-02	3.429883e-03	-4.981728e-02
## 473	4.071676e-01	-3.495628e-01	2.594060e+01	9.386545e-01	-1.043495e+00
## 474	1.073081e+00	1.515805e+00	-1.782164e+00	1.601188e-01	-1.582482e+00
## 475	-3.872219e-04	2.266007e-03	-3.292799e-03	1.293699e-04	2.356135e-04
## 476	2.045856e-02	-1.227670e-01	-2.860449e-01	-9.396850e-02	7.376388e-02
## 477	1.322319e-01	5.346378e-02	-3.306247e-02	1.086134e-02	-1.791063e-01
## 478	-5.096251e-11	2.979924e-10	-4.706053e-10	9.962036e-12	3.799987e-11
## 479	-6.003613e-04	2.126849e-03	-6.883891e-03	-5.879123e-04	1.218214e-03
## 480	-1.707086e-01	9.989860e-01	-1.451653e+00	5.703403e-02	1.038703e-01

## 481	3.721699e-03	-1.876141e-02	1.425287e-03	-1.240356e-02	9.234596e-03
## 482	9.043292e-02	1.412383e-01	8.240895e+00	3.360014e-01	-3.291771e-01
## 485	8.439466e-03	8.644210e-03	-9.431833e-03	1.041073e-03	-1.205479e-02
## 487	1.853749e-02	2.302472e-03	2.630342e-03	1.177172e-03	-2.448959e-02
## 488	-3.623884e-04	2.120689e-03	-3.081628e-03	1.210744e-04	2.205014e-04
## 489	-1.539367e-01	-4.387667e-02	1.279662e-02	-1.142243e-02	2.063155e-01
## 490	1.971383e-03	7.199327e-03	-9.453037e-03	5.874660e-04	-3.433229e-03
## 491	1.304863e-01	-4.162053e-01	-2.110133e+00	-5.323321e-01	3.846600e-01
## 493	-5.611730e-02	-2.267983e-02	1.401805e-02	-4.608766e-03	7.600897e-02
## 495	-1.748791e-01	1.023912e+00	-1.549818e+00	4.685820e-02	1.178054e-01
## 496	-3.144633e-04	1.840217e-03	-2.674075e-03	1.050602e-04	1.913437e-04
## 497	-1.260185e-04	7.373983e-04	-1.071544e-03	4.209739e-05	7.668673e-05
## 500	-2.562920e-02	1.544149e-01	-7.247686e-01	-8.487839e-02	1.076358e-01
## 502	1.610934e-03	1.386680e-03	-1.432352e-03	1.811170e-04	-2.269548e-03
## 503	1.211752e+00	2.963905e+00	-3.764592e+00	2.641137e-01	-1.936290e+00
## 504	-3.246101e-04	1.899584e-03	-2.760341e-03	1.084497e-04	1.975189e-04
## 506	-1.078117e-01	-4.357287e-02	2.693230e-02	-8.854337e-03	1.460273e-01
## 507	1.460805e-04	-9.486298e-04	-1.105930e-02	-2.382932e-03	2.221223e-03
## 508	-7.836144e-05	3.693097e-04	-5.424041e-04	2.006694e-05	5.849690e-05
## 509	-1.231995e-01	7.165221e-01	-1.041435e+00	4.086606e-02	7.549187e-02
## 510	-2.944708e-04	1.723216e-03	-2.504054e-03	9.838121e-05	1.791787e-04
## 512	4.401517e-09	-2.640981e-08	-6.111660e-08	-2.013638e-08	1.579034e-08
## 514	-6.567070e-02	-2.652729e-02	1.638553e-02	-5.392460e-03	8.894711e-02
## 515	1.939204e+00	3.913393e+00	-4.863443e+00	3.674703e-01	-2.999764e+00
## 516	-1.090067e-02	1.094217e-01	-2.777597e+00	-4.840853e-01	4.858490e-01
## 517	-2.020552e-01	1.191499e+00	-1.731232e+00	6.805031e-02	1.219213e-01
## 519	-5.018474e-03	2.936788e-02	-4.270193e-02	1.671672e-03	3.058526e-03
## 520	4.498704e-02	-2.126140e-01	-5.048898e-01	-1.645553e-01	1.175800e-01
## 521	-3.585647e-02	2.097279e-01	-3.237593e-01	8.416650e-03	2.534173e-02
## 522	-3.578778e-04	2.094292e-03	-3.043271e-03	1.195674e-04	2.177568e-04
## 523	-6.227147e-02	-2.504370e-02	1.538278e-02	-5.105986e-03	8.432987e-02
## 524	1.992763e-03	3.447323e-02	-3.186835e+00	-5.853819e-01	5.737591e-01
## 526	5.008408e-02	2.281308e-02	-1.610934e-02	4.284313e-03	-6.814378e-02
## 527	-2.536008e-05	1.482306e-04	-2.154197e-04	8.458785e-06	1.545407e-05

## 529	-7.839398e-06	-3.280159e-06	1.717355e-06	-7.256872e-07	1.070503e-05
## 531	-1.575118e-01	9.199776e-01	-1.725174e+00	-2.018608e-02	1.678411e-01
## 532	1.474490e-01	-8.598677e-01	-2.024226e+00	-7.119008e-01	5.694237e-01
## 533	-8.437982e-05	4.937756e-04	-7.175223e-04	2.818988e-05	5.134455e-05
## 535	-1.059799e-01	-4.265055e-02	2.621353e-02	-8.693012e-03	1.435258e-01
## 536	-1.150900e-04	6.285954e-05	-1.253247e-04	-2.370222e-06	1.430359e-04
## 537	-4.468059e-05	2.613540e-04	-3.797970e-04	1.491817e-05	2.720242e-05
## 538	3.045075e-04	7.528295e-04	-1.017234e-03	5.567008e-05	-4.764422e-04
## 541	1.465993e-02	-1.085821e-02	9.596720e-01	3.602870e-02	-3.955847e-02
## 542	-4.155895e-05	7.936937e-05	-1.252727e-04	2.778711e-06	4.502674e-05
## 544	-4.296280e-05	2.513418e-04	-3.652407e-04	1.434789e-05	2.615145e-05
## 545	-8.805394e-05	5.152186e-04	-7.486900e-04	2.941259e-05	5.358798e-05
## 546	-2.402117e-01	1.409661e+00	-2.337082e+00	2.642823e-02	1.991067e-01
## 547	-4.436198e-03	-1.792206e-03	1.107199e-03	-3.642877e-04	6.008597e-03
## 548	-1.598575e-01	9.526664e-01	-3.054119e+00	-2.582683e-01	4.041473e-01
## 550	-2.349544e-05	1.359401e-04	-1.976217e-04	7.746465e-06	1.448154e-05
## 551	1.141099e-01	-3.790145e-01	-2.038505e+00	-5.066395e-01	3.777947e-01
## 552	4.603759e-02	1.006512e-01	4.815714e+00	1.982148e-01	-1.862463e-01
## 553	-1.018465e+00	6.013599e+00	-8.735621e+00	3.438353e-01	6.133140e-01
## 554	-3.194567e-04	1.869427e-03	-2.716520e-03	1.067282e-04	1.943830e-04
## 555	-2.678457e-02	1.190848e-01	-1.750012e-01	6.446250e-03	2.078618e-02
## 556	-1.933077e-01	1.323243e+00	-1.912538e+00	7.734832e-02	9.473605e-02
## 557	2.122592e-02	-9.965922e-03	2.064472e-02	5.094398e-04	-2.653849e-02
## 558	-1.035417e+00	6.181563e+00	-8.975984e+00	3.540741e-01	6.154288e-01
## 560	-2.874645e-04	1.682214e-03	-2.444474e-03	9.603998e-05	1.749161e-04
## 561	-7.060237e-04	4.917095e-04	-9.078596e-04	-6.171358e-06	8.635587e-04
## 562	-2.583496e-01	2.812369e+00	-4.023780e+00	1.714900e-01	3.453262e-03
## 563	1.165346e-01	-5.130573e-01	-3.574270e+00	-8.382383e-01	7.094095e-01
## 564	-9.427392e-02	5.516977e-01	-8.017068e-01	3.149696e-02	5.736184e-02
## 565	-4.968471e-04	2.907185e-03	-4.225518e-03	1.657878e-04	3.025409e-04
## 566	7.270048e-04	5.946693e-03	-8.089122e-03	4.345094e-04	-1.657332e-03
## 570	2.907702e-01	3.987752e-01	-4.661709e-01	4.259235e-02	-4.273762e-01
## 571	-1.674979e-02	9.801957e-02	-1.424346e-01	5.596171e-03	1.019164e-02
## 573	-1.123630e-04	2.246818e-04	-3.545101e-04	7.867467e-06	1.208484e-04

## 574	-2.408232e-04	1.340786e-03	-2.297903e-03	1.114003e-05	2.186576e-04
## 575	-7.637510e-02	1.345633e-02	-4.293792e-02	-3.323579e-03	9.816221e-02
## 578	-3.794583e-06	2.117165e-05	-3.085642e-05	1.192313e-06	2.438770e-06
## 582	-9.798754e-03	8.682887e-02	-2.026432e-01	-9.380383e-03	1.688024e-02
## 583	-9.606541e-02	5.841394e-01	-3.252397e+00	-4.167061e-01	5.004946e-01
## 584	-1.863966e-01	1.102286e+00	-6.427844e+00	-8.407058e-01	1.004548e+00
## 585	3.109533e-01	-1.343009e+00	3.384093e+00	-7.606786e-01	5.276369e-01
## 586	4.067917e-01	3.291821e-01	-3.321812e-01	4.436934e-02	-5.706318e-01
## 587	-4.535468e-02	9.624077e-01	-1.339309e+00	6.234357e-02	-5.600558e-02
## 588	1.260392e-01	-6.189327e-01	-2.315601e+00	-6.373849e-01	5.048262e-01
## 589	4.721403e-02	-2.981830e-01	-2.897687e+00	-6.407007e-01	5.895956e-01
## 590	-6.844322e-01	4.005353e+00	-5.820547e+00	2.286240e-01	4.164957e-01
## 591	9.503362e-02	-2.650660e-01	-1.741562e+00	-4.135330e-01	3.036240e-01
## 592	-3.807801e-02	2.537397e-01	2.094797e-02	2.961552e-02	1.052424e-02
## 594	-3.308748e-06	2.346868e-07	-1.372875e-06	-1.671564e-07	4.294146e-06
## 595	5.925829e-04	-2.945685e-04	4.040030e-02	1.535187e-03	-1.658049e-03
## 597	-9.164940e-02	1.762806e-01	-2.736479e-01	6.739553e-03	9.865431e-02
## 598	9.306010e-02	-5.583760e-01	-1.292241e+00	-4.257510e-01	3.338639e-01
## 599	-1.620138e-04	9.473935e-04	-1.376105e-03	5.410453e-05	9.865122e-05
## 601	2.823958e-05	-1.588943e-04	-3.733366e-04	-1.222111e-04	9.384963e-05
## 602	-5.169721e-04	3.023926e-03	-4.397682e-03	1.719808e-04	3.153655e-04
## 606	3.385609e-03	6.149870e-03	-7.537832e-03	5.958354e-04	-5.155525e-03
## 608	4.666598e-01	-4.701396e-01	-1.822759e+00	-4.975434e-01	-6.760416e-02
## 609	-1.375718e-05	8.033269e-05	-1.167506e-04	4.583268e-06	8.392964e-06
## 610	1.405690e-01	-8.484066e-01	-2.761830e+00	-7.972028e-01	6.568357e-01
## 612	-2.511826e-02	1.470427e-01	-2.138173e-01	8.367652e-03	1.530498e-02
## 613	1.196391e+01	-2.240161e+00	6.663828e+00	5.034702e-01	-1.535650e+01
## 614	3.063187e-03	-2.159230e-03	2.017444e-01	7.588041e-03	-8.310538e-03
## 615	-3.267241e-02	1.928934e-01	-2.581679e-01	1.187140e-02	1.916910e-02
## 616	2.629503e+00	4.181518e+00	-5.020661e+00	4.234448e-01	-3.933460e+00
## 618	-9.968805e-02	5.833626e-01	-8.476989e-01	3.330544e-02	6.065786e-02
## 620	-5.466005e-11	3.195796e-10	-5.112725e-10	9.432680e-12	4.199722e-11
## 621	1.001233e+00	1.260578e+00	-1.447712e+00	1.391738e-01	-1.458199e+00
## 622	-2.203105e-01	1.287096e+00	-5.349273e+00	-5.779120e-01	7.775795e-01

## 623	-1.447889e-05	-5.849764e-06	3.585900e-06	-1.194282e-06	1.961617e-05
## 624	6.090356e-02	-3.374672e-01	-4.918808e+00	-1.032089e+00	9.610823e-01
## 625	-1.041978e-01	6.097731e-01	-8.860757e-01	3.481343e-02	6.339957e-02
## 627	-2.993619e-04	1.751837e-03	-2.545645e-03	1.000152e-04	1.821550e-04
## 628	3.658350e+00	1.909279e+00	-1.516557e+00	3.291096e-01	-5.006476e+00
## 629	-6.043743e-07	7.535787e-07	-1.257831e-06	1.438344e-08	7.019583e-07
## 631	3.131045e-04	-1.871410e-03	-4.335001e-03	-1.427673e-03	1.118185e-03
## 632	-1.357505e-03	7.939365e-03	-1.153714e-02	4.532326e-04	8.265575e-04
## 633	-2.896339e-04	1.694911e-03	-2.462923e-03	9.676531e-05	1.762354e-04
## 634	-5.034324e-01	2.946176e+00	-4.281456e+00	1.681486e-01	3.063647e-01
## 637	-1.752191e-02	1.969541e-03	2.349849e-03	-4.301756e-04	2.240803e-02
## 639	2.049002e+00	3.177873e+00	-3.799619e+00	3.246070e-01	-3.055491e+00
## 641	-1.406832e-05	8.219687e-05	-1.194546e-04	4.690580e-06	8.576646e-06
## 642	-1.101120e-01	6.334155e-01	-2.584179e+00	-2.753477e-01	3.758390e-01
## 644	3.757323e-02	-2.198716e-01	3.195010e-01	-1.255294e-02	-2.286271e-02
## 645	-4.300772e-05	-3.549869e-06	-8.729047e-06	-2.634196e-06	5.662521e-05
## 646	-5.474579e-03	-1.564105e-03	4.605177e-04	-4.064623e-04	7.337804e-03
## 647	3.057759e-03	3.541178e-01	8.359836e+00	1.681606e+00	-1.683471e+00
## 649	5.290032e+00	3.666300e+00	-3.459883e+00	5.361338e-01	-7.347407e+00
## 650	-1.716412e-04	1.004396e-03	-1.459524e-03	5.734129e-05	1.044446e-04
## 651	1.094472e-03	-2.642614e-02	-3.053561e+00	-5.804306e-01	5.732542e-01
## 653	-1.159501e-05	6.752775e-05	-9.816049e-05	3.849114e-06	7.097118e-06
## 654	4.181058e-02	2.069618e-01	-2.763983e-01	1.607529e-02	-7.929112e-02
## 656	4.549053e+00	6.556997e+00	-7.738426e+00	6.875214e-01	-6.724176e+00
## 657	3.010450e-02	-2.030013e-01	-1.061486e+00	-2.655562e-01	2.354384e-01
## 658	-3.957275e-05	2.315161e-04	-3.364292e-04	1.321642e-05	2.408690e-05
## 659	-1.164609e-05	6.718404e-05	-9.771021e-05	3.820709e-06	7.207509e-06
## 660	2.242238e-02	2.254296e-01	4.165884e+00	1.873374e-01	-1.594905e-01
## 661	-9.757930e-05	5.709864e-04	-8.297221e-04	3.259748e-05	5.938005e-05
## 662	5.122893e-04	-2.246307e-04	3.526073e-02	1.343572e-03	-1.445664e-03
## 663	1.049451e-02	-3.380359e-02	2.142490e-01	-2.506837e-02	1.875188e-02
## 664	7.290933e-02	-4.757316e-01	-2.653989e+00	-6.534953e-01	5.795733e-01
## 665	-3.202476e-02	1.885906e-01	-2.586207e-01	1.136551e-02	1.899040e-02
## 666	6.912388e-02	-4.057266e-01	-3.119443e+00	-7.176343e-01	6.439046e-01

## 668	-4.716320e-04	2.715492e-03	-4.329411e-03	8.326402e-05	3.627387e-04
## 669	-3.277820e-02	1.906629e-01	-4.550058e-01	-2.243277e-02	5.297493e-02
## 672	3.631170e+00	1.976270e+00	-1.618880e+00	3.320630e-01	-4.978956e+00
## 673	6.641313e-02	-2.606837e-01	-2.840386e+00	-6.177252e-01	5.408660e-01
## 678	-3.479390e-02	2.036137e-01	-2.958752e-01	1.162480e-02	2.117080e-02
## 679	-5.345695e-02	2.967380e-01	-2.871802e+00	-4.400237e-01	4.855755e-01
## 681	-2.034189e-04	1.190320e-03	-1.729697e-03	6.795573e-05	1.237848e-04
## 683	4.152008e-03	1.895792e-03	-1.342002e-03	3.554522e-04	-5.649691e-03
## 684	2.214544e-01	-1.633088e-01	-1.682628e+00	-3.695590e-01	9.650537e-02
## 685	6.632907e-02	-3.463079e-01	-1.723590e+00	-4.367459e-01	3.668278e-01
## 687	2.596459e-02	-8.258324e-02	-2.219099e+00	-4.427315e-01	4.091444e-01
## 688	-7.826526e-05	4.579682e-04	-6.654904e-04	2.614544e-05	4.762693e-05
## 689	-1.775164e-04	1.038726e-03	-1.509430e-03	5.929746e-05	1.080289e-04
## 690	7.782974e-03	-4.670023e-02	-1.082409e-01	-3.563860e-02	2.795339e-02
## 691	-5.840521e-04	3.417757e-03	-4.966636e-03	1.950886e-04	3.554253e-04
## 693	-9.557317e-01	5.823402e+00	-8.760651e+00	2.764239e-01	6.115451e-01
## 695	-3.422878e-02	1.752658e-01	-2.515658e-01	9.940841e-03	2.370972e-02
## 696	-1.065761e-04	6.227371e-04	-9.053483e-04	3.547291e-05	6.503114e-05
## 697	5.721457e-05	8.166251e-04	-1.127221e-03	5.699072e-05	-1.716200e-04
## 698	2.799316e-01	-5.832461e-01	1.265966e+01	1.865170e-01	-3.072737e-01
## 699	1.458866e-03	-8.753232e-03	-2.026437e-02	-6.675969e-03	5.235509e-03
## 700	-5.593887e-05	3.271605e-04	-4.754419e-04	1.867154e-05	3.406474e-05
## 701	-1.241402e-01	6.515016e-01	-9.468245e-01	3.657707e-02	8.444986e-02
## 702	2.182792e-01	-3.654893e-01	-1.704116e+00	-4.399889e-01	1.808581e-01
## 704	2.504619e-02	3.370937e-03	1.884571e+00	7.355440e-02	-7.656439e-02
## 705	-3.756289e-02	2.713497e-01	2.551087e-01	4.070631e-02	1.778906e-03
## 706	-9.822824e-01	5.750459e+00	-8.356024e+00	3.283258e-01	5.974284e-01
## 707	-2.618901e-01	1.532562e+00	-2.229503e+00	8.702952e-02	1.598147e-01
## 711	-1.161946e-01	6.373978e-01	-9.285148e-01	3.598868e-02	7.577664e-02
## 712	1.067103e-02	1.823277e-02	-2.214290e-02	1.802396e-03	-1.611331e-02
## 713	-3.043188e-02	1.780581e-01	-2.558549e-01	1.027588e-02	1.845349e-02
## 714	-3.400122e-07	2.047851e-07	-3.971853e-07	-5.778542e-09	4.203435e-07
## 715	1.244228e-01	3.974325e-01	-5.168289e-01	3.330969e-02	-2.099164e-01
## 716	-3.286503e-02	1.900855e-01	-6.179768e-01	-5.313660e-02	8.343637e-02

## 718	1.946959e-03	1.472043e-03	-1.445614e-03	2.053768e-04	-2.718686e-03
## 719	2.587464e-02	1.507797e-01	-2.028345e-01	1.145441e-02	-5.177241e-02
## 720	-2.002861e-02	2.352862e-01	-3.357633e-01	1.450402e-02	-1.850369e-03
## 721	-6.531940e-03	3.675911e-02	-5.349461e-02	2.084829e-03	4.149227e-03
## 722	1.749387e-01	-2.883033e-01	9.033639e+00	2.129727e-01	-2.776545e-01
## 723	-2.896339e-04	1.694911e-03	-2.462923e-03	9.676531e-05	1.762354e-04
## 724	-3.311727e-01	1.935910e+00	-3.144753e+00	4.843204e-02	2.630596e-01
## 725	1.625274e-01	-2.131509e-01	-2.345698e+00	-5.098571e-01	3.114867e-01
## 726	9.671673e-05	-5.803175e-04	-1.343180e-03	-4.425111e-04	3.470131e-04
## 727	-4.141311e-04	2.444594e-03	-4.570552e-03	-5.110279e-05	4.379624e-04
## 729	1.201708e-03	-7.555142e-04	8.016595e-02	3.026848e-03	-3.297716e-03
## 730	-1.413606e-04	8.081205e-04	-2.838904e-03	-2.655283e-04	3.959028e-04
## 732	1.978121e-02	1.064871e-02	-8.655360e-03	1.801082e-03	-2.710938e-02
## 733	1.887059e-01	1.147900e+01	-1.600265e+01	7.739436e-01	-1.615100e+00
## 738	4.076666e-02	-1.075082e-01	-1.067593e+00	-2.353703e-01	1.871694e-01
## 739	-6.186818e-02	-2.500439e-02	1.545509e-02	-5.081093e-03	8.379838e-02
## 740	9.874807e-02	-4.581384e-01	-2.833578e+00	-6.814417e-01	5.738871e-01
## 742	6.064948e-02	-2.793558e-01	-2.282595e+00	-5.193968e-01	4.519751e-01
## 743	-2.600326e-04	1.521662e-03	-2.211171e-03	8.687377e-05	1.582270e-04
## 744	1.136874e-01	5.902577e-02	-4.669961e-02	1.020687e-02	-1.555452e-01
## 747	-3.662680e-02	2.376578e-01	-3.865450e+00	-6.455468e-01	6.706381e-01
## 748	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
## 749	-1.000626e-02	-3.031633e-03	1.083173e-03	-7.544283e-04	1.343241e-02
## 750	-7.006667e-02	4.100340e-01	-5.958291e-01	2.340990e-02	4.263246e-02
## 751	9.397135e-02	-3.528430e-01	-2.582646e+00	-5.998484e-01	4.936505e-01
## 752	1.375955e-03	-8.845890e-04	9.157239e-02	3.455075e-03	-3.767899e-03
## 753	-7.125998e-04	4.168893e-03	-6.074148e-03	2.349741e-04	4.367267e-04
## 754	-5.386130e-04	3.151806e-03	-4.580137e-03	1.799119e-04	3.277749e-04
## 755	-1.693808e+00	9.912144e+00	-1.440358e+01	5.659077e-01	1.030621e+00
## 757	-8.216770e-02	1.901008e-02	-5.253721e-02	-3.274054e-03	1.050667e-01
## 758	-3.541930e-02	2.378064e-01	4.015859e-02	2.855247e-02	9.041579e-03
## 759	1.129926e-05	-2.081543e-06	-2.258591e-05	-4.956487e-06	-9.137269e-06
## 761	-7.160587e-05	4.190132e-04	-6.088844e-04	2.392131e-05	4.357330e-05
## 762	2.835961e-02	3.772953e-02	-4.383828e-02	4.076670e-03	-4.154433e-02

## 763	-2.801238e-04	1.639260e-03	-2.382054e-03	9.358823e-05	1.704485e-04
## 764	-2.437470e-03	5.723017e-02	-1.840268e-01	-1.564670e-02	1.543901e-02
## 765	-1.427331e-02	2.701166e-01	1.958145e+00	1.066901e-01	-6.761388e-02
## 769	-5.620784e-02	-2.209950e-02	1.317751e-02	-4.575164e-03	7.605805e-02
## 770	4.484892e-07	1.822423e-06	5.336924e-05	2.279039e-06	-2.091194e-06
## 772	-1.232659e-01	-1.524693e-02	-1.757937e-02	-7.823433e-03	1.628370e-01
## 773	-3.373920e-05	-1.108207e-05	4.290502e-06	-2.706712e-06	4.549848e-05
## 774	1.462478e-01	-8.775102e-01	-2.030701e+00	-6.690648e-01	5.246606e-01
## 775	1.550924e+00	3.841818e+00	-4.885912e+00	3.412524e-01	-2.484021e+00
## 777	-4.385345e-05	2.565502e-04	-3.728100e-04	1.464513e-05	2.669390e-05
## 778	4.174494e-04	1.264071e-03	4.487800e-02	1.885958e-03	-1.770171e-03
## 779	1.263777e+00	7.868028e-01	-7.019369e-01	1.221552e-01	-1.744658e+00
## 780	-1.552275e-01	-2.092862e-02	-1.971930e-02	-9.966959e-03	2.052652e-01
## 781	-1.097886e-04	6.424202e-04	-9.335286e-04	3.667502e-05	6.681134e-05
## 782	-2.708344e-04	1.584900e-03	-2.303062e-03	9.048483e-05	1.647959e-04
## 783	2.872519e-01	1.160986e-01	-7.176308e-02	2.359162e-02	-3.890736e-01
## 784	-5.988781e-05	3.504042e-04	-5.091892e-04	2.000388e-05	3.644751e-05
## 785	-1.403410e-02	1.152841e-01	-1.021201e+00	-1.532819e-01	1.627695e-01
## 788	4.551873e-02	-2.731308e-01	-6.339819e-01	-2.086089e-01	1.636600e-01
## 789	-2.944708e-04	1.723216e-03	-2.504054e-03	9.838121e-05	1.791787e-04
## 790	-4.947201e-11	2.886083e-10	-5.602796e-10	-9.948496e-12	5.630252e-11
## 791	-1.829861e-01	1.066294e+00	-1.549064e+00	6.085882e-02	1.118669e-01
## 792	-2.371859e-04	1.387999e-03	-2.016943e-03	7.924273e-05	1.443216e-04
## 793	-4.513004e-02	2.478896e-01	-2.824028e+00	-4.471582e-01	4.848135e-01
## 794	-4.114337e-06	2.034116e-05	-2.997281e-05	1.086170e-06	2.988300e-06
## 795	-2.370623e-01	1.387913e+00	-2.148418e+00	5.459654e-02	1.685110e-01
## 796	4.256272e-04	-2.553983e-03	-5.932872e-03	-1.951525e-03	1.531218e-03
## 797	-3.019628e-08	1.766670e-07	-2.630090e-07	8.908662e-09	1.954090e-08
## 798	-4.675434e-01	2.745049e+00	-3.988517e+00	1.567864e-01	2.834307e-01
## 799	-9.993881e-02	5.848406e-01	-8.498461e-01	3.338991e-02	6.080919e-02
## 800	-2.382604e-05	1.392762e-04	-2.024039e-04	7.948292e-06	1.451743e-05
## 803	9.752660e-01	7.851012e-01	-7.906297e-01	1.061057e-01	-1.367582e+00
## 804	-1.381781e-04	8.085447e-04	-1.174933e-03	4.615848e-05	8.408748e-05
## 806	1.767466e-02	1.256551e-02	-1.200267e-02	1.812178e-03	-2.458615e-02

## 807	-7.196116e-05	4.210524e-04	-6.118516e-04	2.403701e-05	4.379459e-05
## 810	2.496350e-04	-1.493252e-03	-3.460756e-03	-1.139505e-03	8.928025e-04
## 811	-1.063741e-05	6.225001e-05	-9.045733e-05	3.553937e-06	6.472543e-06
## 814	-6.828078e-05	3.552304e-05	-2.316617e-04	-3.144211e-05	1.146176e-04
## 815	1.656149e-01	-9.967955e-01	-2.997873e+00	-8.925569e-01	7.278255e-01
## 816	-1.656440e-02	9.613950e-02	-1.397455e-01	5.481328e-03	1.017365e-02
## 817	-1.377906e-04	5.473731e-04	-8.137578e-04	2.798493e-05	1.155328e-04
## 819	-7.994758e-05	4.655154e-04	-6.777649e-04	2.633302e-05	4.914340e-05
## 820	-1.778501e-02	9.823283e-02	-1.076555e+00	-1.692332e-01	1.841304e-01
## 822	1.616922e-03	1.111602e-03	-1.045369e-03	1.631857e-04	-2.244607e-03
## 823	-2.879167e-11	1.674215e-10	-4.060902e-10	-2.092478e-11	4.774004e-11
## 825	3.949936e-03	-1.086975e-02	1.387880e-01	-9.014278e-04	-1.177267e-03
## 826	-1.006680e-02	4.813676e-02	-7.052987e-02	2.646544e-03	7.410017e-03
## 827	3.723087e-04	-1.203737e-04	2.610372e-02	9.998666e-04	-1.068175e-03
## 830	1.861895e-01	-1.139268e+00	-6.094940e+00	-1.516193e+00	1.325268e+00
## 831	-8.675519e-12	4.950809e-11	-2.643064e-10	-3.319085e-11	4.098663e-11
## 832	-9.172698e-02	5.367937e-01	-7.800157e-01	3.064735e-02	5.581127e-02
## 833	-9.938798e-02	-3.758994e-02	2.122030e-02	-7.990972e-03	1.343103e-01
## 834	-5.257386e-07	-3.964967e-06	-8.984346e-06	-2.982724e-06	3.815976e-06
## 835	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 837	-4.851954e-03	4.291573e-03	-7.536349e-03	1.750922e-05	5.826241e-03
## 842	-8.446201e-02	4.794920e-01	-2.898861e+00	-3.849333e-01	4.601956e-01
## 843	-9.157587e-01	5.362437e+00	-7.749142e+00	3.078295e-01	5.558052e-01
## 844	-4.369562e-05	2.555514e-04	-3.713724e-04	1.458555e-05	2.660866e-05
## 845	-1.816971e-04	1.063232e-03	-1.545016e-03	6.070091e-05	1.105639e-04
## 846	3.112174e-02	-2.012850e-01	-2.624887e+00	-5.577279e-01	5.226103e-01
## 847	-3.527457e-01	2.065938e+00	-3.001975e+00	1.179650e-01	2.144335e-01
## 848	-1.043143e-05	6.068388e-05	-8.821843e-05	3.457856e-06	6.393444e-06
## 849	3.835228e-04	1.013582e-01	-2.619883e-01	-1.575842e-02	9.655653e-03
## 851	-3.474636e-03	2.033353e-02	-2.954714e-02	1.160890e-03	2.114190e-03
## 852	2.035632e-01	-1.170365e+00	-2.406284e+00	-9.332119e-01	7.390492e-01
## 855	-3.547319e-07	2.060753e-07	-4.039183e-07	-6.558435e-09	4.394696e-07
## 858	2.415043e-01	9.760598e-02	-6.033025e-02	1.983424e-02	-3.271096e-01
## 859	1.040070e-05	-4.717029e-05	-1.174128e-04	-3.752049e-05	2.656037e-05

## 860	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 862	-8.516052e-01	4.999532e+00	-7.264082e+00	2.855853e-01	5.162696e-01
## 863	-5.961266e-06	-2.436700e-06	-3.554742e-07	-8.439807e-07	8.425790e-06
## 864	-7.781049e-05	-3.082035e-05	1.850805e-05	-6.358398e-06	1.053265e-04
## 866	1.387679e-01	-8.379161e-01	-2.764726e+00	-7.940318e-01	6.553713e-01
## 867	-1.063863e-01	-4.222664e-02	2.549862e-02	-8.686038e-03	1.440049e-01
## 868	-4.431734e-04	2.593440e-03	-3.768604e-03	1.480630e-04	2.696581e-04
## 869	-1.232101e-04	5.226390e-04	-7.838451e-04	2.540389e-05	1.011553e-04
## 872	-1.026242e-06	3.059613e-06	-4.650731e-06	1.382941e-07	9.841873e-07
## 873	-2.936009e-04	1.718128e-03	-2.496659e-03	9.809081e-05	1.786490e-04
## 876	1.934135e-01	-1.118609e+00	-2.414254e+00	-9.012010e-01	7.157492e-01
## 877	-1.225773e-01	7.172563e-01	-1.051669e+00	3.918861e-02	7.633025e-02
## 878	-6.178069e-02	-2.362162e-02	1.899143e+00	6.712023e-02	3.998019e-02
## 879	-2.733808e-01	1.643987e+00	-6.452300e+00	-6.669928e-01	9.128736e-01
## 880	8.677085e-04	-1.961595e-02	-2.180341e+00	-4.146921e-01	4.094970e-01
## 881	-1.094336e-04	-1.604300e-05	-1.226471e-05	-7.143358e-06	1.448939e-04
## 886	-2.024897e-01	1.932850e+00	-2.765956e+00	1.174573e-01	3.402059e-02
## 887	7.001799e-02	-3.194469e-01	-2.410383e+00	-5.565303e-01	4.790663e-01
## 888	-4.660685e-08	2.727352e-07	-3.974617e-07	1.535699e-08	2.857085e-08
## 890	-2.848514e-04	1.666925e-03	-2.422255e-03	9.516761e-05	1.733253e-04
## 892	3.791849e+00	6.215762e+00	-7.500027e+00	6.229887e-01	-5.694367e+00
## 893	-1.953717e-10	1.202003e-09	-1.013810e-09	9.603569e-11	9.616595e-11
## 895	-2.348025e-02	1.334224e-01	-1.937210e-01	7.594068e-03	1.475330e-02
## 897	-1.671978e-01	9.784393e-01	-1.421794e+00	5.586130e-02	1.017339e-01
## 898	-6.328316e-02	2.641284e-02	-5.693354e-02	-1.738381e-03	7.951557e-02
## 899	-2.765763e-02	1.156250e-01	-1.705112e-01	6.164959e-03	2.234094e-02
## 902	-5.488501e-07	2.845602e-06	-4.156605e-06	1.586613e-07	3.779690e-07
## 903	-1.766878e-02	1.021130e-01	-1.484426e-01	5.818114e-03	1.090376e-02
## 904	-5.185708e-02	3.040803e-01	-4.525623e-01	1.535758e-02	3.346390e-02
## 905	-1.346822e-02	1.168226e-01	-4.244345e+00	-7.562762e-01	7.574712e-01
## 906	1.305286e-01	-4.743507e-01	-1.805765e+00	-4.944442e-01	3.503036e-01
## 907	-3.315223e-02	2.655378e-01	6.332662e-01	5.466070e-02	-1.180257e-02
## 909	-1.584347e-04	-1.340983e-05	-3.132776e-05	-9.658088e-06	2.085721e-04
## 911	-1.787155e-06	7.902425e-06	-1.168284e-05	4.154790e-07	1.403622e-06

## 912	2.645277e-02	-1.587209e-01	-3.673069e-01	-1.210182e-01	9.489888e-02
## 913	-4.062825e-04	2.377558e-03	-3.454892e-03	1.357396e-04	2.472093e-04
## 914	-8.130778e-05	4.757522e-04	-6.913372e-04	2.715997e-05	4.948126e-05
## 915	-2.509117e-02	1.329167e-01	-2.302300e+00	-3.873180e-01	4.067902e-01
## 917	-1.233946e-04	2.468365e-04	-3.880861e-04	8.901509e-06	1.324496e-04
## 919	-3.796762e-04	8.730772e-04	-1.341981e-03	3.701487e-05	3.919509e-04
## 921	-6.899363e-05	4.036691e-04	-5.865949e-04	2.304394e-05	4.199146e-05
## 922	-1.207316e-01	-4.769467e-02	2.863296e-02	-9.841839e-03	1.633956e-01
## 923	2.071441e-02	-1.539170e-02	1.355465e+00	5.088156e-02	-5.587585e-02
## 924	-3.098316e-04	1.813115e-03	-2.634687e-03	1.035139e-04	1.885241e-04
## 925	-1.614225e-02	9.430578e-02	-1.612160e-01	8.571895e-04	1.431003e-02
## 927	-4.185222e-04	2.449096e-03	-3.558902e-03	1.398134e-04	2.546768e-04
## 928	-9.029350e-02	6.158651e-01	2.069054e-01	7.794216e-02	1.917535e-02
## 929	1.543775e-01	-9.057048e-01	-2.105268e+00	-6.923203e-01	5.389601e-01
## 932	-1.554921e-02	9.232421e-02	-1.358814e-01	4.947540e-03	9.634338e-03
## 933	-2.571150e-04	1.504837e-03	-2.184153e-03	8.601414e-05	1.563621e-04
## 935	-7.254275e-04	5.318025e-04	-9.734433e-04	-4.755945e-06	8.842583e-04
## 936	2.404876e-06	-4.448088e-06	-2.917412e-05	-6.933678e-06	4.075385e-06
## 937	-2.993619e-04	1.751837e-03	-2.545645e-03	1.000152e-04	1.821550e-04
## 939	-4.228518e-02	2.528559e-01	-2.988149e-01	1.709992e-02	2.350696e-02
## 940	-2.430234e-07	1.911234e-07	-3.458656e-07	-1.032797e-09	2.949852e-07
## 941	-6.546019e-04	3.819355e-03	-5.651405e-03	1.990762e-04	4.182948e-04
## 942	2.053864e-01	-2.514181e-01	1.195178e+01	3.729464e-01	-4.364884e-01
## 946	-2.198881e-04	1.262273e-03	-5.572063e-03	-6.277829e-04	8.276303e-04
## 947	4.821560e-01	-1.223864e+00	1.836650e+01	1.890967e-03	-2.411644e-01
## 949	-1.558779e-01	9.074959e-01	-2.031550e+00	-8.165808e-02	2.271713e-01
## 950	-3.910622e-04	2.288489e-03	-3.325462e-03	1.306544e-04	2.379482e-04
## 952	-3.114923e-02	1.822368e-01	-2.606721e-01	1.056231e-02	1.886324e-02
## 957	-5.899705e-04	3.452281e-03	-5.016930e-03	1.970359e-04	3.590620e-04
## 958	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 960	3.956892e-01	-2.969165e-01	2.585212e+01	9.687975e-01	-1.064607e+00
## 961	-1.296395e-01	6.429280e-01	-9.387555e-01	3.564147e-02	9.268208e-02
## 962	-6.383642e-02	3.735198e-01	-5.504159e-01	1.989367e-02	4.026132e-02
## 963	-1.673020e+00	1.151043e+01	-1.660370e+01	6.729395e-01	8.139199e-01

## 964	-5.823795e-01	3.408622e+00	-4.953125e+00	1.946108e-01	3.542926e-01
## 965	-1.398796e-04	5.037344e-04	-7.582527e-04	2.404988e-05	1.243702e-04
## 966	-1.290228e-11	7.441968e-11	-2.735602e-10	-2.672343e-11	3.855666e-11
## 967	1.218663e-05	-7.482846e-05	-4.270917e-04	-1.045973e-04	9.204803e-05
## 968	-1.004099e-05	5.868948e-05	-8.528960e-05	3.349550e-06	6.118465e-06
## 969	2.980789e+00	1.705831e+00	-1.445801e+00	2.781442e-01	-4.097133e+00
## 971	-3.620721e-02	2.270870e-01	-6.379245e-01	-4.470323e-02	7.731038e-02
## 975	2.349429e+00	1.105905e+01	-1.473824e+01	8.643750e-01	-4.386548e+00
## 977	1.848023e-02	-1.156933e-01	-1.022246e+00	-2.294823e-01	2.096893e-01
## 978	2.040065e-01	-2.201240e-01	-2.273516e+00	-4.987930e-01	2.490133e-01
## 979	-1.107328e-01	6.534854e-01	-1.295637e+00	-2.748705e-02	1.307647e-01
## 981	6.549876e-02	-3.888310e-01	-4.045680e-01	-2.037398e-01	1.400366e-01
## 982	7.524714e+00	-4.393449e+01	6.832560e+01	-1.577504e+00	-5.517758e+00
## 983	7.765456e-02	-4.882509e-01	-4.430970e+00	-9.903462e-01	9.069639e-01
## 984	-1.204263e+00	7.398119e+00	-6.334483e+00	5.938345e-01	5.893850e-01
## 985	-6.475893e-02	-2.553689e-02	1.528764e-02	-5.276210e-03	8.763800e-02
## 988	-1.962694e-04	1.148543e-03	-1.668980e-03	6.557212e-05	1.194262e-04
## 989	-2.517492e-02	1.771127e-01	-2.562235e-01	1.030613e-02	1.185162e-02
## 990	-2.266082e-04	1.326075e-03	-1.926961e-03	7.570713e-05	1.378881e-04
## 991	-6.137826e-07	1.450150e-06	-2.222780e-06	6.257643e-08	6.288475e-07
## 992	-9.301617e-02	2.247527e-02	-6.081029e-02	-3.642763e-03	1.188246e-01
## 993	7.184574e-02	-3.991247e-02	-7.810782e-01	-1.596378e-01	6.985771e-02
## 994	-4.537096e-02	2.656921e-01	-3.862124e-01	1.514477e-02	2.761052e-02
## 995	1.614365e-04	-9.870345e-04	-3.855767e-03	-1.046827e-03	8.845745e-04
## 996	5.287720e+00	3.680291e+00	-3.480183e+00	5.369381e-01	-7.346055e+00
## 997	-3.662952e-02	2.908265e-01	6.968324e-01	5.997709e-02	-1.258611e-02
## 999	-1.847498e-01	1.079359e+00	-1.840060e+00	1.076703e-02	1.628342e-01
## 1000	-9.224862e-02	5.276588e-01	-2.599795e+00	-3.130830e-01	3.964071e-01
## 1001	5.320154e-05	2.037735e-04	6.192582e-03	2.635705e-04	-2.429915e-04
## 1002	-1.128305e-01	5.378952e-01	-7.882628e-01	2.954843e-02	8.325312e-02
## 1004	-2.569021e-04	1.503365e-03	-2.184581e-03	8.582953e-05	1.563193e-04
## 1006	-2.320675e-07	5.894420e-07	-8.996897e-07	2.608006e-08	2.331702e-07
## 1007	-3.439642e-04	2.012866e-03	-2.924950e-03	1.149182e-04	2.092918e-04
## 1008	1.514605e-02	1.973301e-02	-2.283064e-02	2.149157e-03	-2.213757e-02

##	1009	1.095193e-02	1.499240e-03	8.255462e-01	3.222283e-02	-3.351737e-02
##	1010	2.740650e-04	4.714292e-04	-5.990498e-04	4.164250e-05	-4.094175e-04
##	1011	-9.928215e-02	5.810052e-01	-8.457935e-01	3.288620e-02	6.069002e-02
##	1012	-7.762663e-02	4.272377e-01	-6.222901e-01	2.413638e-02	5.045689e-02
##	1013	1.257114e-01	-7.509831e-01	-2.222528e+00	-6.763855e-01	5.521069e-01
##	1014	-4.459973e-02	-1.560445e-02	7.754190e-03	-3.501815e-03	6.012018e-02
##	1016	-2.846179e-05	1.191687e-04	-1.808199e-04	5.402034e-06	2.391123e-05
##	1017	-2.150739e-02	-5.723384e-01	-1.201699e+00	-4.129417e-01	4.653681e-01
##	1018	1.270289e-03	2.312124e-03	-2.835670e-03	2.236994e-04	-1.934755e-03
##	1020	-4.270257e-04	2.498217e-03	-3.631350e-03	1.424180e-04	2.601187e-04
##	1023	9.794032e-02	5.537719e-02	-4.656580e-02	9.094242e-03	-1.345400e-01
##	1024	-9.618556e-06	-3.630048e-06	2.027433e-06	-7.756881e-07	1.300015e-05
##	1025	-4.123635e-03	1.082271e-01	9.020441e-01	4.730891e-02	-3.187595e-02
##	1032	4.461660e-01	-2.540637e-01	-1.506447e+00	-3.672546e-01	-1.821880e-01
##	1033	-1.062860e-01	6.004194e-01	-8.736473e-01	3.407577e-02	6.724266e-02
##	1034	1.221748e-05	-2.525329e-06	-2.389242e-05	-5.350457e-06	-9.873800e-06
##	1035	2.180332e-03	1.610664e-03	1.786943e-01	7.120990e-03	-7.202781e-03
##	1039	1.444260e-06	-8.158351e-06	1.397284e-05	-6.945038e-08	-1.302433e-06
##	1041	-4.546971e-04	2.660798e-03	-3.866530e-03	1.519000e-04	2.766870e-04
##	1044	5.891753e-02	1.985892e-02	-5.145321e-01	-9.004440e-02	1.411253e-02
##	1045	-8.788551e-07	1.850677e-07	-5.562316e-07	-3.995082e-08	1.129628e-06
##	1046	3.463267e+00	7.299371e+00	-9.120006e+00	6.769159e-01	-5.394347e+00
##	1049	-9.661896e-02	5.919008e-01	4.666442e-01	8.454093e-02	2.522613e-02
##	1050	1.757742e-07	-1.225999e-07	1.159116e-05	4.361331e-07	-4.774131e-07
##	1051	-2.266104e-02	1.333637e-01	-1.950203e-01	7.383944e-03	1.393306e-02
##	1055	3.117512e-02	-3.077085e-01	-7.128896e-01	-2.346872e-01	2.092194e-01
##	1056	1.015515e+00	9.243274e-01	-9.727361e-01	1.175901e-01	-1.436758e+00
##	1057	5.898645e-02	-3.379298e-01	-2.767260e+00	-6.293807e-01	5.658084e-01
##	1058	-2.555292e-05	-1.441247e-08	-8.136608e-06	-1.429360e-06	3.339751e-05
##	1059	9.837201e-01	7.566716e-01	-7.481885e-01	1.046801e-01	-1.375234e+00
##	1061	1.443850e-02	7.921108e-03	-6.525529e-03	1.324488e-03	-1.980509e-02
##	1062	-1.306145e+00	7.643623e+00	-1.111187e+01	4.355047e-01	7.956101e-01
##	1063	-6.206305e-02	3.479666e-01	-2.810801e+00	-4.117394e-01	4.656727e-01
##	1064	5.246015e-09	2.367146e-09	4.130773e-07	1.630457e-08	-1.670920e-08

##	1065	-1.798910e-02	9.817019e-02	-1.226068e+00	-1.972477e-01	2.120551e-01
##	1066	-3.233285e-04	1.892132e-03	-2.749285e-03	1.080346e-04	1.967267e-04
##	1067	-8.039571e-05	4.187921e-04	-6.238259e-04	2.108507e-05	5.738852e-05
##	1070	-4.369562e-05	2.555514e-04	-3.713724e-04	1.458555e-05	2.660866e-05
##	1074	1.228861e-02	2.651463e-02	-3.322286e-02	2.442234e-03	-1.921335e-02
##	1075	-1.082380e-02	-4.374530e-03	2.703896e-03	-8.889361e-04	1.466048e-02
##	1080	2.592692e-01	-1.555657e+00	-3.600150e+00	-1.186143e+00	9.301423e-01
##	1081	-8.679304e-02	5.065193e-01	-1.193098e+00	-5.666050e-02	1.374777e-01
##	1082	2.813278e-03	-1.976352e-03	1.853600e-01	6.972641e-03	-7.635271e-03
##	1086	4.810896e+00	2.123089e+00	-1.451880e+00	4.069997e-01	-6.537511e+00
##	1087	1.065848e-01	2.830069e-01	1.101073e+01	4.596394e-01	-4.356061e-01
##	1088	-4.385946e-03	2.566651e-02	-3.729662e-02	1.465362e-03	2.668689e-03
##	1091	-3.620468e-04	2.118651e-03	-3.078682e-03	1.209554e-04	2.203003e-04
##	1092	-1.784399e-04	1.044192e-03	-1.517349e-03	5.961387e-05	1.085797e-04
##	1093	-1.564363e-01	-4.154110e-02	8.739665e-03	-1.140511e-02	2.093021e-01
##	1095	-1.474126e-04	8.626122e-04	-1.253492e-03	4.924677e-05	8.970192e-05
##	1096	5.935258e-02	3.619673e-01	-4.877574e-01	2.735404e-02	-1.206862e-01
##	1098	-7.881309e-05	-1.957170e-06	-2.217099e-05	-4.489298e-06	1.031903e-04
##	1099	-7.289517e-05	4.263299e-04	-6.195717e-04	2.432884e-05	4.439295e-05
##	1100	-1.691234e-01	9.897033e-01	-1.443019e+00	5.559506e-02	1.038041e-01
##	1102	-7.709262e-07	4.096785e-06	-5.978375e-06	2.294439e-07	5.190573e-07
##	1104	-1.632457e-01	9.770610e-01	-1.103654e+00	6.803260e-02	8.946257e-02
##	1105	-3.277446e-02	1.935112e-01	-2.588927e-01	1.191343e-02	1.922477e-02
##	1107	5.723533e-01	1.018312e+00	-1.244134e+00	9.936370e-02	-8.690747e-01
##	1108	2.542199e-01	-1.967983e-01	1.652063e+01	6.148354e-01	-6.772444e-01
##	1110	-2.546559e-01	1.488524e+00	-2.671533e+00	-1.023087e-02	2.491676e-01
##	1111	2.031489e-02	-1.219042e-01	-2.839485e-01	-9.329208e-02	7.322951e-02
##	1112	-1.476750e-04	8.641605e-04	-1.255739e-03	4.933581e-05	8.985957e-05
##	1113	-2.921562e-01	2.322423e+00	-2.784085e+00	1.596296e-01	9.190328e-02
##	1114	2.002516e-01	2.087880e-01	-2.289217e-01	2.495167e-02	-2.864790e-01
##	1115	-4.112734e-01	1.311415e+01	-1.853364e+01	8.395353e-01	-1.016413e+00
##	1117	-1.077857e-01	-2.010178e-03	-3.121319e-02	-6.087668e-03	1.410373e-01
##	1118	-3.408468e-11	1.986318e-10	-4.155511e-10	-1.242345e-11	4.429896e-11
##	1119	-7.026678e-06	4.030929e-05	-5.861813e-05	2.293701e-06	4.372155e-06

##	1121	-5.393697e-01	3.155351e+00	-6.286703e+00	-1.384557e-01	6.429390e-01
##	1122	7.118448e-03	-5.328248e-02	-1.695708e+00	-3.350478e-01	3.248232e-01
##	1127	5.914918e-02	-2.440404e-01	-1.978375e+00	-4.508275e-01	3.842462e-01
##	1129	1.523553e-07	-1.278431e-06	-2.892041e-06	-9.620721e-07	8.278426e-07
##	1130	5.646483e-03	2.816458e-03	-2.161566e-03	4.986663e-04	-7.711083e-03
##	1131	-4.108479e-03	2.518879e-01	2.522261e+00	1.265138e-01	-9.108248e-02
##	1132	7.596805e-04	-4.699825e-03	-1.963740e-02	-5.223773e-03	4.459500e-03
##	1134	-3.699795e-06	3.268851e-05	8.708530e-04	3.629245e-05	-1.941704e-05
##	1135	-1.546700e-04	9.048565e-04	-1.314982e-03	5.163943e-05	9.416152e-05
##	1136	3.247833e-02	1.984080e-02	-1.750854e-02	3.114015e-03	-4.479139e-02
##	1137	-3.103456e-02	2.074578e-01	-1.151129e+00	-1.472633e-01	1.731707e-01
##	1138	-2.102655e-02	1.227415e-01	-2.274329e-01	-2.180788e-03	2.190156e-02
##	1141	3.775413e-02	1.970199e-02	-1.564888e-02	3.396201e-03	-5.166646e-02
##	1142	-4.972017e-04	2.852712e-03	-1.282431e-02	-1.462132e-03	1.913568e-03
##	1143	3.972541e-02	-4.583848e-01	-4.149306e+00	-9.276496e-01	8.909251e-01
##	1144	1.178401e+00	8.338081e-01	-7.946593e-01	1.205661e-01	-1.638738e+00
##	1145	-1.002277e-01	5.865307e-01	-8.523019e-01	3.348643e-02	6.098497e-02
##	1146	-5.524004e-03	3.230026e-02	-7.716533e-02	-4.166443e-03	9.334313e-03
##	1147	-1.981841e-05	-7.955888e-06	4.270830e-06	-1.737266e-06	2.694875e-05
##	1148	1.546433e-01	-2.269816e-01	-1.420124e+00	-3.410668e-01	1.554055e-01
##	1150	-4.693762e-04	2.746077e-03	-3.991603e-03	1.565535e-04	2.858999e-04
##	1152	-9.687411e-05	5.667299e-04	-8.235748e-04	3.234747e-05	5.897214e-05
##	1153	-6.501519e-02	3.762206e-01	-5.469260e-01	2.143893e-02	4.006618e-02
##	1156	-8.386472e-03	4.907743e-02	-7.131560e-02	2.801947e-03	5.102875e-03
##	1157	-3.460500e-03	9.918402e-03	-1.497161e-02	4.684415e-04	3.337947e-03
##	1158	-8.876891e-04	-3.587714e-04	2.217444e-04	-7.290726e-05	1.202349e-03
##	1159	6.622408e-01	1.209334e-01	-6.323930e-01	-8.124252e-02	-7.551845e-01
##	1160	1.554813e-02	2.460544e-02	-2.951981e-02	2.495785e-03	-2.324404e-02
##	1161	-1.843243e-01	1.474530e+00	-2.121320e+00	8.792112e-02	6.495033e-02
##	1163	1.638847e-01	-2.759357e-01	-1.849019e+00	-4.374904e-01	2.416828e-01
##	1166	-4.478694e-05	-1.811258e-05	1.116361e-05	-3.686666e-06	6.067135e-05
##	1167	-1.080725e-04	-2.248404e-05	-2.932174e-06	-7.517172e-06	1.439042e-04
##	1168	-1.000588e+00	5.952137e+00	-8.643979e+00	3.407341e-01	5.972898e-01
##	1169	-1.820818e-04	1.065513e-03	-1.548329e-03	6.083161e-05	1.107942e-04

##	1172	-4.741773e-07	2.775146e-06	-4.032735e-06	1.584202e-07	2.885096e-07
##	1175	-1.016273e-04	-3.942889e-05	2.302514e-05	-8.248488e-06	1.374660e-04
##	1176	-7.125098e-04	4.169568e-03	-6.058941e-03	2.380429e-04	4.335473e-04
##	1177	-3.334672e-04	1.951458e-03	-2.835561e-03	1.114191e-04	2.028979e-04
##	1178	-6.472046e-05	1.058200e-04	-1.703369e-04	3.119910e-06	7.226542e-05
##	1179	7.932374e-04	-4.987048e-03	-4.538086e-02	-1.013843e-02	9.286390e-03
##	1181	-1.675623e-01	1.102985e+00	-1.752385e+00	3.487799e-02	1.162444e-01
##	1182	-2.262316e-04	1.323858e-03	-1.923744e-03	7.557964e-05	1.376614e-04
##	1184	-4.828624e-07	7.183046e-07	-1.157467e-06	2.111737e-08	5.450976e-07
##	1185	-2.337809e-02	-9.448204e-03	5.839741e-03	-1.919977e-03	3.166482e-02
##	1186	1.653297e-06	-1.004537e-05	-4.189330e-05	-1.115048e-05	9.480106e-06
##	1187	-3.274859e-05	1.915632e-04	-2.783747e-04	1.093506e-05	1.993696e-05
##	1188	3.240966e-02	-1.254560e-01	-2.748894e+00	-5.560388e-01	5.152700e-01
##	1189	1.384169e+00	1.394271e+01	-1.907140e+01	1.004091e+00	-3.470676e+00
##	1190	-3.457623e-02	2.829076e-01	6.171772e-01	5.606899e-02	-1.221371e-02
##	1191	-5.437480e-06	3.133360e-05	-1.265001e-04	-1.346085e-05	1.843085e-05
##	1194	-2.539331e-05	7.226420e-05	-1.102913e-04	3.187114e-06	2.476893e-05
##	1195	-2.064638e-02	1.202191e-01	-1.747367e-01	6.855857e-03	1.263653e-02
##	1197	1.526465e-06	-1.131176e-06	9.991949e-05	3.751174e-06	-4.118789e-06
##	1198	1.124525e-04	1.180224e-03	2.152067e-02	9.695086e-04	-8.219032e-04
##	1201	-9.785054e-01	5.767080e+00	-8.378081e+00	3.296416e-01	5.905112e-01
##	1203	1.170058e-02	-7.020538e-02	-1.624667e-01	-5.352866e-02	4.197557e-02
##	1205	-8.185741e-07	2.765511e-06	-4.148485e-06	1.349144e-07	7.433282e-07
##	1206	-5.663450e-02	3.336878e-01	-6.134352e-01	-5.019152e-03	5.798197e-02
##	1207	-6.524247e-04	3.816558e-03	-5.551623e-03	2.168317e-04	3.981847e-04
##	1208	-3.958354e-04	2.316370e-03	-3.366001e-03	1.322417e-04	2.408628e-04
##	1211	-9.785531e-02	5.617572e-01	-8.171208e-01	3.192612e-02	6.088266e-02
##	1212	-1.623949e-03	7.488749e-03	-1.099101e-02	4.084877e-04	1.228385e-03
##	1216	-2.571150e-04	1.504837e-03	-2.184153e-03	8.601414e-05	1.563621e-04
##	1217	-9.278837e-07	5.090799e-06	-7.418397e-06	2.869690e-07	6.054962e-07
##	1218	-7.541299e-06	4.413159e-05	-6.412901e-05	2.519516e-06	4.588668e-06
##	1219	4.093895e-04	5.661405e-04	-6.636851e-04	6.013267e-05	-6.021373e-04
##	1220	-3.253208e-02	1.926875e-01	-3.044748e-01	6.416603e-03	2.406801e-02
##	1221	1.682944e-02	-1.248128e-02	1.101513e+00	4.135173e-02	-4.540608e-02

## 1224	7.083581e-01	8.755632e-01	-1.001460e+00	9.738055e-02	-1.029714e+00
## 1225	6.587909e-02	2.970105e-03	4.889857e+00	1.901957e-01	-1.989441e-01
## 1226	8.781915e-04	-5.133416e-04	5.901630e-02	2.233158e-03	-2.425781e-03
## 1227	-1.367949e-06	7.429463e-06	-1.082699e-05	4.187310e-07	9.010029e-07
## 1229	-1.094020e-01	6.404470e-01	-9.306367e-01	3.656678e-02	6.654000e-02
## 1230	-3.872354e-02	-1.565044e-02	9.673536e-03	-3.180283e-03	5.244975e-02
## 1231	1.223589e-02	1.735163e-02	-2.041574e-02	1.830267e-03	-1.805243e-02
## 1233	1.063464e-07	-7.145856e-08	7.043108e-06	2.653484e-07	-2.899506e-07
## 1234	2.115955e-01	-7.025364e-01	-2.337690e+00	-6.693168e-01	4.337443e-01
## 1235	-6.966194e-04	4.069952e-03	-5.974294e-03	2.211053e-04	4.357173e-04
## 1236	1.202999e+00	9.811394e+00	-8.180770e+00	9.167801e-01	-2.860662e+00
## 1238	1.084356e-05	-1.453119e-05	-4.668459e-05	-1.355679e-05	5.929914e-07
## 1242	-3.430867e-04	2.007571e-03	-2.917289e-03	1.146098e-04	2.087814e-04
## 1247	-2.754513e-04	1.611918e-03	-2.342322e-03	9.202727e-05	1.676053e-04
## 1249	9.589991e-04	-5.824725e-03	-2.393764e-02	-6.399258e-03	5.431096e-03
## 1251	-1.249921e-03	7.314525e-03	-1.062891e-02	4.176037e-04	7.605317e-04
## 1252	-2.041550e-01	1.206396e+00	-1.833657e+00	3.355126e-02	1.598135e-01
## 1253	-8.491042e-02	4.619077e-01	-6.731154e-01	2.603765e-02	5.584035e-02
## 1256	-6.492334e-04	3.798807e-03	-5.521444e-03	2.166388e-04	3.953309e-04
## 1258	6.114300e-01	1.828410e+00	-2.365332e+00	1.554080e-01	-1.016707e+00
## 1259	-4.867151e-05	2.847532e-04	-4.137916e-04	1.625545e-05	2.962452e-05
## 1263	-1.048921e-01	-1.777311e-02	-8.244550e-03	-6.976563e-03	1.391371e-01
## 1264	-8.406965e-05	2.613853e-04	-3.934625e-04	1.252216e-05	7.887111e-05
## 1265	8.306257e-01	1.203927e+00	-1.422309e+00	1.259800e-01	-1.228583e+00
## 1266	6.319359e-03	3.910481e-03	-3.477056e-03	6.091522e-04	-8.721021e-03
## 1269	-7.062078e-04	4.132720e-03	-6.005354e-03	2.359468e-04	4.297018e-04
## 1270	-3.043065e-04	1.780772e-03	-2.587691e-03	1.016670e-04	1.851638e-04
## 1271	3.504856e-06	1.065693e-04	-1.484863e-04	7.193399e-06	-1.719666e-05
## 1272	5.172125e-02	-3.860156e-02	3.382524e+00	1.269517e-01	-1.394452e-01
## 1273	-2.791420e-04	1.633474e-03	-2.373652e-03	9.325674e-05	1.698568e-04
## 1274	-9.572905e-02	6.176179e-01	-1.742602e-01	6.334160e-02	3.477239e-02
## 1276	-2.262316e-04	1.323858e-03	-1.923744e-03	7.557964e-05	1.376614e-04
## 1282	4.639201e+00	1.875170e+00	-1.159197e+00	3.810211e-01	-6.283668e+00
## 1283	4.231724e-03	-2.539104e-02	-5.876010e-02	-1.935981e-02	1.518143e-02

## 1284	-3.484445e-02	2.412589e-01	1.208361e-01	3.207691e-02	5.908642e-03
## 1285	2.761888e-02	1.300972e-02	-9.484484e-03	2.391134e-03	-3.762909e-02
## 1286	-3.508175e-02	2.080832e-01	-2.662218e-01	1.328281e-02	2.018266e-02
## 1287	7.142361e-07	-5.244991e-07	4.680581e-05	1.757791e-06	-1.929143e-06
## 1288	7.021186e-01	5.513288e-01	-5.497711e-01	7.546341e-02	-9.828999e-01
## 1289	2.830255e-02	-1.723492e-01	-7.743046e-01	-2.017082e-01	1.729992e-01
## 1290	4.181760e-05	1.494954e-04	4.748547e-03	2.013415e-04	-1.866316e-04
## 1291	1.491593e-02	1.390934e-02	-1.475421e-02	1.749122e-03	-2.114266e-02
## 1293	-1.148333e-03	2.209137e-03	-3.454352e-03	8.338305e-05	1.236773e-03
## 1294	-3.777819e-02	2.209618e-01	-3.417386e-01	8.748144e-03	2.681836e-02
## 1296	-1.250250e-01	7.193459e-01	-2.906367e+00	-3.073868e-01	4.215459e-01
## 1298	1.160635e-01	-7.009749e-01	-2.276292e+00	-6.569380e-01	5.410154e-01
## 1299	-3.682050e-11	2.152997e-10	-3.418021e-10	6.839342e-12	2.781106e-11
## 1301	4.162405e-01	-3.928274e-01	-1.652919e+00	-4.401496e-01	-6.531220e-02
## 1302	-2.151377e-04	1.258132e-03	-1.828931e-03	7.169778e-05	1.311274e-04
## 1304	-6.648425e-01	3.890746e+00	-5.653899e+00	2.221017e-01	4.045520e-01
## 1305	-3.751567e-04	2.195354e-03	-3.190147e-03	1.253333e-04	2.282802e-04
## 1306	-4.344468e-05	2.345492e-05	-4.663284e-05	-8.581562e-07	5.397240e-05
## 1308	-1.012919e+00	5.986067e+00	-8.695353e+00	3.423088e-01	6.093529e-01
## 1309	-1.405480e-01	8.158438e-01	-2.169886e+00	-1.377282e-01	2.682621e-01
## 1311	5.979831e-02	-2.049298e-01	-2.188314e+00	-4.772906e-01	4.074735e-01
## 1312	1.936531e-05	-1.161773e-04	-3.132077e-04	-9.751260e-05	7.834128e-05
## 1315	-2.157265e-04	1.262053e-03	-1.834000e-03	7.203902e-05	1.313174e-04
## 1317	1.937254e+00	4.598061e+00	-5.822087e+00	4.129045e-01	-3.078849e+00
## 1318	1.483163e-08	-4.335555e-09	1.044993e-06	4.007820e-08	-4.273630e-08
## 1320	-3.350674e-04	1.960777e-03	-2.849264e-03	1.119431e-04	2.038824e-04
## 1321	1.217242e-08	-2.437619e-09	8.701174e-07	3.350401e-08	-3.553168e-08
## 1323	-1.753569e+00	1.082830e+01	-1.619946e+01	5.308485e-01	1.090997e+00
## 1324	1.352200e-02	-8.112598e-02	-1.877493e-01	-6.185715e-02	4.850521e-02
## 1325	-2.764711e-02	1.541312e-01	-1.412476e+00	-2.137293e-01	2.374247e-01
## 1326	-7.049930e-02	7.076491e-04	-2.324535e-02	-3.847199e-03	9.200700e-02
## 1327	-1.797879e-04	-7.266295e-05	4.491248e-05	-1.476573e-05	2.435169e-04
## 1328	-1.147511e-03	2.529806e-03	-3.902617e-03	1.047910e-04	1.197434e-03
## 1329	5.074697e-01	6.222119e+00	-8.546386e+00	4.418649e-01	-1.404707e+00

## 1330	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 1331	4.078712e-02	2.968466e-01	-4.025015e-01	2.199610e-02	-8.866955e-02
## 1332	-1.675852e-04	9.806393e-04	-1.425005e-03	5.598447e-05	1.019794e-04
## 1334	-2.863922e-04	1.676029e-03	-2.434660e-03	9.572011e-05	1.742328e-04
## 1335	-1.027533e-01	6.013473e-01	-8.738303e-01	3.433267e-02	6.251739e-02
## 1340	-1.103484e-01	6.444254e-01	-1.138663e+00	-1.073137e-03	1.046833e-01
## 1341	-3.230829e-02	1.887375e-01	-2.704146e-01	1.092005e-02	1.960861e-02
## 1343	-4.844474e-06	3.240195e-06	-6.062920e-06	-5.202623e-08	5.941838e-06
## 1347	-3.009305e-05	1.760101e-04	-2.557756e-04	1.004683e-05	1.832286e-05
## 1348	-3.020517e-02	2.618489e-01	7.887194e-01	6.028986e-02	-1.866144e-02
## 1350	6.515928e-09	1.503071e-09	4.970600e-07	1.946708e-08	-2.016697e-08
## 1352	-2.640582e-01	1.538855e+00	-5.136203e+00	-4.551417e-01	6.976177e-01
## 1354	-1.098587e-01	-1.598626e-02	-1.231253e-02	-7.132028e-03	1.454117e-01
## 1355	1.143632e-01	-4.657687e-01	-2.188361e+00	-5.631993e-01	4.379784e-01
## 1356	1.509760e-03	-9.050349e-03	-2.094910e-02	-6.901477e-03	5.410364e-03
## 1357	-2.128013e-04	1.245294e-03	-1.809573e-03	7.109567e-05	1.294848e-04
## 1358	-8.249614e-05	4.825960e-04	-7.013116e-04	2.754524e-05	5.022187e-05
## 1359	1.938087e-02	2.178964e-01	-2.987946e-01	1.556076e-02	-5.129266e-02
## 1360	-2.399443e-02	1.376667e-01	-6.276688e-01	-7.220589e-02	9.397136e-02
## 1363	-4.387651e-04	2.567337e-03	-3.730781e-03	1.465527e-04	2.670293e-04
## 1364	1.465580e-05	-1.125309e-04	-2.147803e-03	-4.391764e-04	4.213925e-04
## 1368	-8.464160e-05	4.391149e-04	-8.028399e-04	-5.740591e-06	8.810706e-05
## 1369	-1.381693e-05	-5.575913e-06	3.378842e-06	-1.145649e-06	1.872489e-05
## 1370	-2.794691e-02	1.634427e-01	-2.357699e-01	9.396818e-03	1.697676e-02
## 1372	-2.850095e-02	1.651617e-01	-2.368018e-01	9.539801e-03	1.745974e-02
## 1374	-1.411539e-04	8.259204e-04	-1.200197e-03	4.714788e-05	8.590502e-05
## 1375	-9.731878e-05	-3.933319e-05	2.430910e-05	-7.993311e-06	1.318158e-04
## 1376	-6.972767e-04	4.079903e-03	-5.930715e-03	2.325368e-04	4.247180e-04
## 1377	7.050354e-02	6.633748e-02	-7.056378e-02	8.307635e-03	-1.000068e-01
## 1378	7.833056e-02	3.165780e-02	-1.956148e-02	6.433317e-03	-1.060962e-01
## 1379	-3.036575e-05	2.124634e-05	-3.933000e-05	-2.669313e-07	3.713559e-05
## 1383	-1.250601e-01	1.418193e+00	-2.018649e+00	8.762139e-02	-5.842352e-03
## 1384	-3.610130e-04	2.112562e-03	-3.069860e-03	1.206027e-04	2.196807e-04
## 1385	9.443089e-02	2.268158e-01	-2.875462e-01	2.030666e-02	-1.503988e-01

## 1386	-2.220869e-02	1.348835e-01	-8.740496e-01	-1.192591e-01	1.383530e-01
## 1387	-1.693406e+00	9.910136e+00	-1.442323e+01	5.615661e-01	1.034514e+00
## 1388	3.591698e-02	-1.397377e-01	-2.109692e+00	-4.410606e-01	3.980967e-01
## 1389	3.695738e-03	1.606472e-03	-1.081639e-03	3.109225e-04	-5.019102e-03
## 1390	6.463532e-04	-3.878184e-03	-8.974936e-03	-2.956988e-03	2.318780e-03
## 1391	2.343456e-01	-1.242666e+00	-1.031148e+00	-9.023150e-01	6.938399e-01
## 1393	-1.316651e+00	7.781385e+00	-1.367436e+01	1.005068e-03	1.230479e+00
## 1395	-8.739849e-03	8.767803e-02	-5.482722e-01	-7.382067e-02	7.914791e-02
## 1397	-3.634473e-04	2.126798e-03	-3.090532e-03	1.214182e-04	2.211602e-04
## 1399	4.843329e-07	-3.575545e-07	3.171865e-05	1.190955e-06	-1.307409e-06
## 1400	-1.052821e+00	6.168897e+00	-8.963758e+00	3.522694e-01	6.396743e-01
## 1403	-3.197993e-02	1.872433e-01	-2.609962e-01	1.111503e-02	1.919105e-02
## 1404	-6.960252e-04	4.073124e-03	-5.918765e-03	2.325424e-04	4.235089e-04
## 1405	-1.601578e-03	1.750195e-02	-2.501212e-02	1.072566e-03	8.467079e-06
## 1406	-3.204950e-02	1.875073e-01	-2.724739e-01	1.070480e-02	1.950645e-02
## 1408	5.371560e-02	-2.156188e-01	-2.264569e+00	-4.950564e-01	4.332044e-01
## 1409	8.679471e-02	-4.055046e-01	-2.415915e+00	-5.859021e-01	4.916804e-01
## 1410	-3.134027e-01	1.834186e+00	-2.665293e+00	1.047192e-01	1.906757e-01
## 1412	-1.172402e-01	6.729259e-01	-2.969390e+00	-3.344669e-01	4.410300e-01
## 1413	-1.074478e-06	4.970771e-06	-7.294195e-06	2.713611e-07	8.108312e-07
## 1414	-1.307265e-01	7.634080e-01	-1.352199e+00	-1.889324e-03	1.246268e-01
## 1415	4.123716e+00	4.471773e+00	-4.955095e+00	5.252925e-01	-5.919920e+00
## 1417	5.827211e+00	5.435467e+00	-5.765713e+00	6.835080e-01	-8.260065e+00
## 1418	1.580972e-02	-1.130442e-01	-2.956119e+00	-5.906981e-01	5.696121e-01
## 1420	5.900303e-02	7.055635e-02	-8.009795e-02	7.952914e-03	-8.548693e-02
## 1421	-1.518879e-01	-6.125862e-02	3.776387e-02	-1.246571e-02	2.057118e-01
## 1422	6.798072e-02	-1.605936e-01	-2.752248e+00	-5.683476e-01	4.847818e-01
## 1423	-2.520115e-03	1.200637e-02	-1.759486e-02	6.595535e-04	1.860324e-03
## 1424	-5.791917e-04	3.389423e-03	-4.925252e-03	1.935102e-04	3.524172e-04
## 1425	1.365611e-01	1.278223e+01	-1.784230e+01	8.576770e-01	-1.702280e+00
## 1426	-2.034854e-01	1.212738e+00	-2.062200e+00	1.306303e-02	1.768775e-01
## 1427	2.088680e-01	-1.229112e+00	-2.868591e+00	-9.899831e-01	7.867829e-01
## 1429	-2.754513e-04	1.611918e-03	-2.342322e-03	9.202727e-05	1.676053e-04
## 1430	3.469994e-02	-2.030602e-01	2.950720e-01	-1.159315e-02	-2.111407e-02

## 1431	6.820731e-04	3.311883e-03	-4.418796e-03	2.579857e-04	-1.285858e-03
## 1432	5.925574e-01	8.418889e-01	-9.909023e-01	8.874303e-02	-8.744305e-01
## 1434	-1.363418e-04	7.978185e-04	-1.159341e-03	4.554725e-05	8.296681e-05
## 1436	-1.333162e-04	5.500973e-04	-8.158399e-04	2.847272e-05	1.093046e-04
## 1437	2.130634e-05	-1.303204e-04	-3.158940e-04	-1.020419e-04	8.108003e-05
## 1438	-1.742164e-04	1.031138e-03	-1.344859e-03	6.482596e-05	1.010881e-04
## 1439	-9.415891e-02	5.405608e-01	-2.349087e+00	-2.618949e-01	3.475563e-01
## 1443	-3.931567e-04	2.300459e-03	-3.343136e-03	1.312857e-04	2.393057e-04
## 1445	-8.336049e-04	3.822380e-03	-5.611350e-03	2.082622e-04	6.331232e-04
## 1446	3.058404e-03	1.507965e-03	2.422824e-01	9.578271e-03	-9.796215e-03
## 1447	1.245871e-02	-8.940656e-02	-2.381845e+00	-4.753947e-01	4.586723e-01
## 1449	4.006496e+00	8.140600e+00	-1.012555e+01	7.628905e-01	-6.204263e+00
## 1450	-7.392781e-01	4.779468e+00	-6.991937e+00	2.638130e-01	4.089508e-01
## 1452	-1.152387e-02	2.539805e-01	1.981487e+00	1.057647e-01	-6.927911e-02
## 1454	1.892211e-03	-1.174468e-02	-8.537148e-02	-1.985044e-02	1.786376e-02
## 1455	3.611634e-04	-2.167482e-03	-5.082090e-03	-1.665008e-03	1.308263e-03
## 1456	-3.733810e-04	2.185025e-03	-3.175058e-03	1.247504e-04	2.271870e-04
## 1457	-1.019711e-04	5.181805e-04	-8.000712e-04	2.081890e-05	7.933663e-05
## 1458	-2.857688e-02	1.672188e-01	-2.390460e-01	9.697617e-03	1.729845e-02
## 1459	-5.748633e-04	3.363595e-03	-4.889570e-03	1.916899e-04	3.501797e-04
## 1462	-2.220366e-02	8.665795e-02	-1.273309e-01	4.574447e-03	1.864931e-02
## 1463	4.011909e-02	-1.699630e-01	-2.447274e+00	-5.142146e-01	4.666990e-01
## 1464	-9.751721e-05	5.659238e-04	-8.226135e-04	3.226515e-05	5.990158e-05
## 1465	-1.377299e-01	6.675421e-01	-9.777432e-01	3.675153e-02	1.003661e-01
## 1466	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 1468	3.684703e-02	-8.985398e-02	-2.922733e+00	-5.769097e-01	5.284208e-01
## 1470	7.790980e-01	3.251722e-01	-2.090308e-01	6.467015e-02	-1.056489e+00
## 1472	5.732591e-02	-2.624313e-01	-2.459345e+00	-5.469184e-01	4.824084e-01
## 1474	6.403057e-09	1.538674e-09	4.891332e-07	1.916285e-08	-1.984215e-08
## 1475	-4.721947e-04	2.757752e-03	-4.028697e-03	1.534543e-04	2.918635e-04
## 1477	-3.168584e-04	1.845183e-03	-2.708385e-03	1.002769e-04	1.987997e-04
## 1478	-1.655698e-01	9.680047e-01	-1.541041e+00	3.009944e-02	1.256961e-01
## 1479	-3.947815e-06	2.310256e-05	-3.357136e-05	1.318892e-06	2.402190e-06
## 1480	-7.355863e-05	4.304166e-04	-6.254558e-04	2.457219e-05	4.476429e-05

## 1481	9.074787e-01	9.506744e-01	-1.043698e+00	1.133767e-01	-1.298776e+00
## 1482	-5.109877e-02	2.990294e-01	-4.345268e-01	1.707230e-02	3.109175e-02
## 1483	-2.580794e-04	1.510205e-03	-2.194549e-03	8.621495e-05	1.570462e-04
## 1484	-8.303705e-01	4.841322e+00	-1.031061e+01	-3.368981e-01	1.112899e+00
## 1485	-1.012462e-01	5.924908e-01	-8.609629e-01	3.382668e-02	6.160478e-02
## 1486	2.310533e-03	-1.597462e-03	1.525218e-01	5.740640e-03	-6.281325e-03
## 1487	1.080103e-01	1.104519e-01	9.193470e+00	3.694926e-01	-3.693413e-01
## 1489	-2.242494e-01	1.312333e+00	-2.054476e+00	4.730764e-02	1.637176e-01
## 1494	-3.691653e-01	2.145160e+00	-6.825972e+00	-5.719465e-01	9.120730e-01
## 1496	-5.060859e-05	2.960509e-04	-4.302158e-04	1.689912e-05	3.080867e-05
## 1498	-3.330984e-04	1.947326e-03	-2.835409e-03	1.101110e-04	2.039472e-04
## 1500	-1.803357e+00	1.111107e+01	-1.666540e+01	5.366922e-01	1.132409e+00
## 1501	7.168849e-02	-3.454559e-01	-2.514198e+00	-5.845193e-01	5.060086e-01
## 1503	-3.858601e-04	2.257939e-03	-3.281107e-03	1.289035e-04	2.348014e-04
## 1504	-4.007773e-02	2.636873e-01	-1.565376e-02	2.932366e-02	1.245939e-02
## 1505	-2.033712e-05	1.148923e-04	-1.680706e-04	6.352890e-06	1.303133e-05
## 1507	2.352418e-04	-9.737042e-06	1.723258e-02	6.679851e-04	-7.020397e-04
## 1508	-3.549913e-02	2.215316e-01	-4.425444e-01	-9.948244e-03	4.239889e-02
## 1509	1.230907e-01	6.111906e-02	9.755686e+00	3.857217e-01	-3.944368e-01
## 1510	-3.484959e-02	2.027377e-01	-2.698579e-01	1.251220e-02	2.077509e-02
## 1511	2.007998e-01	2.713228e-01	-3.162429e-01	2.914307e-02	-2.946525e-01
## 1513	-2.456590e-01	1.427284e+00	-3.749156e+00	-2.321564e-01	4.603492e-01
## 1517	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 1518	1.613424e-02	-9.670672e-02	-2.235077e-01	-7.386580e-02	5.794703e-02
## 1519	5.738196e-02	2.546295e-01	-3.381745e-01	2.010755e-02	-1.053164e-01
## 1520	-1.938510e+00	1.139061e+01	-1.596781e+01	6.729990e-01	1.160539e+00
## 1521	1.004070e-02	-6.254341e-02	-5.368150e-01	-1.217711e-01	1.111028e-01
## 1522	2.476323e+00	3.185853e+00	-3.675907e+00	3.487392e-01	-3.614637e+00
## 1523	-3.086340e-05	1.601505e-04	-2.342012e-04	8.879307e-06	2.128922e-05
## 1525	3.851032e-02	-2.871239e-02	2.518868e+00	9.454102e-02	-1.038393e-01
## 1526	8.472244e-04	3.424103e-04	-2.116524e-04	6.957860e-05	-1.147535e-03
## 1527	-2.289549e-04	1.069653e-03	-1.576245e-03	5.714600e-05	1.728844e-04
## 1528	-8.310084e-05	4.862602e-04	-7.066034e-04	2.776045e-05	5.057008e-05
## 1529	-9.506119e-02	5.562182e-01	-8.084470e-01	3.171975e-02	5.788556e-02

## 1531	4.848728e-01	1.527082e+00	-1.983665e+00	1.283706e-01	-8.154586e-01
## 1532	-2.516951e-04	1.472873e-03	-2.140282e-03	8.408728e-05	1.531547e-04
## 1535	-2.736328e-04	1.601091e-03	-2.326660e-03	9.139600e-05	1.665321e-04
## 1536	7.708561e-03	1.900584e-02	-2.416257e-02	1.689660e-03	-1.233518e-02
## 1537	9.794032e-02	5.537719e-02	-4.656580e-02	9.094242e-03	-1.345400e-01
## 1538	-3.454884e-04	2.021788e-03	-2.937913e-03	1.154279e-04	2.102186e-04
## 1539	1.638367e-03	-1.266118e-02	-4.629507e-01	-9.101768e-02	8.852913e-02
## 1540	9.744249e-03	5.272363e-03	-4.301290e-03	8.889681e-04	-1.335728e-02
## 1542	9.115651e-02	-5.469655e-01	-1.267596e+00	-4.173824e-01	3.273714e-01
## 1543	-1.333162e-04	5.500973e-04	-8.158399e-04	2.847272e-05	1.093046e-04
## 1544	-1.012563e+00	5.975382e+00	-8.680283e+00	3.416191e-01	6.101608e-01
## 1548	6.282745e-02	-2.187183e-01	-1.662538e+00	-3.833862e-01	3.116840e-01
## 1551	-4.882159e-01	2.839407e+00	-6.816043e+00	-3.415582e-01	7.963998e-01
## 1553	9.450327e-02	-3.911796e-01	-2.230065e+00	-5.464276e-01	4.422811e-01
## 1556	-1.476428e-01	2.643715e-02	-8.359821e-02	-6.396667e-03	1.897094e-01
## 1558	-4.563684e-05	-1.830584e-05	1.116588e-05	-3.746443e-06	6.180458e-05
## 1559	3.368848e-02	8.868394e-02	3.471642e+00	1.448604e-01	-1.373694e-01
## 1560	-3.005759e-03	1.808796e-02	4.939520e-02	1.520244e-02	-1.221935e-02
## 1561	-3.692225e-02	2.285530e-01	-1.744239e-01	1.917077e-02	1.735160e-02
## 1562	-4.317934e-03	1.607115e-01	-2.263014e-01	1.044003e-02	-1.350967e-02
## 1563	1.739729e-05	-1.299881e-05	1.137605e-03	4.269434e-05	-4.689872e-05
## 1565	-4.803328e-05	2.796524e-04	-4.068480e-04	1.587740e-05	2.947207e-05
## 1566	-3.764466e-05	2.159319e-04	-3.155831e-04	1.199256e-05	2.371646e-05
## 1568	1.036041e+00	2.310754e+00	-2.906170e+00	2.109552e-01	-1.628882e+00
## 1569	1.986171e-05	-9.824131e-05	-2.338435e-04	-7.613490e-05	5.558613e-05
## 1570	1.136514e-01	-6.911957e-01	-2.966613e+00	-7.829799e-01	6.679858e-01
## 1571	1.103687e+00	1.781136e+00	-2.143758e+00	1.794607e-01	-1.654099e+00
## 1572	3.251510e-02	-1.902693e-01	2.764855e-01	-1.086283e-02	-1.978531e-02
## 1573	3.729810e+00	1.507437e+00	-9.317484e-01	3.063217e-01	-5.051905e+00
## 1574	4.213540e+00	3.340123e+00	-3.343324e+00	4.549701e-01	-5.902320e+00
## 1575	-1.012814e-02	6.420781e-02	-1.307796e+00	-2.237378e-01	2.301942e-01
## 1577	-1.394570e-02	2.682326e-02	-4.193295e-02	1.014256e-03	1.501840e-02
## 1578	-1.625338e-01	4.945297e-02	-1.205023e-01	-5.687944e-03	2.064166e-01
## 1579	8.493069e-02	-3.528909e-01	-2.142465e+00	-5.174100e-01	4.235568e-01

##	1580	-3.609079e-03	2.458564e-02	-3.663831e-02	1.230540e-03	1.986037e-03
##	1581	4.552321e-03	-2.731466e-02	-6.321060e-02	-2.082629e-02	1.633135e-02
##	1582	-1.346866e-02	-6.152556e-03	1.803663e-03	-1.631365e-03	1.879949e-02
##	1584	-3.025290e-02	1.770397e-01	-2.572637e-01	1.010703e-02	1.840837e-02
##	1585	-1.017090e+00	6.020860e+00	-8.745344e+00	3.443948e-01	6.106519e-01
##	1586	-4.518510e-02	4.871221e-01	-2.156989e+00	-2.436715e-01	2.711190e-01
##	1587	-6.535201e-05	3.730520e-04	-5.460342e-04	2.056627e-05	4.151922e-05
##	1588	-1.762565e-02	2.546302e-01	1.539436e+00	8.867464e-02	-5.124357e-02
##	1590	-7.001951e-05	7.547758e-05	-1.285912e-04	9.889697e-07	8.262731e-05
##	1591	-1.121701e-01	6.011487e-01	-8.765921e-01	3.376040e-02	7.488292e-02
##	1592	-3.445278e-04	2.016167e-03	-2.929745e-03	1.151070e-04	2.096340e-04
##	1593	-4.967642e-05	2.906306e-04	-4.223328e-04	1.659087e-05	3.023647e-05
##	1595	-2.321579e-05	1.353039e-04	-1.967032e-04	7.708383e-06	1.420316e-05
##	1596	-1.587327e-01	-6.414840e-02	3.964641e-02	-1.303607e-02	2.149976e-01
##	1597	4.053098e-02	-1.171604e-01	-3.076156e+00	-6.146210e-01	5.625137e-01
##	1598	2.334951e-02	-1.557637e-01	-2.685519e+00	-5.540958e-01	5.263149e-01
##	1599	1.165114e-01	-7.089104e-01	-3.092840e+00	-8.124491e-01	6.944573e-01
##	1600	4.257423e-04	-1.583092e-04	2.961990e-02	1.132083e-03	-1.213032e-03
##	1601	9.266040e-01	1.076734e+00	-1.214042e+00	1.228198e-01	-1.338790e+00
##	1602	9.970030e-02	4.488787e-02	-3.133317e-02	8.493700e-03	-1.355884e-01
##	1604	1.030332e-03	-6.182335e-03	-1.433348e-02	-4.718742e-03	3.701344e-03
##	1605	-1.369076e-02	8.006366e-02	-1.163440e-01	4.570549e-03	8.336816e-03
##	1606	-1.658821e-04	9.702440e-04	-1.410083e-03	5.535677e-05	1.010241e-04
##	1607	-6.052171e-02	3.434305e-01	-2.104912e+00	-2.810657e-01	3.349383e-01
##	1608	-2.879582e-01	9.861995e-01	-1.470773e+00	4.970710e-02	2.585546e-01
##	1609	-2.634964e-03	2.281153e-03	-4.023549e-03	6.217300e-06	3.169972e-03
##	1610	6.397245e-07	-4.685794e-07	4.193627e-05	1.575071e-06	-1.728381e-06
##	1611	-3.200526e-02	1.504562e-01	-2.196883e-01	8.277757e-03	2.384527e-02
##	1612	7.207033e-03	1.078645e-02	-1.281730e-02	1.115702e-03	-1.070053e-02
##	1614	-4.951364e-04	2.897225e-03	-4.210436e-03	1.653331e-04	3.013817e-04
##	1616	-1.179187e-01	-4.219387e-02	2.181222e-02	-9.320891e-03	1.590655e-01
##	1617	-6.749243e-05	3.948573e-04	-5.737960e-04	2.253978e-05	4.108205e-05
##	1618	6.414414e+00	2.881051e+00	-2.006206e+00	5.460041e-01	-8.722526e+00
##	1619	-1.187595e-01	6.286936e-01	-9.166534e-01	3.524115e-02	8.020311e-02

## 1621	5.469804e-02	-3.404140e-01	-2.592186e+00	-5.973995e-01	5.397260e-01
## 1622	3.253361e-02	-2.095745e-01	-2.617448e+00	-5.590642e-01	5.226066e-01
## 1623	-2.681702e-03	1.569329e-02	-2.280430e-02	8.959674e-04	1.631719e-03
## 1625	1.072153e-01	-6.433095e-01	-1.488723e+00	-4.904966e-01	3.846328e-01
## 1627	3.356577e-02	-1.964236e-01	2.854280e-01	-1.121425e-02	-2.042392e-02
## 1629	-8.071760e-02	4.529855e-01	-6.593225e-01	2.567292e-02	5.142998e-02
## 1630	2.654266e-02	-4.997726e-02	-1.151514e+00	-2.321288e-01	1.986926e-01
## 1631	4.336000e-03	1.521020e-03	3.366084e-01	1.324215e-02	-1.363597e-02
## 1632	-1.397123e-05	7.998164e-05	-1.163891e-04	4.536461e-06	8.725921e-06
## 1634	7.851799e-02	-3.462955e-01	-1.964760e+00	-4.819454e-01	3.962072e-01
## 1635	-7.826526e-05	4.579682e-04	-6.654904e-04	2.614544e-05	4.762693e-05
## 1636	-1.593125e-03	8.686469e-03	-1.188806e-01	-1.952308e-02	2.082147e-02
## 1637	3.259013e+00	5.320320e+00	-6.415343e+00	5.339813e-01	-4.891564e+00
## 1639	-9.773117e-01	5.901133e+00	-8.565273e+00	3.386254e-01	5.729678e-01
## 1640	1.106679e-05	-4.303783e-05	-1.078668e-04	-3.437812e-05	2.240208e-05
## 1641	1.022254e+00	9.965372e-01	-1.071638e+00	1.227676e-01	-1.454172e+00
## 1643	-3.223769e-04	1.886533e-03	-2.741373e-03	1.077055e-04	1.961571e-04
## 1644	5.845361e+00	4.782503e+00	-4.846353e+00	6.410709e-01	-8.205916e+00
## 1645	-2.936672e-02	1.718306e-01	-2.532128e-01	9.150816e-03	1.852233e-02
## 1646	1.353128e-01	-2.517808e-01	-1.583580e+00	-3.797442e-01	2.191259e-01
## 1650	-3.458012e-02	3.170171e-01	9.833669e-01	7.416693e-02	-2.583427e-02
## 1651	3.555884e-02	-2.132390e-01	-4.932667e-01	-1.625479e-01	1.274325e-01
## 1652	-2.116431e-04	1.237950e-03	-1.799310e-03	7.060033e-05	1.289175e-04
## 1654	1.195660e-01	7.429068e-02	9.642554e+00	3.828243e-01	-3.892421e-01
## 1656	5.621540e+00	1.703364e+00	3.394109e+01	1.745084e+00	-8.344214e+00
## 1657	-5.333013e-04	1.519242e-03	-2.294247e-03	7.158117e-05	5.155154e-04
## 1658	-1.495135e-04	8.749298e-04	-1.271388e-03	4.995068e-05	9.097702e-05
## 1659	-3.650275e-02	-2.204817e-03	-8.438253e-03	-2.163050e-03	4.794549e-02
## 1661	-1.680853e-04	9.835177e-04	-1.429188e-03	5.614875e-05	1.022891e-04
## 1662	1.057642e-01	3.346080e-02	8.170058e+00	3.210172e-01	-3.311226e-01
## 1663	4.873248e-03	2.526097e-03	-2.494732e-03	3.438716e-04	-6.574790e-03
## 1665	-2.029203e-04	1.185465e-03	-1.724858e-03	6.726475e-05	1.241031e-04
## 1668	6.115183e-08	-3.798326e-08	4.084583e-06	1.542781e-07	-1.679984e-07
## 1669	1.785641e-04	1.906800e-04	-2.108153e-04	2.247708e-05	-2.559190e-04

##	1670	1.749703e-04	-9.206832e-04	-5.240954e-04	-6.364337e-04	4.819540e-04
##	1671	-1.416552e-04	8.289077e-04	-1.204519e-03	4.732188e-05	8.620071e-05
##	1673	-4.261610e-01	2.507469e+00	-3.642932e+00	1.432855e-01	2.576843e-01
##	1674	5.616412e-02	-4.192534e-02	3.672996e+00	1.378526e-01	-1.514204e-01
##	1675	-6.959102e-03	7.388370e-02	-3.265703e+00	-5.871676e-01	5.846178e-01
##	1677	1.513899e-03	1.533410e-03	1.286931e-01	5.170828e-03	-5.170742e-03
##	1679	1.059528e-02	5.168453e-03	-3.887135e-03	9.290857e-04	-1.445659e-02
##	1680	-9.662235e-03	2.306588e-03	-6.277506e-03	-3.802669e-04	1.234648e-02
##	1683	1.189980e-06	-7.543417e-06	-1.908368e-05	-6.055915e-06	4.894917e-06
##	1685	4.441309e-01	5.551082e-01	-6.364969e-01	6.146471e-02	-6.463487e-01
##	1687	-2.926183e-02	-1.180814e-02	7.284337e-03	-2.401997e-03	3.963199e-02
##	1689	2.200777e+00	1.742702e+00	-1.743632e+00	2.375091e-01	-3.082619e+00
##	1690	-3.930259e-04	2.299734e-03	-3.341874e-03	1.312835e-04	2.391829e-04
##	1691	-1.497766e-01	8.700875e-01	-2.233106e+00	-1.317100e-01	2.709662e-01
##	1692	-8.201291e-02	4.710404e-01	-2.033764e+00	-2.257396e-01	3.003694e-01
##	1693	3.996470e-04	-1.455351e-04	2.783860e-02	1.064371e-03	-1.139936e-03
##	1694	-1.912102e-02	1.118715e-01	-1.625395e-01	6.387706e-03	1.163682e-02
##	1695	4.653448e-01	1.376922e+00	-1.779713e+00	1.173041e-01	-7.720466e-01
##	1696	1.559188e-07	-1.082433e-07	1.028747e-05	3.871420e-07	-4.236894e-07
##	1697	1.128382e-05	-3.741716e-05	-9.560503e-05	-3.023662e-05	1.773953e-05
##	1698	-2.396373e-06	1.370878e-05	-1.994191e-05	7.788761e-07	1.496450e-06
##	1699	-1.054928e-04	-3.293049e-05	1.258256e-05	-8.053985e-06	1.417646e-04
##	1701	4.253145e-02	5.602981e-02	-6.497001e-02	6.077030e-03	-6.223879e-02
##	1704	-2.556048e-04	1.495752e-03	-2.173521e-03	8.539464e-05	1.555325e-04
##	1705	4.007792e-03	1.136795e-02	4.164264e-01	1.712271e-02	-1.617629e-02
##	1706	-5.783429e-04	3.384108e-03	-4.917930e-03	1.931318e-04	3.520129e-04
##	1707	-9.307496e-01	5.447913e+00	-7.916437e+00	3.110443e-01	5.661881e-01
##	1708	-2.882926e-02	2.483890e-01	6.436327e-01	5.318491e-02	-1.505812e-02
##	1710	-2.704026e-04	1.582366e-03	-2.299382e-03	9.033966e-05	1.645345e-04
##	1711	4.289834e-02	5.100739e-02	-5.782684e-02	5.763161e-03	-6.211917e-02
##	1713	-3.853947e-02	4.090361e-01	-5.733480e-01	2.550622e-02	1.316126e-03
##	1716	-1.257707e-01	-5.081537e-02	3.139654e-02	-1.032823e-02	1.703504e-01
##	1717	3.590807e-01	-8.122729e-01	1.522515e+01	1.441607e-01	-3.082172e-01
##	1718	1.113349e-01	-5.308299e-01	-4.369702e+00	-9.929925e-01	8.696985e-01

##	1719	1.574282e-01	-4.707306e-01	-1.760298e+00	-4.848459e-01	3.069601e-01
##	1720	2.049002e+00	3.177873e+00	-3.799619e+00	3.246070e-01	-3.055491e+00
##	1722	5.053953e-02	-3.143068e-01	-2.367040e+00	-5.466508e-01	4.934162e-01
##	1723	-1.510213e-04	8.830728e-04	-1.283622e-03	5.034089e-05	9.204307e-05
##	1724	-1.173781e-01	6.936638e-01	-1.720867e+00	-9.388168e-02	2.025002e-01
##	1725	-5.444909e-04	3.186197e-03	-4.630126e-03	1.818728e-04	3.313546e-04
##	1726	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
##	1727	-5.650369e-02	3.493093e-01	-6.394413e-01	-4.757151e-03	5.672312e-02
##	1728	-6.033140e-01	3.540091e+00	-5.143679e+00	2.022017e-01	3.659616e-01
##	1729	3.609022e-05	7.962733e-05	-1.040341e-04	6.521150e-06	-5.587632e-05
##	1730	3.923376e-02	-2.925467e-02	2.566154e+00	9.631545e-02	-1.057888e-01
##	1732	-5.641891e-04	3.301448e-03	-4.798983e-03	1.881936e-04	3.435987e-04
##	1733	-5.505367e-07	2.285479e-06	-3.371590e-06	1.216459e-07	4.466237e-07
##	1735	1.434280e-03	2.256795e-02	-3.112897e-02	1.579752e-03	-4.563691e-03
##	1737	-3.038391e-04	1.778027e-03	-2.583706e-03	1.015094e-04	1.848814e-04
##	1738	-7.411337e-03	4.337091e-02	-6.302332e-02	2.476147e-03	4.509548e-03
##	1739	-1.131184e-03	2.262124e-03	-3.522540e-03	8.795639e-05	1.207954e-03
##	1740	-1.344963e-01	-5.435335e-02	3.359231e-02	-1.104560e-02	1.821703e-01
##	1741	-7.138062e-04	4.172860e-03	-6.107310e-03	2.300727e-04	4.428648e-04
##	1743	1.040571e-01	-6.243594e-01	-1.445494e+00	-4.761735e-01	3.734274e-01
##	1745	-3.724083e-05	2.659536e-04	2.184404e-04	3.867054e-05	3.024776e-06
##	1746	-1.570297e-01	9.099808e-01	-1.318479e+00	5.203352e-02	9.651507e-02
##	1748	-4.348351e-05	-1.757428e-05	1.086251e-05	-3.571248e-06	5.889701e-05
##	1749	4.905879e-02	-3.172550e-01	-4.349020e+00	-9.187171e-01	8.628649e-01
##	1750	-2.896339e-04	1.694911e-03	-2.462923e-03	9.676531e-05	1.762354e-04
##	1751	-1.791686e-01	1.043330e+00	-2.430167e+00	-1.115816e-01	2.786037e-01
##	1752	-6.131543e-11	3.586439e-10	-5.544830e-10	1.414343e-11	4.358995e-11
##	1753	3.065993e-03	-1.037300e-02	7.851491e-02	-3.290082e-03	1.401766e-03
##	1754	-3.332262e-01	5.066088e+00	-7.190956e+00	3.186517e-01	-1.687677e-01
##	1755	-1.737359e-01	1.016850e+00	-1.477602e+00	5.805573e-02	1.056942e-01
##	1756	-2.083892e-05	1.219240e-04	-1.771777e-04	6.959637e-06	1.268376e-05
##	1758	-3.789727e-02	2.311452e-01	-2.172117e-01	1.780373e-02	1.921319e-02
##	1759	-5.001443e-04	1.344646e-03	-2.039542e-03	6.178670e-05	4.930324e-04
##	1760	4.347724e-02	1.994107e-01	5.429662e+00	2.334519e-01	-2.120809e-01

## 1761	-6.590062e-02	3.844646e-01	-7.365292e-01	-1.135046e-02	7.311456e-02
## 1762	7.066671e-01	-1.675894e+00	2.879852e+01	1.807840e-01	-5.146225e-01
## 1763	-1.531420e+00	1.070795e+01	-1.548061e+01	6.244710e-01	7.269711e-01
## 1764	2.756036e-03	-1.653661e-02	-3.830874e-02	-1.261603e-02	9.894635e-03
## 1765	-8.224046e-04	4.818330e-03	-7.036110e-03	2.686303e-04	5.061641e-04
## 1767	-4.801396e-02	2.809767e-01	-4.082940e-01	1.604162e-02	2.921480e-02
## 1770	-5.214026e-02	3.032149e-01	-7.313689e-01	-3.712925e-02	8.569857e-02
## 1771	1.458685e-01	-5.434505e-01	-1.985121e+00	-5.507862e-01	3.904429e-01
## 1772	8.848081e-08	-5.820721e-08	5.873796e-06	2.214519e-07	-2.417499e-07
## 1774	6.740342e-03	-3.853516e-02	-6.510524e-02	-2.834509e-02	2.196024e-02
## 1775	1.305488e-02	1.946091e-01	-2.682104e-01	1.366161e-02	-4.025197e-02
## 1777	3.776163e-02	-2.268640e-01	-7.711588e-01	-2.217857e-01	1.841735e-01
## 1778	2.007998e-01	2.713228e-01	-3.162429e-01	2.914307e-02	-2.946525e-01
## 1779	1.937254e+00	4.598061e+00	-5.822087e+00	4.129045e-01	-3.078849e+00
## 1780	-1.396343e-03	2.810397e-03	-4.373049e-03	1.098484e-04	1.488886e-03
## 1781	4.163162e-02	3.283450e-02	-3.281169e-02	4.481851e-03	-5.829526e-02
## 1783	-4.186357e-04	2.449818e-03	-3.559915e-03	1.398612e-04	2.547330e-04
## 1784	-1.606067e-04	9.395725e-04	-1.365447e-03	5.361801e-05	9.778002e-05
## 1785	-7.045221e-05	3.745415e-04	-8.503436e-04	-3.590316e-05	1.035904e-04
## 1786	1.011543e-01	1.210383e-01	8.806655e+00	3.556751e-01	-3.531074e-01
## 1787	2.304321e-03	-1.297102e-02	-1.909371e-02	-9.398503e-03	7.244641e-03
## 1788	-2.316408e-04	1.356192e-03	-1.962746e-03	7.773760e-05	1.406864e-04
## 1789	-3.565594e-04	2.086541e-03	-3.032020e-03	1.191224e-04	2.169610e-04
## 1791	4.101020e-03	-2.520252e-02	-1.467388e-01	-3.577040e-02	3.154136e-02
## 1793	-1.391070e-01	-5.620161e-02	3.472283e-02	-1.142327e-02	1.884135e-01
## 1796	-1.555908e-01	3.493068e-03	-5.400433e-02	-8.362213e-03	2.028276e-01
## 1797	-2.385071e-04	1.395688e-03	-2.028125e-03	7.967990e-05	1.451319e-04
## 1799	1.070435e-05	-1.431471e-05	-4.614276e-05	-1.338369e-05	5.847104e-07
## 1800	-4.577090e-02	2.678499e-01	-3.892192e-01	1.529218e-02	2.785003e-02
## 1801	-5.612476e-03	8.170796e-02	-4.743521e-01	-6.195330e-02	6.383321e-02
## 1802	1.100113e-02	-6.676144e-02	-2.665196e-01	-7.187733e-02	6.078710e-02
## 1803	-9.735464e-02	6.304058e-01	-1.515737e-01	6.567403e-02	3.442208e-02
## 1804	4.792393e-01	1.153019e+00	-1.462032e+00	1.031778e-01	-7.635005e-01
## 1805	-1.877628e-05	1.774587e-05	-4.132025e-05	-1.834370e-06	2.436413e-05

##	1806	-5.127281e-04	3.000479e-03	-4.360068e-03	1.713045e-04	3.119764e-04
##	1807	-2.313095e-01	1.616239e+00	-2.343718e+00	9.301449e-02	1.111457e-01
##	1809	-4.073920e-04	2.383994e-03	-3.464272e-03	1.361017e-04	2.478959e-04
##	1810	-1.592056e-04	9.316105e-04	-1.353753e-03	5.318643e-05	9.687865e-05
##	1813	-1.579896e-02	9.129339e-02	-1.327159e-01	5.201472e-03	9.751481e-03
##	1814	-3.023811e-04	1.769462e-03	-2.571263e-03	1.010200e-04	1.839983e-04
##	1815	-1.703026e-01	1.002762e+00	-2.297605e+00	-1.001219e-01	2.583607e-01
##	1818	1.074848e-03	9.653019e-04	-1.011971e-03	1.234748e-04	-1.519032e-03
##	1819	3.259026e-04	-1.337746e-03	4.719583e-03	-6.799370e-04	4.457445e-04
##	1820	1.548926e-04	1.069309e-04	-1.008511e-04	1.564563e-05	-2.150586e-04
##	1821	-2.073786e-02	1.128631e-02	-2.233810e-02	-3.946330e-04	2.574351e-02
##	1823	7.253427e-01	5.249498e-01	-5.055250e-01	7.499229e-02	-1.010092e+00
##	1824	8.875217e-04	9.397355e-04	-1.035451e-03	1.114044e-04	-1.271262e-03
##	1825	-3.049677e-05	9.292676e-05	-1.396485e-04	4.497973e-06	2.875624e-05
##	1826	-1.029092e-01	-4.159105e-02	2.570700e-02	-8.451677e-03	1.393870e-01
##	1828	-2.650930e-05	2.287636e-04	5.950925e-04	4.907296e-05	-1.397645e-05
##	1829	-4.818797e-01	2.821284e+00	-4.099606e+00	1.610861e-01	2.930480e-01
##	1830	-1.661551e-01	9.698095e-01	-1.790589e+00	-1.603037e-02	1.718881e-01
##	1832	-1.161377e-04	1.611550e-04	-2.637059e-04	4.014765e-06	1.327793e-04
##	1834	-8.588762e-01	5.056604e+00	-7.346231e+00	2.889807e-01	5.189621e-01
##	1835	8.873703e-04	-5.324474e-03	-1.233797e-02	-4.062736e-03	3.186518e-03
##	1838	3.538349e-01	1.035872e+00	-1.337710e+00	8.845661e-02	-5.857191e-01
##	1839	-1.085235e-02	1.025875e-01	-1.472579e+00	-2.419807e-01	2.470619e-01
##	1840	-2.750144e-04	1.609353e-03	-2.338598e-03	9.188030e-05	1.673409e-04
##	1841	-3.346993e-01	1.997290e+00	-7.954660e+00	-8.319911e-01	1.133657e+00
##	1842	-1.067487e-01	6.246777e-01	-9.077349e-01	3.566420e-02	6.495445e-02
##	1843	-4.196051e-03	2.188646e-02	-4.438109e-01	-7.596060e-02	7.910279e-02
##	1844	-2.588088e-02	1.506514e-01	-2.189584e-01	8.593463e-03	1.584336e-02
##	1846	-1.742325e-01	1.016118e+00	-2.000890e+00	-4.016290e-02	2.033517e-01
##	1847	2.531130e+00	1.023170e+00	-6.325713e-01	2.078892e-01	-3.428355e+00
##	1848	-4.633610e-04	2.710905e-03	-3.940405e-03	1.545621e-04	2.822202e-04
##	1850	9.821626e-04	-5.881799e-04	6.584667e-02	2.489867e-03	-2.707225e-03
##	1852	-1.031213e-04	-3.635920e-05	1.823242e-05	-8.131658e-06	1.390563e-04
##	1853	5.858222e-02	-2.200543e-01	-2.731325e+00	-5.839271e-01	5.151153e-01

##	1856	1.816608e-03	-1.093877e-02	-3.102094e-02	-9.408872e-03	7.603581e-03
##	1858	-8.124058e-02	5.045355e-01	-3.821539e+00	-5.494797e-01	6.173218e-01
##	1859	4.532845e-02	-1.845008e-02	3.135799e+00	1.196541e-01	-1.284917e-01
##	1861	-1.706507e-01	9.995654e-01	-1.452443e+00	5.707620e-02	1.037252e-01
##	1862	-1.165340e-05	1.187674e-05	-2.908814e-05	-1.499683e-06	1.543198e-05
##	1863	-5.459174e-02	1.344410e-02	-3.604423e-02	-2.121111e-03	6.970864e-02
##	1864	-1.693324e-04	9.908961e-04	-1.439902e-03	5.657125e-05	1.030379e-04
##	1865	2.019845e-07	-1.179001e-06	1.714210e-06	-6.713138e-08	-1.234094e-07
##	1867	3.465065e-03	1.666825e-03	-1.238537e-03	3.022644e-04	-4.725044e-03
##	1868	-6.989084e-02	3.905058e-01	-3.527931e+00	-5.320090e-01	5.919668e-01
##	1869	-1.086654e-03	1.627681e-03	-2.621144e-03	4.813787e-05	1.225506e-03
##	1870	1.937254e+00	4.598061e+00	-5.822087e+00	4.129045e-01	-3.078849e+00
##	1872	-1.658876e-04	9.706688e-04	-1.410530e-03	5.541260e-05	1.009531e-04
##	1873	2.901990e-02	-2.160960e-02	1.898422e+00	7.125719e-02	-7.826034e-02
##	1875	2.287690e-03	-1.372112e-02	-3.175996e-02	-1.046310e-02	8.203998e-03
##	1876	-3.623884e-04	2.120689e-03	-3.081628e-03	1.210744e-04	2.205014e-04
##	1877	-9.062367e-04	-2.999005e-04	1.335339e-04	-7.001210e-05	1.219554e-03
##	1878	-3.446123e-01	2.016718e+00	-2.931146e+00	1.150259e-01	2.097904e-01
##	1879	-2.707445e-04	1.584342e-03	-2.302257e-03	9.045164e-05	1.647461e-04
##	1880	2.772218e+00	6.950382e-01	-2.021123e+00	-1.608295e-01	-3.348430e+00
##	1881	-7.133026e-04	4.174206e-03	-6.065687e-03	2.383065e-04	4.340312e-04
##	1885	-1.038982e-01	6.080102e-01	-8.835145e-01	3.471272e-02	6.321837e-02
##	1887	-1.840422e-01	1.076209e+00	-1.563907e+00	6.143582e-02	1.120788e-01
##	1890	1.044351e-03	1.821478e-03	-2.220335e-03	1.786047e-04	-1.581141e-03
##	1891	-2.754513e-04	1.611918e-03	-2.342322e-03	9.202727e-05	1.676053e-04
##	1892	-3.941357e-04	2.306474e-03	-3.351598e-03	1.316810e-04	2.398187e-04
##	1894	-6.148596e-02	-2.485006e-02	1.535982e-02	-5.049713e-03	8.328070e-02
##	1895	1.281183e+00	2.145540e+00	-2.597575e+00	2.135127e-01	-1.929412e+00
##	1896	-5.910263e-04	3.453979e-03	-5.043084e-03	1.927007e-04	3.645740e-04
##	1897	6.968454e-04	-4.181363e-03	-9.702848e-03	-3.193075e-03	2.504960e-03
##	1899	3.601807e-06	-2.680918e-06	2.356358e-04	8.844726e-06	-9.713763e-06
##	1900	-4.235572e-01	2.828711e+00	-4.117676e+00	1.599169e-01	2.208014e-01
##	1901	-1.398571e-10	1.299017e-09	4.133323e-09	3.026470e-10	-1.048773e-10
##	1902	-9.687746e-02	6.120607e-02	-1.162206e-01	-1.279230e-03	1.192501e-01

##	1903	-5.677203e-02	3.302426e-01	-8.094547e-01	-4.285287e-02	9.570161e-02
##	1905	-9.172908e-05	-3.249838e-05	1.644632e-05	-7.241834e-06	1.237110e-04
##	1906	-1.201761e-04	2.772399e-04	-4.290795e-04	1.120141e-05	1.245218e-04
##	1907	-4.760904e-03	-1.635392e-03	7.852838e-04	-3.717912e-04	6.414053e-03
##	1908	-3.411329e-02	2.270046e-01	-3.582717e+00	-5.961178e-01	6.192481e-01
##	1909	-3.553748e-05	-1.383699e-05	7.981355e-06	-2.913711e-06	4.810135e-05
##	1910	-3.596694e-04	2.104764e-03	-3.058493e-03	1.201641e-04	2.188495e-04
##	1911	1.319010e-05	-5.597855e-05	-1.371976e-04	-4.412940e-05	3.006709e-05
##	1913	1.874097e-02	2.550070e-02	-2.976429e-02	2.731760e-03	-2.752155e-02
##	1915	-2.079055e-04	1.216631e-03	-1.767922e-03	6.945910e-05	1.265075e-04
##	1916	-2.933200e-01	1.740530e+00	-3.940809e+00	-1.649517e-01	4.368680e-01
##	1917	2.310077e-02	-1.530096e-01	-2.484314e+00	-5.155148e-01	4.883775e-01
##	1918	-2.619456e-01	1.522580e+00	-4.125684e+00	-2.712881e-01	5.142784e-01
##	1919	-3.348403e-02	2.600756e-01	4.303624e-01	4.623103e-02	-5.857868e-03
##	1920	5.128328e+00	7.167150e+00	-8.409373e+00	7.600955e-01	-7.553607e+00
##	1921	-3.502123e-05	1.876887e-04	-2.736657e-04	1.055272e-05	2.336671e-05
##	1923	-6.634331e-02	6.416989e-01	-9.124563e-01	3.926162e-02	1.000808e-02
##	1924	-2.447348e-01	1.428244e+00	-2.868664e+00	-6.698236e-02	2.960218e-01
##	1925	-9.243641e-06	5.393570e-05	-7.838842e-05	3.076959e-06	5.644115e-06
##	1927	-3.114532e-02	1.794006e-01	-2.508235e-01	1.059865e-02	1.906058e-02
##	1929	-1.107548e-03	2.525246e-03	-3.883326e-03	1.067507e-04	1.145720e-03
##	1930	-3.632978e-02	2.389717e-01	-1.450836e-02	2.656240e-02	1.131018e-02
##	1932	-6.625797e-02	4.169079e-01	-3.720111e+00	-5.593331e-01	6.129901e-01
##	1933	-4.521054e-04	2.645681e-03	-3.844537e-03	1.510418e-04	2.750998e-04
##	1934	-2.526526e-02	1.478815e-01	-2.138730e-01	8.481950e-03	1.534611e-02
##	1935	-1.559130e-01	-1.168646e-02	-3.286718e-02	-9.389933e-03	2.050586e-01
##	1937	2.574544e-02	-1.506579e-01	2.189262e-01	-8.601146e-03	-1.566588e-02
##	1938	1.271386e+01	-7.441411e+01	1.079660e+02	-4.254955e+00	-7.730562e+00
##	1939	-1.193621e-01	8.741205e-01	-3.310848e+00	-3.322979e-01	4.307722e-01
##	1940	-1.554744e-04	9.097349e-04	-1.321987e-03	5.193347e-05	9.461688e-05
##	1943	9.076053e-02	-3.848646e-01	-2.395102e+00	-5.752398e-01	4.750816e-01
##	1944	-6.504654e-04	3.806510e-03	-5.531402e-03	2.173094e-04	3.957984e-04
##	1945	-2.513730e-03	1.719017e-02	-2.511156e-02	9.550497e-04	1.282974e-03
##	1949	-3.527285e-01	2.054645e+00	-8.530977e+00	-9.209887e-01	1.241045e+00

##	1951	-1.787501e-04	1.046018e-03	-1.519999e-03	5.971864e-05	1.087668e-04
##	1952	-1.849168e-02	-6.319580e-03	3.062802e-03	-1.439706e-03	2.490744e-02
##	1954	2.197093e-03	5.628457e-03	-7.181973e-03	4.957737e-04	-3.541099e-03
##	1955	-7.064739e-02	3.993212e-01	-2.715483e+00	-3.769885e-01	4.393499e-01
##	1956	-6.141881e-02	3.498052e-01	-1.975418e+00	-2.547218e-01	3.097038e-01
##	1957	-5.941778e-04	3.446219e-03	-6.089427e-03	-5.752052e-06	5.649181e-04
##	1958	7.044757e-01	2.847678e-01	-1.760524e-01	5.786030e-02	-9.541947e-01
##	1959	9.195527e-02	6.419840e-02	-6.079806e-02	9.350445e-03	-1.277737e-01
##	1960	7.657374e-02	-2.979924e-01	-2.518263e+00	-5.697070e-01	4.827244e-01
##	1962	-5.800909e-05	-2.344500e-05	1.449097e-05	-4.764266e-06	7.857150e-05
##	1963	2.376871e-02	-1.139642e-01	-2.493007e+00	-5.043181e-01	4.743936e-01
##	1965	-2.269857e-04	1.328294e-03	-1.930182e-03	7.583441e-05	1.381163e-04
##	1966	-7.872744e-01	4.626856e+00	-6.722333e+00	2.643442e-01	4.766749e-01
##	1968	-5.605659e-05	1.807763e-04	-2.932599e-04	4.694506e-06	5.585255e-05
##	1970	-2.901281e-04	-1.172601e-04	7.247176e-05	-2.382939e-05	3.929708e-04
##	1971	-2.896339e-04	1.694911e-03	-2.462923e-03	9.676531e-05	1.762354e-04
##	1972	-3.411532e-01	2.485626e+00	-3.585550e+00	1.465247e-01	1.492486e-01
##	1973	-1.083253e-01	6.326973e-01	-1.102693e+00	1.801138e-03	9.994034e-02
##	1975	1.712785e-01	1.395357e+01	-1.947142e+01	9.374548e-01	-1.887249e+00
##	1978	-1.222249e-01	7.264383e-01	-2.043359e+00	-1.434791e-01	2.557927e-01
##	1979	3.156960e-09	3.645223e-09	2.733183e-07	1.102248e-08	-1.096109e-08
##	1982	8.337886e-07	-5.007983e-06	-1.152937e-05	-3.815417e-06	2.993215e-06
##	1984	-6.887537e-06	4.030578e-05	-5.856966e-05	2.301086e-06	4.190883e-06
##	1986	5.510331e-02	1.181512e-01	5.617260e+00	2.313307e-01	-2.191534e-01
##	1987	1.168391e-01	-7.085752e-01	-2.780146e+00	-7.540950e-01	6.364308e-01
##	1988	-1.150522e-03	1.997783e-03	-3.158710e-03	6.931491e-05	1.264722e-03
##	1989	-4.115785e-04	2.408383e-03	-3.499822e-03	1.374739e-04	2.504753e-04
##	1990	-1.314430e-04	7.691692e-04	-1.117705e-03	4.391252e-05	7.998323e-05
##	1991	-1.840932e-01	1.809427e+00	-2.587041e+00	1.102838e-01	2.469103e-02
##	1994	4.006496e+00	8.140600e+00	-1.012555e+01	7.628905e-01	-6.204263e+00
##	1995	-1.007719e-04	5.895229e-04	-8.567032e-04	3.364743e-05	6.134701e-05
##	1997	-5.720505e-02	9.732780e-03	-3.167640e-02	-2.512387e-03	7.356489e-02
##	1998	1.465153e-01	-8.791240e-01	-2.035660e+00	-6.705245e-01	5.258536e-01
##	2002	-3.235020e-01	1.915701e+00	-7.039966e+00	-6.875714e-01	9.813867e-01

## 2004	-1.269153e-07	-5.278261e-08	2.853453e-08	-1.150594e-08	1.730514e-07
## 2005	1.318698e-01	-4.738992e-01	-2.132402e+00	-5.554602e-01	4.088576e-01
## 2006	-6.185680e-02	3.607086e-01	-5.112141e-01	2.107909e-02	3.748951e-02
## 2007	-2.481820e-04	1.452337e-03	-2.110431e-03	8.291638e-05	1.510130e-04
## 2008	-1.475480e-02	8.016086e-02	-1.059205e+00	-1.719382e-01	1.839768e-01
## 2009	-1.653583e-01	-4.884000e-02	1.613565e-02	-1.238356e-02	2.218270e-01
## 2010	-7.275590e-02	4.139364e-01	-2.381337e+00	-3.096138e-01	3.746702e-01
## 2011	-4.044412e-01	2.366786e+00	-3.439234e+00	1.351254e-01	2.460878e-01
## 2013	-5.940466e-02	-1.748253e-02	5.708341e-03	-4.444571e-03	7.968343e-02
## 2017	-4.533997e-05	2.635082e-04	-3.835275e-04	1.492991e-05	2.790085e-05
## 2018	2.784869e-02	3.274647e-01	6.408471e+00	2.855141e-01	-2.337184e-01
## 2019	-1.525659e-04	8.927186e-04	-1.297258e-03	5.096235e-05	9.284627e-05
## 2020	2.222338e-01	-5.922850e-01	8.087439e+00	-2.734844e-02	-8.688142e-02
## 2021	-6.959102e-03	7.388370e-02	-3.265703e+00	-5.871676e-01	5.846178e-01
## 2022	-3.477516e-02	2.055112e-01	-2.728361e-01	1.273432e-02	2.032699e-02
## 2023	5.290032e+00	3.666300e+00	-3.459883e+00	5.361338e-01	-7.347407e+00
## 2025	-5.199820e-10	3.588815e-09	1.634432e-09	4.664751e-10	9.856231e-11
## 2026	-1.598552e-01	9.143287e-01	-5.471958e+00	-7.235758e-01	8.657155e-01
## 2027	2.980516e-03	1.695360e-03	2.386103e-01	9.456973e-03	-9.638639e-03
## 2028	2.498621e-04	-1.557260e-03	-6.455096e-03	-1.721190e-03	1.470393e-03
## 2029	-4.888934e-04	2.337452e-03	-3.425265e-03	1.284311e-04	3.599800e-04
## 2030	1.299541e-03	2.280271e-01	6.826574e-01	5.353039e-02	-5.200669e-02
## 2031	-3.750166e-02	2.427991e-01	-5.753559e-02	2.532601e-02	1.324578e-02
## 2032	1.626060e-04	-9.756645e-04	-2.258234e-03	-7.439759e-04	5.834189e-04
## 2033	-2.409174e-06	1.409488e-05	-2.102796e-05	7.024149e-07	1.567312e-06
## 2034	-1.531615e-01	8.962645e-01	-1.308411e+00	5.004126e-02	9.431163e-02
## 2035	-1.479524e-04	8.648794e-04	-1.257372e-03	4.926721e-05	9.023604e-05
## 2036	-2.405869e-01	1.371621e+00	-8.189287e+00	-1.081827e+00	1.296080e+00
## 2037	-1.165187e-06	7.975795e-07	-1.533292e-06	-2.056882e-08	1.436102e-06
## 2038	2.603711e-07	-1.612720e-06	-3.722793e-06	-1.227857e-06	9.730129e-07
## 2039	-7.486008e-05	-2.457593e-05	1.019846e-05	-5.874318e-06	1.008210e-04
## 2041	-9.761007e-05	-3.371793e-05	1.618892e-05	-7.667915e-06	1.315585e-04
## 2042	1.338239e-01	-5.006616e-01	-2.685671e+00	-6.678529e-01	5.188388e-01
## 2043	-5.610463e-05	3.315462e-04	-4.411842e-04	2.050477e-05	3.282010e-05

## 2044	-1.017654e-01	5.821159e-01	-2.872437e+00	-3.462054e-01	4.381143e-01
## 2046	-1.001980e-04	5.357921e-04	-8.446556e-04	1.824974e-05	7.871142e-05
## 2047	9.883301e-03	-7.278519e-03	6.474487e-01	2.431232e-02	-2.668626e-02
## 2048	8.152924e-03	3.690487e-03	-2.590102e-03	6.958596e-04	-1.108999e-02
## 2049	2.760766e-01	-1.628766e+00	-5.894947e+00	-1.639901e+00	1.361130e+00
## 2051	-2.259460e-05	1.117015e-04	-1.634232e-04	6.183595e-06	1.619508e-05
## 2053	-9.522334e-02	5.571543e-01	-8.096193e-01	3.180839e-02	5.795088e-02
## 2054	5.172258e-03	3.486600e-03	-3.246164e-03	5.175724e-04	-7.172035e-03
## 2055	-1.000207e-03	5.853200e-03	-8.505426e-03	3.341731e-04	6.085897e-04
## 2056	3.441292e-02	1.841952e-01	-2.468785e-01	1.415203e-02	-6.691307e-02
## 2058	-1.543599e-04	1.033932e-03	2.056519e-04	1.253126e-04	3.906619e-05
## 2061	-4.480910e-04	2.622085e-03	-3.810293e-03	1.496865e-04	2.726768e-04
## 2064	7.727406e-05	-5.776578e-05	5.052617e-03	1.896211e-04	-2.082998e-04
## 2065	7.347798e-02	1.758394e-01	7.391661e+00	3.069473e-01	-2.927864e-01
## 2066	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
## 2067	-1.807969e-06	7.257868e-06	-1.077052e-05	3.746361e-07	1.504519e-06
## 2068	-1.053517e-01	6.032335e-01	-2.864267e+00	-3.377244e-01	4.330972e-01
## 2069	3.856539e-01	1.281890e+00	-1.671912e+00	1.065779e-01	-6.566150e-01
## 2070	-1.463774e-04	8.564299e-04	-1.244557e-03	4.888495e-05	8.909449e-05
## 2071	-3.588585e-04	2.100031e-03	-3.051610e-03	1.198949e-04	2.183537e-04
## 2072	1.330440e-01	-8.026556e-01	-2.613218e+00	-7.549283e-01	6.221170e-01
## 2073	-4.036623e-02	3.903562e-02	-6.736067e-02	3.673319e-04	4.807462e-02
## 2074	9.211440e-02	-5.527154e-01	-1.281171e+00	-4.218150e-01	3.308575e-01
## 2076	-9.642569e-02	5.642320e-01	-8.199019e-01	3.221286e-02	5.867752e-02
## 2077	9.152542e-02	-2.018733e-01	-1.261792e+00	-3.029284e-01	1.954034e-01
## 2078	-3.307664e-02	1.991112e-01	-1.102060e+00	-1.408099e-01	1.698005e-01
## 2081	-3.503399e-06	1.953519e-05	-2.846703e-05	1.100977e-06	2.252103e-06
## 2082	3.156960e-09	3.645223e-09	2.733183e-07	1.102248e-08	-1.096109e-08
## 2083	-2.817023e-07	2.441119e-07	-4.329307e-07	2.222743e-10	3.393239e-07
## 2084	-7.093753e-06	-6.165043e-07	-1.376756e-06	-4.328659e-07	9.339897e-06
## 2085	-1.396941e-01	8.256167e-01	-3.292169e+00	-3.446558e-01	4.710232e-01
## 2090	4.123716e+00	4.471773e+00	-4.955095e+00	5.252925e-01	-5.919920e+00
## 2091	-6.711592e-04	2.974288e-03	-4.380609e-03	1.594671e-04	5.233805e-04
## 2092	3.050430e-04	-1.830439e-03	-4.255596e-03	-1.399315e-03	1.098077e-03

## 2093	8.771672e-04	-5.263178e-03	-1.218961e-02	-4.014846e-03	3.148720e-03
## 2094	4.767505e-01	-1.070440e+00	2.032796e+01	2.006484e-01	-4.173371e-01
## 2095	-2.066460e-01	1.199939e+00	-3.611902e+00	-2.812936e-01	4.722136e-01
## 2096	1.539423e-03	1.304648e-03	1.280687e-01	5.120595e-03	-5.154811e-03
## 2097	-3.996116e-03	7.507308e-02	3.802475e-01	2.337491e-02	-1.496155e-02
## 2098	4.409547e+00	7.614125e+00	-9.261629e+00	7.501381e-01	-6.667989e+00
## 2100	1.198234e-04	-7.189233e-04	-1.669456e-03	-5.493753e-04	4.310602e-04
## 2101	-1.052857e-05	5.534254e-05	-8.169465e-05	2.925040e-06	7.327192e-06
## 2104	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 2105	1.813216e-09	4.422908e-09	1.829272e-07	7.600835e-09	-7.245775e-09
## 2107	-2.535231e-06	3.603176e-07	-1.304471e-06	-1.160700e-07	3.268740e-06
## 2110	-9.318513e-02	5.441087e-01	-7.907222e-01	3.105306e-02	5.684400e-02
## 2112	5.272348e-02	-3.284342e-01	-2.552943e+00	-5.861085e-01	5.304056e-01
## 2113	-2.801238e-04	1.639260e-03	-2.382054e-03	9.358823e-05	1.704485e-04
## 2114	2.548301e-02	-2.348102e-02	1.564608e+00	5.496820e-02	-6.225701e-02
## 2116	5.734738e-02	5.621798e-02	-6.055606e-02	6.907985e-03	-8.161491e-02
## 2117	-5.591466e-06	3.272119e-05	-4.754832e-05	1.868062e-06	3.402273e-06
## 2118	-1.707858e-05	8.999416e-05	-1.317366e-04	4.964077e-06	1.165710e-05
## 2119	-1.665028e-02	9.615873e-02	-1.397863e-01	5.478366e-03	1.028324e-02
## 2121	4.126392e-03	-2.963646e-03	2.711555e-01	1.019176e-02	-1.117257e-02
## 2122	-2.190603e-04	1.281917e-03	-1.862789e-03	7.318676e-05	1.332936e-04
## 2123	-4.398855e-01	2.576343e+00	-3.769146e+00	1.423323e-01	2.721174e-01
## 2124	5.792106e-02	3.675504e-04	4.273983e+00	1.659878e-01	-1.739903e-01
## 2127	-9.343134e-02	5.467060e-01	-7.944345e-01	3.121224e-02	5.685592e-02
## 2128	-1.322549e-01	7.732373e-01	-1.123648e+00	4.413920e-02	8.055779e-02
## 2129	-3.194567e-04	1.869427e-03	-2.716520e-03	1.067282e-04	1.943830e-04
## 2130	4.941884e-01	6.005005e-01	-6.842058e-01	6.725002e-02	-7.171504e-01
## 2132	-1.835766e-01	1.071835e+00	-6.480175e+00	-8.605185e-01	1.022214e+00
## 2137	-1.704485e-01	9.965161e-01	-1.447294e+00	5.691585e-02	1.038057e-01
## 2139	-1.125983e-03	3.204528e-04	-8.012540e-04	-4.078049e-05	1.432573e-03
## 2140	-2.848514e-04	1.666925e-03	-2.422255e-03	9.516761e-05	1.733253e-04
## 2141	-3.691548e-04	2.160261e-03	-3.139142e-03	1.233316e-04	2.246233e-04
## 2142	-1.073138e-04	8.288315e-05	-1.498728e-04	-4.186538e-07	1.303031e-04
## 2145	1.937254e+00	4.598061e+00	-5.822087e+00	4.129045e-01	-3.078849e+00

##	2146	-2.848514e-04	1.666925e-03	-2.422255e-03	9.516761e-05	1.733253e-04
##	2147	-4.734296e-03	8.266773e-02	-1.705407e+00	-2.921425e-01	2.900080e-01
##	2149	-8.058994e-05	-3.159726e-05	1.854168e-05	-6.596570e-06	1.090824e-04
##	2151	-7.946054e-05	3.149054e-04	-4.960822e-04	1.087192e-05	7.186606e-05
##	2154	1.029327e-01	-3.976316e-01	-1.984598e+00	-5.026189e-01	3.888115e-01
##	2155	-1.235928e-03	7.232636e-03	-1.050992e-02	4.129285e-04	7.520173e-04
##	2156	8.958196e-04	4.670047e-04	-3.708345e-04	8.051634e-05	-1.225835e-03
##	2157	-2.891436e-01	1.691103e+00	-2.606850e+00	6.856357e-02	2.036765e-01
##	2158	2.480769e-02	3.862908e-02	2.264145e+00	9.229209e-02	-9.036352e-02
##	2159	-2.115631e-01	1.233386e+00	-2.504736e+00	-6.298255e-02	2.609826e-01
##	2161	-4.919848e-04	2.878987e-03	-4.183530e-03	1.643673e-04	2.993671e-04
##	2163	1.699047e-03	1.994810e-02	-2.737859e-02	1.420291e-03	-4.597363e-03
##	2164	-7.689577e-02	5.219630e-01	1.488893e-01	6.502967e-02	1.734322e-02
##	2166	-2.537560e-02	1.484556e-01	-2.143354e-01	8.528450e-03	1.541307e-02
##	2167	-4.924228e-03	2.881653e-02	-4.187399e-02	1.645204e-03	2.996214e-03
##	2168	9.228714e-02	-4.306783e-01	-1.812875e+00	-4.812807e-01	3.828334e-01
##	2169	-4.959043e-04	2.901999e-03	-4.216966e-03	1.656818e-04	3.017430e-04
##	2170	-1.456479e-07	-6.119087e-08	3.143078e-08	-1.365339e-08	1.990704e-07
##	2171	-8.826841e-06	5.152664e-05	-7.488513e-05	2.939889e-06	5.386741e-06
##	2172	-5.519699e-02	-2.219255e-02	1.362678e-02	-4.525510e-03	7.474869e-02
##	2173	-3.121277e-02	1.829489e-01	-2.601462e-01	1.066514e-02	1.882574e-02
##	2174	1.437781e-01	7.118544e+00	-9.882073e+00	4.827490e-01	-1.037351e+00
##	2176	-1.382392e-04	8.088264e-04	-1.175371e-03	4.616930e-05	8.413816e-05
##	2177	-3.208291e-01	2.019124e+00	-8.074964e+00	-8.473979e-01	1.130342e+00
##	2179	-2.030235e-01	1.187272e+00	-1.849498e+00	4.452138e-02	1.465958e-01
##	2180	-6.853211e-04	4.010491e-03	-5.827741e-03	2.289685e-04	4.169930e-04
##	2182	-1.466022e-04	6.197907e-04	-9.283061e-04	3.036123e-05	1.203386e-04
##	2183	-1.995544e-04	1.166405e-03	-1.696233e-03	6.635007e-05	1.218136e-04
##	2184	1.151539e-02	7.882921e-02	-1.067220e-01	5.869319e-03	-2.443083e-02
##	2185	1.605809e-01	1.339513e-01	-1.369752e-01	1.773633e-02	-2.256900e-01
##	2186	-2.789495e-05	-6.900112e-06	-2.956696e-07	-2.214209e-06	3.747282e-05
##	2189	-9.562446e-01	5.602635e+00	-8.143561e+00	3.194444e-01	5.815214e-01
##	2190	5.689328e-01	6.175750e+00	3.125481e+00	8.853816e-01	-1.747136e+00
##	2191	2.192429e+00	1.268945e+00	-1.083386e+00	2.055300e-01	-3.015224e+00

##	2192	-1.067841e+00	6.479659e+00	-9.481819e+00	3.574157e-01	6.367549e-01
##	2194	-1.836800e-10	1.118251e-09	-1.098272e-09	8.114097e-11	9.792000e-11
##	2195	-8.467040e-06	4.938172e-05	-7.176679e-05	2.817741e-06	5.171836e-06
##	2196	-2.676023e-04	7.910398e-04	-1.194958e-03	3.715922e-05	2.559152e-04
##	2197	-9.935655e-02	5.803841e-01	-8.434264e-01	3.312562e-02	6.057996e-02
##	2198	-5.010119e-02	2.921187e-01	-4.245425e-01	1.666762e-02	3.061270e-02
##	2199	-1.213462e-04	4.518212e-04	-5.804237e-04	2.671338e-05	1.026508e-04
##	2200	-2.708344e-04	1.584900e-03	-2.303062e-03	9.048483e-05	1.647959e-04
##	2201	-2.558663e-04	-1.034106e-04	6.391790e-05	-2.101381e-05	3.465625e-04
##	2203	-7.169766e-05	4.194503e-04	-6.095373e-04	2.394300e-05	4.364337e-05
##	2207	-6.897198e-02	3.903995e-01	-2.574362e+00	-3.535025e-01	4.145366e-01
##	2209	2.234693e-01	3.663121e+00	-5.056320e+00	2.557769e-01	-7.284372e-01
##	2210	-7.708535e-02	4.511026e-01	-6.555080e-01	2.575452e-02	4.690364e-02
##	2213	-2.751060e-02	1.611329e-01	-2.321753e-01	9.275690e-03	1.667723e-02
##	2214	-1.843692e-01	7.003276e-01	-1.005070e+00	3.764032e-02	1.565996e-01
##	2215	-1.743106e-04	1.022707e-03	-1.413040e-03	6.120286e-05	1.040623e-04
##	2216	-8.651876e-06	5.030918e-05	-7.312619e-05	2.868607e-06	5.303311e-06
##	2218	7.996026e-02	-4.299462e-01	-5.526490e-01	-3.381225e-01	2.660148e-01
##	2219	1.874097e-02	2.550070e-02	-2.976429e-02	2.731760e-03	-2.752155e-02
##	2220	-1.932007e-02	2.426343e-01	1.282024e+00	7.731778e-02	-4.128035e-02
##	2221	-4.847718e-04	2.836775e-03	-4.122275e-03	1.619418e-04	2.949937e-04
##	2222	-3.463608e-02	9.067036e-02	-1.377981e-01	4.119202e-03	3.443238e-02
##	2223	-1.125741e-01	6.582207e-01	-9.565075e-01	3.757394e-02	6.856443e-02
##	2224	9.900723e-03	1.361583e-02	-1.592609e-02	1.452680e-03	-1.455655e-02
##	2225	-4.118075e-02	2.409808e-01	-3.525798e-01	1.330791e-02	2.550258e-02
##	2226	-1.302764e-04	7.621966e-04	-1.107624e-03	4.350497e-05	7.929875e-05
##	2227	-2.548337e-05	2.570310e-05	-1.329453e-04	-1.658414e-05	4.692283e-05
##	2229	-2.310923e-02	1.603295e-01	-1.737117e+00	-2.724960e-01	2.894483e-01
##	2230	-5.131633e-04	3.002677e-03	-4.363774e-03	1.713342e-04	3.123741e-04
##	2231	4.253145e-02	5.602981e-02	-6.497001e-02	6.077030e-03	-6.223879e-02
##	2234	-1.076512e-01	6.174489e-01	-2.790260e+00	-3.191887e-01	4.169092e-01
##	2235	-1.147808e-03	2.258437e-03	-3.523237e-03	8.667888e-05	1.230221e-03
##	2236	-1.078046e-03	1.168883e-03	-1.976132e-03	1.815486e-05	1.268904e-03
##	2237	3.635681e-01	-2.883560e-01	-1.375479e+00	-3.536781e-01	-9.036999e-02

## 2238	8.953756e-01	5.656707e-01	-5.088286e-01	8.709320e-02	-1.237057e+00
## 2241	-8.221410e-02	6.489554e-01	-9.356984e-01	3.830897e-02	3.033225e-02
## 2242	-1.194433e-04	-1.703360e-06	-3.833311e-05	-7.277206e-06	1.567879e-04
## 2245	-2.400791e-06	-1.030538e-06	4.154996e-07	-2.514581e-07	3.308628e-06
## 2246	-4.553229e-04	2.664496e-03	-3.871886e-03	1.521143e-04	2.770609e-04
## 2248	1.138956e-02	-2.148243e-02	-1.310180e+00	-2.524178e-01	2.361710e-01
## 2249	-2.409067e-01	1.409543e+00	-2.184576e+00	5.494707e-02	1.718189e-01
## 2250	-1.187603e-01	1.384136e+01	-1.940438e+01	9.140334e-01	-1.495041e+00
## 2251	-2.605424e-02	1.517004e-01	-2.187778e-01	8.718802e-03	1.590541e-02
## 2252	-1.652742e+00	9.672022e+00	-1.406096e+01	5.510160e-01	1.006780e+00
## 2253	1.992949e-02	2.473526e-02	-2.831969e-02	2.746187e-03	-2.898251e-02
## 2254	6.071104e-04	5.631862e-03	-7.689095e-03	4.080908e-04	-1.464473e-03
## 2258	7.940213e-02	1.627320e-02	6.034868e+00	2.361632e-01	-2.449674e-01
## 2259	-4.862441e-03	6.360632e-02	-5.022738e-01	-7.313084e-02	7.490200e-02
## 2260	-3.239006e-07	1.235643e-06	-1.834151e-06	6.375281e-08	2.763185e-07
## 2263	3.967259e-03	-2.842252e-03	2.607776e-01	9.802596e-03	-1.074461e-02
## 2266	-3.494588e-02	3.342751e-01	-1.526911e+00	-1.759482e-01	1.996049e-01
## 2269	-5.170721e-01	3.046991e+00	-4.426519e+00	1.741589e-01	3.121048e-01
## 2270	-8.876748e-06	3.978545e-05	-5.846922e-05	2.156653e-06	6.851317e-06
## 2271	1.442046e-08	-1.707253e-07	-3.795090e-07	-1.272000e-07	1.167075e-07
## 2272	2.738606e-01	-1.615983e+00	-5.872426e+00	-1.631476e+00	1.354899e+00
## 2273	-1.073773e-02	8.019187e-02	-1.159411e-01	4.676898e-03	4.528528e-03
## 2275	-3.281063e-04	1.920067e-03	-2.790099e-03	1.096203e-04	1.996425e-04
## 2276	-3.167097e-06	1.749857e-05	-1.833586e-04	-2.857109e-05	3.124310e-05
## 2277	5.445379e+00	7.003362e+00	-8.080004e+00	7.667332e-01	-7.948252e+00
## 2278	-1.440490e-06	-9.813402e-07	-5.884125e-07	-4.269828e-07	2.277304e-06
## 2280	1.216822e-01	-1.951626e-01	-2.433952e+00	-5.203142e-01	3.719774e-01
## 2281	-2.896339e-04	1.694911e-03	-2.462923e-03	9.676531e-05	1.762354e-04
## 2284	1.434872e+00	9.419105e-01	-8.649511e-01	1.419254e-01	-1.986650e+00
## 2285	9.899252e-08	-6.563197e-08	6.565951e-06	2.474855e-07	-2.702649e-07
## 2286	9.679781e-06	-5.813374e-05	-1.424911e-04	-4.581495e-05	3.624101e-05
## 2287	-6.759838e-04	3.955600e-03	-5.760685e-03	2.234555e-04	4.136886e-04
## 2288	4.566922e-02	2.991921e-01	-4.042751e-01	2.241565e-02	-9.532049e-02
## 2289	-1.504884e-05	8.672533e-05	-1.365689e-04	2.977572e-06	1.125323e-05

##	2290	3.389586e-02	2.718266e-01	-3.696694e-01	1.995084e-02	-7.668424e-02
##	2293	8.528660e-02	1.638571e-01	8.684776e+00	3.554678e-01	-3.361690e-01
##	2294	-1.099185e-01	6.404734e-01	-9.321885e-01	3.628691e-02	6.746154e-02
##	2295	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
##	2298	2.121502e+00	1.130216e+00	-9.116600e-01	1.923839e-01	-2.906034e+00
##	2301	-7.135470e-04	4.174644e-03	-6.072091e-03	2.372524e-04	4.353545e-04
##	2303	-5.450298e-03	1.629926e-01	-2.298572e-01	1.052800e-02	-1.230127e-02
##	2304	-1.871480e-04	-7.564404e-05	4.673739e-05	-1.537488e-05	2.534909e-04
##	2306	1.012678e-08	-9.466963e-10	7.359399e-07	2.846424e-08	-3.000268e-08
##	2307	3.831708e+00	5.969668e+00	-7.143143e+00	6.088117e-01	-5.717084e+00
##	2308	-1.098435e-01	5.980978e-01	-8.715221e-01	3.372481e-02	7.216663e-02
##	2310	8.335379e-01	1.395033e+00	-1.688805e+00	1.388510e-01	-1.255171e+00
##	2312	-7.148045e-02	4.177388e-01	-6.070568e-01	2.384438e-02	4.356050e-02
##	2313	-5.148351e-04	3.012681e-03	-4.377927e-03	1.719772e-04	3.132961e-04
##	2314	-1.502998e-01	-6.071738e-02	3.750791e-02	-1.234197e-02	2.035728e-01
##	2315	-7.695003e-05	4.492158e-04	-6.532218e-04	2.556224e-05	4.702517e-05
##	2316	-6.068352e-03	3.334785e-02	-4.857599e-02	1.883353e-03	3.950549e-03
##	2318	-4.968195e-04	2.907269e-03	-4.224725e-03	1.659638e-04	3.023279e-04
##	2320	-2.711595e-04	1.586263e-03	-2.305524e-03	9.047274e-05	1.651419e-04
##	2321	2.527955e+00	4.205010e+00	-5.085621e+00	4.193919e-01	-3.803605e+00
##	2322	1.666518e-03	-1.104488e-03	1.105411e-01	4.166611e-03	-4.550040e-03
##	2323	-8.791717e-03	4.716333e-02	-6.876534e-02	2.652213e-03	5.860480e-03
##	2324	-2.592125e-07	3.382471e-07	-5.550967e-07	8.185613e-09	2.982688e-07
##	2325	-1.052115e-01	6.067111e-01	-2.241077e+00	-2.198974e-01	3.163744e-01
##	2329	-4.114133e-02	5.203777e-02	-8.579770e-02	1.189572e-03	4.753668e-02
##	2330	-4.606957e-04	2.695898e-03	-3.917540e-03	1.539031e-04	2.803382e-04
##	2331	-1.011332e-04	5.917312e-04	-8.598809e-04	3.377926e-05	6.155083e-05
##	2332	4.252173e+00	4.273782e+00	-4.637504e+00	5.192183e-01	-6.064114e+00
##	2334	-1.549605e-01	8.976009e-01	-2.683633e+00	-2.070075e-01	3.503427e-01
##	2335	2.046219e-03	-8.718615e-03	2.529907e-02	-4.598768e-03	3.083591e-03
##	2336	-4.031043e-05	-1.108878e-05	2.052630e-06	-3.102511e-06	5.411506e-05
##	2337	5.916219e+00	-3.462263e+01	5.029182e+01	-1.977429e+00	-3.599245e+00
##	2338	2.911144e-03	5.946392e-03	-7.401308e-03	5.563884e-04	-4.511776e-03
##	2340	9.685393e-02	1.258140e-01	8.546146e+00	3.461006e-01	-3.422295e-01

## 2341	-2.504560e-04	1.465628e-03	-2.129746e-03	8.367500e-05	1.523987e-04
## 2343	-1.527209e-02	8.803183e-02	-3.328354e-01	-3.334970e-02	4.733890e-02
## 2344	1.643755e-01	1.055532e+00	-1.424874e+00	7.930116e-02	-3.405769e-01
## 2345	-9.622065e-01	5.636000e+00	-8.189535e+00	3.218201e-01	5.848517e-01
## 2346	2.065395e-01	-4.555082e-01	8.902238e+00	9.221559e-02	-1.849553e-01
## 2348	-9.176004e-01	5.440573e+00	-9.959735e+00	-7.400263e-02	9.303785e-01
## 2352	-6.265251e-04	3.666259e-03	-5.328416e-03	2.091496e-04	3.813990e-04
## 2353	-7.634635e-02	4.315822e-01	-2.916532e+00	-4.040124e-01	4.714439e-01
## 2354	-1.954599e+00	1.215891e+01	-1.766885e+01	6.936184e-01	1.110648e+00
## 2355	-1.020488e+00	6.133443e+00	-8.903941e+00	3.516975e-01	6.016654e-01
## 2356	-4.487119e-04	2.625777e-03	-3.815635e-03	1.499014e-04	2.730441e-04
## 2357	1.144021e-01	-4.853759e-01	-3.006422e+00	-7.228133e-01	5.966077e-01
## 2359	-2.419538e-02	1.414552e-01	-2.052457e-01	8.086707e-03	1.473099e-02
## 2360	8.049330e-07	-5.917561e-07	5.274215e-05	1.980650e-06	-2.173850e-06
## 2361	7.826252e-02	-4.295712e-01	-7.315394e-01	-3.543945e-01	2.825059e-01
## 2362	-3.853123e-01	2.245211e+00	-4.988108e+00	-1.948966e-01	5.545689e-01
## 2363	5.404662e-02	-3.083602e-01	-3.258311e+00	-7.115913e-01	6.515963e-01
## 2364	-2.952980e-05	1.727437e-04	-2.510249e-04	9.861092e-06	1.797613e-05
## 2365	-4.170905e-01	2.442896e+00	-3.549719e+00	1.394902e-01	2.535358e-01
## 2366	-2.179619e-04	1.275451e-03	-1.853408e-03	7.281506e-05	1.326318e-04
## 2367	-3.610463e-02	2.129543e-01	-2.767555e-01	1.342063e-02	2.101629e-02
## 2368	-2.238354e-05	1.308547e-04	-1.901631e-04	7.468076e-06	1.363695e-05
## 2370	-1.963880e-02	3.309466e-02	-5.250496e-02	1.117023e-03	2.170734e-02
## 2371	-1.904364e-04	1.114203e-03	-1.619181e-03	6.359292e-05	1.159181e-04
## 2372	-4.676028e-02	2.947524e-01	-1.616594e+00	-2.056783e-01	2.458695e-01
## 2374	-2.803148e-01	1.645594e+00	-2.390972e+00	9.399984e-02	1.699420e-01
## 2376	-2.030292e-04	-8.205594e-05	5.071875e-05	-1.667436e-05	2.749963e-04
## 2377	-3.358213e-02	2.621126e-01	4.456831e-01	4.705710e-02	-6.392838e-03
## 2379	-2.017526e-01	1.732628e-01	-3.061151e-01	3.829355e-04	2.428838e-01
## 2380	2.316321e-02	-1.468723e-01	-1.512675e+00	-3.315848e-01	3.063304e-01
## 2381	-1.162459e-01	-4.698083e-02	2.903811e-02	-9.546971e-03	1.574511e-01
## 2382	-2.494008e-07	-2.020077e-07	-1.537356e-07	-9.418238e-08	4.160066e-07
## 2383	-1.249082e-01	7.208777e-01	-2.571879e+00	-2.442549e-01	3.589712e-01
## 2384	-3.124194e-02	1.825619e-01	-2.604507e-01	1.060580e-02	1.892929e-02

## 2385	-2.887254e-02	1.945356e-01	-2.771746e+00	-4.549592e-01	4.750241e-01
## 2387	-9.292203e-02	5.286898e-01	-2.983213e+00	-3.845325e-01	4.677554e-01
## 2388	-1.854655e-04	1.085314e-03	-1.577102e-03	6.196200e-05	1.128533e-04
## 2389	9.951688e-02	-3.967323e-01	-2.353137e+00	-5.713149e-01	4.608804e-01
## 2390	-5.224401e-05	-4.865821e-06	-1.088987e-05	-3.435359e-06	6.904813e-05
## 2392	2.006560e-06	1.118712e-03	1.262099e-02	6.170196e-04	-4.635983e-04
## 2394	-6.200313e-04	3.627987e-03	-5.272586e-03	2.070052e-04	3.774374e-04
## 2396	-1.407435e-04	7.233765e-04	-1.120715e-03	2.834130e-05	1.094540e-04
## 2397	-4.688008e-05	-1.894701e-05	1.171104e-05	-3.850190e-06	6.349754e-05
## 2400	-4.593043e-01	2.713769e+00	-4.553676e+00	4.065920e-02	3.894748e-01
## 2402	5.104235e-02	-3.195832e-01	-2.709431e+00	-6.124962e-01	5.580956e-01
## 2404	-5.569146e-04	3.259028e-03	-4.735848e-03	1.860514e-04	3.388797e-04
## 2405	-1.696905e-06	9.930266e-06	-1.443012e-05	5.669031e-07	1.032544e-06
## 2406	7.125787e-02	-4.529509e-01	-1.043972e+00	-3.445526e-01	2.753221e-01
## 2407	-1.848214e-01	1.080433e+00	-1.570056e+00	6.167409e-02	1.125928e-01
## 2408	-8.320849e-02	4.927618e-01	-1.198262e+00	-6.216084e-02	1.391593e-01
## 2410	-1.189053e-04	6.957798e-04	-1.011065e-03	3.972176e-05	7.235730e-05
## 2411	6.368030e-01	8.096679e-01	-9.318510e-01	8.904354e-02	-9.283853e-01
## 2413	-2.471669e-02	1.451634e-01	-2.121936e-01	8.052751e-03	1.521392e-02
## 2414	-3.004363e-03	1.691128e-02	-2.461249e-02	9.587774e-04	1.908361e-03
## 2415	5.104463e-05	6.238454e-04	-8.585356e-04	4.399232e-05	-1.407390e-04
## 2416	-6.733171e-05	-2.630820e-05	1.546724e-05	-5.485998e-06	9.110687e-05
## 2417	-1.027748e-04	6.012347e-04	-8.737259e-04	3.431532e-05	6.256742e-05
## 2418	2.765921e-04	2.374118e-04	-2.452296e-04	3.100611e-05	-3.895478e-04
## 2419	-1.077805e-02	6.044808e-02	-8.798016e-02	3.426348e-03	6.871055e-03
## 2420	-7.770284e-05	2.370900e-04	-3.619436e-04	1.041776e-05	7.428060e-05
## 2422	1.782206e-01	-6.238355e-01	9.291408e-01	-3.165606e-02	-1.584208e-01
## 2423	-2.375175e-01	6.849370e-02	-1.945235e-01	-1.300237e-02	3.064794e-01
## 2424	-3.641916e-04	2.131229e-03	-3.096950e-03	1.216750e-04	2.216010e-04
## 2426	9.683340e-04	1.027116e+01	-1.438312e+01	6.811210e-01	-1.223770e+00
## 2427	-1.173685e-01	6.826128e-01	-1.618001e+00	-7.825164e-02	1.876443e-01
## 2428	-4.132771e-02	2.736565e-01	7.588393e-03	3.135548e-02	1.203521e-02
## 2430	-1.008630e-01	5.902373e-01	-8.576886e-01	3.369794e-02	6.137289e-02
## 2433	-9.614124e-06	5.615131e-05	-8.160394e-05	3.204179e-06	5.863597e-06

## 2434	8.057903e-02	-3.719527e-01	-2.081033e+00	-5.121528e-01	4.248326e-01
## 2436	1.331286e-02	-3.894316e-02	-1.332074e+00	-2.622606e-01	2.444188e-01
## 2437	-7.096375e-05	4.029732e-04	-6.060984e-04	1.917111e-05	4.831942e-05
## 2438	3.308827e-02	-2.465386e-02	2.164402e+00	8.123886e-02	-8.922582e-02
## 2439	-9.242012e-04	4.215851e-03	-1.881850e-01	-3.384699e-02	3.435702e-02
## 2441	3.164004e-03	-1.904727e-02	-5.288732e-02	-1.617206e-02	1.303019e-02
## 2443	-1.290222e-01	7.568979e-01	-1.254579e+00	1.424378e-02	1.069096e-01
## 2444	2.126532e-02	-1.276022e-01	-2.966158e-01	-9.753929e-02	7.653927e-02
## 2445	-2.882054e-05	1.685378e-04	-2.449210e-04	9.619573e-06	1.755202e-05
## 2448	-4.249547e-04	2.486762e-03	-3.613616e-03	1.419674e-04	2.585846e-04
## 2449	-9.427438e-02	5.516836e-01	-8.016654e-01	3.149681e-02	5.736365e-02
## 2450	-2.690204e-04	1.574194e-03	-2.287523e-03	8.986993e-05	1.637057e-04
## 2451	-1.508212e-02	8.832304e-02	-1.284278e-01	5.026913e-03	9.185502e-03
## 2452	8.076411e-02	1.487286e-01	7.612293e+00	3.124445e-01	-3.032368e-01
## 2453	3.796221e-02	-2.350634e-02	-1.147470e+00	-2.227199e-01	1.736894e-01
## 2454	2.039637e-02	-3.496454e-02	-1.052919e+00	-2.087125e-01	1.824573e-01
## 2456	2.838423e-02	3.412361e-02	-3.878512e-02	3.838135e-03	-4.114652e-02
## 2458	4.932354e-02	8.640592e-02	4.733362e+00	1.934706e-01	-1.864250e-01
## 2460	-1.527491e-04	8.938396e-04	-1.297994e-03	5.106288e-05	9.292923e-05
## 2461	-5.437196e-03	7.143586e-02	-5.170359e+00	-9.446030e-01	9.358324e-01
## 2462	-2.432072e-03	9.512488e-03	-1.407744e-02	4.985372e-04	2.042652e-03
## 2463	2.288523e-03	1.600210e-03	1.865442e-01	7.424596e-03	-7.523005e-03
## 2469	1.819406e-01	-1.049169e+00	2.865895e+00	1.912376e-01	-3.604258e-01
## 2470	-5.662760e-07	2.505508e-06	-3.684418e-06	1.354153e-07	4.409466e-07
## 2471	5.692534e-03	-3.415624e-02	-7.906451e-02	-2.604675e-02	2.042593e-02
## 2473	-1.057267e-01	6.110331e-01	-2.053108e+00	-1.832804e-01	2.806264e-01
## 2474	5.107519e-09	2.398656e-09	4.032146e-07	1.592449e-08	-1.630553e-08
## 2477	4.464707e-01	3.514217e-01	-3.507619e-01	4.804277e-02	-6.251173e-01
## 2479	-2.395620e-04	1.401907e-03	-2.037159e-03	8.003539e-05	1.457684e-04
## 2481	-8.871643e-06	5.173347e-05	-7.523266e-05	2.942925e-06	5.428750e-06
## 2482	-3.836123e-04	1.401816e-03	-2.083160e-03	7.194980e-05	3.340693e-04
## 2483	-8.968654e-02	7.993130e-01	-1.142429e+00	4.837394e-02	2.175992e-02
## 2485	-3.754525e-05	1.768389e-04	-2.742113e-04	6.896067e-06	3.071812e-05
## 2488	3.038234e-01	-1.668744e+00	-5.734070e+00	-1.623019e+00	1.311867e+00

## 2490	-1.459178e-01	8.418062e-01	-3.026270e+00	-2.895268e-01	4.235036e-01
## 2491	-3.260347e-04	1.907907e-03	-2.772448e-03	1.089227e-04	1.983893e-04
## 2492	-6.047807e-05	-3.617742e-06	-1.519239e-05	-3.799090e-06	7.964727e-05
## 2495	-7.858676e-02	4.516782e-01	-1.903926e+00	-2.078028e-01	2.794038e-01
## 2496	1.125144e-01	2.089016e-02	8.527479e+00	3.334678e-01	-3.462394e-01
## 2497	5.106305e-02	-3.178247e-01	-2.431497e+00	-5.598773e-01	5.060112e-01
## 2498	-6.245226e-06	4.477301e-06	-3.923419e-05	-5.851150e-06	1.335593e-05
## 2499	1.423313e-01	-8.438758e-01	-2.199158e+00	-7.129797e-01	5.734389e-01
## 2500	2.514661e-01	-1.958771e-01	1.632339e+01	6.065550e-01	-6.684598e-01
## 2501	6.331946e-02	8.331878e-02	-9.659001e-02	9.040879e-03	-9.264761e-02
## 2503	-2.873838e-04	1.681646e-03	-2.443703e-03	9.599761e-05	1.748873e-04
## 2506	-2.702264e-02	1.910835e-01	-2.301778e+00	-3.681042e-01	3.871190e-01
## 2508	-4.268591e-04	2.498001e-03	-3.629906e-03	1.426169e-04	2.597253e-04
## 2509	4.022793e-02	-2.197842e-01	-2.249713e+00	-4.935909e-01	4.488630e-01
## 2510	-3.364403e-02	1.961251e-01	-2.583272e-01	1.221142e-02	1.994499e-02
## 2511	2.081621e-01	-1.177628e+00	-2.134444e+00	-9.212547e-01	7.254715e-01
## 2513	-2.004462e-04	1.172902e-03	-1.704377e-03	6.696274e-05	1.219770e-04
## 2514	1.450428e-03	-8.702799e-03	-2.013969e-02	-6.635519e-03	5.203375e-03
## 2515	-1.819128e-02	1.179472e-01	-2.053559e-01	3.669293e-04	1.609326e-02
## 2516	-1.263437e-01	7.389710e-01	-1.148222e+00	2.825827e-02	9.067660e-02
## 2517	5.320063e-10	-3.192125e-09	-7.387285e-09	-2.433897e-09	1.908596e-09
## 2518	-1.200488e-01	8.301559e-01	-2.783473e+00	-5.215573e-01	6.478312e-01
## 2520	-9.624166e-02	5.631881e-01	-8.183831e-01	3.215358e-02	5.856160e-02
## 2521	-1.142134e-01	6.504851e-01	-9.462031e-01	3.696841e-02	7.162853e-02
## 2522	-1.178529e-04	6.893951e-04	-1.001873e-03	3.934132e-05	7.175745e-05
## 2523	-1.381125e-01	-5.581779e-02	3.449976e-02	-1.134279e-02	1.870687e-01
## 2524	2.919504e-02	-1.635178e-01	-2.207448e+00	-4.671504e-01	4.335491e-01
## 2525	-1.914077e-03	2.558100e-01	2.715078e+00	1.344530e-01	-9.897995e-02
## 2526	1.440829e-01	-8.645206e-01	-2.000641e+00	-6.591607e-01	5.168941e-01
## 2528	2.139765e-03	1.613273e-03	1.757194e-01	7.005787e-03	-7.081781e-03
## 2529	-2.627678e-05	1.536043e-04	-2.232209e-04	8.766954e-06	1.600949e-05
## 2531	-1.335035e-01	7.863776e-01	-4.168818e+00	-5.217129e-01	6.402295e-01
## 2532	-3.323250e-05	-1.131738e-06	-1.088873e-05	-2.282007e-06	4.391207e-05
## 2533	5.549766e+00	4.791767e+00	-4.952638e+00	6.253573e-01	-7.820891e+00

## 2535	-9.548813e-02	5.586883e-01	-8.118493e-01	3.189583e-02	5.811384e-02
## 2537	-1.524834e-11	8.779600e-11	-3.468724e-10	-3.604764e-11	4.998540e-11
## 2538	1.813695e-02	1.731944e-03	1.356325e+00	5.285869e-02	-5.514278e-02
## 2539	2.968483e-01	-1.782566e+00	-4.337655e+00	-1.398920e+00	1.105382e+00
## 2540	-2.717341e-02	1.590727e-01	-2.313394e-01	9.046771e-03	1.656271e-02
## 2542	-4.606957e-04	2.695898e-03	-3.917540e-03	1.539031e-04	2.803382e-04
## 2545	2.727513e+00	4.937256e+00	-6.047178e+00	4.791308e-01	-4.151596e+00
## 2546	-2.716568e-04	1.589711e-03	-2.310053e-03	9.075941e-05	1.652967e-04
## 2547	2.236173e-01	-1.127267e+00	-8.391881e-02	-7.792996e-01	5.886945e-01
## 2549	-1.551373e-03	9.078615e-03	-1.319235e-02	5.183198e-04	9.439540e-04
## 2552	4.173037e-01	5.820261e-01	-6.826293e-01	6.177359e-02	-6.145147e-01
## 2553	-3.102390e-01	1.796176e+00	-6.525264e+00	-6.305158e-01	9.148386e-01
## 2554	-4.930182e-04	2.885026e-03	-4.192428e-03	1.646892e-04	3.000194e-04
## 2555	1.686494e-01	-5.387944e-01	-1.941251e+00	-5.411305e-01	3.521427e-01
## 2556	-2.893073e-06	1.650546e-05	-2.401580e-05	9.367520e-07	1.812535e-06
## 2558	-4.397250e-04	2.573249e-03	-3.739270e-03	1.469093e-04	2.675621e-04
## 2559	1.979029e-03	-1.093890e-03	1.336963e-01	5.066863e-03	-5.492301e-03
## 2560	-5.083166e-03	1.188017e-02	-2.732269e+00	-5.076645e-01	5.070753e-01
## 2562	5.167995e-02	-1.491828e-01	-2.636887e+00	-5.429358e-01	4.794793e-01
## 2564	2.556366e-03	-1.533753e-02	-3.554785e-02	-1.170727e-02	9.183199e-03
## 2567	4.125460e-02	2.226569e-02	-1.813100e-02	3.760116e-03	-5.654473e-02
## 2569	1.076823e-03	-4.001414e-03	2.216766e-02	-1.635168e-03	9.211026e-04
## 2570	1.577834e-03	4.362690e-03	-5.606306e-03	3.773754e-04	-2.581266e-03
## 2571	6.789874e-01	2.971546e-01	-2.014300e-01	5.727648e-02	-9.223771e-01
## 2572	2.406553e-09	4.080356e-09	2.228484e-07	9.111985e-09	-8.886480e-09
## 2573	-2.741299e-01	1.594646e+00	-3.825929e+00	-1.914405e-01	4.468170e-01
## 2574	-1.432870e-05	8.020611e-05	-1.173201e-04	4.437270e-06	9.259306e-06
## 2576	-2.137750e-04	1.251012e-03	-1.817838e-03	7.142469e-05	1.300732e-04
## 2577	-3.960497e-02	2.731197e-01	-3.947328e-01	1.596715e-02	1.918329e-02
## 2578	-9.024260e-06	5.219246e-05	-1.700300e-04	-1.465541e-05	2.297461e-05
## 2579	-6.057216e-05	3.541437e-04	-5.146912e-04	2.020480e-05	3.690549e-05
## 2580	-3.186912e-02	1.864809e-01	-2.735442e-01	1.016649e-02	1.986723e-02
## 2581	-2.084878e-01	-5.764078e-02	1.483439e-02	-1.535151e-02	2.792154e-01
## 2582	4.929776e-02	-3.079164e-01	-2.513568e+00	-5.719949e-01	5.196584e-01

## 2584	-1.837356e-05	7.179872e-05	-1.202286e-04	1.146394e-06	1.802241e-05
## 2585	-7.145324e-01	4.203313e+00	-6.106756e+00	2.401835e-01	4.321584e-01
## 2588	-1.574334e-01	-2.433772e-02	-1.564572e-02	-1.031562e-02	2.085532e-01
## 2589	-2.504777e-02	-9.767938e-03	5.760023e-03	-2.033480e-03	3.388400e-02
## 2591	-4.579611e-05	-9.299636e-06	-2.387991e-06	-3.324986e-06	6.110553e-05
## 2592	4.971509e-03	3.246993e-02	-4.387042e-02	2.433297e-03	-1.036439e-02
## 2593	-9.355855e-03	-3.781244e-03	2.337185e-03	-7.683765e-04	1.267219e-02
## 2594	2.599658e-01	7.845285e-01	-1.015631e+00	6.655612e-02	-4.331362e-01
## 2596	-1.788874e-01	-3.482868e-02	-7.739601e-03	-1.219870e-02	2.378290e-01
## 2597	-2.489275e-02	1.456721e-01	-2.116796e-01	8.316768e-03	1.514634e-02
## 2598	-1.187595e-01	6.286936e-01	-9.166534e-01	3.524115e-02	8.020311e-02
## 2601	8.930139e-06	-3.376313e-05	-8.651686e-05	-2.732547e-05	1.761511e-05
## 2602	-4.201270e-05	2.457566e-04	-3.571289e-04	1.402826e-05	2.557687e-05
## 2603	3.843031e-02	1.794566e-02	-1.297782e-02	3.316735e-03	-5.234035e-02
## 2604	-9.413195e-02	5.507992e-01	-8.003829e-01	3.144585e-02	5.728303e-02
## 2605	-2.863628e-01	1.676238e+00	-3.926182e+00	-1.833607e-01	4.497816e-01
## 2606	-1.153891e-02	6.646566e-02	-2.580950e-01	-2.644843e-02	3.700461e-02
## 2607	6.863700e-06	-4.127578e-05	-1.092787e-04	-3.404738e-05	2.724222e-05
## 2608	-7.072555e-04	4.138826e-03	-6.014256e-03	2.362900e-04	4.303474e-04
## 2610	-5.500786e-02	4.790936e-01	-6.877173e-01	2.883367e-02	1.472929e-02
## 2611	-2.417828e-05	1.051590e-04	-1.590459e-04	4.860030e-06	1.983479e-05
## 2612	2.466200e-02	-1.834735e-02	1.613529e+00	6.056591e-02	-6.651505e-02
## 2613	7.848723e-03	1.193250e-02	-1.421831e-02	1.227390e-03	-1.167540e-02
## 2614	-2.405504e-03	1.308573e-02	-1.704844e-01	-2.761315e-02	2.958004e-02
## 2615	-1.386508e-06	-5.718744e-07	8.473823e-07	-9.759785e-08	1.869788e-06
## 2616	-5.899363e-05	2.785470e-05	-6.008003e-05	-1.870452e-06	7.419951e-05
## 2617	-3.942085e-04	2.306820e-03	-3.352132e-03	1.316949e-04	2.398776e-04
## 2619	-3.958354e-04	2.316370e-03	-3.366001e-03	1.322417e-04	2.408628e-04
## 2620	7.025514e-03	-5.137642e-03	4.606411e-01	1.730215e-02	-1.898467e-02
## 2621	-3.773296e-02	2.264135e-01	-2.582083e-01	1.567495e-02	2.066369e-02
## 2622	1.547351e-03	-9.212336e-03	-2.040104e-02	-6.983046e-03	5.465421e-03
## 2624	-5.921699e-04	-4.923572e-04	-5.137463e-04	-2.556476e-04	1.020060e-03
## 2628	-9.040383e-02	-3.653667e-02	2.258269e-02	-7.424623e-03	1.224489e-01
## 2629	-8.307787e-02	4.859302e-01	-7.372814e-01	2.190786e-02	5.633876e-02

## 2630	-1.865820e-02	-7.530038e-03	4.645857e-03	-1.531638e-03	2.527062e-02
## 2631	8.947409e-03	-1.647692e-02	-7.919997e-01	-1.537405e-01	1.415103e-01
## 2634	-6.462293e-02	-2.611512e-02	1.613959e-02	-5.307161e-03	8.752929e-02
## 2635	-1.700576e-01	9.948214e-01	-1.445618e+00	5.679339e-02	1.035160e-01
## 2636	-1.781143e-01	-7.198594e-02	4.449418e-02	-1.462812e-02	2.412498e-01
## 2637	-1.143833e-03	6.693700e-03	-9.726777e-03	3.821593e-04	6.959811e-04
## 2638	5.685242e-03	2.068655e-02	-1.424933e+00	-2.600288e-01	2.485699e-01
## 2639	-2.750144e-04	1.609353e-03	-2.338598e-03	9.188030e-05	1.673409e-04
## 2643	-1.152666e-02	2.398181e-04	-3.974285e-03	-6.207607e-04	1.502838e-02
## 2644	-9.979157e-04	4.734210e-02	-3.212781e+00	-5.860008e-01	5.774247e-01
## 2645	-1.284187e-01	7.384417e-01	-3.014306e+00	-3.213108e-01	4.385223e-01
## 2646	3.344014e-02	1.509558e-02	-1.056528e-02	2.851478e-03	-4.548198e-02
## 2647	9.462764e-05	-5.771788e-04	-2.733936e-03	-7.018753e-04	6.055974e-04
## 2648	-1.296253e-05	7.585656e-05	-1.102291e-04	4.330819e-06	7.887240e-06
## 2649	1.023238e-05	-7.639325e-06	6.691610e-04	2.511439e-05	-2.758641e-05
## 2650	8.344248e-03	1.783994e-01	-2.470202e-01	1.232237e-02	-3.216513e-02
## 2651	-9.341107e-02	5.466400e-01	-7.943363e-01	3.120889e-02	5.683740e-02
## 2652	1.033146e-04	6.606638e-05	-5.995456e-05	1.007809e-05	-1.428110e-04
## 2653	-3.587246e-02	2.419344e-01	5.219135e-02	2.948845e-02	8.726895e-03
## 2654	-1.590702e-02	1.157363e-01	-3.347722e+00	-5.887409e-01	5.951311e-01
## 2655	-1.643615e-04	-6.642805e-05	4.105917e-05	-1.349866e-05	2.226221e-04
## 2656	8.213965e-06	-3.493673e-05	-8.927921e-05	-2.822546e-05	1.946318e-05
## 2657	-2.771957e-04	2.029821e-03	-2.961630e-03	1.133617e-04	1.263456e-04
## 2658	-1.121440e-01	6.562636e-01	-9.536325e-01	3.746764e-02	6.823580e-02
## 2659	-1.138855e-02	6.757292e-02	-9.851809e-02	3.796197e-03	6.888531e-03
## 2660	-7.447016e-03	7.031929e-02	-1.008777e-01	4.241347e-03	1.368171e-03
## 2661	1.712449e-02	1.429632e-02	-1.459832e-02	1.896895e-03	-2.407382e-02
## 2662	-3.633645e-02	9.364499e-02	-1.424969e-01	4.223184e-03	3.629882e-02
## 2663	-2.866274e-02	2.719358e-01	9.179636e-01	6.650948e-02	-2.517800e-02
## 2665	-1.904731e-05	-7.675116e-06	4.726013e-06	-1.562784e-06	2.579621e-05
## 2667	4.218142e+00	2.572700e+00	-2.268098e+00	4.041681e-01	-5.816824e+00
## 2670	4.235992e-02	-2.253778e-01	-2.715466e-01	-1.789072e-01	1.410292e-01
## 2671	-2.944708e-04	1.723216e-03	-2.504054e-03	9.838121e-05	1.791787e-04
## 2672	-2.123283e-01	1.241563e+00	-2.221958e+00	-7.346336e-03	2.065587e-01

##	2673	2.147228e-03	-1.287976e-02	-2.981433e-02	-9.821867e-03	7.701512e-03
##	2675	-3.660322e-02	2.173844e-01	-2.755929e-01	1.397507e-02	2.096601e-02
##	2679	-1.588047e-02	9.460045e-02	-1.429021e-01	4.382039e-03	1.048557e-02
##	2681	-7.484719e-01	4.410007e+00	-6.406672e+00	2.520603e-01	4.518461e-01
##	2683	-2.372739e-04	1.388468e-03	-2.017624e-03	7.926947e-05	1.443802e-04
##	2685	8.390126e-01	9.529452e-01	-1.068500e+00	1.097437e-01	-1.209609e+00
##	2687	-1.077734e+00	6.309403e+00	-9.138363e+00	3.613840e-01	6.547726e-01
##	2688	-8.978336e-02	5.432222e-01	-5.652002e-01	3.968656e-02	4.738558e-02
##	2690	-1.286698e-04	2.870881e-04	-4.461344e-04	1.127615e-05	1.345526e-04
##	2692	-8.837947e-05	5.171586e-04	-7.515014e-04	2.952477e-05	5.378081e-05
##	2695	-6.596808e-03	1.660609e-01	-2.345198e-01	1.066739e-02	-1.116809e-02
##	2696	8.934671e-02	-7.436204e-02	5.707642e+00	2.050850e-01	-2.277804e-01
##	2698	-7.522819e-05	2.958004e-04	-4.387844e-04	1.530769e-05	6.321062e-05
##	2700	-2.085420e-04	1.220100e-03	-1.773110e-03	6.962972e-05	1.269500e-04
##	2703	-1.484928e-02	6.757700e-02	-3.036666e+00	-5.463244e-01	5.544967e-01
##	2708	-3.789369e-04	2.217520e-03	-3.222342e-03	1.266015e-04	2.305729e-04
##	2709	1.702582e-06	-9.625965e-06	1.709561e-05	3.212391e-08	-1.647517e-06
##	2710	-2.511700e-04	1.470134e-03	-2.132634e-03	8.407518e-05	1.527093e-04
##	2713	1.654163e-01	-1.030040e+00	-2.376769e+00	-7.840441e-01	6.223821e-01
##	2714	6.722230e-02	-2.992262e-01	-2.740061e+00	-6.116051e-01	5.358728e-01
##	2715	-5.215765e-02	-2.107768e-02	1.302633e-02	-4.283447e-03	7.064554e-02
##	2716	-2.899918e-04	1.696985e-03	-2.465939e-03	9.688299e-05	1.764562e-04
##	2717	5.100465e-03	2.077140e-03	-1.296227e-03	4.199287e-04	-6.910279e-03
##	2719	-7.309345e-07	3.223810e-06	-4.744208e-06	1.735900e-07	5.708962e-07
##	2721	4.409547e+00	7.614125e+00	-9.261629e+00	7.501381e-01	-6.667989e+00
##	2722	-1.900086e-05	2.527510e-06	-1.424731e-05	-1.763817e-06	2.539035e-05
##	2724	6.508634e-02	-1.343989e-01	-2.617031e+00	-5.344132e-01	4.534901e-01
##	2725	9.376479e-02	-4.698278e-01	-1.794576e-01	-3.605108e-01	2.807711e-01
##	2726	-3.619283e-04	2.117996e-03	-3.077718e-03	1.209200e-04	2.202221e-04
##	2727	-2.270429e-03	-6.416120e-04	1.810007e-04	-1.681029e-04	3.042310e-03
##	2728	-2.940134e-04	1.720530e-03	-2.500154e-03	9.822711e-05	1.789022e-04
##	2729	-3.029075e-04	1.772540e-03	-2.575753e-03	1.011927e-04	1.843218e-04
##	2730	-1.098602e-05	5.285534e-05	-7.742220e-05	2.909702e-06	8.048105e-06
##	2731	-6.163945e-04	3.606864e-03	-5.241710e-03	2.058331e-04	3.751735e-04

##	2732	-1.815296e-10	1.078151e-09	-1.372740e-09	6.817682e-11	1.050956e-10
##	2733	3.341906e-02	3.119852e-02	-3.310314e-02	3.921612e-03	-4.737455e-02
##	2734	-1.850219e-01	1.082220e+00	-1.572618e+00	6.178191e-02	1.126417e-01
##	2735	-8.525752e-05	-2.924226e-05	1.378488e-05	-6.695521e-06	1.148966e-04
##	2736	2.709672e-08	-1.314637e-08	1.850942e-06	7.037073e-08	-7.594441e-08
##	2737	-4.452488e-05	2.603328e-04	-3.783360e-04	1.485565e-05	2.712393e-05
##	2741	-1.746635e-04	9.321103e-04	-1.372228e-03	4.995132e-05	1.193959e-04
##	2742	-1.330995e-01	-3.114486e-02	1.560416e-03	-9.424343e-03	1.775781e-01
##	2743	-1.001470e-05	5.843694e-05	-8.493117e-05	3.333599e-06	6.114831e-06
##	2744	-2.756187e-05	1.562241e-04	-8.686383e-04	-1.112146e-04	1.359666e-04
##	2746	-6.439828e-06	1.784066e-06	-2.244891e-05	-3.592302e-06	1.151297e-05
##	2747	-3.680151e-04	2.152326e-03	-3.129705e-03	1.224877e-04	2.244548e-04
##	2749	-2.622672e-02	1.515997e-01	-2.203944e-01	8.637456e-03	1.618203e-02
##	2750	-1.189053e-04	6.957798e-04	-1.011065e-03	3.972176e-05	7.235730e-05
##	2751	-2.838542e-01	1.649817e+00	-4.229086e+00	-2.487652e-01	5.126469e-01
##	2752	5.313537e-02	5.175582e-02	-5.564314e-02	6.378299e-03	-7.558065e-02
##	2754	1.228076e-01	1.523507e-01	-1.743991e-01	1.691969e-02	-1.785870e-01
##	2756	-1.892814e-05	9.962948e-05	-1.527037e-04	4.210706e-06	1.420036e-05
##	2757	-3.281811e-02	1.927386e-01	-2.712692e-01	1.134541e-02	1.968447e-02
##	2758	1.735041e-02	-1.041159e-01	-2.426701e-01	-7.970828e-02	6.257307e-02
##	2760	-2.226517e-01	1.305226e+00	-2.037164e+00	4.820817e-02	1.612089e-01
##	2761	6.522604e-03	-5.149835e-02	-1.955509e+00	-3.830933e-01	3.729202e-01
##	2763	-7.906176e-03	4.709172e-02	-7.031594e-02	2.334933e-03	5.069196e-03
##	2764	3.620078e-03	-2.173646e-02	-5.259498e-02	-1.700252e-02	1.342341e-02
##	2765	-2.995244e-01	1.741816e+00	-4.811714e+00	-3.275724e-01	6.051628e-01
##	2767	7.188585e-02	4.042483e-01	-5.429604e-01	3.085921e-02	-1.420996e-01
##	2768	-5.944382e-02	4.856289e-01	1.029417e+00	9.509455e-02	-2.015383e-02
##	2769	-1.068509e-01	6.249721e-01	-9.520962e-01	2.745515e-02	7.317350e-02
##	2770	-2.405006e-04	4.267332e-04	-6.770523e-04	1.413106e-05	2.642591e-04
##	2771	-8.053720e-02	-3.147257e-02	1.862579e-02	-6.542186e-03	1.089562e-01
##	2773	-3.296023e-02	2.105252e-01	-9.518901e-01	-1.089431e-01	1.375734e-01
##	2774	-1.424217e-04	8.107486e-04	-2.082772e-03	-1.230836e-04	2.564178e-04
##	2776	-4.105328e-04	2.402283e-03	-3.490946e-03	1.371276e-04	2.498350e-04
##	2777	2.875869e-03	-2.873927e-02	-6.602070e-02	-2.181397e-02	1.948147e-02

##	2778	-4.199633e-04	2.457377e-03	-3.570964e-03	1.402808e-04	2.555758e-04
##	2779	-9.523860e-02	5.573243e-01	-8.164699e-01	3.058160e-02	5.917241e-02
##	2781	-1.242160e-05	7.247423e-05	-1.053348e-04	4.133985e-06	7.585617e-06
##	2782	9.562350e-02	5.995504e-01	1.508433e+01	6.529418e-01	-5.634071e-01
##	2784	8.400340e-02	1.136196e-01	-1.324561e-01	1.219953e-02	-1.232798e-01
##	2787	-2.839618e-02	1.646325e-01	-2.393158e-01	9.384478e-03	1.746211e-02
##	2788	-8.453010e-02	5.018179e-01	-1.662759e+00	-1.461524e-01	2.232754e-01
##	2790	-4.839358e-07	6.076084e-07	-1.002922e-06	1.369328e-08	5.596994e-07
##	2791	1.425703e-04	5.191788e-04	1.630035e-02	6.918241e-04	-6.402915e-04
##	2792	-2.838775e-01	1.950496e+00	-2.831821e+00	1.116336e-01	1.406628e-01
##	2793	4.016843e-02	-9.060063e-02	1.708216e+00	1.669568e-02	-3.500907e-02
##	2794	-3.594799e-02	2.426260e-01	5.426985e-02	2.964766e-02	8.672225e-03
##	2795	-1.065814e-05	6.210042e-05	-9.026629e-05	3.540644e-06	6.519626e-06
##	2798	3.836214e-02	-2.868931e-02	2.508317e+00	9.413389e-02	-1.034067e-01
##	2799	-9.502494e-01	1.162647e+01	-1.632901e+01	7.297691e-01	-1.501770e-01
##	2800	-1.839036e-02	1.072286e-01	-2.177061e-01	-5.465951e-03	2.267663e-02
##	2802	2.257862e-08	-9.836252e-09	1.554775e-06	5.924771e-08	-6.373852e-08
##	2807	-3.084397e-07	1.093167e-06	-1.629251e-06	5.525334e-08	2.729876e-07
##	2811	1.422746e-02	-9.079456e-02	-1.020933e+00	-2.210953e-01	2.054023e-01
##	2812	-1.047753e-01	5.997855e-01	-2.885333e+00	-3.428039e-01	4.375765e-01
##	2813	-1.157808e-04	2.350623e-04	-3.673360e-04	8.889278e-06	1.235617e-04
##	2814	2.118389e-02	-1.584062e-02	1.385070e+00	5.198010e-02	-5.710132e-02
##	2815	2.725934e-01	-1.640602e+00	-4.540203e+00	-1.390115e+00	1.119446e+00
##	2816	-1.193889e-02	2.525433e-01	1.935187e+00	1.038037e-01	-6.745309e-02
##	2817	2.398712e+00	7.620563e-01	-1.597983e+00	-5.813989e-02	-2.985905e+00
##	2818	1.146079e+00	1.696928e+00	-2.012528e+00	1.762043e-01	-1.699437e+00
##	2820	-9.131830e-03	9.915938e-02	-1.604250e+00	-2.677673e-01	2.705576e-01
##	2821	-7.100103e-04	4.148710e-03	-6.091223e-03	2.251366e-04	4.442811e-04
##	2822	3.696708e-04	2.019030e-04	-1.659713e-04	3.382112e-05	-5.069354e-04
##	2823	1.845887e-06	-1.369853e-06	1.208064e-04	4.535057e-06	-4.979868e-06
##	2824	-5.868484e-05	3.433670e-04	-4.989628e-04	1.960221e-05	3.571516e-05
##	2826	-5.206657e-04	3.046484e-03	-4.427208e-03	1.738773e-04	3.169082e-04
##	2827	-3.019119e-04	1.766413e-03	-2.567004e-03	1.008139e-04	1.837777e-04
##	2828	-2.004359e+00	1.179875e+01	-1.627369e+01	7.074515e-01	1.191286e+00

## 2829	-3.665128e-05	-1.384051e-05	7.554107e-06	-2.990556e-06	4.957159e-05
## 2831	-6.131892e-04	3.585552e-03	-5.222992e-03	2.023240e-04	3.757678e-04
## 2832	5.101263e+00	1.854879e+00	-3.004260e+00	2.710021e-02	-6.511437e+00
## 2833	6.920700e+00	3.164478e+00	-2.242948e+00	5.928276e-01	-9.417671e+00
## 2834	-2.809661e-04	1.644187e-03	-2.389214e-03	9.386942e-05	1.709614e-04
## 2835	6.920160e-02	-1.255936e-01	3.402623e+00	6.947705e-02	-9.669893e-02
## 2837	1.416976e-01	-8.502112e-01	-1.967921e+00	-6.483242e-01	5.084121e-01
## 2838	4.807748e-05	-3.146998e-04	3.684055e-05	-3.429189e-05	-1.560874e-05
## 2839	-2.641229e-04	1.544096e-03	-2.244423e-03	8.803339e-05	1.610006e-04
## 2840	7.989104e-03	-4.793640e-02	-1.110060e-01	-3.656324e-02	2.867470e-02
## 2843	-8.158352e-08	-3.801015e-08	9.653889e-09	-1.036358e-08	1.143896e-07
## 2845	4.497950e+00	1.817898e+00	-1.123653e+00	3.694081e-01	-6.092326e+00
## 2846	5.755676e-46	-3.368215e-45	4.894434e-45	-1.922994e-46	-3.502120e-46
## 2847	7.791496e-02	1.355644e-01	-1.650890e-01	1.332207e-02	-1.179423e-01
## 2848	-1.231632e-04	7.206373e-04	-1.047205e-03	4.113743e-05	7.495807e-05
## 2850	-2.803973e-06	1.640381e-05	-2.460084e-05	7.934722e-07	1.847946e-06
## 2852	-3.585852e-02	2.166570e-01	-2.283742e-01	1.572568e-02	1.901843e-02
## 2853	4.218013e-05	-2.545534e-04	-8.071212e-04	-2.349115e-04	1.928197e-04
## 2855	-1.787501e-04	1.046018e-03	-1.519999e-03	5.971864e-05	1.087668e-04
## 2856	1.200050e-01	-2.439476e-01	-1.818244e+00	-4.210499e-01	2.786595e-01
## 2857	1.681789e-04	-9.642672e-04	-1.686086e-03	-7.149149e-04	5.551883e-04
## 2860	-7.449563e-06	4.347164e-05	-6.317936e-05	2.480170e-06	4.548030e-06
## 2861	-4.905949e-05	-1.957520e-05	1.184576e-05	-4.022901e-06	6.642975e-05
## 2862	-1.002255e-03	3.035481e-03	-4.564059e-03	1.465020e-04	9.473482e-04
## 2864	-1.559562e-03	9.126541e-03	-1.326200e-02	5.210560e-04	9.489371e-04
## 2865	-8.773440e-05	5.132805e-04	-7.458921e-04	2.929853e-05	5.340442e-05
## 2866	-1.722407e-04	1.006986e-03	-1.463975e-03	5.736088e-05	1.050369e-04
## 2867	-1.086968e-01	6.291344e-01	-1.971200e+00	-1.619861e-01	2.623456e-01
## 2868	-2.929116e-06	1.697715e-05	-2.468100e-05	9.672984e-07	1.802231e-06
## 2869	-1.879224e-04	3.411540e-03	-4.837138e-03	2.157605e-04	-1.605010e-04
## 2870	1.782416e-02	1.318176e-01	-3.176783e-01	-1.624693e-02	-1.332352e-02
## 2871	-7.088198e-04	4.147961e-03	-6.027586e-03	2.368013e-04	4.313115e-04
## 2872	-5.850026e-04	1.850327e-03	-2.773748e-03	9.076571e-05	5.435591e-04
## 2873	-2.115761e-01	1.231374e+00	-2.823199e+00	-1.232721e-01	3.206461e-01

## 2875	-3.685136e-02	2.120502e-01	-3.083296e-01	1.207244e-02	2.285241e-02
## 2877	1.379918e-02	6.160377e-03	-3.989525e-03	1.181595e-03	-1.876534e-02
## 2878	-8.583487e-02	4.860405e-01	-7.072038e-01	2.758645e-02	5.417593e-02
## 2879	-4.099766e-01	4.757122e+00	-6.786581e+00	2.936481e-01	-3.151081e-02
## 2880	-2.882531e-02	1.675696e-01	-2.423969e-01	9.600879e-03	1.764535e-02
## 2881	-8.477688e-02	4.961173e-01	-7.209178e-01	2.832463e-02	5.158314e-02
## 2883	-3.049086e-01	1.852239e+00	-2.687932e+00	1.063781e-01	1.774387e-01
## 2884	-9.339853e-02	5.464075e-01	-7.940208e-01	3.119153e-02	5.685129e-02
## 2885	-2.102727e-05	1.229351e-04	-1.786524e-04	7.016411e-06	1.280933e-05
## 2887	-8.462990e-06	4.940872e-05	-7.180638e-05	2.819182e-06	5.163898e-06
## 2888	4.905258e+00	9.004069e+00	-1.104996e+01	8.699884e-01	-7.481257e+00
## 2889	2.398509e-02	-1.783943e-02	1.569290e+00	5.890590e-02	-6.469116e-02
## 2890	-1.399334e-01	8.189015e-01	-1.189965e+00	4.675304e-02	8.514294e-02
## 2891	1.226981e-03	6.136117e-04	-4.714106e-04	1.085656e-04	-1.675907e-03
## 2892	-8.352350e-01	4.888176e+00	-7.103116e+00	2.790792e-01	5.081658e-01
## 2893	2.406553e-09	4.080356e-09	2.228484e-07	9.111985e-09	-8.886480e-09
## 2894	-1.410883e+00	8.258469e+00	-1.242989e+01	3.911113e-01	9.376362e-01
## 2895	7.577375e-01	1.297128e+00	-1.575727e+00	1.281537e-01	-1.144484e+00
## 2896	-1.193201e-04	6.982008e-04	-1.014584e-03	3.985980e-05	7.261061e-05
## 2898	1.732060e-02	7.650794e-03	-5.237315e-03	1.465739e-03	-2.353771e-02
## 2901	-1.056055e-01	6.331302e-01	-2.544588e+00	-2.680458e-01	3.630025e-01
## 2903	-1.727474e-01	1.037093e+00	-2.200454e+00	-7.064409e-02	2.304717e-01
## 2904	3.313011e-03	3.110800e-02	-2.556244e-01	-3.765625e-02	3.137529e-02
## 2905	-9.117922e-05	-1.900283e-04	-9.623366e-03	-1.863941e-03	1.965057e-03
## 2906	-1.860201e-05	5.345351e-05	-8.130761e-05	2.408177e-06	1.804448e-05
## 2907	1.269345e-08	-2.698335e-09	9.056277e-07	3.485428e-08	-3.699020e-08
## 2908	1.127466e-03	-5.029220e-03	1.053610e-02	-2.836164e-03	1.969318e-03
## 2909	1.936085e-01	1.762265e+00	-2.404950e+00	1.278768e-01	-4.629805e-01
## 2910	-1.166457e-01	1.252220e-01	-2.120308e-01	1.887883e-03	1.374394e-01
## 2911	-2.194898e-01	1.288400e+00	-4.115741e+00	-3.465216e-01	5.479708e-01
## 2912	-1.706946e-01	9.925007e-01	-2.413425e+00	-1.251775e-01	2.841446e-01
## 2913	-3.403697e-04	1.991804e-03	-2.894352e-03	1.137143e-04	2.071090e-04
## 2914	-1.647564e-02	9.098508e-02	-9.601043e-01	-1.498204e-01	1.637086e-01
## 2916	7.815815e-06	5.231547e-08	-1.835394e-05	-3.449623e-06	-6.379326e-06

## 2918	-2.032927e+00	1.197680e+01	-1.640376e+01	7.226170e-01	1.204414e+00
## 2920	3.742234e-03	5.533812e-02	-7.625038e-02	3.887754e-03	-1.148639e-02
## 2921	2.760766e-01	-1.628766e+00	-5.894947e+00	-1.639901e+00	1.361130e+00
## 2922	-6.312439e-04	3.693728e-03	-5.368056e-03	2.107697e-04	3.842351e-04
## 2923	-1.675080e-04	9.471739e-04	-1.639861e-03	4.760833e-06	1.542609e-04
## 2924	-3.308521e-05	1.923963e-04	-2.798790e-04	1.092837e-05	2.032032e-05
## 2925	1.584310e-07	-1.100577e-07	1.045244e-05	3.933419e-07	-4.304878e-07
## 2926	-3.499492e-05	5.216060e-06	-2.102962e-05	-2.088625e-06	4.558730e-05
## 2927	-1.077945e-01	6.235126e-01	-9.064355e-01	3.552881e-02	6.645958e-02
## 2928	3.140583e-02	1.838895e-02	-1.389762e+00	-2.542977e-01	2.108381e-01
## 2929	7.332122e-02	6.678181e-02	-7.029373e-02	8.493265e-03	-1.037409e-01
## 2930	1.388466e-01	-6.687664e-01	-2.411928e+00	-6.718416e-01	5.254910e-01
## 2931	2.290515e+00	2.152729e+00	-2.289012e+00	2.697443e-01	-3.248733e+00
## 2933	2.609958e-04	-3.577217e-05	1.884094e-02	7.274776e-04	-7.686888e-04
## 2934	4.377619e-01	6.005539e-01	-7.021048e-01	6.413449e-02	-6.434462e-01
## 2935	1.385650e-01	-3.003288e-01	-1.278581e+00	-3.385977e-01	1.770197e-01
## 2936	-5.234940e-04	3.063476e-03	-4.451629e-03	1.748977e-04	3.185310e-04
## 2938	-1.802171e-03	7.267378e-02	-7.218623e-01	-1.112794e-01	1.082599e-01
## 2939	4.143174e-03	-2.485860e-02	-5.751781e-02	-1.895404e-02	1.486324e-02
## 2940	-3.843445e-02	3.426987e-01	-1.398376e+00	-1.491007e-01	1.770071e-01
## 2941	-3.043065e-04	1.780772e-03	-2.587691e-03	1.016670e-04	1.851638e-04
## 2943	-3.728154e-01	2.203925e+00	-3.201482e+00	1.260175e-01	2.242150e-01
## 2945	1.936855e-01	-1.162145e+00	-2.689494e+00	-8.861057e-01	6.948616e-01
## 2946	-1.813194e-01	1.236879e+00	-5.995495e+00	-7.155576e-01	8.673951e-01
## 2947	5.889585e-03	-4.286144e-03	3.863936e-01	1.451600e-02	-1.592362e-02
## 2948	6.181619e+00	4.718302e+00	-4.650373e+00	6.553742e-01	-8.637506e+00
## 2950	-2.733460e-01	1.600438e+00	-3.382204e+00	-1.064585e-01	3.616011e-01
## 2954	-3.953350e-02	2.382794e-01	-2.369292e-01	1.783562e-02	2.071254e-02
## 2955	6.502521e-03	-2.968485e-03	-3.564737e+00	-6.684573e-01	6.521606e-01
## 2956	-6.746154e-05	-2.498486e-05	1.348784e-05	-5.421382e-06	9.113473e-05
## 2957	1.140190e-04	1.860343e-02	-2.600955e-02	1.241018e-03	-2.364313e-03
## 2959	2.204750e-02	-6.872134e-02	-2.027891e+00	-4.023609e-01	3.734370e-01
## 2961	1.482778e-02	-1.205228e-02	-4.466681e-01	-8.765027e-02	6.864480e-02
## 2962	-1.498256e-01	8.778151e-01	-2.181340e+00	-1.194787e-01	2.585346e-01

## 2964	7.747364e-02	-2.971234e-01	-1.931176e+00	-4.594994e-01	3.727150e-01
## 2965	-1.173715e-03	2.035064e-03	-3.218492e-03	7.045849e-05	1.290628e-03
## 2966	-8.836802e-07	1.295873e-06	-2.124413e-06	3.135673e-08	1.005776e-06
## 2967	1.613883e-05	6.788179e-05	-9.256102e-05	4.857474e-06	-2.862789e-05
## 2968	-6.574660e-03	5.339679e-03	-9.546597e-03	-7.917444e-06	7.951586e-03
## 2969	-1.088184e-04	5.069809e-04	-7.448657e-04	2.750279e-05	8.190645e-05
## 2970	-2.209043e-02	1.291991e-01	-1.875852e-01	7.381721e-03	1.344634e-02
## 2974	-1.618016e-01	1.050392e+00	-1.527884e+00	5.961364e-02	8.742150e-02
## 2976	3.732411e-02	-1.527119e-01	-1.413661e+00	-3.150043e-01	2.725419e-01
## 2977	1.404795e-02	-3.291469e-02	-2.380536e+00	-4.565958e-01	4.350934e-01
## 2979	-2.878509e-03	1.684500e-02	-2.447788e-02	9.617214e-04	1.751468e-03
## 2980	3.720652e-04	-4.099133e-04	3.606124e-02	1.345506e-03	-1.253503e-03
## 2981	-1.006573e+00	6.201120e+00	-8.994241e+00	3.569687e-01	5.754192e-01
## 2982	7.909584e-08	-5.102216e-08	5.262051e-06	1.985169e-07	-2.165231e-07
## 2985	6.820731e-04	3.311883e-03	-4.418796e-03	2.579857e-04	-1.285858e-03
## 2986	-1.783950e-04	1.043792e-03	-1.516819e-03	5.958169e-05	1.085767e-04
## 2987	-9.033254e-05	-3.649440e-05	2.254467e-05	-7.418134e-06	1.223510e-04
## 2988	4.001956e-02	-2.622911e-01	-3.916097e+00	-8.195658e-01	7.733190e-01
## 2989	2.926448e-02	1.866260e-02	-1.687487e-02	2.858042e-03	-4.045268e-02
## 2992	-2.129716e-04	1.246492e-03	-1.808982e-03	7.125547e-05	1.295100e-04
## 2994	9.255790e-02	-6.395602e-01	-2.663876e+00	-7.092425e-01	6.188035e-01
## 2995	-3.921377e-02	2.294785e-01	-3.334607e-01	1.310148e-02	2.386015e-02
## 2996	1.046037e-03	-6.276589e-03	-1.455451e-02	-4.791152e-03	3.758241e-03
## 2997	4.208548e-03	-2.524635e-02	-5.835670e-02	-1.924691e-02	1.509221e-02
## 2998	-1.284713e-05	2.091901e-03	-2.937335e-03	1.372823e-04	-2.314922e-04
##	[,31]	[,32]	[,33]	[,34]	[,35]
## 3	-2.618561e+00	1.004827e+01	8.570550e-01	-3.331831e-01	-9.856096e-01
## 4	-2.596732e-04	8.348357e-04	7.501959e-05	1.293394e-07	-8.985987e-05
## 6	-1.036076e-03	3.292692e-03	3.104209e-04	-7.274372e-06	-3.532373e-04
## 7	-6.185110e+00	2.014061e+01	1.802616e+00	-4.947809e-02	-2.152744e+00
## 8	-2.290509e-06	-1.441599e-07	2.002649e-07	1.544329e-06	-4.298931e-07
## 9	-1.434506e-03	4.612865e-03	4.144876e-04	5.047926e-07	-4.964538e-04
## 10	-6.715776e-05	2.130153e-04	1.925492e-05	6.670910e-07	-2.315784e-05
## 11	-1.766150e-03	5.678275e-03	5.106533e-04	3.414915e-07	-6.110547e-04

## 13	-1.094845e+00	-6.719268e-01	5.763347e-02	8.608237e-01	-1.744299e-01
## 15	-1.374799e+00	5.292095e-01	1.528720e+00	-7.936987e-01	6.298046e-02
## 16	-1.897851e-01	5.091407e-02	2.175740e-01	-1.142228e-01	1.180122e-02
## 18	-5.548958e-01	1.784332e+00	1.603280e-01	1.947902e-04	-1.920317e-01
## 21	-1.918694e-05	2.838254e-05	3.719923e-06	7.136681e-06	-5.448674e-06
## 22	3.664602e-01	-4.796500e-02	4.309804e-02	-1.321776e-01	-7.636163e-02
## 23	3.283363e+00	2.778693e+00	8.089981e-01	-1.559043e+00	-1.260874e+00
## 24	-1.725874e-05	5.320996e-05	4.852351e-06	4.842083e-07	-5.873989e-06
## 25	-5.420500e-03	4.839997e-03	5.228420e-03	-2.569724e-03	-1.321127e-04
## 26	-2.631279e-04	8.454394e-04	7.599889e-05	2.498156e-07	-9.105378e-05
## 27	1.937926e-02	3.746061e-02	5.591301e-04	-2.048212e-02	1.837601e-03
## 28	1.972437e+01	3.090371e+01	1.217496e-01	-1.936626e+01	2.225565e+00
## 29	-1.327206e-01	4.253525e-01	3.852902e-02	2.638685e-05	-4.579236e-02
## 30	-3.396916e-03	-1.670501e-03	2.044534e-04	2.585908e-03	-5.615373e-04
## 31	-2.464225e-01	7.085161e-01	9.558466e-02	-1.702767e-02	-7.366648e-02
## 32	1.443703e+00	2.715810e+00	5.524207e-01	-8.602810e-01	-8.225759e-01
## 35	-6.380024e-01	2.051638e+00	1.843444e-01	2.102219e-04	-2.207954e-01
## 36	-1.088650e+00	3.536550e+00	3.192667e-01	-3.817883e-03	-3.831790e-01
## 38	-5.154741e-05	1.289481e-04	1.262246e-05	7.572373e-06	-1.604382e-05
## 39	-3.143031e+00	1.633471e+00	3.373180e+00	-1.730005e+00	8.593588e-02
## 40	2.837112e+01	2.381614e+01	-1.098279e+00	-2.362117e+01	4.207710e+00
## 41	5.334753e-01	-6.146678e-02	1.288888e-01	-2.428093e-01	-1.190086e-01
## 44	-4.268554e-03	5.446567e-03	7.225528e-04	1.700853e-03	-1.073656e-03
## 45	-3.263342e-04	1.049232e-03	9.428255e-05	1.445302e-07	-1.129309e-04
## 47	-1.510622e-02	4.857739e-02	4.364790e-03	4.976075e-06	-5.227854e-03
## 49	-1.181953e-01	3.684104e-01	3.345081e-02	2.411644e-03	-4.032992e-02
## 50	-4.458623e-01	8.368657e-01	3.021510e-01	-1.214206e-01	-7.170759e-02
## 52	-2.934561e-01	1.281780e+00	1.286720e-01	-4.025482e-02	-1.610598e-01
## 53	-1.102509e-06	3.172481e-07	1.257771e-06	-6.592191e-07	6.557427e-08
## 55	-5.194680e-04	1.670171e-03	1.500848e-04	2.411341e-07	-1.797741e-04
## 56	3.520415e+00	2.411920e+00	7.848786e-01	-1.615102e+00	-1.235441e+00
## 57	-6.138619e-01	1.929137e+00	1.747608e-01	9.613692e-03	-2.105525e-01
## 58	-5.114677e-06	1.381079e-05	1.318136e-06	5.465738e-07	-1.647067e-06
## 59	2.239374e+01	1.899328e+01	-8.548628e-01	-1.868452e+01	3.311702e+00

## 60	2.849660e+00	2.487814e+00	7.054132e-01	-1.370533e+00	-1.095379e+00
## 63	-6.654581e-01	9.230190e-01	5.462104e-01	-2.482905e-01	-6.176764e-02
## 65	-3.435746e-04	-2.803589e-05	2.944579e-05	2.327142e-04	-6.380068e-05
## 66	-6.250702e-04	1.357740e-03	1.406652e-04	1.344706e-04	-1.850854e-04
## 67	1.132839e+00	2.180891e-02	1.556442e-01	-4.284686e-01	-2.666269e-01
## 69	4.171285e+01	3.155286e+01	-1.828452e+00	-3.401850e+01	6.355323e+00
## 71	4.196539e+00	8.296320e+00	1.321377e-01	-4.473581e+00	3.895262e-01
## 76	-4.779056e-04	1.536362e-03	1.380727e-04	2.678852e-07	-1.653952e-04
## 77	-2.790454e-03	8.973617e-03	8.063497e-04	9.320923e-07	-9.658233e-04
## 78	6.408482e-01	2.511238e+00	4.174045e-01	-5.342592e-01	-6.000237e-01
## 79	4.422557e+00	2.441933e+00	9.182452e-01	-1.948013e+00	-1.464530e+00
## 80	-7.098600e-04	2.282715e-03	2.052529e-04	4.170502e-07	-2.459359e-04
## 81	-1.189009e-03	3.824343e-03	3.436994e-04	3.449862e-07	-4.117043e-04
## 82	-6.439281e-02	-3.622399e-02	3.593030e-03	4.995267e-02	-1.041971e-02
## 83	3.406187e-03	3.393734e-03	-9.854164e-05	-2.945165e-03	4.784738e-04
## 87	3.595344e+01	3.618119e+01	-1.021570e+00	-3.116546e+01	5.039650e+00
## 90	-1.774565e-03	5.706443e-03	5.127422e-04	6.018829e-07	-6.141323e-04
## 93	-1.828118e-03	5.878663e-03	5.282167e-04	6.183651e-07	-6.326666e-04
## 94	-7.101329e-03	2.283590e-02	2.051858e-03	2.339211e-06	-2.457578e-03
## 95	-7.635565e-05	2.449729e-04	2.203046e-05	1.452054e-07	-2.640295e-05
## 96	-5.260865e-01	8.638807e-01	3.927474e-01	-1.688398e-01	-6.742418e-02
## 97	8.190546e-02	9.515107e-02	-1.541781e-03	-7.360972e-02	1.085990e-02
## 98	-2.820041e-01	-1.725852e-01	1.487489e-02	2.216264e-01	-4.495236e-02
## 99	4.396694e-02	1.039514e-01	2.442137e-03	-5.035627e-02	3.237751e-03
## 100	-4.119604e-04	5.454252e-04	7.725028e-05	1.680351e-04	-1.163492e-04
## 102	2.350875e-01	2.730269e+01	3.619783e+00	-3.290525e+00	-4.942852e+00
## 103	6.378363e-02	-7.740196e-03	1.229543e-02	-2.665802e-02	-1.386002e-02
## 104	-4.428823e-07	1.400122e-07	5.016240e-07	-2.622652e-07	2.459708e-08
## 105	3.906785e-03	-5.017127e-04	4.579570e-04	-1.413755e-03	-8.106271e-04
## 106	1.185846e+01	8.631854e+00	-5.406820e-01	-9.601633e+00	1.823243e+00
## 107	2.871224e-01	1.762127e-01	-1.511431e-02	-2.257505e-01	4.574408e-02
## 108	5.448593e+00	6.693877e+00	-8.009916e-02	-4.971478e+00	7.046840e-01
## 109	4.214949e+01	3.303966e+01	-1.776226e+00	-3.461194e+01	6.365443e+00
## 110	8.906221e-01	4.020256e-01	2.915066e-01	-2.324207e-01	-5.000870e-01

## 111	7.966925e+00	-2.236606e-01	9.680703e-01	-3.066193e+00	-1.663748e+00
## 112	-1.098082e-03	3.532959e-03	3.178870e-04	6.084623e-07	-3.810292e-04
## 113	-1.019691e+00	-6.257593e-01	5.367994e-02	8.017241e-01	-1.624584e-01
## 115	1.384734e+00	3.407731e+00	8.496825e-02	-1.613678e+00	9.582593e-02
## 118	3.371024e+00	8.128029e-01	5.277645e-01	-1.405214e+00	-8.643788e-01
## 119	-5.785723e-01	1.860471e+00	1.671692e-01	2.023213e-04	-2.002256e-01
## 120	-6.024683e-03	-3.567897e-03	3.251385e-04	4.710325e-03	-9.661662e-04
## 121	8.091242e-01	-1.036652e-01	1.033610e-01	-2.981105e-01	-1.697752e-01
## 122	1.494247e+01	3.413941e+00	2.461575e+00	-6.021144e+00	-4.072383e+00
## 124	-1.465847e-03	4.713453e-03	4.235268e-04	5.494893e-07	-5.072822e-04
## 125	-4.150352e+00	1.786359e+01	1.479587e+00	-9.244842e-01	-1.658947e+00
## 126	-1.341583e-03	4.314095e-03	3.876354e-04	4.577540e-07	-4.642870e-04
## 127	-6.628355e-01	2.131485e+00	1.915191e-01	2.201927e-04	-2.293890e-01
## 128	-5.687166e-01	4.215521e+01	2.654789e+00	-8.273427e+00	-2.167350e+00
## 130	-4.721724e-01	-9.519659e-02	3.686251e-02	3.313114e-01	-8.471560e-02
## 131	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
## 133	-5.209801e-06	-1.333795e-06	3.978853e-07	3.724659e-06	-9.370583e-07
## 134	3.164408e-04	1.985427e-04	6.883953e-05	-1.421674e-04	-1.090679e-04
## 135	-2.272552e-03	3.702857e-03	1.704324e-03	-7.345018e-04	-2.874151e-04
## 136	3.115767e-01	1.590435e+00	6.997219e-02	-5.320978e-01	-1.866006e-02
## 137	-5.722273e-01	3.114512e-01	6.191531e-01	-3.226213e-01	1.596532e-02
## 138	-3.122400e-03	9.366024e-03	8.615272e-04	1.407402e-04	-1.049498e-03
## 141	-8.072800e-04	2.595877e-03	2.332514e-04	2.920717e-07	-2.793776e-04
## 143	-5.448916e-05	1.748360e-04	1.572165e-05	9.889427e-08	-1.884097e-05
## 144	-7.769256e-01	-2.427272e-01	5.534246e-02	5.628169e-01	-1.351951e-01
## 146	-9.974877e-04	3.207553e-03	2.882112e-04	3.502302e-07	-3.452041e-04
## 147	-2.601322e-01	1.612632e+01	1.020008e+00	-3.136140e+00	-8.382371e-01
## 148	-5.445207e-04	-7.062030e-05	4.591966e-05	3.752908e-04	-1.014604e-04
## 149	3.959683e+01	2.430219e+01	-2.084352e+00	-3.113324e+01	6.308492e+00
## 150	6.892912e+00	6.083905e-01	9.819423e-01	-2.697700e+00	-1.655900e+00
## 151	-5.451797e-04	-3.329871e-04	2.881592e-05	4.283434e-04	-8.697026e-05
## 153	-5.394313e-04	1.734451e-03	1.558503e-04	2.208345e-07	-1.866723e-04
## 154	-1.331677e-04	-3.814422e-05	9.750610e-06	9.582324e-05	-2.343735e-05
## 155	-1.007021e-04	-5.014623e-05	6.020308e-06	7.678488e-05	-1.661224e-05

## 157	-4.499394e+00	1.491372e+01	1.327518e+00	-8.981765e-02	-1.578834e+00
## 158	1.073921e+01	6.590901e+00	-5.653164e-01	-8.443726e+00	1.710959e+00
## 159	-1.258128e+01	3.917119e+01	4.012619e+00	-2.622802e-01	-4.175042e+00
## 162	-1.800584e+00	5.802077e+00	5.209952e-01	-1.848748e-03	-6.237142e-01
## 163	-3.626856e-03	5.323605e-03	6.568360e-04	1.302316e-03	-9.461273e-04
## 164	-3.968959e-03	1.351523e-02	1.247909e-03	-8.404359e-05	-1.512461e-03
## 165	-6.246604e-01	2.600396e-01	6.892264e-01	-3.570637e-01	2.603582e-02
## 166	-4.076938e-02	1.311031e-01	1.177993e-02	1.341010e-05	-1.410921e-02
## 167	6.205679e-01	1.898920e+00	6.102625e-02	-7.994524e-01	2.479862e-02
## 168	-8.943854e-01	2.160874e+00	4.664976e-01	-1.458286e-01	-2.104567e-01
## 169	-2.319286e-01	6.211511e-02	2.659190e-01	-1.396085e-01	1.443632e-02
## 171	3.463151e+00	5.186539e-01	4.823977e-01	-1.429492e+00	-7.973216e-01
## 172	-1.812774e-01	5.630943e-01	5.115384e-02	4.132223e-03	-6.176750e-02
## 174	4.776427e-02	4.360004e-02	-1.632263e-03	-4.048603e-02	6.912050e-03
## 175	-4.125440e-04	-2.073409e-04	2.492049e-05	3.154275e-04	-6.866264e-05
## 176	-6.293191e+00	1.692646e+00	7.389952e+00	-3.920814e+00	3.735018e-01
## 177	9.418921e+00	-6.525569e-01	1.211657e+00	-3.485925e+00	-2.069655e+00
## 178	-1.313579e-01	9.103812e-01	6.821899e-02	-9.990977e-02	-6.954406e-02
## 179	-6.480681e+00	2.077558e+01	1.891509e+00	-1.129705e-02	-2.233800e+00
## 180	1.944907e+00	2.211171e+00	-3.959116e-02	-1.738016e+00	2.602345e-01
## 182	3.260759e+00	2.319166e+00	-1.520261e-01	-2.629034e+00	5.039915e-01
## 183	-1.823054e-01	-6.766524e-02	1.232526e-02	1.342628e-01	-3.120121e-02
## 185	-9.527732e-05	-5.848715e-05	5.029110e-06	7.493301e-05	-1.520591e-05
## 186	4.600742e-01	-6.017857e-02	5.411278e-02	-1.659475e-01	-9.587562e-02
## 188	-6.332811e-04	6.515228e-03	4.639809e-04	-9.131309e-04	-4.462412e-04
## 189	-7.027795e-02	-3.704877e-02	4.074784e-03	5.400789e-02	-1.149324e-02
## 190	-1.502417e-01	4.811626e-01	4.394921e-02	-3.113782e-04	-5.173114e-02
## 192	-7.607624e-01	-3.219652e-01	4.899005e-02	5.684065e-01	-1.282719e-01
## 194	6.363573e-05	-2.038898e-04	-1.860355e-05	1.310212e-07	2.191954e-05
## 195	-2.532318e-01	8.143229e-01	7.316877e-02	8.341848e-05	-8.763667e-02
## 196	-1.718544e-03	5.525965e-03	4.965421e-04	6.599195e-07	-5.947418e-04
## 197	-8.875320e-08	3.777465e-08	9.778067e-08	-5.063519e-08	3.575372e-09
## 199	5.796771e-03	1.537985e-02	4.244728e-04	-6.983877e-03	3.467750e-04
## 200	1.059071e+00	-1.385968e-01	1.245563e-01	-3.819960e-01	-2.206893e-01

#	201	-5.329538e-03	1.001896e-02	1.100651e-03	1.462923e-03	-1.497290e-03
#	203	2.906945e-02	1.879425e-02	-1.471294e-03	-2.305153e-02	4.584641e-03
#	204	-3.339832e-05	1.066947e-04	9.608804e-06	1.584665e-07	-1.152798e-05
#	208	-9.308491e-01	3.162890e+00	2.913036e-01	-1.949719e-02	-3.526151e-01
#	209	-1.797970e-01	5.626724e-01	5.474953e-02	-1.120517e-03	-6.051098e-02
#	210	-6.682772e-04	1.281824e-03	1.395825e-04	1.781907e-04	-1.889827e-04
#	211	-1.336726e+00	4.243155e-01	1.513038e+00	-7.907407e-01	7.394270e-02
#	212	-1.131081e-04	1.315296e-04	1.835366e-05	4.769090e-05	-2.782001e-05
#	214	3.373222e-02	6.460225e-02	9.350438e-04	-3.552939e-02	3.229848e-03
#	215	-2.840934e-02	1.574330e-02	3.543101e-03	1.552726e-02	-6.144152e-03
#	219	-1.068534e-05	2.872488e-06	1.224828e-05	-6.429854e-06	6.636111e-07
#	220	-9.237979e-04	2.973024e-03	2.672561e-04	6.124662e-08	-3.201694e-04
#	222	2.792312e+00	3.209196e+00	-5.470566e-02	-2.502381e+00	3.719321e-01
#	223	1.303774e-04	8.838635e-06	1.248241e-05	-5.795471e-05	-2.011646e-05
#	224	-7.983237e-01	-1.637298e-01	6.215382e-02	5.607332e-01	-1.430972e-01
#	226	-4.111985e-03	7.437960e-03	8.314931e-04	1.189065e-03	-1.141572e-03
#	228	6.201328e+00	2.054389e+00	1.093458e+00	-2.588664e+00	-1.781977e+00
#	230	7.819318e+00	-4.325173e-02	1.049439e+00	-2.935320e+00	-1.805610e+00
#	231	6.976324e-01	2.628523e+00	4.404935e-01	-5.693421e-01	-6.342242e-01
#	232	-6.125285e+00	1.988409e+01	1.781377e+00	-3.632900e-02	-2.128919e+00
#	233	-3.667519e+00	1.857898e+00	3.950162e+00	-2.028628e+00	1.069677e-01
#	235	-1.113330e-01	-5.935270e-02	6.414424e-03	8.569388e-02	-1.817514e-02
#	237	-8.690266e-05	-5.335470e-05	4.590359e-06	6.835312e-05	-1.387607e-05
#	238	-3.370731e-03	7.421262e-03	7.632331e-04	7.028707e-04	-1.000218e-03
#	239	-5.428789e-05	1.447961e-05	6.226146e-05	-3.269059e-05	3.387408e-06
#	242	-1.655911e-06	-1.290532e-06	1.499427e-07	1.458798e-06	-3.993779e-07
#	244	-1.655653e-03	5.324069e-03	4.783836e-04	5.587116e-07	-5.729787e-04
#	246	-3.369804e-05	2.809148e-05	1.452683e-05	2.877760e-05	-2.595507e-05
#	247	1.039514e+01	-1.360949e+00	1.222486e+00	-3.749352e+00	-2.166036e+00
#	248	7.649396e-01	2.264927e+00	4.016546e-01	-5.521713e-01	-5.844865e-01
#	249	-4.398880e+00	2.004997e+00	4.802905e+00	-2.478841e+00	1.592483e-01
#	250	-7.489658e-03	-3.153004e-03	4.833394e-04	5.592492e-03	-1.263645e-03
#	252	-5.773231e+00	1.866019e+01	1.673987e+00	-1.760944e-02	-2.002601e+00
#	253	-6.623514e+00	2.467967e+00	7.392248e+00	-3.845127e+00	3.161269e-01

## 254	-5.378849e-07	1.657610e-07	6.104561e-07	-3.193856e-07	3.046866e-08
## 255	5.988310e+00	4.575884e+00	-2.596455e-01	-4.893176e+00	9.101213e-01
## 256	6.901818e+00	6.718126e-01	9.768788e-01	-2.726905e+00	-1.642038e+00
## 258	-1.092944e+00	1.143955e+00	1.005437e+00	-4.839335e-01	-4.988845e-02
## 259	-9.431772e-07	2.748012e-07	1.075002e-06	-5.632482e-07	5.562744e-08
## 260	2.625752e+00	1.803379e+00	-1.263787e-01	-2.103885e+00	4.089718e-01
## 261	-5.723858e-01	2.592121e+00	2.129895e-01	-1.524847e-01	-2.370401e-01
## 266	1.694002e-01	-5.447438e-01	-4.894648e-02	-5.580328e-05	5.862482e-02
## 267	2.538400e-01	2.183920e-01	6.344976e-02	-1.212809e-01	-9.816106e-02
## 268	-2.386201e-10	1.259954e-09	1.354852e-10	-5.869532e-11	-1.712779e-10
## 269	-2.902556e-02	8.229929e-03	3.314666e-02	-1.737859e-02	1.743482e-03
## 270	1.508211e-06	-4.844604e-06	-4.364033e-07	-2.803801e-09	5.234696e-07
## 271	2.994211e-02	3.916418e-02	-2.933126e-04	-2.780827e-02	3.756353e-03
## 273	-8.968907e-04	2.883776e-03	2.591710e-04	4.311183e-07	-3.104584e-04
## 274	-4.411172e-04	1.418114e-03	1.274424e-04	2.398540e-07	-1.526589e-04
## 275	7.406720e+00	5.312592e+00	-3.425667e-01	-5.980942e+00	1.142624e+00
## 276	-2.245818e-03	7.222730e-03	6.490240e-04	6.605000e-07	-7.773830e-04
## 277	-1.436248e-02	-8.814526e-03	7.560513e-04	1.129252e-02	-2.288219e-03
## 278	-5.498840e-04	1.761253e-03	1.584517e-04	1.623297e-06	-1.899598e-04
## 279	-1.683595e-03	5.413921e-03	4.864572e-04	5.683719e-07	-5.826489e-04
## 280	-1.798580e-03	5.783678e-03	5.196818e-04	6.081466e-07	-6.224438e-04
## 281	-7.904751e-01	-4.851294e-01	4.161118e-02	6.215122e-01	-1.259378e-01
## 283	-3.052752e-04	9.813049e-04	8.818927e-05	1.853891e-07	-1.056408e-04
## 284	-2.135123e-03	1.292210e-03	2.238460e-03	-1.138050e-03	3.311895e-05
## 286	-2.707545e-01	7.437428e-01	1.151443e-01	-2.582408e-02	-7.612581e-02
## 287	6.812043e-04	3.084197e-03	1.292380e-04	-1.082039e-03	-2.257846e-05
## 288	-1.521752e-03	4.888079e-03	4.412833e-04	-6.142602e-07	-5.258823e-04
## 289	-3.239301e-04	1.041107e-03	9.357427e-05	2.380660e-07	-1.120996e-04
## 292	-1.045287e-04	7.157091e-04	9.829106e-05	-2.151524e-05	-1.381555e-04
## 295	-1.207638e-03	-7.411505e-04	6.357101e-05	9.495072e-04	-1.924001e-04
## 296	-1.751292e-03	3.586528e-03	1.100087e-03	-4.161963e-04	-3.230350e-04
## 297	-7.640933e-04	4.367607e-03	4.896473e-04	-2.013659e-04	-6.397468e-04
## 298	-1.890939e-02	6.080734e-02	5.463679e-03	6.228919e-06	-6.544030e-03
## 299	1.371978e+01	3.835115e+00	2.352506e+00	-5.610247e+00	-3.865122e+00

## 300	-1.917666e-03	6.166399e-03	5.540826e-04	7.012224e-07	-6.636566e-04
## 301	-2.159424e-01	6.493439e-01	7.275454e-02	-5.941460e-03	-6.918970e-02
## 302	4.625639e+00	2.916830e+00	-2.386845e-01	-3.652921e+00	7.331496e-01
## 303	-1.073964e-04	3.450436e-04	3.101356e-05	1.019093e-07	-3.715504e-05
## 305	-4.170371e+00	1.713481e+00	1.001450e+01	-6.495612e+00	-3.502872e-01
## 306	2.176032e-01	1.530111e-01	-1.025360e-02	-1.750852e-01	3.371887e-02
## 308	-2.473550e-03	7.954296e-03	7.147392e-04	8.413398e-07	-8.560850e-04
## 310	1.974422e+00	6.669994e-01	3.541758e-01	-8.202475e-01	-5.777667e-01
## 311	7.053417e+00	2.329216e-01	9.819684e-01	-2.679167e+00	-1.677589e+00
## 312	-5.269885e-04	1.693991e-03	1.522619e-04	3.520436e-07	-1.824088e-04
## 314	4.830405e-02	5.813061e-02	-7.849131e-04	-4.382510e-02	6.306356e-03
## 315	-1.008017e-04	2.041236e-04	2.246167e-05	2.560303e-05	-3.041862e-05
## 316	-8.877100e-04	1.752060e-03	1.932586e-04	2.326283e-04	-2.624100e-04
## 317	-5.543797e-04	1.782595e-03	1.601765e-04	2.136491e-07	-1.918538e-04
## 318	-2.340681e-06	6.483911e-07	2.677537e-06	-1.404625e-06	1.427082e-07
## 320	1.727265e+01	-4.668303e-01	2.256731e+00	-6.453540e+00	-3.900971e+00
## 321	-5.553435e-04	1.779986e-03	1.601019e-04	1.383785e-06	-1.919068e-04
## 322	1.342674e+00	1.512020e+00	-2.822483e-02	-1.196876e+00	1.803596e-01
## 323	-9.755045e-04	3.130945e-03	3.037370e-04	2.961847e-05	-3.788736e-04
## 324	3.465059e-01	2.126573e-01	-1.824031e-02	-2.724408e-01	5.520502e-02
## 325	2.993244e+00	4.787396e-01	4.493319e-01	-1.203288e+00	-7.476356e-01
## 328	-1.034830e+00	-6.350945e-01	5.447418e-02	8.136364e-01	-1.648682e-01
## 329	6.974373e+00	5.160122e+00	-3.085849e-01	-5.658802e+00	1.060282e+00
## 330	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
## 332	4.506247e+00	2.719036e+00	9.660649e-01	-2.011830e+00	-1.533770e+00
## 334	-1.836256e+00	1.835350e+01	1.301173e+00	-2.556192e+00	-1.242736e+00
## 335	6.591087e-02	1.424432e-01	2.825034e-03	-7.275322e-02	5.524874e-03
## 336	1.769476e+00	9.539970e+00	4.673989e-01	-3.171194e+00	-1.206930e-01
## 338	5.852523e+00	6.210818e-01	7.996522e-01	-2.363101e+00	-1.335324e+00
## 340	-1.047876e-03	3.311564e-03	3.193799e-04	-1.116848e-05	-3.546782e-04
## 341	3.475461e+00	1.230775e-01	5.819382e+00	-5.373516e+00	-1.348299e+00
## 342	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 344	5.718854e-01	3.618180e-01	-2.943536e-02	-4.518705e-01	9.058335e-02
## 345	-3.074526e-03	9.887601e-03	8.885087e-04	9.873557e-07	-1.064249e-03

## 346	-1.183332e-03	3.947220e-03	3.638980e-04	-1.205676e-05	-4.411593e-04
## 349	5.245743e-01	5.271949e-01	-1.494820e-02	-4.545714e-01	7.356423e-02
## 351	4.561291e-01	2.846673e-01	-1.812401e-02	-3.661012e-01	7.386319e-02
## 352	-8.837563e-01	2.842735e+00	2.554033e-01	1.228554e-04	-3.058845e-01
## 353	-2.722318e-03	8.754671e-03	7.867002e-04	9.116917e-07	-9.423030e-04
## 354	-1.328443e-02	-1.591547e-03	1.104179e-03	9.098302e-03	-2.436449e-03
## 358	-6.915830e-01	1.950792e+00	2.791135e-01	-5.537106e-02	-2.015501e-01
## 359	1.122074e+01	-1.195240e+00	2.219326e+00	-4.735210e+00	-2.471509e+00
## 361	3.282469e-04	-2.638962e-05	3.893095e-05	-1.226736e-04	-6.790718e-05
## 362	3.567354e-01	1.328525e+00	4.970780e-02	-5.081836e-01	2.688202e-03
## 364	-5.120479e-02	1.709454e-01	1.518694e-02	-1.267980e-03	-1.803459e-02
## 367	-7.073743e-04	7.253540e-05	6.952027e-05	4.534766e-04	-1.393122e-04
## 368	1.129529e+00	4.635021e+00	7.359953e-01	-1.000400e+00	-1.044233e+00
## 370	-9.262337e-05	2.975324e-04	2.674455e-05	9.791636e-08	-3.204192e-05
## 372	7.025881e+00	1.115693e+01	5.256497e-02	-6.928879e+00	7.854765e-01
## 373	-1.887258e-04	3.617247e-03	4.563993e-04	-3.451137e-04	-6.159776e-04
## 375	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03
## 377	1.309971e-02	5.881356e-02	2.447349e-03	-2.071522e-02	-3.963358e-04
## 378	-3.697492e+00	2.566451e+00	3.640065e+00	-1.739667e+00	-2.444889e-02
## 379	-7.027742e-04	2.259771e-03	2.030540e-04	2.683230e-07	-2.432111e-04
## 380	-8.169927e-04	2.626906e-03	2.360619e-04	3.584555e-07	-2.827602e-04
## 381	-2.342368e-01	-1.434135e-01	1.235151e-02	1.840989e-01	-3.733512e-02
## 382	4.780669e+00	-6.259328e-01	5.622097e-01	-1.724303e+00	-9.961414e-01
## 383	-1.668045e-01	1.819880e+00	2.160735e-01	-1.514806e-01	-2.860358e-01
## 386	3.616499e+00	2.727529e+00	8.471815e-01	-1.678316e+00	-1.328934e+00
## 388	-7.010466e+00	2.512905e+00	7.852811e+00	-4.089842e+00	3.482995e-01
## 389	-8.052273e-01	2.145858e-01	9.235488e-01	-4.849218e-01	5.026932e-02
## 391	-1.879485e+00	2.291867e+00	1.568459e+00	-6.883179e-01	-1.482734e-01
## 392	-4.881588e-01	-1.152202e-01	3.707387e-02	3.459766e-01	-8.676448e-02
## 393	-2.526793e+00	1.541276e+00	2.645504e+00	-1.344259e+00	3.750607e-02
## 395	1.735282e+00	1.127480e+00	3.579360e-01	-8.152520e-01	-5.589665e-01
## 396	-4.971947e+00	1.568101e+00	5.631700e+00	-2.944402e+00	2.766907e-01
## 397	8.662234e-01	3.259348e+00	5.463733e-01	-7.064074e-01	-7.867179e-01
## 398	-1.567391e-01	-9.584800e-02	8.272313e-03	1.231655e-01	-2.498863e-02

## 402	-9.934303e-04	3.198764e-03	3.047322e-04	2.146536e-05	-3.765809e-04
## 403	-2.646955e-04	9.386309e-03	6.078425e-04	-1.745668e-03	-5.166152e-04
## 404	-3.579863e-03	1.151457e-02	1.034957e-03	1.152707e-06	-1.239818e-03
## 405	-4.991706e-01	-2.477152e-01	2.989484e-02	3.804398e-01	-8.238696e-02
## 406	-1.304958e+00	4.197273e+00	3.771099e-01	2.472811e-04	-4.516549e-01
## 407	-1.598194e-03	5.139285e-03	4.617814e-04	5.431315e-07	-5.530947e-04
## 408	-7.027742e-04	2.259771e-03	2.030540e-04	2.683230e-07	-2.432111e-04
## 410	-8.737651e-04	2.483434e-03	2.324123e-04	6.716734e-05	-2.864496e-04
## 411	-5.223595e-04	1.679641e-03	1.509249e-04	1.994731e-07	-1.807721e-04
## 412	2.994211e-02	3.916418e-02	-2.933126e-04	-2.780827e-02	3.756353e-03
## 414	-1.911196e-03	6.145415e-03	5.523562e-04	5.343808e-07	-6.613498e-04
## 415	4.430243e+00	8.504921e+00	1.718193e+00	-2.659310e+00	-2.555809e+00
## 416	1.291055e-01	9.567455e-02	-5.781564e-03	-1.048832e-01	1.976688e-02
## 417	-4.878151e-01	8.550720e-01	3.481556e-01	-1.451700e-01	-7.007918e-02
## 418	1.253837e+01	9.998098e+00	-5.179085e-01	-1.033096e+01	1.885273e+00
## 419	-1.667696e-03	5.362802e-03	4.819035e-04	6.118128e-07	-5.772212e-04
## 420	-1.607000e-04	-7.742287e-05	1.068211e-05	1.231530e-04	-2.834547e-05
## 421	-5.893044e-04	1.894926e-03	1.702686e-04	2.197425e-07	-2.039405e-04
## 422	-2.482040e-03	7.981134e-03	7.171744e-04	9.529489e-07	-8.590206e-04
## 423	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
## 424	-2.379707e+00	1.438983e+00	2.495141e+00	-1.268548e+00	3.705724e-02
## 425	4.695164e-05	3.645810e-05	3.502079e-06	-3.154895e-05	-3.169123e-06
## 426	-3.052401e-04	9.810698e-04	8.817068e-05	2.093123e-07	-1.056210e-04
## 428	-5.447782e-01	1.746447e+00	1.570848e-01	1.277381e-03	-1.882667e-01
## 429	-6.562147e-01	2.110019e+00	1.895952e-01	2.541329e-04	-2.270892e-01
## 430	8.281956e-02	4.294562e-01	6.785399e-02	-8.137215e-02	-9.640251e-02
## 431	-8.121447e-05	2.602762e-04	2.341781e-05	2.168902e-07	-2.807490e-05
## 434	-3.984047e-05	-2.443921e-05	2.097964e-06	3.132226e-05	-6.347947e-06
## 435	2.446411e+00	1.043971e+00	3.962207e-01	-1.131667e+00	-6.217680e-01
## 436	7.408509e+00	-7.947855e-02	7.739731e+00	-7.904773e+00	-2.362125e+00
## 437	6.736878e+00	3.648143e+00	1.388772e+00	-2.959727e+00	-2.217016e+00
## 438	2.197484e-01	1.951898e-01	-7.845101e-03	-1.851582e-01	3.206791e-02
## 439	7.440775e+00	3.985349e+00	1.518955e+00	-3.275350e+00	-2.423701e+00
## 442	-3.415637e-06	-2.107075e-06	1.822813e-07	2.691745e-06	-5.495313e-07

## 444	5.895977e+00	3.411661e+01	1.574231e+00	-1.089732e+01	-5.479151e-01
## 447	-9.716728e-01	3.109622e+00	2.812382e-01	1.763673e-03	-3.351794e-01
## 448	-1.847562e-03	6.065119e-03	5.497541e-04	-1.437915e-05	-6.608931e-04
## 450	8.058604e-02	8.792175e-02	-1.868474e-03	-7.125486e-02	1.096280e-02
## 451	6.515848e+00	4.302492e+00	-3.242653e-01	-5.185402e+00	1.023294e+00
## 452	2.067117e-02	1.413555e-02	-9.985687e-04	-1.654999e-02	3.222359e-03
## 455	-3.302997e-01	7.722672e-01	1.783933e-01	-5.751613e-02	-7.450631e-02
## 456	5.376410e-01	3.490614e-01	-2.712294e-02	-4.266409e-01	8.472460e-02
## 457	8.578912e-01	5.107296e-01	1.692176e-01	-3.995964e-01	-2.649859e-01
## 458	-1.607658e+01	4.355431e+00	1.916570e+01	-1.023492e+01	9.208939e-01
## 460	-1.451476e+00	1.254330e+00	1.412338e+00	-6.968178e-01	-2.955997e-02
## 462	1.220984e+00	3.697211e-01	2.134042e-01	-5.022629e-01	-3.496061e-01
## 464	1.629046e+00	2.312853e+00	4.855805e-01	-9.317548e-01	-7.207567e-01
## 465	-6.233345e-04	-2.990393e-04	3.824900e-05	4.733152e-04	-1.039107e-04
## 466	-1.254504e-03	4.033753e-03	3.624591e-04	4.997912e-07	-4.341432e-04
## 467	-1.837404e-01	5.732689e-01	5.657439e-02	-1.636878e-03	-6.156686e-02
## 468	-5.549394e-04	1.399290e-03	1.381951e-04	8.129346e-05	-1.762943e-04
## 469	3.837636e+00	1.108460e+00	6.636355e-01	-1.572360e+00	-1.089190e+00
## 470	2.389246e-01	1.716049e-01	-1.103586e-02	-1.929795e-01	3.684676e-02
## 473	-1.803797e+01	4.861790e+00	2.127343e+01	-1.130806e+01	1.059910e+00
## 474	7.182433e+00	8.322875e+00	-1.365013e-01	-6.450636e+00	9.533494e-01
## 475	-2.288641e-03	7.359657e-03	6.612862e-04	7.549937e-07	-7.920470e-04
## 476	1.099829e+00	-1.423930e-01	1.295533e-01	-3.968776e-01	-2.294586e-01
## 477	8.706917e-01	5.344363e-01	-4.582911e-02	-6.845983e-01	1.387141e-01
## 478	-2.218725e-10	9.886522e-10	1.004560e-10	-3.213490e-11	-1.262500e-10
## 479	4.145182e-03	8.366728e-03	2.046381e-03	-2.050477e-03	-3.184034e-03
## 480	-1.008961e+00	3.244561e+00	2.915319e-01	3.292629e-04	-3.491777e-01
## 481	1.330821e-01	-1.246229e-02	5.569280e-02	-7.850216e-02	-3.246313e-02
## 482	-6.338666e+00	2.399838e+00	7.063273e+00	-3.671988e+00	2.972642e-01
## 485	5.613661e-02	5.338457e-02	-1.786211e-03	-4.802226e-02	8.019193e-03
## 487	1.215021e-01	5.579292e-02	-7.554497e-03	-9.167792e-02	2.027324e-02
## 488	-2.141874e-03	6.887685e-03	6.188759e-04	7.052955e-07	-7.412493e-04
## 489	-1.011630e+00	-5.545118e-01	5.734676e-02	7.817795e-01	-1.644075e-01
## 490	1.367523e-02	3.155463e-02	7.104835e-04	-1.550429e-02	1.047055e-03

## 491	6.574431e+00	3.168586e-01	8.251661e-01	-2.639035e+00	-1.388730e+00
## 493	-3.695078e-01	-2.267723e-01	1.945125e-02	2.905257e-01	-5.886976e-02
## 495	-9.028428e-01	3.360136e+00	3.208124e-01	-5.339982e-02	-3.940705e-01
## 496	-1.858602e-03	5.976751e-03	5.370302e-04	6.183188e-07	-6.432225e-04
## 497	-7.448127e-04	2.394940e-03	2.152008e-04	2.867110e-07	-2.577608e-04
## 500	9.048956e-01	7.812850e-01	2.228154e-01	-4.342361e-01	-3.461969e-01
## 502	1.068799e-02	9.220228e-03	-3.980882e-04	-8.949089e-03	1.572390e-03
## 503	8.245622e+00	1.401157e+01	1.183215e-01	-8.320123e+00	8.770817e-01
## 504	-1.918579e-03	6.169559e-03	5.543553e-04	6.496439e-07	-6.639744e-04
## 506	-7.098926e-01	-4.356740e-01	3.736928e-02	5.581540e-01	-1.130995e-01
## 507	2.707597e-02	3.777973e-03	4.152701e-03	-1.061691e-02	-6.964442e-03
## 508	-4.707956e-04	1.161055e-03	1.147357e-04	7.318491e-05	-1.466161e-04
## 509	-7.286447e-01	2.325222e+00	2.094306e-01	3.912525e-03	-2.512914e-01
## 510	-1.740449e-03	5.596745e-03	5.028848e-04	5.880357e-07	-6.023252e-04
## 512	2.357184e-07	-3.086260e-08	2.772064e-08	-8.501947e-08	-4.911633e-08
## 514	-4.324113e-01	-2.653280e-01	2.276558e-02	3.399736e-01	-6.889389e-02
## 515	1.310618e+01	1.936603e+01	8.784177e-03	-1.262845e+01	1.535823e+00
## 516	5.468729e+00	1.829912e+00	9.609069e-01	-2.292265e+00	-1.563943e+00
## 517	-1.192576e+00	3.873951e+00	3.471534e-01	-7.392602e-03	-4.149295e-01
## 519	-2.960509e-02	9.539732e-02	8.579869e-03	-1.309973e-05	-1.028067e-02
## 520	1.993647e+00	-2.152684e-01	2.246655e-01	-7.443761e-01	-3.940760e-01
## 521	-1.718800e-01	6.916607e-01	6.796818e-02	-1.618149e-02	-8.444474e-02
## 522	-2.115214e-03	6.801953e-03	6.111728e-04	6.967529e-07	-7.320229e-04
## 523	-4.100170e-01	-2.511871e-01	2.161123e-02	3.222845e-01	-6.534542e-02
## 524	6.637906e+00	1.874285e+00	1.123323e+00	-2.738422e+00	-1.840992e+00
## 526	3.300594e-01	2.118656e-01	-1.680044e-02	-2.614186e-01	5.213089e-02
## 527	-1.498818e-04	4.813612e-04	4.327531e-05	1.842533e-07	-5.185217e-05
## 529	-5.079279e-05	-3.187086e-05	2.834313e-06	4.033614e-05	-8.438752e-06
## 531	-1.123034e-01	3.202638e+00	4.067103e-01	-3.321687e-01	-5.491750e-01
## 532	8.206243e+00	-7.232680e-01	1.313696e+00	-3.230558e+00	-1.802530e+00
## 533	-4.987160e-04	1.603706e-03	1.440996e-04	1.722576e-07	-1.725950e-04
## 535	-6.977982e-01	-4.275978e-01	3.677629e-02	5.485148e-01	-1.112108e-01
## 536	-7.438357e-04	-6.157758e-05	6.405899e-05	5.044632e-04	-1.387641e-04
## 537	-2.640723e-04	8.487946e-04	7.628269e-05	1.737539e-07	-9.137985e-05

## 538	2.199491e-03	3.583863e-03	5.281921e-05	-2.149043e-03	1.840079e-04
## 541	-6.814602e-01	1.816650e-01	7.815771e-01	-4.103745e-01	4.253412e-02
## 542	-2.609627e-04	1.869405e-04	3.571958e-05	1.346587e-04	-5.955813e-05
## 544	-2.539258e-04	8.162911e-04	7.335604e-05	1.415066e-07	-8.786960e-05
## 545	-5.204269e-04	1.673328e-03	1.503634e-04	2.228117e-07	-1.801041e-04
## 546	-8.100365e-01	4.740416e+00	5.138456e-01	-2.512820e-01	-6.610826e-01
## 547	-2.921035e-02	-1.792433e-02	1.537814e-03	2.296614e-02	-4.653895e-03
## 548	2.580811e+00	4.028816e+00	8.710414e-01	-1.450983e+00	-1.307755e+00
## 550	-1.390364e-04	4.408351e-04	3.978645e-05	1.332049e-06	-4.781111e-05
## 551	6.199587e+00	3.405730e-01	7.945451e-01	-2.479673e+00	-1.337467e+00
## 552	-3.769280e+00	1.457214e+00	4.157687e+00	-2.138116e+00	1.639079e-01
## 553	-6.013816e+00	1.955464e+01	1.750956e+00	-4.232161e-02	-2.091752e+00
## 554	-1.888121e-03	6.071616e-03	5.455546e-04	6.391164e-07	-6.534333e-04
## 555	-1.624290e-01	3.703613e-01	3.761184e-02	3.117563e-02	-4.878682e-02
## 556	-1.121722e+00	4.381469e+00	3.719214e-01	-1.585073e-01	-4.260171e-01
## 557	1.377652e-01	1.745781e-02	-1.139199e-02	-9.454883e-02	2.522054e-02
## 558	-6.106602e+00	2.013015e+01	1.794866e+00	-9.916932e-02	-2.137377e+00
## 560	-1.699035e-03	5.463575e-03	4.909198e-04	5.741706e-07	-5.879947e-04
## 561	-4.567606e-03	1.015100e-05	4.163199e-04	3.011257e-03	-8.643370e-04
## 562	-1.371620e+00	9.705340e+00	7.267198e-01	-1.081503e+00	-7.397940e-01
## 563	9.837375e+00	8.097770e-01	1.377618e+00	-3.863527e+00	-2.322704e+00
## 564	-5.571832e-01	1.791832e+00	1.609811e-01	1.852950e-04	-1.928345e-01
## 565	-2.934528e-03	9.442506e-03	8.487769e-04	4.051801e-07	-1.016804e-03
## 566	5.406313e-03	2.377012e-02	9.904354e-04	-8.451890e-03	-1.427317e-04
## 570	1.944907e+00	2.211171e+00	-3.959116e-02	-1.738016e+00	2.602345e-01
## 571	-9.899897e-02	3.183531e-01	2.860476e-02	3.261187e-05	-3.426087e-02
## 573	-7.009110e-04	5.435440e-04	9.937221e-05	3.542751e-04	-1.636247e-04
## 574	-7.012417e-04	4.516752e-03	5.194010e-04	-2.403726e-04	-6.841600e-04
## 575	-4.981207e-01	-1.453489e-01	3.611642e-02	3.587378e-01	-8.718046e-02
## 578	-2.246409e-05	6.833112e-05	6.267918e-06	8.322772e-07	-7.617755e-06
## 582	1.099049e-01	3.381889e-01	5.091721e-02	-9.151776e-02	-7.043625e-02
## 583	4.506602e+00	3.241362e+00	1.024257e+00	-2.086469e+00	-1.607751e+00
## 584	9.079871e+00	6.263786e+00	2.037781e+00	-4.160908e+00	-3.208673e+00
## 585	7.120840e+00	-1.366363e-01	6.717134e+00	-7.048297e+00	-2.189935e+00

## 586	2.696326e+00	2.250903e+00	-1.051463e-01	-2.242324e+00	4.004933e-01
## 587	-2.107332e-01	3.433999e+00	2.473142e-01	-5.845372e-01	-2.032445e-01
## 588	7.552173e+00	-1.706614e-01	9.564818e-01	-2.869316e+00	-1.646905e+00
## 589	7.299821e+00	8.699750e-01	1.099103e+00	-2.846182e+00	-1.849230e+00
## 590	-4.044720e+00	1.300898e+01	1.168964e+00	1.042509e-03	-1.400144e+00
## 591	5.111810e+00	4.550496e-01	6.631416e-01	-2.083811e+00	-1.106165e+00
## 592	-5.421535e-01	9.136544e-01	3.980171e-01	-1.693091e-01	-7.270378e-02
## 594	-2.161728e-05	-7.579882e-06	1.488874e-06	1.582946e-05	-3.721393e-06
## 595	-2.902556e-02	8.229929e-03	3.314666e-02	-1.737859e-02	1.743482e-03
## 597	-5.820815e-01	4.158873e-01	7.980441e-02	2.973013e-01	-1.300695e-01
## 598	4.983878e+00	-6.524828e-01	5.861145e-01	-1.797603e+00	-1.038494e+00
## 599	-9.581490e-04	3.076811e-03	2.770530e-04	6.650663e-07	-3.312667e-04
## 601	1.442739e-03	-1.777658e-04	1.682169e-04	-5.253513e-04	-2.971708e-04
## 602	-3.048379e-03	9.822585e-03	8.837998e-04	-8.272999e-07	-1.059250e-03
## 606	2.281182e-02	3.129758e-02	-1.325337e-04	-2.148465e-02	2.789047e-03
## 608	8.544415e+00	9.174265e-01	6.297175e-01	-4.131446e+00	-9.439116e-01
## 609	-8.131343e-05	2.608371e-04	2.345898e-05	1.640813e-07	-2.811650e-05
## 610	9.257641e+00	-5.464129e-01	1.181446e+00	-3.420627e+00	-2.049147e+00
## 612	-1.481413e-01	4.776778e-01	4.296015e-02	-1.211518e-04	-5.147334e-02
## 613	7.820951e+01	2.222711e+01	-5.903113e+00	-5.598492e+01	1.367529e+01
## 614	-1.435143e-01	3.863203e-02	1.644900e-01	-8.634776e-02	8.905841e-03
## 615	-2.111259e-01	6.315496e-01	7.469875e-02	-9.508220e-03	-6.652615e-02
## 616	1.765027e+01	2.211554e+01	-2.328570e-01	-1.619320e+01	2.261724e+00
## 618	-5.892032e-01	1.894671e+00	1.702418e-01	2.028601e-04	-2.039054e-01
## 620	-2.239466e-10	1.064006e-09	1.102336e-10	-4.025375e-11	-1.393250e-10
## 621	6.684922e+00	7.199245e+00	-1.608181e-01	-5.891542e+00	9.140160e-01
## 622	6.035095e+00	6.110036e+00	1.613267e+00	-2.990167e+00	-2.486824e+00
## 623	-9.527732e-05	-5.848715e-05	5.029110e-06	7.493301e-05	-1.520591e-05
## 624	1.177304e+01	1.914760e+00	1.824635e+00	-4.669459e+00	-3.045605e+00
## 625	-6.158554e-01	1.980457e+00	1.779477e-01	1.953267e-04	-2.131330e-01
## 627	-1.769356e-03	5.689702e-03	5.112375e-04	5.980361e-07	-6.123297e-04
## 628	2.413505e+01	1.637043e+01	-1.174330e+00	-1.929603e+01	3.769181e+00
## 629	-3.845341e-06	1.240722e-06	4.310866e-07	2.292609e-06	-8.003469e-07
## 631	1.672080e-02	-2.181271e-03	1.965418e-03	-6.034367e-03	-3.481768e-03

## 632	-8.023990e-03	2.578382e-02	2.317273e-03	6.562702e-06	-2.775955e-03
## 633	-1.711861e-03	5.504815e-03	4.946245e-04	5.781471e-07	-5.924313e-04
## 634	-2.974870e+00	9.568956e+00	8.598741e-01	6.412504e-04	-1.029938e+00
## 637	-1.231826e-01	-3.537723e-02	1.698788e-02	7.928237e-02	-1.954616e-02
## 639	1.374504e+01	1.693659e+01	-1.989691e-01	-1.255171e+01	1.775240e+00
## 641	-8.315308e-05	2.669092e-04	2.399888e-05	1.309802e-07	-2.875835e-05
## 642	2.855880e+00	2.975475e+00	7.772805e-01	-1.421310e+00	-1.197103e+00
## 644	2.220759e-01	-7.141077e-01	-6.416493e-02	-7.854688e-05	7.685312e-02
## 645	-2.814450e-04	-1.227741e-04	1.795904e-05	2.111115e-04	-4.738995e-05
## 646	-3.597804e-02	-1.973407e-02	2.038912e-03	2.780600e-02	-5.846375e-03
## 647	-1.861712e+01	-3.601596e+00	-3.073956e+00	7.308457e+00	5.130382e+00
## 649	3.499728e+01	2.700758e+01	-1.501090e+00	-2.865139e+01	5.306069e+00
## 650	-1.014465e-03	3.262116e-03	2.931165e-04	3.645792e-07	-3.510815e-04
## 651	6.523493e+00	1.620809e+00	1.093265e+00	-2.642108e+00	-1.803990e+00
## 653	-6.853175e-05	2.191872e-04	1.973658e-05	2.779705e-07	-2.367486e-05
## 654	2.958264e-01	8.691599e-01	2.686720e-02	-3.736993e-01	1.357837e-02
## 656	3.046205e+01	3.576574e+01	-5.501594e-01	-2.745422e+01	4.020641e+00
## 657	3.033012e+00	8.098828e-02	4.247610e-01	-1.143409e+00	-7.273875e-01
## 658	-2.338911e-04	7.519048e-04	6.756884e-05	1.256951e-07	-8.093652e-05
## 659	-6.887230e-05	2.177987e-04	1.968915e-05	7.971806e-07	-2.368548e-05
## 660	-3.524100e+00	1.764845e+00	3.801626e+00	-1.953465e+00	1.056094e-01
## 661	-5.767318e-04	1.854462e-03	1.666347e-04	2.236615e-07	-1.995895e-04
## 662	-2.540044e-02	7.299229e-03	2.897856e-02	-1.518825e-02	1.512273e-03
## 663	1.852945e-01	8.381791e-02	3.638634e-01	-3.284998e-01	-9.000464e-02
## 664	7.475820e+00	2.885831e-01	1.053857e+00	-2.834773e+00	-1.799850e+00
## 665	-2.018383e-01	6.160421e-01	6.786620e-02	-6.610428e-03	-6.529377e-02
## 666	8.231211e+00	7.401121e-01	1.201037e+00	-3.189437e+00	-2.029654e+00
## 668	-1.988630e-03	9.011595e-03	9.313100e-04	-2.900539e-04	-1.180690e-03
## 669	1.813338e-01	7.174646e-01	1.190043e-01	-1.519928e-01	-1.709980e-01
## 672	2.396450e+01	1.654786e+01	-1.147939e+00	-1.921982e+01	3.728241e+00
## 673	7.210689e+00	9.995548e-01	1.062011e+00	-2.880957e+00	-1.773108e+00
## 678	-2.056484e-01	6.613077e-01	5.942081e-02	6.705377e-05	-7.116931e-02
## 679	4.828120e+00	2.310742e+00	9.556556e-01	-2.085161e+00	-1.535015e+00
## 681	-1.202290e-03	3.865953e-03	3.473771e-04	4.584808e-07	-4.160751e-04

## 683	2.736294e-02	1.758073e-02	-1.391728e-03	-2.167569e-02	4.320885e-03
## 684	5.609272e+00	1.062992e+00	5.729311e-01	-2.641384e+00	-8.871271e-01
## 685	5.098035e+00	1.305804e-01	6.887584e-01	-1.952120e+00	-1.175904e+00
## 687	5.102384e+00	1.062257e+00	8.041473e-01	-2.072660e+00	-1.329450e+00
## 688	-4.625802e-04	1.487398e-03	1.336517e-04	1.816527e-07	-1.600836e-04
## 689	-1.049158e-03	3.373601e-03	3.031450e-04	4.038141e-07	-3.631010e-04
## 690	4.171737e-01	-5.448082e-02	4.907831e-02	-1.504835e-01	-8.695103e-02
## 691	-3.451598e-03	1.110044e-02	9.974746e-04	1.051472e-06	-1.194752e-03
## 693	-4.968119e+00	1.918664e+01	1.792926e+00	-4.562634e-01	-2.173645e+00
## 695	-2.086959e-01	5.591928e-01	5.676382e-02	1.912450e-02	-6.590873e-02
## 696	-6.292074e-04	2.022359e-03	1.819379e-04	6.595025e-07	-2.180698e-04
## 697	4.678784e-04	3.155930e-03	1.537630e-04	-9.549049e-04	-6.792545e-05
## 698	-5.875570e+00	2.078406e+00	1.156117e+01	-7.210241e+00	-1.890032e-01
## 699	7.814758e-02	-1.022201e-02	9.194557e-03	-2.818992e-02	-1.628557e-02
## 700	-3.305889e-04	1.062500e-03	9.549811e-05	2.456665e-07	-1.144051e-04
## 701	-7.445212e-01	2.084368e+00	1.994925e-01	6.028893e-02	-2.421114e-01
## 702	6.206581e+00	4.784261e-01	6.382382e-01	-2.719711e+00	-1.036057e+00
## 704	-1.389555e+00	4.451737e-01	1.571882e+00	-8.214285e-01	7.635725e-02
## 705	-7.504839e-01	1.030548e+00	6.191099e-01	-2.822365e-01	-6.819765e-02
## 706	-5.805487e+00	1.867759e+01	1.677983e+00	1.222834e-04	-2.009559e+00
## 707	-1.542621e+00	4.978916e+00	4.481332e-01	-1.626908e-03	-5.371439e-01
## 711	-6.913504e-01	2.051608e+00	1.891712e-01	3.544202e-02	-2.308902e-01
## 712	7.176525e-02	9.440355e-02	-6.699594e-04	-6.676057e-02	8.977053e-03
## 713	-1.822538e-01	5.788599e-01	5.439217e-02	-9.870629e-04	-6.216715e-02
## 714	-2.194959e-06	-1.115018e-07	1.934877e-07	1.474354e-06	-4.131338e-07
## 715	8.567325e-01	1.781692e+00	3.241139e-02	-9.313397e-01	7.522027e-02
## 716	5.260825e-01	8.059941e-01	1.771661e-01	-2.919479e-01	-2.668636e-01
## 718	1.289492e-02	1.039224e-02	-5.255709e-04	-1.064692e-02	1.932990e-03
## 719	1.855661e-01	6.215235e-01	2.157373e-02	-2.500625e-01	4.774580e-03
## 720	-1.051640e-01	8.158007e-01	5.997758e-02	-9.783802e-02	-5.991010e-02
## 721	-3.876470e-02	1.187489e-01	1.083614e-02	1.225190e-03	-1.312732e-02
## 722	-5.060440e+00	1.596874e+00	7.918616e+00	-4.658021e+00	6.826502e-02
## 723	-1.711861e-03	5.504815e-03	4.946245e-04	5.781471e-07	-5.924313e-04
## 724	-1.258376e+00	6.470617e+00	6.830365e-01	-2.827740e-01	-8.711361e-01

##	725	6.724836e+00	1.125352e+00	8.417511e-01	-2.929117e+00	-1.362898e+00
##	726	5.180059e-03	-6.780333e-04	6.092034e-04	-1.868378e-03	-1.079396e-03
##	727	-2.953652e-04	8.514624e-03	1.074450e-03	-8.934958e-04	-1.447203e-03
##	729	-5.724016e-02	1.571806e-02	6.551611e-02	-3.437620e-02	3.509150e-03
##	730	2.671184e-03	3.539563e-03	8.290181e-04	-1.414855e-03	-1.259965e-03
##	732	1.305375e-01	8.971464e-02	-6.278908e-03	-1.046055e-01	2.032848e-02
##	733	2.473409e+00	4.277051e+01	2.415884e+00	-1.041038e+01	-1.618748e+00
##	738	2.851213e+00	3.910993e-01	3.967455e-01	-1.167257e+00	-6.580535e-01
##	739	-4.073749e-01	-2.500131e-01	2.144454e-02	3.202990e-01	-6.490265e-02
##	740	7.990794e+00	5.098739e-01	1.104486e+00	-3.114777e+00	-1.869379e+00
##	742	6.045769e+00	6.199858e-01	8.706819e-01	-2.378714e+00	-1.464246e+00
##	743	-1.536905e-03	4.942115e-03	4.440674e-04	5.394843e-07	-5.318799e-04
##	744	7.499928e-01	5.075984e-01	-3.656021e-02	-5.993927e-01	1.171801e-01
##	747	7.213166e+00	2.736322e+00	1.320244e+00	-3.048169e+00	-2.140054e+00
##	748	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03
##	749	-6.577783e-02	-3.670599e-02	3.688764e-03	5.096600e-02	-1.065830e-02
##	750	-4.141265e-01	1.331732e+00	1.196595e-01	1.321503e-04	-1.433187e-01
##	751	7.127722e+00	6.637269e-01	9.872653e-01	-2.834881e+00	-1.657443e+00
##	752	-6.533980e-02	1.787723e-02	7.480573e-02	-3.925381e-02	4.014706e-03
##	753	-4.177835e-03	1.354838e-02	1.222437e-03	-1.149594e-05	-1.466853e-03
##	754	-3.183120e-03	1.023663e-02	9.198518e-04	1.032256e-06	-1.101779e-03
##	755	-1.001118e+01	3.219318e+01	2.892632e+00	3.296386e-03	-3.464601e+00
##	757	-5.354118e-01	-1.396727e-01	3.984192e-02	3.821960e-01	-9.451457e-02
##	758	-5.232417e-01	8.609724e-01	3.900958e-01	-1.675494e-01	-6.730747e-02
##	759	1.349879e-04	3.729978e-05	4.976166e-06	-7.799909e-05	-4.102673e-06
##	761	-4.232158e-04	1.360885e-03	1.222829e-04	1.546303e-07	-1.464654e-04
##	762	1.895669e-01	2.113731e-01	-4.114655e-03	-1.685506e-01	2.556670e-02
##	763	-1.655653e-03	5.324069e-03	4.783836e-04	5.587116e-07	-5.729787e-04
##	764	2.078510e-01	2.618771e-01	5.021475e-02	-1.242910e-01	-7.223211e-02
##	765	-1.997242e+00	1.417534e+00	2.033152e+00	-1.021880e+00	2.055028e-03
##	769	-3.700375e-01	-2.248654e-01	1.961694e-02	2.904841e-01	-5.906302e-02
##	770	-4.293422e-05	1.879320e-05	4.710430e-05	-2.435376e-05	1.662046e-06
##	772	-8.079266e-01	-3.707637e-01	5.024776e-02	6.095639e-01	-1.348179e-01
##	773	-2.206921e-04	-1.266206e-04	1.245101e-05	1.720738e-04	-3.613124e-05

## 774	7.832139e+00	-1.025462e+00	9.210645e-01	-2.824914e+00	-1.631972e+00
## 775	1.055881e+01	1.811142e+01	1.619533e-01	-1.068891e+01	1.114880e+00
## 777	-2.591893e-04	8.332061e-04	7.487645e-05	1.457865e-07	-8.969109e-05
## 778	-3.554779e-02	1.484115e-02	3.920744e-02	-2.030830e-02	1.475130e-03
## 779	8.351176e+00	6.123926e+00	-3.779853e-01	-6.771074e+00	1.281793e+00
## 780	-1.017600e+00	-4.732661e-01	6.290048e-02	7.690474e-01	-1.694996e-01
## 781	-6.488884e-04	2.086464e-03	1.874833e-04	2.565826e-07	-2.245627e-04
## 782	-1.600750e-03	5.147516e-03	4.625195e-04	5.397398e-07	-5.539775e-04
## 783	1.891429e+00	1.160817e+00	-9.956542e-02	-1.487141e+00	3.013403e-01
## 784	-3.539598e-04	1.138039e-03	1.022636e-04	1.605324e-07	-1.224913e-04
## 785	1.724948e+00	8.636512e-01	3.354884e-01	-7.632436e-01	-5.347819e-01
## 788	2.441826e+00	-3.181249e-01	2.873684e-01	-8.809089e-01	-5.090835e-01
## 789	-1.740449e-03	5.596745e-03	5.028848e-04	5.880357e-07	-6.023252e-04
## 790	4.960554e-12	1.015359e-09	1.347562e-10	-1.206837e-10	-1.836716e-10
## 791	-1.082548e+00	3.461311e+00	3.120476e-01	3.873781e-03	-3.735497e-01
## 792	-1.401864e-03	4.508016e-03	4.050589e-04	4.639964e-07	-4.851547e-04
## 793	4.926262e+00	2.164915e+00	9.496632e-01	-2.105036e+00	-1.531546e+00
## 794	-2.427081e-05	6.455404e-05	6.289302e-06	2.915135e-06	-7.945388e-06
## 795	-1.123423e+00	4.581068e+00	4.518118e-01	-1.132917e-01	-5.620633e-01
## 796	2.284271e-02	-2.972154e-03	2.688774e-03	-8.241138e-03	-4.763054e-03
## 797	-1.652167e-07	5.772600e-07	5.379592e-08	-5.315517e-09	-6.543925e-08
## 798	-2.762204e+00	8.919493e+00	8.004495e-01	-6.617925e-03	-9.578309e-01
## 799	-5.906840e-01	1.899476e+00	1.706723e-01	1.945518e-04	-2.044200e-01
## 800	-1.408183e-04	4.522873e-04	4.065952e-05	1.647281e-07	-4.871639e-05
## 803	6.463832e+00	5.381329e+00	-2.529847e-01	-5.372464e+00	9.608335e-01
## 804	-8.166747e-04	2.626010e-03	2.359654e-04	3.166090e-07	-2.826331e-04
## 806	1.169658e-01	9.140003e-02	-4.946338e-03	-9.598984e-02	1.767751e-02
## 807	-4.253161e-04	1.367492e-03	1.228816e-04	1.867905e-07	-1.471869e-04
## 810	1.334423e-02	-1.740084e-03	1.568945e-03	-4.815464e-03	-2.779404e-03
## 811	-6.287128e-05	2.021790e-04	1.816635e-05	2.041817e-08	-2.175850e-05
## 814	-1.044800e-04	4.562262e-05	9.445898e-05	1.633111e-04	-1.755837e-04
## 815	1.037784e+01	-7.668796e-01	1.317489e+00	-3.826706e+00	-2.270664e+00
## 816	-9.798888e-02	3.119001e-01	2.811515e-02	6.900063e-04	-3.375501e-02
## 817	-8.330584e-04	1.667277e-03	1.805293e-04	2.107236e-04	-2.431653e-04

## 819	-4.702746e-04	1.511565e-03	1.364458e-04	1.067525e-06	-1.638517e-04
## 820	1.863148e+00	8.345650e-01	3.611643e-01	-7.980898e-01	-5.819199e-01
## 822	1.069707e-02	8.222017e-03	-4.606139e-04	-8.750359e-03	1.622992e-03
## 823	1.729797e-10	6.336186e-10	1.068335e-10	-1.390550e-10	-1.539972e-10
## 825	-3.265593e-02	1.959804e-02	1.395410e-01	-9.740007e-02	-9.734999e-03
## 826	-6.066037e-02	1.516423e-01	1.484767e-02	8.932043e-03	-1.887519e-02
## 827	-1.889942e-02	5.568144e-03	2.152187e-02	-1.127295e-02	1.106231e-03
## 830	1.743641e+01	5.779843e-01	2.427256e+00	-6.623606e+00	-4.146819e+00
## 831	3.541743e-10	2.669656e-10	8.294561e-11	-1.643474e-10	-1.301162e-10
## 832	-5.421574e-01	1.743433e+00	1.566601e-01	1.672609e-04	-1.876241e-01
## 833	-6.541485e-01	-3.921345e-01	3.501048e-02	5.124107e-01	-1.046733e-01
## 834	2.643436e-05	-7.975746e-06	4.476110e-06	-6.531276e-06	-8.363849e-06
## 835	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 837	-3.127427e-02	3.427065e-03	3.042140e-03	1.994696e-02	-6.085761e-03
## 842	4.142109e+00	2.772546e+00	9.240745e-01	-1.881093e+00	-1.459062e+00
## 843	-5.447664e+00	1.742632e+01	1.600774e+00	-1.697598e-02	-1.872566e+00
## 844	-2.582439e-04	8.299346e-04	7.459404e-05	1.993157e-07	-8.936203e-05
## 845	-1.073909e-03	3.453197e-03	3.102858e-04	3.969451e-07	-3.716462e-04
## 846	6.332955e+00	9.564165e-01	9.801050e-01	-2.492767e+00	-1.640542e+00
## 847	-2.084707e+00	6.710592e+00	6.027725e-01	-6.987938e-04	-7.217912e-01
## 848	-6.165594e-05	1.969448e-04	1.774230e-05	3.034191e-07	-2.128992e-05
## 849	2.671436e-01	4.411383e-01	6.467585e-02	-1.891724e-01	-8.613502e-02
## 851	-2.053670e-02	6.604030e-02	5.933872e-03	6.764969e-06	-7.107196e-03
## 852	1.070892e+01	-1.021246e+00	1.900427e+00	-4.355863e+00	-2.357482e+00
## 855	-2.290509e-06	-1.441599e-07	2.002649e-07	1.544329e-06	-4.298931e-07
## 858	1.590200e+00	9.759357e-01	-8.370926e-02	-1.250297e+00	2.533493e-01
## 859	4.567209e-04	-4.361778e-05	5.162907e-05	-1.719377e-04	-9.019962e-05
## 860	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 862	-5.031655e+00	1.624470e+01	1.457815e+00	-1.153647e-02	-1.744458e+00
## 863	-3.528372e-05	-2.314583e-05	2.730131e-06	2.926518e-05	-7.351603e-06
## 864	-5.121708e-04	-3.120974e-04	2.712535e-05	4.022707e-04	-8.175720e-05
## 866	9.218701e+00	-5.205274e-01	1.178030e+00	-3.407811e+00	-2.044617e+00
## 867	-7.004245e-01	-4.270769e-01	3.704281e-02	5.501378e-01	-1.117270e-01
## 868	-2.619330e-03	8.423115e-03	7.568410e-04	8.556973e-07	-9.064964e-04

## 869	-7.207424e-04	1.618529e-03	1.721193e-04	1.525763e-04	-2.284346e-04
## 872	-6.286353e-06	8.677818e-06	1.127932e-06	2.399515e-06	-1.656755e-06
## 873	-1.735307e-03	5.580220e-03	5.013996e-04	5.845311e-07	-6.005459e-04
## 876	1.036364e+01	-9.769998e-01	1.759831e+00	-4.155351e+00	-2.275625e+00
## 877	-7.046621e-01	2.334733e+00	2.126645e-01	-7.796348e-03	-2.562202e-01
## 878	-1.963852e+00	1.249803e-01	1.607309e+00	-3.802038e-01	-1.592065e-02
## 879	6.964325e+00	7.615097e+00	1.922756e+00	-3.533230e+00	-2.946340e+00
## 880	4.660731e+00	1.155375e+00	7.808104e-01	-1.887275e+00	-1.288521e+00
## 881	-7.171857e-04	-3.383022e-04	4.412273e-05	5.430930e-04	-1.193871e-04
## 886	-1.117803e+00	6.604461e+00	5.108673e-01	-6.195051e-01	-5.333991e-01
## 887	6.496805e+00	5.998930e-01	9.243510e-01	-2.551633e+00	-1.556807e+00
## 888	-2.730577e-07	8.864350e-07	7.999870e-08	-8.863487e-10	-9.600001e-08
## 890	-1.683595e-03	5.413921e-03	4.864572e-04	5.683719e-07	-5.826489e-04
## 892	2.547243e+01	3.257614e+01	-2.953541e-01	-2.350498e+01	3.231896e+00
## 893	-1.742002e-09	4.077854e-09	9.684146e-10	-3.272847e-10	-3.938962e-10
## 895	-1.395165e-01	4.316720e-01	3.954591e-02	3.202803e-03	-4.738349e-02
## 897	-9.882142e-01	3.177827e+00	2.855352e-01	3.249392e-04	-3.419951e-01
## 898	-4.110900e-01	-6.420473e-02	3.324628e-02	2.846183e-01	-7.466723e-02
## 899	-1.684503e-01	3.553726e-01	3.717518e-02	3.829358e-02	-4.920983e-02
## 902	-3.279551e-06	9.083380e-06	8.582737e-07	3.024674e-07	-1.065386e-06
## 903	-1.045769e-01	3.310897e-01	2.990274e-02	1.093398e-03	-3.593579e-02
## 904	-2.838040e-01	9.938298e-01	9.250981e-02	-9.635030e-03	-1.124495e-01
## 905	8.522797e+00	2.658439e+00	1.481413e+00	-3.537994e+00	-2.420086e+00
## 906	6.098101e+00	-2.099842e-02	7.331717e-01	-2.399325e+00	-1.248878e+00
## 907	-1.026700e+00	1.092660e+00	9.259052e-01	-4.354219e-01	-5.275727e-02
## 909	-1.037609e-03	-4.537103e-04	6.595703e-05	7.782945e-04	-1.743124e-04
## 911	-1.070807e-05	2.458547e-05	2.517907e-06	2.064711e-06	-3.284602e-06
## 912	1.416651e+00	-1.854813e-01	1.665992e-01	-5.109611e-01	-2.951858e-01
## 913	-2.401307e-03	7.721960e-03	6.938374e-04	7.890941e-07	-8.310331e-04
## 914	-4.805583e-04	1.545151e-03	1.388443e-04	2.019590e-07	-1.663056e-04
## 915	4.297175e+00	1.595742e+00	7.898253e-01	-1.802015e+00	-1.283377e+00
## 917	-7.725900e-04	5.965047e-04	1.086643e-04	3.901504e-04	-1.789063e-04
## 919	-2.388270e-03	2.247692e-03	3.551329e-04	1.116014e-03	-5.621025e-04
## 921	-4.077733e-04	1.311028e-03	1.178108e-04	1.932288e-07	-1.411156e-04

## 922	-7.948558e-01	-4.838298e-01	4.209744e-02	6.241273e-01	-1.268282e-01
## 923	-9.623967e-01	2.563901e-01	1.103836e+00	-5.795883e-01	6.009228e-02
## 924	-1.831238e-03	5.888726e-03	5.291189e-04	6.116548e-07	-6.337458e-04
## 925	-4.444786e-02	3.196356e-01	3.613031e-02	-2.062717e-02	-4.714185e-02
## 927	-2.473550e-03	7.954296e-03	7.147392e-04	8.413398e-07	-8.560850e-04
## 928	-1.430309e+00	2.253468e+00	1.095782e+00	-4.788317e-01	-1.700431e-01
## 929	8.128170e+00	-1.043880e+00	9.528682e-01	-2.941242e+00	-1.686678e+00
## 932	-8.797445e-02	3.014316e-01	2.748230e-02	-2.613943e-03	-3.306763e-02
## 933	-1.521752e-03	4.888079e-03	4.412833e-04	-6.142602e-07	-5.258823e-04
## 935	-4.686986e-03	1.079325e-04	4.310638e-04	3.072879e-03	-8.926086e-04
## 936	9.151720e-05	9.820296e-06	1.085375e-05	-3.907267e-05	-1.778263e-05
## 937	-1.769356e-03	5.689702e-03	5.112375e-04	5.980361e-07	-6.123297e-04
## 939	-3.057683e-01	8.369903e-01	1.308429e-01	-2.971310e-02	-8.557334e-02
## 940	-1.565373e-06	8.481902e-08	1.478044e-07	1.017323e-06	-3.020400e-07
## 941	-3.657631e-03	1.245568e-02	1.151290e-03	-7.602203e-05	-1.396151e-03
## 942	-7.669190e+00	2.175868e+00	1.006013e+01	-5.580964e+00	3.334668e-01
## 946	6.578619e-03	6.162661e-03	1.699335e-03	-3.193304e-03	-2.633232e-03
## 947	-5.659179e+00	2.852078e+00	1.801328e+01	-1.218383e+01	-9.946569e-01
## 949	5.811581e-01	3.340835e+00	5.186643e-01	-6.087554e-01	-7.352468e-01
## 950	-2.311349e-03	7.432674e-03	6.678444e-04	7.599795e-07	-7.999004e-04
## 952	-1.875331e-01	5.926697e-01	5.666928e-02	-1.435391e-03	-6.359867e-02
## 957	-3.486334e-03	1.121258e-02	1.007601e-03	1.049938e-06	-1.206911e-03
## 958	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 960	-1.833674e+01	4.884613e+00	2.105797e+01	-1.106303e+01	1.142452e+00
## 961	-7.797993e-01	2.038206e+00	1.979948e-01	9.501006e-02	-2.468419e-01
## 962	-3.611885e-01	1.217357e+00	1.117256e-01	-6.408121e-03	-1.350403e-01
## 963	-9.713791e+00	3.814805e+01	3.268955e+00	-1.443558e+00	-3.701189e+00
## 964	-3.442065e+00	1.107094e+01	9.946888e-01	6.807733e-04	-1.191317e+00
## 965	-8.411030e-04	1.503898e-03	1.736835e-04	2.527294e-04	-2.414058e-04
## 966	2.723984e-10	3.330030e-10	8.062090e-11	-1.413159e-10	-1.230215e-10
## 967	1.201398e-03	5.270283e-05	1.689610e-04	-4.578545e-04	-2.880781e-04
## 968	-5.934874e-05	1.905856e-04	1.713336e-05	7.536341e-08	-2.052875e-05
## 969	1.968121e+01	1.389170e+01	-9.241563e-01	-1.584645e+01	3.047169e+00
## 971	4.388609e-01	9.155294e-01	1.749731e-01	-2.780892e-01	-2.572305e-01

## 975	1.657257e+01	4.674085e+01	1.387424e+00	-2.053144e+01	8.508481e-01
## 977	2.618227e+00	2.813522e-01	3.900899e-01	-1.017351e+00	-6.576035e-01
## 978	6.891353e+00	1.178147e+00	8.046610e-01	-3.081790e+00	-1.286726e+00
## 979	7.659154e-02	2.317023e+00	3.134972e-01	-3.022234e-01	-4.301187e-01
## 981	2.430922e+00	-7.273464e-01	2.317341e-01	-8.292975e-01	-4.325703e-01
## 982	3.425308e+01	-1.455951e+02	-1.515590e+01	4.509656e+00	1.834016e+01
## 983	1.129356e+01	1.251310e+00	1.687944e+00	-4.392250e+00	-2.843957e+00
## 984	-1.071122e+01	2.504298e+01	5.830290e+00	-1.917597e+00	-2.404593e+00
## 985	-4.263407e-01	-2.593524e-01	2.258495e-02	3.347387e-01	-6.803648e-02
## 988	-1.160037e-03	3.730289e-03	3.351789e-04	3.980543e-07	-4.014578e-04
## 989	-1.446073e-01	5.884849e-01	4.963919e-02	-2.499207e-02	-5.651006e-02
## 990	-1.339347e-03	4.306886e-03	3.869895e-04	4.624853e-07	-4.635147e-04
## 991	-3.858507e-06	3.775838e-06	5.822282e-07	1.772839e-06	-9.143581e-07
## 992	-6.059984e-01	-1.545941e-01	4.531003e-02	4.318665e-01	-1.071453e-01
## 993	2.278689e+00	5.133857e-01	2.658742e-01	-1.054318e+00	-4.168649e-01
## 994	-2.678514e-01	8.630850e-01	7.757192e-02	-1.812407e-04	-9.291412e-02
## 995	1.210238e-02	-2.896037e-04	1.596066e-03	-4.513667e-03	-2.758536e-03
## 996	3.498365e+01	2.705322e+01	-1.497043e+00	-2.865176e+01	5.301270e+00
## 997	-1.129345e+00	1.196562e+00	1.017047e+00	-4.765844e-01	-5.805049e-02
## 999	-5.194672e-01	3.655504e+00	4.117048e-01	-2.317085e-01	-5.365603e-01
## 1000	3.318258e+00	2.725378e+00	8.067061e-01	-1.565898e+00	-1.259437e+00
## 1001	-4.965818e-03	2.153093e-03	5.454114e-03	-2.820981e-03	1.950800e-04
## 1002	-6.799995e-01	1.693647e+00	1.660719e-01	1.014327e-01	-2.113157e-01
## 1004	-1.518402e-03	4.882699e-03	4.387258e-04	5.152358e-07	-5.254797e-04
## 1006	-1.450869e-06	1.580154e-06	2.296928e-07	6.348026e-07	-3.532594e-07
## 1007	-2.032976e-03	6.537490e-03	5.874111e-04	6.722840e-07	-7.035636e-04
## 1008	1.012008e-01	1.113521e-01	-2.287703e-03	-8.967433e-02	1.371991e-02
## 1009	-6.088603e-01	1.950506e-01	6.886157e-01	-3.597677e-01	3.342447e-02
## 1010	1.898216e-03	2.450604e-03	-7.276719e-06	-1.739555e-03	2.148643e-04
## 1011	-5.835938e-01	1.887867e+00	1.700936e-01	-1.121227e-03	-2.039684e-01
## 1012	-4.617166e-01	1.375817e+00	1.266877e-01	2.251062e-02	-1.544775e-01
## 1013	7.841358e+00	-5.413686e-01	1.065266e+00	-2.945063e+00	-1.728840e+00
## 1014	-2.934089e-01	-1.713121e-01	1.598570e-02	2.288956e-01	-4.717278e-02
## 1016	-1.625791e-04	3.692035e-04	4.010857e-05	3.487270e-05	-5.365313e-05

## 1017	4.006942e+00	-1.055793e+00	5.947386e-01	-1.139040e+00	-1.101092e+00
## 1018	8.561477e-03	1.176067e-02	-4.838492e-05	-8.065745e-03	1.045178e-03
## 1020	-2.521696e-03	8.114127e-03	7.294897e-04	4.986210e-07	-8.739820e-04
## 1023	6.465979e-01	4.539680e-01	-3.051109e-02	-5.201146e-01	1.002280e-01
## 1024	-6.327404e-05	-3.791263e-05	3.395375e-06	4.957040e-05	-1.014025e-05
## 1025	-8.864024e-01	5.949630e-01	9.122866e-01	-4.605156e-01	5.647357e-03
## 1032	7.115184e+00	1.314218e+00	4.632700e-01	-3.673241e+00	-6.352008e-01
## 1033	-6.305221e-01	1.940669e+00	1.768200e-01	1.804552e-02	-2.139682e-01
## 1034	1.456229e-04	3.923889e-05	5.269339e-06	-8.398599e-05	-4.307649e-06
## 1035	-1.344331e-01	4.683692e-02	1.509811e-01	-7.870555e-02	6.866656e-03
## 1039	4.134576e-06	-2.753566e-05	-3.150310e-06	1.562442e-06	4.137896e-06
## 1041	-2.687360e-03	8.641874e-03	7.765189e-04	9.063707e-07	-9.300799e-04
## 1044	1.453377e+00	5.039817e-01	1.584797e-01	-7.364332e-01	-2.333946e-01
## 1045	-5.686792e-06	-1.550179e-06	4.292324e-07	4.085950e-06	-1.019628e-06
## 1046	2.344012e+01	3.572958e+01	8.322342e-02	-2.281018e+01	2.693411e+00
## 1049	-1.661143e+00	2.194708e+00	1.286693e+00	-5.144836e-01	-1.680168e-01
## 1050	-8.248586e-06	2.224819e-06	9.452916e-06	-4.962013e-06	5.112561e-07
## 1051	-1.311843e-01	4.341764e-01	3.931396e-02	-1.667246e-03	-4.721335e-02
## 1055	2.603200e+00	-4.139866e-01	3.297466e-01	-8.884365e-01	-5.914112e-01
## 1056	6.742124e+00	5.996962e+00	-2.401799e-01	-5.682561e+00	9.834676e-01
## 1057	7.222569e+00	7.141264e-01	1.060032e+00	-2.809142e+00	-1.788164e+00
## 1058	-1.669532e-04	-6.521820e-05	1.113295e-05	1.236819e-04	-2.850156e-05
## 1059	6.516079e+00	5.298175e+00	-2.628418e-01	-5.389894e+00	9.747710e-01
## 1061	9.529680e-02	6.603075e-02	-4.550686e-03	-7.647551e-02	1.481424e-02
## 1062	-7.709898e+00	2.482803e+01	2.232298e+00	-1.604779e-03	-2.674446e+00
## 1063	4.491775e+00	2.402361e+00	9.223780e-01	-1.969397e+00	-1.473494e+00
## 1064	-3.079168e-07	1.034286e-07	3.470014e-07	-1.811093e-07	1.625716e-08
## 1065	2.177203e+00	9.168027e-01	4.144325e-01	-9.256755e-01	-6.696765e-01
## 1066	-1.911196e-03	6.145415e-03	5.523562e-04	5.343808e-07	-6.613498e-04
## 1067	-4.544200e-04	1.344562e-03	1.304924e-04	3.217343e-05	-1.635205e-04
## 1070	-2.582439e-04	8.299346e-04	7.459404e-05	1.993157e-07	-8.936203e-05
## 1074	8.324404e-02	1.290435e-01	4.300019e-04	-8.144741e-02	9.457424e-03
## 1075	-7.127000e-02	-4.373974e-02	3.751704e-03	5.603614e-02	-1.135468e-02
## 1080	1.388510e+01	-1.817888e+00	1.632908e+00	-5.008121e+00	-2.893236e+00

##	1081	4.507253e-01	1.898110e+00	3.104792e-01	-3.917636e-01	-4.448318e-01
##	1082	-1.318745e-01	3.552151e-02	1.511424e-01	-7.933989e-02	8.180384e-03
##	1086	3.169691e+01	2.009959e+01	-1.628649e+00	-2.505444e+01	5.018391e+00
##	1087	-8.664835e+00	3.544226e+00	9.578733e+00	-4.965770e+00	3.698558e-01
##	1088	-2.592296e-02	8.336103e-02	7.490179e-03	8.539340e-06	-8.971236e-03
##	1091	-2.139834e-03	6.881057e-03	6.182885e-04	7.258321e-07	-7.405515e-04
##	1092	-1.054652e-03	3.391370e-03	3.047285e-04	3.716449e-07	-3.649881e-04
##	1093	-1.027728e+00	-5.522869e-01	5.894110e-02	7.919523e-01	-1.675625e-01
##	1095	-8.712655e-04	2.801622e-03	2.517395e-04	3.175224e-07	-3.015225e-04
##	1096	4.273048e-01	1.484975e+00	5.297469e-02	-5.868883e-01	8.413073e-03
##	1098	-5.156658e-04	-2.083375e-04	3.383289e-05	3.832692e-04	-8.745747e-05
##	1099	-4.307701e-04	1.384573e-03	1.244503e-04	3.090066e-07	-1.490914e-04
##	1100	-9.893532e-01	3.217104e+00	2.905502e-01	-3.844693e-03	-3.487761e-01
##	1102	-4.595158e-06	1.312650e-05	1.227365e-06	3.420510e-07	-1.512528e-06
##	1104	-1.222627e+00	3.244582e+00	5.483680e-01	-1.344173e-01	-3.291709e-01
##	1105	-2.118687e-01	6.335990e-01	7.502215e-02	-9.588925e-03	-6.673374e-02
##	1107	3.853521e+00	5.212178e+00	-2.715660e-02	-3.614163e+00	4.750759e-01
##	1108	-1.167137e+01	3.114473e+00	1.347412e+01	-7.095424e+00	7.193791e-01
##	1110	-4.329537e-01	5.115923e+00	6.153784e-01	-4.354160e-01	-8.182502e-01
##	1111	1.091919e+00	-1.414389e-01	1.286131e-01	-3.940159e-01	-2.277959e-01
##	1112	-8.728210e-04	2.806654e-03	2.521894e-04	3.099738e-07	-3.020596e-04
##	1113	-2.120663e+00	7.919789e+00	1.101725e+00	-7.135676e-01	-6.809213e-01
##	1114	1.332356e+00	1.280246e+00	-4.159119e-02	-1.142494e+00	1.897072e-01
##	1115	-1.161598e+00	4.729290e+01	3.051447e+00	-8.903601e+00	-2.578638e+00
##	1117	-7.052444e-01	-2.824920e-01	4.640081e-02	5.236470e-01	-1.196902e-01
##	1118	6.605242e-11	7.151791e-10	1.031664e-10	-1.083834e-10	-1.438602e-10
##	1119	-4.161826e-05	1.305650e-04	1.182354e-05	6.843442e-07	-1.424360e-05
##	1121	4.007753e-01	1.119197e+01	1.526163e+00	-1.461691e+00	-2.099174e+00
##	1122	3.779452e+00	8.056478e-01	6.159433e-01	-1.515161e+00	-1.021275e+00
##	1127	5.292891e+00	5.497365e-01	7.530544e-01	-2.096072e+00	-1.264246e+00
##	1129	1.083282e-05	-1.696442e-06	1.337809e-06	-3.747915e-06	-2.395068e-06
##	1130	3.724420e-02	2.478833e-02	-1.839716e-03	-2.967743e-02	5.836374e-03
##	1131	-2.374886e+00	1.481282e+00	2.474978e+00	-1.254473e+00	3.022442e-02
##	1132	6.025669e-02	-6.943134e-04	8.057256e-03	-2.254526e-02	-1.389141e-02

##	1134	-7.719431e-04	2.948050e-04	7.866711e-04	-3.556928e-04	1.167369e-05
##	1135	-9.139923e-04	2.938777e-03	2.641166e-04	4.401566e-07	-3.163844e-04
##	1136	2.145800e-01	1.559832e-01	-9.796496e-03	-1.736989e-01	3.300165e-02
##	1137	1.614384e+00	1.157383e+00	3.613625e-01	-7.533704e-01	-5.658109e-01
##	1138	-2.083859e-02	4.257391e-01	5.329283e-02	-4.190404e-02	-7.167874e-02
##	1141	2.490742e-01	1.689365e-01	-1.211928e-02	-1.991337e-01	3.889789e-02
##	1142	1.535407e-02	1.405529e-02	3.922917e-03	-7.414655e-03	-6.086848e-03
##	1143	1.034122e+01	1.078381e+00	1.591606e+00	-3.944751e+00	-2.694585e+00
##	1144	7.797799e+00	6.079200e+00	-3.306575e-01	-6.396500e+00	1.179246e+00
##	1145	-5.923919e-01	1.904965e+00	1.711655e-01	1.955805e-04	-2.050107e-01
##	1146	3.412180e-02	1.234375e-01	2.299560e-02	-2.886383e-02	-3.030618e-02
##	1147	-1.292145e-04	-7.955350e-05	7.096175e-06	1.020377e-04	-2.115297e-05
##	1148	4.755154e+00	5.499642e-01	5.189207e-01	-2.097853e+00	-8.375099e-01
##	1150	-2.771829e-03	8.919196e-03	8.018496e-04	4.889910e-07	-9.606606e-04
##	1152	-5.725127e-04	1.840598e-03	1.654131e-04	3.030781e-07	-1.981445e-04
##	1153	-3.847239e-01	1.220058e+00	1.101073e-01	3.638761e-03	-1.323098e-01
##	1156	-4.956792e-02	1.593962e-01	1.432213e-02	1.641262e-05	-1.715410e-02
##	1157	-2.156316e-02	2.770822e-02	3.662264e-03	8.552501e-03	-5.433578e-03
##	1158	-5.845012e-03	-3.587221e-03	3.076919e-04	4.595665e-03	-9.312361e-04
##	1159	5.762626e+00	2.508740e+00	-2.233441e-02	-3.885373e+00	3.245555e-01
##	1160	1.043531e-01	1.303274e-01	-1.402795e-03	-9.565092e-02	1.339233e-02
##	1161	-1.046787e+00	4.961700e+00	4.009120e-01	-3.271072e-01	-4.400751e-01
##	1163	5.865560e+00	6.708641e-01	6.822238e-01	-2.532460e+00	-1.112306e+00
##	1166	-2.948176e-04	-1.810071e-04	1.553587e-05	2.318419e-04	-4.700564e-05
##	1167	-7.087465e-04	-3.584965e-04	4.216878e-05	5.417358e-04	-1.169098e-04
##	1168	-5.903509e+00	1.937384e+01	1.729814e+00	-7.805338e-02	-2.062057e+00
##	1169	-1.076181e-03	3.460621e-03	3.109491e-04	3.730769e-07	-3.724375e-04
##	1172	-2.802329e-06	9.013448e-06	8.098847e-07	6.013733e-10	-9.700175e-07
##	1175	-6.688647e-04	-4.045902e-04	3.560526e-05	5.247236e-04	-1.069096e-04
##	1176	-4.211180e-03	1.354215e-02	1.216809e-03	1.378219e-06	-1.457422e-03
##	1177	-1.971066e-03	6.338083e-03	5.696133e-04	5.833594e-07	-6.820891e-04
##	1178	-4.080444e-04	2.256846e-04	5.180371e-05	2.243054e-04	-8.999448e-05
##	1179	1.156124e-01	1.284915e-02	1.728438e-02	-4.496858e-02	-2.912011e-02
##	1181	-6.476969e-01	3.722413e+00	3.683597e-01	-2.353055e-01	-4.536857e-01

##	1182	-1.337114e-03	4.299683e-03	3.863451e-04	4.689130e-07	-4.627449e-04
##	1184	-3.081013e-06	1.413870e-06	3.661091e-07	1.744213e-06	-6.520299e-07
##	1185	-1.539345e-01	-9.447159e-02	8.103275e-03	1.210310e-01	-2.452476e-02
##	1186	1.288375e-04	-1.447540e-06	1.718370e-05	-4.827084e-05	-2.961739e-05
##	1187	-1.935570e-04	6.221366e-04	5.591119e-05	1.264106e-07	-6.697574e-05
##	1188	6.388160e+00	1.249208e+00	1.002540e+00	-2.577466e+00	-1.661898e+00
##	1189	1.055620e+01	5.489715e+01	2.432030e+00	-1.823685e+01	-6.794698e-01
##	1190	-1.041298e+00	1.154714e+00	9.375887e-01	-4.461056e-01	-5.688359e-02
##	1191	1.393023e-04	1.469277e-04	3.869281e-05	-6.995115e-05	-5.876513e-05
##	1194	-1.558552e-04	2.020577e-04	2.717144e-05	6.219490e-05	-4.046444e-05
##	1195	-1.220716e-01	3.901968e-01	3.513185e-02	5.298872e-04	-4.214146e-02
##	1197	-7.095118e-05	1.891240e-05	8.137561e-05	-4.272715e-05	4.428756e-06
##	1198	-1.824468e-02	9.170672e-03	1.966314e-02	-1.009657e-02	5.399160e-04
##	1201	-5.779005e+00	1.874845e+01	1.679955e+00	-3.191255e-02	-2.007997e+00
##	1203	6.266119e-01	-8.204226e-02	7.368995e-02	-2.260078e-01	-1.305663e-01
##	1205	-5.012808e-06	8.110377e-06	9.647422e-07	1.658772e-06	-1.363948e-06
##	1206	-6.311090e-02	1.156163e+00	1.429807e-01	-1.124373e-01	-1.915262e-01
##	1207	-3.844442e-03	1.239811e-02	1.115877e-03	-2.381259e-06	-1.337562e-03
##	1208	-2.339521e-03	7.523218e-03	6.759924e-04	7.936493e-07	-8.096682e-04
##	1211	-5.790575e-01	1.819883e+00	1.648266e-01	9.001444e-03	-1.985585e-01
##	1212	-9.814833e-03	2.344389e-02	2.335104e-03	1.669438e-03	-3.000995e-03
##	1216	-1.521752e-03	4.888079e-03	4.412833e-04	-6.142602e-07	-5.258823e-04
##	1217	-5.515410e-06	1.638766e-05	1.511721e-06	2.801856e-07	-1.845408e-06
##	1218	-4.457186e-05	1.433331e-04	1.287891e-05	1.440117e-08	-1.542555e-05
##	1219	2.740488e-03	3.130911e-03	-5.444379e-05	-2.451588e-03	3.651912e-04
##	1220	-1.401439e-01	6.404807e-01	6.481081e-02	-2.300821e-02	-8.131201e-02
##	1221	-7.821433e-01	2.084501e-01	8.970680e-01	-4.710170e-01	4.882600e-02
##	1224	4.727732e+00	5.033397e+00	-1.173181e-01	-4.154716e+00	6.492458e-01
##	1225	-3.593333e+00	1.134438e+00	4.069848e+00	-2.127782e+00	1.998199e-01
##	1226	-4.222782e-02	1.172475e-02	4.829571e-02	-2.533402e-02	2.570932e-03
##	1227	-8.147248e-06	2.387870e-05	2.210872e-06	4.789405e-07	-2.706372e-06
##	1229	-6.465915e-01	2.080177e+00	1.868828e-01	2.455176e-05	-2.238127e-01
##	1230	-2.549776e-01	-1.564845e-01	1.342220e-02	2.004765e-01	-4.062281e-02
##	1231	8.190546e-02	9.515107e-02	-1.541781e-03	-7.360972e-02	1.085990e-02

##	1233	-5.018346e-06	1.362752e-06	5.748428e-06	-3.016996e-06	3.097631e-07
##	1234	8.453068e+00	-1.681342e-01	9.601898e-01	-3.357340e+00	-1.635551e+00
##	1235	-3.991951e-03	1.324888e-02	1.209485e-03	-4.456646e-05	-1.458842e-03
##	1236	4.658928e+00	4.022841e+01	5.957476e+00	-1.585772e+01	-8.877831e-02
##	1238	2.179306e-04	1.323433e-05	1.718314e-05	-1.010823e-04	-2.684784e-05
##	1242	-2.027755e-03	6.520239e-03	5.858867e-04	7.811369e-07	-7.017578e-04
##	1247	-1.628038e-03	5.235266e-03	4.704042e-04	5.491672e-07	-5.634214e-04
##	1249	7.396154e-02	-1.034769e-03	9.837844e-03	-2.768686e-02	-1.696593e-02
##	1251	-7.387610e-03	2.375650e-02	2.134576e-03	2.433509e-06	-2.556652e-03
##	1252	-8.598533e-01	4.070313e+00	5.425031e-01	-2.462058e-01	-5.429301e-01
##	1253	-5.055900e-01	1.484960e+00	1.374018e-01	2.909097e-02	-1.681187e-01
##	1256	-3.834625e-03	1.233846e-02	1.109086e-03	5.766947e-07	-1.328644e-03
##	1258	4.196539e+00	8.296320e+00	1.321377e-01	-4.473581e+00	3.895262e-01
##	1259	-2.876662e-04	9.248084e-04	8.310613e-05	1.491038e-07	-9.954720e-05
##	1263	-6.880157e-01	-3.331772e-01	4.171384e-02	5.226731e-01	-1.139579e-01
##	1264	-5.192091e-04	7.490417e-04	9.382832e-05	1.898797e-04	-1.359363e-04
##	1265	5.562879e+00	6.555131e+00	-9.900497e-02	-5.018465e+00	7.330793e-01
##	1266	4.175740e-02	3.053439e-02	-1.895093e-03	-3.383859e-02	6.412980e-03
##	1269	-4.174013e-03	1.342246e-02	1.206039e-03	1.374889e-06	-1.444513e-03
##	1270	-1.798580e-03	5.783678e-03	5.196818e-04	6.081466e-07	-6.224438e-04
##	1271	3.542698e-05	4.018114e-04	2.183512e-05	-1.055445e-04	-1.335348e-05
##	1272	-2.401235e+00	6.391265e-01	2.754304e+00	-1.446225e+00	1.500143e-01
##	1273	-1.649847e-03	5.305260e-03	4.766995e-04	5.873836e-07	-5.709664e-04
##	1274	-1.154330e+00	2.172145e+00	7.815131e-01	-3.142222e-01	-1.861947e-01
##	1276	-1.337114e-03	4.299683e-03	3.863451e-04	4.689130e-07	-4.627449e-04
##	1282	3.054713e+01	1.874807e+01	-1.607979e+00	-2.401787e+01	4.866709e+00
##	1283	2.266278e-01	-2.967144e-02	2.665169e-02	-8.174074e-02	-4.722229e-02
##	1284	-5.895767e-01	8.918863e-01	4.623476e-01	-2.048164e-01	-6.499478e-02
##	1285	1.820579e-01	1.184154e-01	-9.171127e-03	-1.445147e-01	2.867912e-02
##	1286	-2.367781e-01	6.840962e-01	9.078917e-02	-1.557964e-02	-7.126421e-02
##	1287	-3.324719e-05	8.878524e-06	3.812729e-05	-2.001832e-05	2.073018e-06
##	1288	4.651990e+00	3.823004e+00	-1.851493e-01	-3.856291e+00	6.939369e-01
##	1289	2.327158e+00	5.814536e-03	3.145984e-01	-8.756350e-01	-5.407187e-01
##	1290	-3.793813e-03	1.626804e-03	4.172141e-03	-2.158895e-03	1.515490e-04

##	1291	9.906655e-02	8.931015e-02	-3.455012e-03	-8.374183e-02	1.439162e-02
##	1293	-7.271399e-03	5.208145e-03	9.799577e-04	3.732967e-03	-1.630925e-03
##	1294	-1.797501e-01	7.290597e-01	7.183593e-02	-1.759092e-02	-8.934210e-02
##	1296	3.183621e+00	3.363447e+00	8.726219e-01	-1.589837e+00	-1.342864e+00
##	1298	7.630645e+00	-4.582187e-01	9.686973e-01	-2.815358e+00	-1.687290e+00
##	1299	-1.563295e-10	7.154114e-10	7.340211e-11	-2.494781e-11	-9.235028e-11
##	1301	7.603004e+00	9.104397e-01	5.638909e-01	-3.698401e+00	-8.402943e-01
##	1302	-1.270258e-03	4.086225e-03	3.674557e-04	5.531587e-07	-4.403056e-04
##	1304	-3.929163e+00	1.263670e+01	1.135477e+00	1.071598e-03	-1.360015e+00
##	1305	-2.217308e-03	7.130174e-03	6.406758e-04	7.594789e-07	-7.673681e-04
##	1306	-2.814329e-04	-2.441479e-05	2.401771e-05	1.909050e-04	-5.216651e-05
##	1308	-5.980492e+00	1.946737e+01	1.742557e+00	-4.641160e-02	-2.081195e+00
##	1309	1.244011e+00	3.192944e+00	5.886093e-01	-8.406391e-01	-8.624678e-01
##	1311	5.629162e+00	7.817311e-01	8.165684e-01	-2.265257e+00	-1.360737e+00
##	1312	1.135906e-03	-1.079792e-04	1.427590e-04	-4.173522e-04	-2.443816e-04
##	1315	-1.274959e-03	4.098832e-03	3.683502e-04	6.797078e-07	-4.412327e-04
##	1317	1.316731e+01	2.188338e+01	1.586143e-01	-1.318542e+01	1.424574e+00
##	1318	-7.575575e-07	2.246561e-07	8.623250e-07	-4.516193e-07	4.413148e-08
##	1320	-1.980383e-03	6.368305e-03	5.722139e-04	6.709867e-07	-6.853648e-04
##	1321	-6.332140e-07	1.912619e-07	7.197796e-07	-3.767859e-07	3.640512e-08
##	1323	-9.259005e+00	3.569056e+01	3.294065e+00	-8.910648e-01	-3.966918e+00
##	1324	7.241149e-01	-9.479451e-02	8.515591e-02	-2.611799e-01	-1.508811e-01
##	1325	2.341649e+00	1.156618e+00	4.681768e-01	-1.015564e+00	-7.508453e-01
##	1326	-4.610607e-01	-1.773187e-01	3.078936e-02	3.408283e-01	-7.860778e-02
##	1327	-1.183823e-03	-7.265357e-04	6.231755e-05	9.307833e-04	-1.886063e-04
##	1328	-7.231787e-03	6.391496e-03	1.049316e-03	3.463854e-03	-1.680995e-03
##	1329	3.991322e+00	2.421765e+01	1.133486e+00	-7.605220e+00	-4.263811e-01
##	1330	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
##	1331	2.988490e-01	1.197689e+00	4.687360e-02	-4.431099e-01	-1.885796e-03
##	1332	-9.904911e-04	3.184948e-03	2.861857e-04	3.730579e-07	-3.427826e-04
##	1334	-1.693374e-03	5.443682e-03	4.897904e-04	2.015900e-07	-5.857905e-04
##	1335	-6.073153e-01	1.953103e+00	1.754867e-01	1.701451e-04	-2.101826e-01
##	1340	-2.259629e-01	2.204612e+00	2.600724e-01	-1.725746e-01	-3.438460e-01
##	1341	-1.941820e-01	6.136049e-01	5.835098e-02	-1.095587e-03	-6.593183e-02

##	1343	-3.133864e-05	-4.270963e-07	2.810131e-06	2.078046e-05	-5.909976e-06
##	1347	-1.778613e-04	5.716173e-04	5.137363e-05	1.312453e-07	-6.154239e-05
##	1348	-1.131172e+00	1.115873e+00	1.049418e+00	-5.020040e-01	-4.499774e-02
##	1350	-3.677295e-07	1.196362e-07	4.155297e-07	-2.170782e-07	1.995364e-08
##	1352	4.554573e+00	6.604451e+00	1.481042e+00	-2.488411e+00	-2.236602e+00
##	1354	-7.203096e-01	-3.392700e-01	4.426083e-02	5.452472e-01	-1.197723e-01
##	1355	6.764157e+00	1.721968e-01	8.720743e-01	-2.642516e+00	-1.482201e+00
##	1356	8.079905e-02	-1.056958e-02	9.500923e-03	-2.914684e-02	-1.683331e-02
##	1357	-1.257744e-03	4.044527e-03	3.634135e-04	4.234763e-07	-4.352749e-04
##	1358	-4.875442e-04	1.567343e-03	1.408581e-04	2.753489e-07	-1.687325e-04
##	1359	1.503258e-01	8.522075e-01	3.899883e-02	-2.741360e-01	-1.314626e-02
##	1360	7.594989e-01	6.831606e-01	1.924401e-01	-3.653777e-01	-2.988869e-01
##	1363	-2.593116e-03	8.338254e-03	7.492787e-04	1.021552e-06	-8.974844e-04
##	1364	4.955659e-03	9.047744e-04	7.908198e-04	-1.964766e-03	-1.317975e-03
##	1368	-1.652340e-04	1.491418e-03	1.898462e-04	-9.244553e-05	-2.588496e-04
##	1369	-9.084863e-05	-5.577063e-05	4.812727e-06	7.147249e-05	-1.453173e-05
##	1370	-1.666254e-01	5.311339e-01	4.916629e-02	-5.053336e-04	-5.710252e-02
##	1372	-1.713428e-01	5.363563e-01	5.108282e-02	1.819877e-04	-5.795280e-02
##	1374	-8.342420e-04	2.682434e-03	2.410433e-04	3.441512e-07	-2.887209e-04
##	1375	-6.407943e-04	-3.932737e-04	3.373329e-05	5.038290e-04	-1.020939e-04
##	1376	-4.116900e-03	1.325184e-02	1.191407e-03	2.564351e-08	-1.427375e-03
##	1377	4.683173e-01	4.243231e-01	-1.620336e-02	-3.963115e-01	6.793304e-02
##	1378	5.157677e-01	3.165401e-01	-2.714530e-02	-4.055292e-01	8.217251e-02
##	1379	-1.962983e-04	7.818434e-07	1.782392e-05	1.294655e-04	-3.720336e-05
##	1383	-6.692649e-01	4.906526e+00	3.673960e-01	-5.695929e-01	-3.650642e-01
##	1384	-2.133675e-03	6.861277e-03	6.165234e-04	7.352838e-07	-7.384454e-04
##	1385	6.421133e-01	1.076586e+00	8.313560e-03	-6.449348e-01	6.901642e-02
##	1386	1.299940e+00	8.166748e-01	2.802871e-01	-5.874859e-01	-4.432976e-01
##	1387	-9.961121e+00	3.219935e+01	2.900057e+00	-1.641942e-02	-3.477060e+00
##	1388	5.105860e+00	8.625074e-01	7.780332e-01	-2.050958e+00	-1.293872e+00
##	1389	2.434817e-02	1.535063e-02	-1.256257e-03	-1.922709e-02	3.858705e-03
##	1390	3.461483e-02	-4.531938e-03	4.070738e-03	-1.248499e-02	-7.212656e-03
##	1391	9.981899e+00	-8.889049e-01	3.049588e+00	-5.032194e+00	-2.332596e+00
##	1393	-2.772612e+00	2.662203e+01	3.108619e+00	-2.100191e+00	-4.093397e+00

## 1395	8.441107e-01	5.353621e-01	1.732854e-01	-3.939117e-01	-2.712256e-01
## 1397	-2.148096e-03	6.907499e-03	6.206729e-04	7.613424e-07	-7.434140e-04
## 1399	-2.252607e-05	6.009058e-06	2.583432e-05	-1.356435e-05	1.405434e-06
## 1400	-6.221802e+00	2.003907e+01	1.799674e+00	-4.409056e-03	-2.154739e+00
## 1403	-1.981612e-01	6.103545e-01	6.395789e-02	-4.127399e-03	-6.514010e-02
## 1404	-4.113809e-03	1.322891e-02	1.188652e-03	1.352554e-06	-1.423690e-03
## 1405	-8.551811e-03	6.039928e-02	4.510328e-03	-6.737368e-03	-4.581352e-03
## 1406	-1.894322e-01	6.089762e-01	5.472313e-02	1.003924e-04	-6.554837e-02
## 1408	5.776551e+00	7.763833e-01	8.486485e-01	-2.303762e+00	-1.418078e+00
## 1409	6.874073e+00	3.985106e-01	9.450214e-01	-2.674578e+00	-1.601249e+00
## 1410	-1.852334e+00	5.957235e+00	5.352539e-01	4.787543e-04	-6.410757e-01
## 1412	3.504640e+00	3.284692e+00	9.055363e-01	-1.701330e+00	-1.403158e+00
## 1413	-6.492572e-06	1.556994e-05	1.548406e-06	1.091583e-06	-1.988026e-06
## 1414	-2.607501e-01	2.613479e+00	3.092661e-01	-2.072565e-01	-4.092677e-01
## 1415	2.745523e+01	2.699830e+01	-8.190116e-01	-2.366948e+01	3.879171e+00
## 1417	3.870165e+01	3.489612e+01	-1.349594e+00	-3.271633e+01	5.622387e+00
## 1418	6.670311e+00	1.355028e+00	1.078130e+00	-2.666149e+00	-1.790436e+00
## 1420	3.935485e-01	4.105145e-01	-1.028767e-02	-3.441075e-01	5.445583e-02
## 1421	-1.000101e+00	-6.133174e-01	5.267464e-02	7.862359e-01	-1.593579e-01
## 1422	6.751498e+00	1.245924e+00	1.002114e+00	-2.775496e+00	-1.654014e+00
## 1423	-1.518994e-02	3.779952e-02	3.707426e-03	2.272362e-03	-4.718303e-03
## 1424	-3.423289e-03	1.100835e-02	9.891256e-04	1.127131e-06	-1.184708e-03
## 1425	2.273412e+00	4.743906e+01	2.723138e+00	-1.123685e+01	-1.884747e+00
## 1426	-5.652057e-01	4.115482e+00	4.593965e-01	-2.767733e-01	-5.959941e-01
## 1427	1.146629e+01	-1.168552e+00	1.685220e+00	-4.397077e+00	-2.477589e+00
## 1429	-1.628038e-03	5.235266e-03	4.704042e-04	5.491672e-07	-5.634214e-04
## 1430	2.050928e-01	-6.595082e-01	-5.925873e-02	-7.030392e-05	7.097650e-02
## 1431	4.818713e-03	1.394175e-02	4.242420e-04	-6.042944e-03	2.318418e-04
## 1432	3.966655e+00	4.613801e+00	-7.432273e-02	-3.566063e+00	5.256733e-01
## 1434	-8.058300e-04	2.591179e-03	2.328319e-04	3.009838e-07	-2.788771e-04
## 1436	-8.041671e-04	1.688557e-03	1.790649e-04	1.870745e-04	-2.384317e-04
## 1437	1.190371e-03	-1.454773e-04	1.420127e-04	-4.297296e-04	-2.511283e-04
## 1438	-1.154703e-03	3.384027e-03	4.286127e-04	-6.594859e-05	-3.542216e-04
## 1439	2.739022e+00	2.618543e+00	7.145254e-01	-1.335623e+00	-1.105932e+00

## 1443	-2.323202e-03	7.471573e-03	6.714528e-04	7.742809e-07	-8.042935e-04
## 1445	-5.040759e-03	1.195404e-02	1.193879e-03	8.750508e-04	-1.536932e-03
## 1446	-1.808677e-01	6.108310e-02	2.036938e-01	-1.062863e-01	9.506109e-03
## 1447	5.367722e+00	1.095911e+00	8.683156e-01	-2.146155e+00	-1.441772e+00
## 1449	2.708404e+01	4.021505e+01	3.019202e-02	-2.613681e+01	3.164268e+00
## 1450	-4.170411e+00	1.576019e+01	1.386460e+00	-4.347378e-01	-1.626037e+00
## 1452	-1.980913e+00	1.365085e+00	2.028359e+00	-1.021808e+00	7.684252e-03
## 1454	2.270937e-01	1.839279e-02	3.304885e-02	-8.753059e-02	-5.596911e-02
## 1455	1.948475e-02	-2.496390e-03	2.298644e-03	-7.034207e-03	-4.069851e-03
## 1456	-2.206898e-03	7.096653e-03	6.376954e-04	7.026416e-07	-7.637318e-04
## 1457	-5.207760e-04	1.672498e-03	1.722959e-04	2.831820e-05	-2.211523e-04
## 1458	-1.721612e-01	5.438698e-01	5.211688e-02	-1.396020e-03	-5.834790e-02
## 1459	-3.393919e-03	1.092526e-02	9.822728e-04	-3.556515e-08	-1.176842e-03
## 1462	-1.366633e-01	2.627604e-01	2.928392e-02	3.549851e-02	-3.849978e-02
## 1463	5.934101e+00	9.734398e-01	9.052313e-01	-2.374200e+00	-1.507535e+00
## 1464	-5.768830e-04	1.835967e-03	1.655043e-04	4.115633e-06	-1.987108e-04
## 1465	-8.283819e-01	2.107866e+00	2.052241e-01	1.145321e-01	-2.598386e-01
## 1466	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
## 1468	6.685566e+00	1.461299e+00	1.052974e+00	-2.736293e+00	-1.736053e+00
## 1470	5.131133e+00	3.186311e+00	-2.678077e-01	-4.042001e+00	8.156699e-01
## 1472	6.346489e+00	7.582206e-01	9.298851e-01	-2.507381e+00	-1.559636e+00
## 1474	-3.619839e-07	1.179445e-07	4.089968e-07	-2.136587e-07	1.961616e-08
## 1475	-2.747100e-03	8.966040e-03	8.126824e-04	-1.261019e-05	-9.772899e-04
## 1477	-1.817620e-03	6.003698e-03	5.486153e-04	-1.477490e-05	-6.622547e-04
## 1478	-6.953007e-01	3.218108e+00	3.303524e-01	-1.144998e-01	-4.171761e-01
## 1479	-2.333241e-05	7.503398e-05	6.742120e-06	7.282186e-09	-8.075337e-06
## 1480	-4.347608e-04	1.397911e-03	1.256124e-04	1.786758e-07	-1.504557e-04
## 1481	6.038279e+00	5.818293e+00	-1.875032e-01	-5.181151e+00	8.589863e-01
## 1482	-3.020173e-01	9.712034e-01	8.726485e-02	9.949303e-05	-1.045200e-01
## 1483	-1.525314e-03	4.904907e-03	4.407345e-04	5.373735e-07	-5.278945e-04
## 1484	1.996849e+00	1.753338e+01	2.579005e+00	-2.800187e+00	-3.612579e+00
## 1485	-5.984115e-01	1.924322e+00	1.729049e-01	1.977031e-04	-2.070941e-01
## 1486	-1.085715e-01	2.933158e-02	1.244093e-01	-6.530227e-02	6.722818e-03
## 1487	-6.973542e+00	2.508495e+00	7.809057e+00	-4.066698e+00	3.452858e-01

## 1489	-1.014323e+00	4.344131e+00	4.354391e-01	-1.264564e-01	-5.450399e-01
## 1494	5.637147e+00	9.018376e+00	1.946144e+00	-3.176179e+00	-2.923353e+00
## 1496	-2.991084e-04	9.614880e-04	8.640779e-05	1.798767e-07	-1.035064e-04
## 1498	-1.957172e-03	6.326877e-03	5.704189e-04	-2.542565e-06	-6.843003e-04
## 1500	-9.439091e+00	3.663548e+01	3.396636e+00	-9.308023e-01	-4.099339e+00
## 1501	6.801761e+00	5.864440e-01	9.680282e-01	-2.659262e+00	-1.633191e+00
## 1503	-2.280548e-03	7.333426e-03	6.589483e-04	8.112027e-07	-7.892610e-04
## 1504	-5.359506e-01	9.408740e-01	3.825066e-01	-1.596794e-01	-7.708882e-02
## 1505	-1.187568e-04	3.718532e-04	3.415321e-05	2.677643e-06	-4.146663e-05
## 1507	-1.262136e-02	3.925611e-03	1.431243e-02	-7.485957e-03	7.100737e-04
## 1508	4.767071e-02	7.928770e-01	1.068005e-01	-1.157419e-01	-1.458620e-01
## 1509	-7.283589e+00	2.460995e+00	8.202486e+00	-4.279961e+00	3.826567e-01
## 1510	-2.265960e-01	6.628020e-01	8.011599e-02	-8.134085e-03	-7.044547e-02
## 1511	1.342674e+00	1.512020e+00	-2.822483e-02	-1.196876e+00	1.803596e-01
## 1513	2.078896e+00	5.560466e+00	1.012968e+00	-1.431408e+00	-1.481148e+00
## 1517	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 1518	8.642538e-01	-1.121942e-01	1.028825e-01	-3.126870e-01	-1.803623e-01
## 1519	4.028072e-01	1.084505e+00	3.047039e-02	-4.885364e-01	2.332611e-02
## 1520	-1.193284e+01	3.712932e+01	3.809741e+00	-2.502627e-01	-3.957376e+00
## 1521	1.388226e+00	1.468565e-01	2.106498e-01	-5.421992e-01	-3.487255e-01
## 1522	1.654104e+01	1.805660e+01	-3.829182e-01	-1.462775e+01	2.249745e+00
## 1523	-1.838227e-04	5.114318e-04	4.839041e-05	1.666048e-05	-6.009241e-05
## 1525	-1.788199e+00	4.760575e-01	2.051100e+00	-1.076983e+00	1.117017e-01
## 1526	5.578624e-03	3.423689e-03	-2.936583e-04	-4.386191e-03	8.887724e-04
## 1527	-1.366879e-03	3.360310e-03	3.348247e-04	2.176434e-04	-4.295752e-04
## 1528	-4.911592e-04	1.579284e-03	1.419088e-04	1.949850e-07	-1.699742e-04
## 1529	-5.614659e-01	1.806585e+00	1.623925e-01	8.791631e-05	-1.945409e-01
## 1531	3.336244e+00	6.863238e+00	1.215705e-01	-3.611422e+00	2.966113e-01
## 1532	-1.487614e-03	4.783663e-03	4.298316e-04	5.159784e-07	-5.148298e-04
## 1535	-1.617181e-03	5.200055e-03	4.672800e-04	6.460958e-07	-5.597079e-04
## 1536	5.247690e-02	8.969235e-02	7.865759e-04	-5.305583e-02	5.553817e-03
## 1537	6.465979e-01	4.539680e-01	-3.051109e-02	-5.201146e-01	1.002280e-01
## 1538	-2.041987e-03	6.566469e-03	5.900143e-04	6.737126e-07	-7.066809e-04
## 1539	1.025709e+00	2.254389e-01	1.690627e-01	-4.127592e-01	-2.784833e-01

## 1540	6.430615e-02	4.429234e-02	-3.087111e-03	-5.155110e-02	1.000947e-02
## 1542	4.885750e+00	-6.381676e-01	5.747782e-01	-1.762389e+00	-1.018312e+00
## 1543	-8.041671e-04	1.688557e-03	1.790649e-04	1.870745e-04	-2.384317e-04
## 1544	-5.979332e+00	1.942891e+01	1.740075e+00	-3.928908e-02	-2.079092e+00
## 1548	4.581248e+00	4.581089e-01	6.324255e-01	-1.833683e+00	-1.059230e+00
## 1551	2.784238e+00	1.070667e+01	1.786486e+00	-2.297521e+00	-2.570016e+00
## 1553	6.496908e+00	3.580410e-01	8.724134e-01	-2.548750e+00	-1.475842e+00
## 1556	-9.628848e-01	-2.794145e-01	6.990995e-02	6.931346e-01	-1.685985e-01
## 1558	-3.003980e-04	-1.838883e-04	1.586309e-05	2.361178e-04	-4.792108e-05
## 1559	-2.730853e+00	1.115521e+00	3.019317e+00	-1.565342e+00	1.167727e-01
## 1560	-1.772751e-01	1.697901e-02	-2.166955e-02	6.466715e-02	3.805977e-02
## 1561	-3.465539e-01	7.785350e-01	1.978084e-01	-6.845786e-02	-7.342205e-02
## 1562	-1.077082e-02	5.810775e-01	3.686874e-02	-1.120957e-01	-3.044718e-02
## 1563	-8.075456e-04	2.148913e-04	9.262985e-04	-4.863818e-04	5.045731e-05
## 1565	-2.832082e-04	9.078652e-04	8.185948e-05	9.380720e-07	-9.825537e-05
## 1566	-2.196523e-04	7.002840e-04	6.389796e-05	2.331398e-06	-7.722537e-05
## 1568	7.025881e+00	1.115693e+01	5.256497e-02	-6.928879e+00	7.854765e-01
## 1569	9.156894e-04	-1.016847e-04	1.043044e-04	-3.396926e-04	-1.832707e-04
## 1570	9.041535e+00	-5.320718e-02	1.212368e+00	-3.393205e+00	-2.087229e+00
## 1571	7.411235e+00	9.378465e+00	-9.206959e-02	-6.818347e+00	9.451625e-01
## 1572	1.921799e-01	-6.179629e-01	-5.552640e-02	-7.039896e-05	6.650671e-02
## 1573	2.455917e+01	1.507243e+01	-1.292812e+00	-1.930968e+01	3.912746e+00
## 1574	2.792077e+01	2.305857e+01	-1.104270e+00	-2.316833e+01	4.159438e+00
## 1575	2.502801e+00	8.848553e-01	4.504860e-01	-1.048959e+00	-7.326296e-01
## 1577	-8.832878e-02	6.322446e-02	1.189603e-02	4.534757e-02	-1.979945e-02
## 1578	-1.057807e+00	-2.326292e-01	8.138837e-02	7.462096e-01	-1.888440e-01
## 1579	6.134287e+00	3.946398e-01	8.336104e-01	-2.410033e+00	-1.408185e+00
## 1580	-1.863942e-02	8.197191e-02	7.308457e-03	-3.805105e-03	-8.577623e-03
## 1581	2.437946e-01	-3.191999e-02	2.867041e-02	-8.793242e-02	-5.079916e-02
## 1582	-8.337675e-02	-5.562313e-02	5.422361e-03	6.811938e-02	-1.551091e-02
## 1584	-1.788020e-01	5.750005e-01	5.166606e-02	5.618027e-05	-6.188265e-02
## 1585	-6.004047e+00	1.958490e+01	1.751937e+00	-5.498337e-02	-2.091376e+00
## 1586	2.838746e+00	2.490131e+00	6.453808e-01	-1.440965e+00	-9.832593e-01
## 1587	-3.800227e-04	1.209431e-03	1.107863e-04	4.936041e-06	-1.341913e-04

##	1588	-1.658027e+00	1.265800e+00	1.661819e+00	-8.299962e-01	-1.065379e-02
##	1590	-4.480084e-04	9.984485e-05	4.716187e-05	2.758965e-04	-9.049761e-05
##	1591	-6.685635e-01	1.928508e+00	1.797711e-01	4.566245e-02	-2.207739e-01
##	1592	-2.036310e-03	6.548214e-03	5.883738e-04	6.715955e-07	-7.047160e-04
##	1593	-2.936050e-04	9.438960e-04	8.482173e-05	1.534343e-07	-1.016025e-04
##	1595	-1.371495e-04	4.392386e-04	3.954781e-05	4.524844e-07	-4.743346e-05
##	1596	-1.045185e+00	-6.414324e-01	5.502034e-02	8.217746e-01	-1.665188e-01
##	1597	7.113351e+00	1.477100e+00	1.114013e+00	-2.897378e+00	-1.840464e+00
##	1598	6.275388e+00	1.101218e+00	9.914222e-01	-2.488038e+00	-1.653216e+00
##	1599	9.378784e+00	-2.683834e-02	1.261343e+00	-3.523107e+00	-2.170170e+00
##	1600	-2.140008e-02	6.240372e-03	2.438830e-02	-1.277770e-02	1.261538e-03
##	1601	6.176964e+00	6.331505e+00	-1.683867e-01	-5.378050e+00	8.602025e-01
##	1602	6.569785e-01	4.198171e-01	-3.355826e-02	-5.199604e-01	1.038585e-01
##	1604	5.523566e-02	-7.210046e-03	6.498642e-03	-1.992509e-02	-1.151333e-02
##	1605	-8.092557e-02	2.600115e-01	2.337000e-02	7.116230e-05	-2.799511e-02
##	1606	-9.801319e-04	3.151088e-03	2.832412e-04	5.861731e-07	-3.393250e-04
##	1607	3.026944e+00	2.001623e+00	6.720528e-01	-1.371806e+00	-1.061825e+00
##	1608	-1.777275e+00	2.898215e+00	3.396997e-01	5.787242e-01	-4.776873e-01
##	1609	-1.698954e-02	1.678848e-03	1.641332e-03	1.087359e-02	-3.297126e-03
##	1610	-2.979107e-05	7.959665e-06	3.416266e-05	-1.793651e-05	1.856961e-06
##	1611	-1.939036e-01	4.727761e-01	4.742505e-02	3.019057e-02	-5.957380e-02
##	1612	4.830405e-02	5.813061e-02	-7.849131e-04	-4.382510e-02	6.306356e-03
##	1614	-2.925690e-03	9.409843e-03	8.456508e-04	8.808714e-07	-1.012958e-03
##	1616	-7.758546e-01	-4.563887e-01	4.206133e-02	6.059598e-01	-1.245725e-01
##	1617	-3.988942e-04	1.282399e-03	1.152428e-04	2.087612e-07	-1.380433e-04
##	1618	4.226721e+01	2.698433e+01	-2.160546e+00	-3.344695e+01	6.683055e+00
##	1619	-7.090794e-01	2.013322e+00	1.891720e-01	5.450452e-02	-2.325179e-01
##	1621	6.829466e+00	5.980454e-01	9.998327e-01	-2.637552e+00	-1.691296e+00
##	1622	6.351014e+00	9.320397e-01	9.793300e-01	-2.496713e+00	-1.640347e+00
##	1623	-1.585010e-02	5.096949e-02	4.579726e-03	5.221114e-06	-5.485290e-03
##	1625	5.741802e+00	-7.517740e-01	6.752396e-01	-2.070966e+00	-1.196412e+00
##	1627	1.983893e-01	-6.379535e-01	-5.732194e-02	-6.773116e-05	6.865670e-02
##	1629	-4.790954e-01	1.462800e+00	1.336438e-01	1.615409e-02	-1.620379e-01
##	1630	2.762125e+00	5.661483e-01	4.150645e-01	-1.145046e+00	-6.824297e-01

## 1631	-2.500911e-01	8.280834e-02	2.821353e-01	-1.473040e-01	1.337358e-02
## 1632	-8.262041e-05	2.590320e-04	2.349771e-05	1.437683e-06	-2.833527e-05
## 1634	5.694511e+00	2.977041e-01	7.706163e-01	-2.221900e+00	-1.305760e+00
## 1635	-4.625802e-04	1.487398e-03	1.336517e-04	1.816527e-07	-1.600836e-04
## 1636	2.156251e-01	8.751056e-02	4.136242e-02	-9.186299e-02	-6.580595e-02
## 1637	2.189065e+01	2.791747e+01	-2.586344e-01	-2.018384e+01	2.781246e+00
## 1639	-5.756744e+00	1.924535e+01	1.708604e+00	-1.485881e-01	-2.028021e+00
## 1640	4.296371e-04	-3.508400e-05	4.686099e-05	-1.655781e-04	-8.126610e-05
## 1641	6.793973e+00	6.280177e+00	-2.273996e-01	-5.774925e+00	9.794733e-01
## 1643	-1.905386e-03	6.127178e-03	5.505441e-04	6.334867e-07	-6.594071e-04
## 1644	3.874998e+01	3.253693e+01	-1.499552e+00	-3.226407e+01	5.746602e+00
## 1645	-1.661480e-01	5.600244e-01	5.139910e-02	-2.952122e-03	-6.212548e-02
## 1646	5.031111e+00	5.158549e-01	5.902422e-01	-2.148922e+00	-9.675116e-01
## 1650	-1.379483e+00	1.361508e+00	1.293069e+00	-6.277231e-01	-5.153834e-02
## 1651	1.902961e+00	-2.492500e-01	2.237442e-01	-6.863945e-01	-3.964393e-01
## 1652	-1.250163e-03	4.020639e-03	3.614468e-04	5.647100e-07	-4.330369e-04
## 1654	-7.227933e+00	2.482176e+00	8.128184e+00	-4.239097e+00	3.741967e-01
## 1656	8.421031e+00	2.739551e+01	2.698032e+01	-4.143914e+01	6.887792e+00
## 1657	-3.324207e-03	4.235884e-03	5.623592e-04	1.325757e-03	-8.358709e-04
## 1658	-8.836852e-04	2.841636e-03	2.553315e-04	3.044668e-07	-3.058220e-04
## 1659	-2.390026e-01	-1.012834e-01	1.538253e-02	1.785992e-01	-4.029160e-02
## 1661	-9.934568e-04	3.194275e-03	2.870285e-04	4.158259e-07	-3.437966e-04
## 1662	-6.062963e+00	1.997516e+00	6.842718e+00	-3.573132e+00	3.256014e-01
## 1663	3.320007e-02	2.202021e-02	-1.390539e-03	-2.611884e-02	4.731647e-03
## 1665	-1.195096e-03	3.850511e-03	3.468555e-04	2.433129e-07	-4.159833e-04
## 1668	-2.917515e-06	8.027058e-07	3.338938e-06	-1.751868e-06	1.786389e-07
## 1669	1.189356e-03	1.158400e-03	-3.597021e-05	-1.022817e-03	1.682194e-04
## 1670	7.009727e-03	-7.234068e-04	2.276640e-03	-3.634794e-03	-1.634672e-03
## 1671	-8.372322e-04	2.692151e-03	2.419055e-04	3.141216e-07	-2.897456e-04
## 1673	-2.517344e+00	8.149813e+00	7.307390e-01	-1.040415e-02	-8.738545e-01
## 1674	-2.607421e+00	6.939791e-01	2.990814e+00	-1.570413e+00	1.628992e-01
## 1675	6.627679e+00	2.008225e+00	1.143222e+00	-2.745648e+00	-1.869471e+00
## 1677	-9.759131e-02	3.506913e-02	1.092945e-01	-5.691894e-02	4.837123e-03
## 1679	6.986134e-02	4.608145e-02	-3.479574e-03	-5.558643e-02	1.097364e-02

##	1680	-6.295228e-02	-1.616219e-02	4.700559e-03	4.488419e-02	-1.112546e-02
##	1683	7.027523e-05	-8.095660e-06	8.518242e-06	-2.533973e-05	-1.504393e-05
##	1685	2.964888e+00	3.178499e+00	-7.222011e-02	-2.610032e+00	4.060894e-01
##	1687	-1.926743e-01	-1.181818e-01	1.014659e-02	1.514769e-01	-3.069994e-02
##	1689	1.458313e+01	1.203681e+01	-5.771782e-01	-1.209952e+01	2.172814e+00
##	1690	-2.322862e-03	7.469123e-03	6.711647e-04	9.183193e-07	-8.039112e-04
##	1691	1.156610e+00	3.360572e+00	5.988757e-01	-8.274082e-01	-8.722559e-01
##	1692	2.359159e+00	2.274545e+00	6.179204e-01	-1.152673e+00	-9.559327e-01
##	1693	-2.011987e-02	5.876742e-03	2.292650e-02	-1.201133e-02	1.184727e-03
##	1694	-1.130371e-01	3.633366e-01	3.267023e-02	4.794441e-05	-3.910668e-02
##	1695	3.192301e+00	6.260204e+00	9.738085e-02	-3.392625e+00	2.987925e-01
##	1696	-7.322001e-06	1.976633e-06	8.390591e-06	-4.404301e-06	4.535804e-07
##	1697	3.893576e-04	-2.495520e-05	4.085469e-05	-1.540258e-04	-7.017786e-05
##	1698	-1.418835e-05	4.438924e-05	4.025522e-06	2.612833e-07	-4.854093e-06
##	1699	-6.931752e-04	-3.904437e-04	3.874509e-05	5.379564e-04	-1.123246e-04
##	1701	2.842372e-01	3.149597e-01	-6.291374e-03	-2.523203e-01	3.843114e-02
##	1704	-1.510735e-03	4.857966e-03	4.365060e-04	5.295833e-07	-5.228230e-04
##	1705	-3.256335e-01	1.383276e-01	3.659387e-01	-1.913959e-01	1.260554e-02
##	1706	-3.417502e-03	1.099114e-02	9.877360e-04	1.084341e-06	-1.183141e-03
##	1707	-5.501018e+00	1.769454e+01	1.589763e+00	8.327017e-04	-1.903994e+00
##	1708	-9.878874e-01	1.037580e+00	9.076913e-01	-4.366171e-01	-4.560449e-02
##	1710	-1.598194e-03	5.139285e-03	4.617814e-04	5.431315e-07	-5.530947e-04
##	1711	2.860957e-01	2.973935e-01	-7.543563e-03	-2.499424e-01	3.963960e-02
##	1713	-2.171690e-01	1.410724e+00	1.151396e-01	-1.558858e-01	-1.077838e-01
##	1716	-8.281436e-01	-5.081897e-01	4.359762e-02	6.511173e-01	-1.319420e-01
##	1717	-6.213515e+00	2.458564e+00	1.427849e+01	-9.188416e+00	-4.435103e-01
##	1718	1.152813e+01	1.185369e+00	1.667225e+00	-4.527824e+00	-2.804909e+00
##	1719	6.185771e+00	3.765853e-02	7.073156e-01	-2.496427e+00	-1.194894e+00
##	1720	1.374504e+01	1.693659e+01	-1.989691e-01	-1.255171e+01	1.775240e+00
##	1722	6.250394e+00	5.376585e-01	9.137700e-01	-2.412797e+00	-1.546130e+00
##	1723	-8.919015e-04	2.867989e-03	2.578881e-04	5.568836e-07	-3.090112e-04
##	1724	8.113380e-01	2.651708e+00	4.556457e-01	-6.188849e-01	-6.587105e-01
##	1725	-3.217835e-03	1.034833e-02	9.298931e-04	1.037806e-06	-1.113808e-03
##	1726	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03

##	1727	-5.173445e-02	1.216372e+00	1.478131e-01	-1.295973e-01	-1.963214e-01
##	1728	-3.564837e+00	1.150184e+01	1.032389e+00	-6.688146e-03	-1.235563e+00
##	1729	2.532728e-04	3.877742e-04	3.218610e-06	-2.442526e-04	2.508179e-05
##	1730	-1.821762e+00	4.849827e-01	2.089600e+00	-1.097199e+00	1.137996e-01
##	1732	-3.331345e-03	1.072340e-02	9.640201e-04	-9.499297e-08	-1.154906e-03
##	1733	-3.354807e-06	7.014580e-06	7.364876e-07	7.755559e-07	-9.769801e-07
##	1735	1.182415e-02	8.680303e-02	4.288674e-03	-2.561886e-02	-2.000398e-03
##	1737	-1.795810e-03	5.774759e-03	5.188827e-04	6.122489e-07	-6.214885e-04
##	1738	-4.380443e-02	1.408622e-01	1.265681e-02	1.455625e-05	-1.515950e-02
##	1739	-7.154656e-03	5.446818e-03	9.838431e-04	3.606551e-03	-1.619956e-03
##	1740	-8.855991e-01	-5.434926e-01	4.661957e-02	6.963003e-01	-1.410937e-01
##	1741	-4.127865e-03	1.357503e-02	1.233510e-03	-3.235794e-05	-1.484769e-03
##	1743	5.574057e+00	-7.292380e-01	6.556409e-01	-2.010571e+00	-1.161567e+00
##	1745	-7.123596e-04	1.002801e-03	5.805251e-04	-2.629022e-04	-6.813293e-05
##	1746	-9.326489e-01	2.952425e+00	2.698544e-01	6.112005e-03	-3.196580e-01
##	1748	-2.863195e-04	-1.757200e-04	1.507214e-05	2.251193e-04	-4.561635e-05
##	1749	1.042843e+01	1.625002e+00	1.620104e+00	-4.111163e+00	-2.709712e+00
##	1750	-1.711861e-03	5.504815e-03	4.946245e-04	5.781471e-07	-5.924313e-04
##	1751	8.678331e-01	3.893468e+00	6.299130e-01	-7.813999e-01	-9.006021e-01
##	1752	-2.913517e-10	1.183702e-09	1.172665e-10	-2.915800e-11	-1.452411e-10
##	1753	1.149412e-02	8.077135e-03	9.101417e-02	-7.241969e-02	-1.273790e-02
##	1754	-1.635087e+00	1.781387e+01	1.249997e+00	-2.578755e+00	-1.178178e+00
##	1755	-1.026842e+00	3.302646e+00	2.967334e-01	2.138779e-04	-3.553924e-01
##	1756	-1.231584e-04	3.959834e-04	3.558459e-05	5.646722e-08	-4.262429e-05
##	1758	-3.205666e-01	7.779787e-01	1.661239e-01	-5.147807e-02	-7.593205e-02
##	1759	-3.126029e-03	3.677329e-03	5.099827e-04	1.309568e-03	-7.711767e-04
##	1760	-4.397328e+00	1.962042e+00	4.813308e+00	-2.486374e+00	1.649954e-01
##	1761	-1.464111e-02	1.346837e+00	1.755289e-01	-1.518205e-01	-2.386871e-01
##	1762	-1.076248e+01	4.551516e+00	2.740734e+01	-1.795269e+01	-1.078017e+00
##	1763	-8.827010e+00	3.555048e+01	3.005119e+00	-1.458938e+00	-3.421387e+00
##	1764	1.476812e-01	-1.930234e-02	1.737173e-02	-5.327002e-02	-3.077799e-02
##	1765	-4.786820e-03	1.567098e-02	1.418074e-03	-3.297332e-05	-1.703447e-03
##	1767	-2.837846e-01	9.125706e-01	8.199661e-02	9.385213e-05	-9.821010e-02
##	1770	3.046671e-01	1.145274e+00	1.920226e-01	-2.483339e-01	-2.764992e-01

## 1771	6.783421e+00	-8.052719e-02	8.113873e-01	-2.658058e+00	-1.385223e+00
## 1772	-4.188068e-06	1.141477e-06	4.796145e-06	-2.516987e-06	2.579322e-07
## 1774	3.253461e-01	-4.003605e-02	5.964657e-02	-1.336354e-01	-7.030498e-02
## 1775	1.064424e-01	7.502738e-01	3.668185e-02	-2.242386e-01	-1.648196e-02
## 1777	2.567135e+00	-1.149166e-01	3.475571e-01	-9.642992e-01	-5.762788e-01
## 1778	1.342674e+00	1.512020e+00	-2.822483e-02	-1.196876e+00	1.803596e-01
## 1779	1.316731e+01	2.188338e+01	1.586143e-01	-1.318542e+01	1.424574e+00
## 1780	-8.830680e-03	6.789727e-03	1.218238e-03	4.437405e-03	-2.002318e-03
## 1781	2.758775e-01	2.272190e-01	-1.094269e-02	-2.287854e-01	4.111649e-02
## 1783	-2.474283e-03	7.956646e-03	7.149339e-04	8.222682e-07	-8.563073e-04
## 1784	-9.490478e-04	3.051528e-03	2.742557e-04	4.582320e-07	-3.285336e-04
## 1785	2.208245e-04	1.368737e-03	2.202617e-04	-2.301754e-04	-3.160887e-04
## 1786	-6.711815e+00	2.457493e+00	7.503347e+00	-3.905171e+00	3.263323e-01
## 1787	1.071389e-01	-1.300167e-02	2.215843e-02	-4.592181e-02	-2.342779e-02
## 1788	-1.375589e-03	4.406545e-03	4.024005e-04	-3.014731e-06	-4.737044e-04
## 1789	-2.107403e-03	6.776769e-03	6.089173e-04	7.147119e-07	-7.293270e-04
## 1791	4.107114e-01	1.934636e-02	5.793683e-02	-1.566775e-01	-9.872243e-02
## 1793	-9.159566e-01	-5.620687e-01	4.822101e-02	7.201576e-01	-1.459329e-01
## 1796	-1.017345e+00	-3.842245e-01	6.837180e-02	7.506049e-01	-1.737937e-01
## 1797	-1.409661e-03	4.532972e-03	4.073084e-04	4.956463e-07	-4.878545e-04
## 1799	2.151689e-04	1.318333e-05	1.697461e-05	-9.982274e-05	-2.651709e-05
## 1800	-2.705272e-01	8.699367e-01	7.816590e-02	8.981680e-05	-9.362198e-02
## 1801	7.277144e-01	4.855098e-01	1.476552e-01	-3.485693e-01	-2.289874e-01
## 1802	8.312437e-01	-1.618978e-02	1.099643e-01	-3.106373e-01	-1.898565e-01
## 1803	-1.197521e+00	2.223162e+00	8.195556e-01	-3.321591e-01	-1.889710e-01
## 1804	3.259027e+00	5.470805e+00	4.262301e-02	-3.274684e+00	3.499322e-01
## 1805	-9.862405e-05	2.331756e-05	1.577777e-05	6.716387e-05	-2.991597e-05
## 1806	-3.030459e-03	9.745112e-03	8.756209e-04	9.981132e-07	-1.048760e-03
## 1807	-1.319255e+00	5.368993e+00	4.554654e-01	-2.247819e-01	-5.203969e-01
## 1809	-2.407817e-03	7.742850e-03	6.957288e-04	8.164738e-07	-8.333083e-04
## 1810	-9.409745e-04	3.025710e-03	2.718751e-04	3.543501e-07	-3.256405e-04
## 1813	-9.351047e-02	2.960022e-01	2.673443e-02	9.891752e-04	-3.213075e-02
## 1814	-1.787194e-03	5.746928e-03	5.163860e-04	6.354437e-07	-6.185015e-04
## 1815	7.674795e-01	3.726132e+00	5.912655e-01	-7.279838e-01	-8.415333e-01

##	1818	7.135977e-03	6.299691e-03	-2.568225e-04	-6.004340e-03	1.042633e-03
##	1819	5.869534e-03	4.012432e-05	7.608977e-03	-7.386487e-03	-2.032679e-03
##	1820	1.024955e-03	7.893148e-04	-4.399649e-05	-8.386818e-04	1.553521e-04
##	1821	-1.344305e-01	-1.134795e-02	1.146718e-02	9.109303e-02	-2.488742e-02
##	1823	4.801045e+00	3.785093e+00	-2.009826e-01	-3.946934e+00	7.239996e-01
##	1824	5.908162e-03	5.727482e-03	-1.809410e-04	-5.076107e-03	8.380638e-04
##	1825	-1.894669e-04	2.645068e-04	3.347045e-05	7.081928e-05	-4.875586e-05
##	1826	-6.776118e-01	-4.158611e-01	3.567009e-02	5.327728e-01	-1.079566e-01
##	1828	-9.114573e-04	9.561586e-04	8.378903e-04	-4.031767e-04	-4.189461e-05
##	1829	-2.847985e+00	9.163696e+00	8.232287e-01	-1.630737e-04	-9.858739e-01
##	1830	-1.783138e-01	3.360252e+00	4.188047e-01	-3.254790e-01	-5.626152e-01
##	1832	-7.390065e-04	2.981530e-04	8.608456e-05	4.277809e-04	-1.558890e-04
##	1834	-5.073066e+00	1.643639e+01	1.473392e+00	-2.353510e-02	-1.761643e+00
##	1835	4.755732e-02	-6.213216e-03	5.594545e-03	-1.715466e-02	-9.911873e-03
##	1838	2.426134e+00	4.719187e+00	7.162976e-02	-2.570471e+00	2.289625e-01
##	1839	2.736011e+00	1.085919e+00	4.985844e-01	-1.172554e+00	-8.044437e-01
##	1840	-1.625451e-03	5.226934e-03	4.696572e-04	5.526663e-07	-5.625280e-04
##	1841	8.686574e+00	9.308849e+00	2.377960e+00	-4.378953e+00	-3.649654e+00
##	1842	-6.309356e-01	2.028855e+00	1.822989e-01	2.198832e-04	-2.183469e-01
##	1843	8.441870e-01	2.988385e-01	1.536411e-01	-3.526178e-01	-2.495205e-01
##	1844	-1.530545e-01	4.889431e-01	4.402378e-02	7.148577e-04	-5.281013e-02
##	1846	7.536447e-02	3.589574e+00	4.832431e-01	-4.476364e-01	-6.626725e-01
##	1847	1.666641e+01	1.022918e+01	-8.772885e-01	-1.310413e+01	2.655244e+00
##	1848	-2.736457e-03	8.804928e-03	7.915523e-04	5.278380e-07	-9.483104e-04
##	1850	-4.708312e-02	1.302649e-02	5.386217e-02	-2.825636e-02	2.872956e-03
##	1852	-6.782512e-04	-3.970799e-04	3.693161e-05	5.293970e-04	-1.090772e-04
##	1853	6.808701e+00	1.035799e+00	1.014357e+00	-2.731807e+00	-1.689727e+00
##	1856	1.096231e-01	-9.633564e-03	1.351383e-02	-4.009023e-02	-2.369049e-02
##	1858	6.040199e+00	3.366211e+00	1.244236e+00	-2.681799e+00	-1.979687e+00
##	1859	-2.262025e+00	6.546303e-01	2.579448e+00	-1.351729e+00	1.340265e-01
##	1861	-1.008524e+00	3.246842e+00	2.916320e-01	-4.286518e-04	-3.492042e-01
##	1862	-5.640220e-05	1.889141e-05	1.077539e-05	3.904812e-05	-2.001337e-05
##	1863	-3.556367e-01	-8.979929e-02	2.664782e-02	2.532555e-01	-6.292456e-02
##	1864	-1.000825e-03	3.218272e-03	2.891748e-04	3.542293e-07	-3.463588e-04

##	1865	1.192431e-06	-3.828361e-06	-3.445771e-07	-2.183631e-09	4.131459e-07
##	1867	2.284506e-02	1.498405e-02	-1.143017e-03	-1.815960e-02	3.592471e-03
##	1868	5.826954e+00	2.902683e+00	1.168081e+00	-2.530205e+00	-1.872507e+00
##	1869	-6.930984e-03	3.223395e-03	8.265852e-04	3.915411e-03	-1.469540e-03
##	1870	1.316731e+01	2.188338e+01	1.586143e-01	-1.318542e+01	1.424574e+00
##	1872	-9.804357e-04	3.152556e-03	2.832831e-04	3.891853e-07	-3.393116e-04
##	1873	-1.347794e+00	3.589041e-01	1.545920e+00	-8.117204e-01	8.417861e-02
##	1875	1.224880e-01	-1.602817e-02	1.440438e-02	-4.418221e-02	-2.552150e-02
##	1876	-2.141874e-03	6.887685e-03	6.188759e-04	7.052955e-07	-7.412493e-04
##	1877	-5.960022e-03	-3.417688e-03	3.285548e-04	4.636802e-03	-9.612544e-04
##	1878	-2.035529e+00	6.550361e+00	5.887452e-01	1.059902e-04	-7.052514e-01
##	1879	-1.600211e-03	5.145691e-03	4.623608e-04	5.619140e-07	-5.537916e-04
##	1880	2.226556e+01	1.070330e+01	-3.691190e-01	-1.565499e+01	1.849749e+00
##	1881	-4.215854e-03	1.355722e-02	1.218165e-03	1.376417e-06	-1.459047e-03
##	1885	-6.140858e-01	1.974727e+00	1.774339e-01	2.026729e-04	-2.125186e-01
##	1887	-1.087862e+00	3.495018e+00	3.141280e-01	1.022619e-03	-3.763212e-01
##	1890	7.030420e-03	9.376424e-03	-5.700967e-05	-6.565572e-03	8.718515e-04
##	1891	-1.628038e-03	5.235266e-03	4.704042e-04	5.491672e-07	-5.634214e-04
##	1892	-2.329513e-03	7.491088e-03	6.730935e-04	7.659437e-07	-8.061877e-04
##	1894	-4.048582e-01	-2.484691e-01	2.131202e-02	3.183203e-01	-6.450167e-02
##	1895	8.611465e+00	1.117391e+01	-8.992253e-02	-7.979348e+00	1.084761e+00
##	1896	-3.443607e-03	1.122916e-02	1.016769e-03	-1.540838e-05	-1.222082e-03
##	1897	3.737605e-02	-4.871732e-03	4.398335e-03	-1.348344e-02	-7.791934e-03
##	1899	-1.672935e-04	4.455254e-05	1.918845e-04	-1.007531e-04	1.044803e-05
##	1900	-2.410668e+00	9.354385e+00	8.087813e-01	-3.111925e-01	-9.373925e-01
##	1901	-5.680111e-09	5.630664e-09	5.427214e-09	-2.663241e-09	-2.263891e-10
##	1902	-6.270819e-01	-2.176557e-02	5.541462e-02	4.185272e-01	-1.176131e-01
##	1903	3.591315e-01	1.254558e+00	2.137184e-01	-2.816394e-01	-3.086779e-01
##	1905	-6.033601e-04	-3.537930e-04	3.281418e-05	4.710501e-04	-9.699636e-05
##	1906	-7.493802e-04	7.164299e-04	1.136919e-04	3.498697e-04	-1.798545e-04
##	1907	-3.131735e-02	-1.817533e-02	1.713033e-03	2.440890e-02	-5.040404e-03
##	1908	6.665242e+00	2.555294e+00	1.221845e+00	-2.821836e+00	-1.979237e+00
##	1909	-2.336033e-04	-1.415834e-04	1.248939e-05	1.834088e-04	-3.745825e-05
##	1910	-2.125794e-03	6.835960e-03	6.142314e-04	7.064418e-07	-7.356886e-04

## 1911	5.435981e-04	-5.063964e-05	6.023564e-05	-2.065365e-04	-1.050033e-04
## 1913	1.253334e-01	1.417740e-01	-2.595540e-03	-1.118535e-01	1.680484e-02
## 1915	-1.228810e-03	3.951427e-03	3.550498e-04	4.250005e-07	-4.252588e-04
## 1916	1.248971e+00	6.447588e+00	1.008747e+00	-1.234628e+00	-1.430916e+00
## 1917	5.841373e+00	9.968726e-01	9.191422e-01	-2.312643e+00	-1.533836e+00
## 1918	2.484721e+00	6.002078e+00	1.125458e+00	-1.636127e+00	-1.653815e+00
## 1919	-8.556622e-01	1.030437e+00	7.479058e-01	-3.512980e-01	-5.773979e-02
## 1920	3.431705e+01	3.949198e+01	-6.690963e-01	-3.076435e+01	4.568379e+00
## 1921	-2.088509e-04	6.020597e-04	5.605392e-05	1.434192e-05	-6.888600e-05
## 1923	-3.699637e-01	2.195971e+00	1.738501e-01	-2.119627e-01	-1.759399e-01
## 1924	2.257240e-01	5.077124e+00	6.991919e-01	-6.784049e-01	-9.642122e-01
## 1925	-5.464143e-05	1.751089e-04	1.575327e-05	1.446962e-07	-1.888496e-05
## 1927	-1.926683e-01	5.833835e-01	6.099393e-02	-1.287114e-03	-6.298942e-02
## 1929	-6.971501e-03	6.476528e-03	1.030852e-03	3.274345e-03	-1.635599e-03
## 1930	-4.855077e-01	8.526011e-01	3.463898e-01	-1.445532e-01	-6.988128e-02
## 1932	6.183404e+00	3.096010e+00	1.227876e+00	-2.704156e+00	-1.964215e+00
## 1933	-2.672086e-03	8.592785e-03	7.720953e-04	8.806327e-07	-9.247728e-04
## 1934	-1.501642e-01	4.805096e-01	4.400811e-02	-3.521658e-04	-5.165735e-02
## 1935	-1.021089e+00	-4.409679e-01	6.520922e-02	7.647223e-01	-1.717349e-01
## 1937	1.521652e-01	-4.893137e-01	-4.396680e-02	-5.238913e-05	5.266111e-02
## 1938	7.528064e+01	-2.417242e+02	-2.185486e+01	4.740869e-02	2.600327e+01
## 1939	3.637473e+00	4.053371e+00	9.713198e-01	-1.908477e+00	-1.472267e+00
## 1940	-9.188851e-04	2.954655e-03	2.655012e-04	3.642525e-07	-3.180135e-04
## 1943	6.800068e+00	4.577853e-01	9.305573e-01	-2.669190e+00	-1.571764e+00
## 1944	-3.844401e-03	1.236302e-02	1.110868e-03	1.210426e-06	-1.330535e-03
## 1945	-1.402928e-02	5.706020e-02	4.926993e-03	-2.275186e-03	-5.692326e-03
## 1949	9.609110e+00	9.746275e+00	2.572710e+00	-4.760890e+00	-3.965932e+00
## 1951	-1.056490e-03	3.397302e-03	3.052596e-04	3.658961e-07	-3.656228e-04
## 1952	-1.216830e-01	-7.046344e-02	6.709529e-03	9.475741e-02	-1.958099e-02
## 1954	1.497837e-02	2.634259e-02	2.699575e-04	-1.529629e-02	1.549655e-03
## 1955	4.082850e+00	2.475361e+00	8.768512e-01	-1.824180e+00	-1.391782e+00
## 1956	2.729229e+00	1.945845e+00	6.244924e-01	-1.253433e+00	-9.826457e-01
## 1957	-1.237347e-03	1.177870e-02	1.392164e-03	-9.022370e-04	-1.842663e-03
## 1958	4.638669e+00	2.847012e+00	-2.441721e-01	-3.647196e+00	7.390204e-01

##	1959	6.084011e-01	4.711906e-01	-2.599090e-02	-4.984277e-01	9.215895e-02
##	1960	6.710586e+00	7.400221e-01	9.546032e-01	-2.669883e+00	-1.599717e+00
##	1962	-3.819634e-04	-2.344190e-04	2.010703e-05	3.003198e-04	-6.085453e-05
##	1963	5.753502e+00	1.117042e+00	9.110807e-01	-2.308844e+00	-1.512542e+00
##	1965	-1.341583e-03	4.314095e-03	3.876354e-04	4.577540e-07	-4.642870e-04
##	1966	-4.651024e+00	1.503595e+01	1.348777e+00	-1.479429e-02	-1.613475e+00
##	1968	-2.994675e-04	5.354657e-04	7.173921e-05	1.024683e-04	-1.044512e-04
##	1970	-1.910349e-03	-1.172432e-03	1.005656e-04	1.502023e-03	-3.043627e-04
##	1971	-1.711861e-03	5.504815e-03	4.946245e-04	5.781471e-07	-5.924313e-04
##	1972	-1.963623e+00	8.286305e+00	6.890525e-01	-4.040254e-01	-7.757364e-01
##	1973	-2.539017e-01	2.156069e+00	2.499109e-01	-1.563951e-01	-3.286489e-01
##	1975	2.627901e+00	5.184277e+01	2.962146e+00	-1.237373e+01	-2.032782e+00
##	1978	1.363408e+00	2.912756e+00	5.627430e-01	-8.591598e-01	-8.303745e-01
##	1979	-2.080381e-07	7.589018e-08	2.327299e-07	-1.211606e-07	1.014801e-08
##	1982	4.463695e-05	-5.846278e-06	5.301868e-06	-1.613424e-05	-9.310459e-06
##	1984	-4.070775e-05	1.309074e-04	1.176244e-05	1.310202e-08	-1.408833e-05
##	1986	-4.387669e+00	1.706341e+00	4.849977e+00	-2.501843e+00	1.925507e-01
##	1987	8.723281e+00	-1.969795e-01	1.152347e+00	-3.258194e+00	-1.987730e+00
##	1988	-7.309783e-03	4.423598e-03	9.347073e-04	3.918930e-03	-1.599342e-03
##	1989	-2.432356e-03	7.822074e-03	7.028911e-04	8.269184e-07	-8.419144e-04
##	1990	-7.768829e-04	2.498136e-03	2.244685e-04	2.800720e-07	-2.688575e-04
##	1991	-1.011165e+00	6.196778e+00	4.763233e-01	-6.066041e-01	-4.932258e-01
##	1994	2.708404e+01	4.021505e+01	3.019202e-02	-2.613681e+01	3.164268e+00
##	1995	-5.955390e-04	1.914623e-03	1.720683e-04	3.191607e-07	-2.061183e-04
##	1997	-3.731304e-01	-1.101413e-01	2.697596e-02	2.689813e-01	-6.524317e-02
##	1998	7.849115e+00	-1.026672e+00	9.231944e-01	-2.831155e+00	-1.635692e+00
##	2002	7.070017e+00	8.594536e+00	2.071833e+00	-3.680135e+00	-3.157624e+00
##	2004	-8.247619e-07	-5.154425e-07	4.553564e-08	6.537686e-07	-1.359782e-07
##	2005	6.795415e+00	1.652482e-01	8.488046e-01	-2.686976e+00	-1.438550e+00
##	2006	-3.764829e-01	1.173522e+00	1.162990e-01	-3.645870e-03	-1.259831e-01
##	2007	-1.466863e-03	4.716968e-03	4.238341e-04	4.972378e-07	-5.076430e-04
##	2008	1.899821e+00	7.806822e-01	3.591183e-01	-8.055051e-01	-5.808922e-01
##	2009	-1.086873e+00	-6.019463e-01	6.123012e-02	8.411975e-01	-1.763340e-01
##	2010	3.321327e+00	2.326659e+00	7.545734e-01	-1.520475e+00	-1.188485e+00

## 2011	-2.390433e+00	7.686973e+00	6.906921e-01	7.865564e-04	-8.272649e-01
## 2013	-3.904505e-01	-2.160155e-01	2.201055e-02	3.021465e-01	-6.335772e-02
## 2017	-2.670812e-04	8.553298e-04	7.721870e-05	1.147879e-06	-9.275462e-05
## 2018	-5.445589e+00	2.622216e+00	5.826368e+00	-2.948199e+00	1.572456e-01
## 2019	-9.016977e-04	2.899389e-03	2.605344e-04	3.565421e-07	-3.120639e-04
## 2020	-2.177296e+00	1.181232e+00	8.028860e+00	-5.523456e+00	-5.038131e-01
## 2021	6.627679e+00	2.008225e+00	1.143222e+00	-2.745648e+00	-1.869471e+00
## 2022	-2.265350e-01	6.733824e-01	8.142727e-02	-1.111575e-02	-7.078194e-02
## 2023	3.499728e+01	2.700758e+01	-1.501090e+00	-2.865139e+01	5.306069e+00
## 2025	-8.609120e-09	1.325309e-08	6.776774e-09	-3.014581e-09	-9.893213e-10
## 2026	7.789457e+00	5.259202e+00	1.741856e+00	-3.545161e+00	-2.748463e+00
## 2027	-1.785612e-01	6.091103e-02	2.009218e-01	-1.048093e-01	9.301345e-03
## 2028	1.984342e-02	-2.637733e-04	2.651952e-03	-7.416337e-03	-4.574328e-03
## 2029	-2.945122e-03	7.363602e-03	7.211560e-04	4.336798e-04	-9.168661e-04
## 2030	-7.938261e-01	1.039678e+00	8.910553e-01	-5.660870e-01	-8.801012e-03
## 2031	-4.619559e-01	8.563964e-01	3.163634e-01	-1.282164e-01	-7.276663e-02
## 2032	8.709021e-03	-1.139951e-03	1.024229e-03	-3.141227e-03	-1.814744e-03
## 2033	-1.308778e-05	4.607963e-05	4.307811e-06	-4.621310e-07	-5.246999e-06
## 2034	-8.925491e-01	2.914264e+00	2.637003e-01	-4.856285e-03	-3.168064e-01
## 2035	-8.734189e-04	2.808895e-03	2.526584e-04	5.941030e-07	-3.027991e-04
## 2036	1.163869e+01	7.876631e+00	2.606373e+00	-5.297539e+00	-4.112440e+00
## 2037	-7.431143e-06	-8.009546e-09	6.974714e-07	4.940408e-06	-1.453349e-06
## 2038	1.431397e-05	-1.912727e-06	1.692166e-06	-5.140724e-06	-3.001660e-06
## 2039	-4.911365e-04	-2.812836e-04	2.738110e-05	3.823835e-04	-7.976168e-05
## 2041	-6.417329e-04	-3.732355e-04	3.514257e-05	5.004471e-04	-1.034129e-04
## 2042	8.052528e+00	3.998187e-01	1.052481e+00	-3.182943e+00	-1.778280e+00
## 2043	-3.646367e-04	1.086143e-03	1.305043e-04	-1.753936e-05	-1.142201e-04
## 2044	3.669877e+00	3.009064e+00	8.915012e-01	-1.731250e+00	-1.391948e+00
## 2046	-4.640374e-04	1.753282e-03	1.826503e-04	-1.247275e-05	-2.339852e-04
## 2047	-4.598490e-01	1.227299e-01	5.273664e-01	-2.768914e-01	2.868227e-02
## 2048	5.372639e-02	3.440332e-02	-2.739846e-03	-4.253591e-02	8.489729e-03
## 2049	1.905422e+01	-7.110492e-01	2.464280e+00	-7.095496e+00	-4.269253e+00
## 2051	-1.357557e-04	3.538401e-04	3.412140e-05	1.701993e-05	-4.294767e-05
## 2053	-5.628235e-01	1.809515e+00	1.625995e-01	2.610933e-04	-1.947601e-01

##	2054	3.420868e-02	2.604529e-02	-1.488819e-03	-2.793284e-02	5.203246e-03
##	2055	-5.911684e-03	1.901033e-02	1.708122e-03	1.947352e-06	-2.045874e-03
##	2056	2.449842e-01	7.664081e-01	2.512835e-02	-3.190407e-01	8.967948e-03
##	2058	-2.303072e-03	3.748500e-03	1.722412e-03	-7.382495e-04	-2.922292e-04
##	2061	-2.648289e-03	8.516124e-03	7.652307e-04	9.258472e-07	-9.165676e-04
##	2064	-3.586607e-03	9.543136e-04	4.114061e-03	-2.160220e-03	2.241130e-04
##	2065	-5.788902e+00	2.328087e+00	6.409267e+00	-3.323654e+00	2.521556e-01
##	2066	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03
##	2067	-1.094961e-05	2.214836e-05	2.380654e-06	2.713352e-06	-3.195145e-06
##	2068	3.566755e+00	3.056147e+00	8.838347e-01	-1.697934e+00	-1.376562e+00
##	2069	2.660819e+00	5.706729e+00	1.113372e-01	-2.928093e+00	2.251940e-01
##	2070	-8.650740e-04	2.781511e-03	2.499592e-04	3.832082e-07	-2.994093e-04
##	2071	-2.121010e-03	6.820591e-03	6.128476e-04	6.988049e-07	-7.340290e-04
##	2072	8.765133e+00	-5.133163e-01	1.123092e+00	-3.242137e+00	-1.941240e+00
##	2073	-2.598300e-01	4.078493e-02	2.603410e-02	1.631946e-01	-5.116155e-02
##	2074	4.937619e+00	-6.447475e-01	5.808957e-01	-1.781114e+00	-1.029157e+00
##	2076	-5.699254e-01	1.832520e+00	1.646619e-01	2.290342e-04	-1.972261e-01
##	2077	3.894935e+00	3.629504e-01	4.759050e-01	-1.629408e+00	-7.868673e-01
##	2078	1.519906e+00	1.100314e+00	3.469041e-01	-7.038605e-01	-5.444895e-01
##	2081	-2.075217e-05	6.304129e-05	5.782574e-06	7.825208e-07	-7.028360e-06
##	2082	-2.080381e-07	7.589018e-08	2.327299e-07	-1.211606e-07	1.014801e-08
##	2083	-1.811155e-06	1.817091e-07	1.763952e-07	1.160189e-06	-3.539633e-07
##	2084	-4.646677e-05	-2.037559e-05	2.948450e-06	3.486358e-05	-7.800112e-06
##	2085	3.589458e+00	3.846529e+00	9.848153e-01	-1.806677e+00	-1.512216e+00
##	2090	2.745523e+01	2.699830e+01	-8.190116e-01	-2.366948e+01	3.879171e+00
##	2091	-4.054450e-03	9.248265e-03	9.413204e-04	7.837425e-04	-1.225188e-03
##	2092	1.637873e-02	-2.128205e-03	1.928292e-03	-5.909419e-03	-3.415737e-03
##	2093	4.699714e-02	-6.144838e-03	5.528406e-03	-1.695233e-02	-9.794295e-03
##	2094	-8.385806e+00	3.298340e+00	1.903252e+01	-1.221975e+01	-5.720752e-01
##	2095	2.716985e+00	4.929699e+00	1.015261e+00	-1.598424e+00	-1.514577e+00
##	2096	-9.666241e-02	3.410478e-02	1.084327e-01	-5.650025e-02	4.877171e-03
##	2097	-4.198218e-01	3.617808e-01	4.272480e-01	-2.231369e-01	-3.752517e-03
##	2098	2.966355e+01	3.930415e+01	-2.595192e-01	-2.765314e+01	3.696916e+00
##	2100	6.430148e-03	-8.361739e-04	7.578516e-04	-2.320599e-03	-1.340959e-03

##	2101	-6.092843e-05	1.775296e-04	1.694932e-05	4.401736e-06	-2.108539e-05
##	2104	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
##	2105	-1.433401e-07	5.790311e-08	1.587483e-07	-8.235545e-08	6.211673e-09
##	2107	-1.654416e-05	-5.142921e-06	1.180076e-06	1.197955e-05	-2.880155e-06
##	2110	-5.508977e-01	1.766657e+00	1.588758e-01	1.181884e-03	-1.904129e-01
##	2112	6.698402e+00	6.057121e-01	9.831534e-01	-2.589190e+00	-1.662252e+00
##	2113	-1.655653e-03	5.324069e-03	4.783836e-04	5.587116e-07	-5.729787e-04
##	2114	-1.067111e+00	2.931047e-01	1.290353e+00	-6.947462e-01	5.999304e-02
##	2116	3.811684e-01	3.534654e-01	-1.268873e-02	-3.242263e-01	5.489755e-02
##	2117	-3.304736e-05	1.062738e-04	9.549058e-06	1.057048e-08	-1.143728e-05
##	2118	-1.011133e-04	2.881857e-04	2.715350e-05	7.896173e-06	-3.359884e-05
##	2119	-9.855947e-02	3.117544e-01	2.816778e-02	1.085102e-03	-3.385336e-02
##	2121	-1.927633e-01	5.170319e-02	2.209912e-01	-1.160173e-01	1.198777e-02
##	2122	-1.294742e-03	4.163469e-03	3.741009e-04	4.412087e-07	-4.480759e-04
##	2123	-2.545879e+00	8.382676e+00	7.607641e-01	-2.286015e-02	-9.150415e-01
##	2124	-3.136111e+00	9.835809e-01	3.553909e+00	-1.858395e+00	1.753014e-01
##	2127	-5.522278e-01	1.775597e+00	1.595475e-01	2.257955e-04	-1.911008e-01
##	2128	-7.817648e-01	2.511048e+00	2.257049e-01	8.504090e-04	-2.704067e-01
##	2129	-1.888121e-03	6.071616e-03	5.455546e-04	6.391164e-07	-6.534333e-04
##	2130	3.297203e+00	3.473477e+00	-8.409689e-02	-2.889999e+00	4.545953e-01
##	2132	9.297151e+00	6.211986e+00	2.064019e+00	-4.231803e+00	-3.256781e+00
##	2137	-1.008207e+00	3.236285e+00	2.915692e-01	8.111194e-04	-3.484719e-01
##	2139	-7.332654e-03	-1.692643e-03	5.611849e-04	5.186863e-03	-1.304664e-03
##	2140	-1.683595e-03	5.413921e-03	4.864572e-04	5.683719e-07	-5.826489e-04
##	2141	-2.181849e-03	7.016203e-03	6.304294e-04	7.305970e-07	-7.550914e-04
##	2142	-6.929526e-04	3.147215e-05	6.467580e-05	4.511132e-04	-1.327017e-04
##	2145	1.316731e+01	2.188338e+01	1.586143e-01	-1.318542e+01	1.424574e+00
##	2146	-1.683595e-03	5.413921e-03	4.864572e-04	5.683719e-07	-5.826489e-04
##	2147	3.327813e+00	1.173903e+00	5.850147e-01	-1.411609e+00	-9.482040e-01
##	2149	-5.300638e-04	-3.219555e-04	2.822673e-05	4.162223e-04	-8.483117e-05
##	2151	-4.217262e-04	9.741713e-04	1.138535e-04	9.817751e-05	-1.564168e-04
##	2154	6.058273e+00	2.260439e-01	7.841869e-01	-2.383147e+00	-1.328573e+00
##	2155	-7.304904e-03	2.349054e-02	2.110679e-03	2.406211e-06	-2.528030e-03
##	2156	5.910317e-03	4.006821e-03	-2.875988e-04	-4.724759e-03	9.229224e-04

## 2157	-1.393933e+00	5.574954e+00	5.467311e-01	-1.271631e-01	-6.787444e-01
## 2158	-1.741595e+00	6.585533e-01	1.940381e+00	-1.008443e+00	8.165139e-02
## 2159	2.512521e-01	4.399081e+00	6.136342e-01	-6.083448e-01	-8.489341e-01
## 2161	-2.907868e-03	9.350480e-03	8.401736e-04	1.042658e-06	-1.006314e-03
## 2163	1.327127e-02	7.782667e-02	3.603207e-03	-2.473291e-02	-1.287667e-03
## 2164	-1.192878e+00	1.903770e+00	9.067105e-01	-3.942694e-01	-1.452155e-01
## 2166	-1.511346e-01	4.824164e-01	4.449662e-02	-4.317099e-04	-5.186172e-02
## 2167	-2.910446e-02	9.359182e-02	8.409440e-03	9.587349e-06	-1.007227e-02
## 2168	5.713323e+00	5.625458e-03	7.357900e-01	-2.193428e+00	-1.259736e+00
## 2169	-2.931026e-03	9.425253e-03	8.468837e-04	9.879270e-07	-1.014343e-03
## 2170	-9.419663e-07	-5.925872e-07	5.289763e-08	7.489009e-07	-1.572261e-07
## 2171	-5.217680e-05	1.672971e-04	1.504766e-05	1.198863e-07	-1.803662e-05
## 2172	-3.634356e-01	-2.226284e-01	1.915735e-02	2.856658e-01	-5.792268e-02
## 2173	-1.891456e-01	5.954332e-01	5.814888e-02	-2.288514e-03	-6.374272e-02
## 2174	1.680943e+00	2.659812e+01	1.514180e+00	-6.597377e+00	-9.730108e-01
## 2176	-8.169927e-04	2.626906e-03	2.360619e-04	3.584555e-07	-2.827602e-04
## 2177	8.978196e+00	9.476923e+00	2.410169e+00	-4.545155e+00	-3.692795e+00
## 2179	-9.380916e-01	3.924657e+00	3.907195e-01	-1.057601e-01	-4.878516e-01
## 2180	-4.050563e-03	1.302548e-02	1.170370e-03	1.334134e-06	-1.401791e-03
## 2182	-8.608700e-04	1.917368e-03	2.038285e-04	1.845105e-04	-2.706225e-04
## 2183	-1.177020e-03	3.788389e-03	3.409278e-04	4.786266e-07	-4.086764e-04
## 2184	8.394475e-02	3.198275e-01	1.216858e-02	-1.210278e-01	2.307748e-04
## 2185	1.065313e+00	9.034375e-01	-4.054915e-02	-8.886780e-01	1.573156e-01
## 2186	-1.807912e-04	-9.597718e-05	1.102751e-05	1.398131e-04	-3.062960e-05
## 2189	-5.645642e+00	1.820090e+01	1.635427e+00	-5.918495e-03	-1.958540e+00
## 2190	-5.181998e+00	2.647496e+01	1.083991e+01	-1.215886e+01	-4.841678e-02
## 2191	1.447746e+01	1.027020e+01	-6.766296e-01	-1.166719e+01	2.238979e+00
## 2192	-6.120978e+00	2.118915e+01	1.901741e+00	-2.562674e-01	-2.266916e+00
## 2194	-1.486747e-09	3.769567e-09	7.894419e-10	-2.559961e-10	-3.808324e-10
## 2195	-5.006214e-05	1.603116e-04	1.442334e-05	1.548766e-07	-1.729227e-05
## 2196	-1.657406e-03	2.233243e-03	2.897002e-04	6.384233e-04	-4.260912e-04
## 2197	-5.873563e-01	1.884544e+00	1.694500e-01	1.061274e-03	-2.030618e-01
## 2198	-2.962367e-01	9.482904e-01	8.532779e-02	9.850944e-04	-1.023086e-01
## 2199	-8.186625e-04	1.372902e-03	2.274739e-04	1.797918e-04	-2.050545e-04

##	2200	-1.600750e-03	5.147516e-03	4.625195e-04	5.397398e-07	-5.539775e-04
##	2201	-1.684767e-03	-1.033974e-03	8.868744e-05	1.324651e-03	-2.684159e-04
##	2203	-4.237429e-04	1.362268e-03	1.224223e-04	2.269061e-07	-1.466445e-04
##	2207	3.822644e+00	2.375671e+00	8.286111e-01	-1.714719e+00	-1.313500e+00
##	2209	1.859581e+00	1.406599e+01	7.004116e-01	-4.113692e+00	-3.354812e-01
##	2210	-4.556099e-01	1.465115e+00	1.316439e-01	1.500854e-04	-1.576743e-01
##	2213	-1.642049e-01	5.237832e-01	4.866473e-02	-7.923898e-04	-5.624360e-02
##	2214	-1.157492e+00	2.116080e+00	2.605068e-01	3.010402e-01	-3.160792e-01
##	2215	-1.090206e-03	3.337053e-03	3.595899e-04	-2.888246e-05	-3.550651e-04
##	2216	-5.116412e-05	1.632585e-04	1.470665e-05	2.798979e-07	-1.764775e-05
##	2218	3.766187e+00	-2.560269e-01	1.038907e+00	-1.815120e+00	-8.824420e-01
##	2219	1.253334e-01	1.417740e-01	-2.595540e-03	-1.118535e-01	1.680484e-02
##	2220	-1.444399e+00	1.163634e+00	1.429827e+00	-7.104331e-01	-1.775825e-02
##	2221	-2.865062e-03	9.213429e-03	8.278847e-04	9.585904e-07	-9.916087e-04
##	2222	-2.167854e-01	2.456301e-01	3.477825e-02	9.273167e-02	-5.300527e-02
##	2223	-6.654240e-01	2.137559e+00	1.921286e-01	6.833020e-04	-2.301758e-01
##	2224	6.622907e-02	7.542888e-02	-1.339748e-03	-5.921087e-02	8.854735e-03
##	2225	-2.383270e-01	7.840008e-01	7.118060e-02	-1.980923e-03	-8.563934e-02
##	2226	-7.699123e-04	2.475450e-03	2.224599e-04	3.611176e-07	-2.664734e-04
##	2227	2.568172e-05	8.018960e-05	5.018225e-05	2.371483e-05	-8.541019e-05
##	2229	3.041450e+00	1.367185e+00	5.804595e-01	-1.315685e+00	-9.325881e-01
##	2230	-3.032027e-03	9.752372e-03	8.764636e-04	8.629397e-07	-1.049884e-03
##	2231	2.842372e-01	3.149597e-01	-6.291374e-03	-2.523203e-01	3.843114e-02
##	2234	3.353672e+00	3.050134e+00	8.542676e-01	-1.617167e+00	-1.325994e+00
##	2235	-7.262506e-03	5.391145e-03	9.904810e-04	3.689583e-03	-1.638234e-03
##	2236	-6.924853e-03	1.554970e-03	7.228977e-04	4.253549e-03	-1.386677e-03
##	2237	6.341186e+00	9.165562e-01	4.529063e-01	-3.151058e+00	-6.578596e-01
##	2238	5.917628e+00	4.369061e+00	-2.660093e-01	-4.804057e+00	9.068294e-01
##	2241	-4.641692e-01	2.181875e+00	1.775383e-01	-1.401755e-01	-1.959147e-01
##	2242	-7.750941e-04	-3.094313e-04	5.262281e-05	5.772399e-04	-1.344899e-04
##	2245	-1.524829e-05	-9.774653e-06	9.145671e-07	1.224804e-05	-2.666145e-06
##	2246	-2.691087e-03	8.653890e-03	7.775900e-04	8.914668e-07	-9.313568e-04
##	2248	2.906551e+00	6.957241e-01	4.684057e-01	-1.193305e+00	-7.705837e-01
##	2249	-1.136369e+00	4.653539e+00	4.598532e-01	-1.165922e-01	-5.725283e-01

## 2250	7.173058e-01	5.068943e+01	3.065063e+00	-1.087685e+01	-2.337783e+00
## 2251	-1.554819e-01	4.926991e-01	4.575959e-02	5.529353e-05	-5.312590e-02
## 2252	-9.755101e+00	3.141690e+01	2.824793e+00	-2.384981e-03	-3.384337e+00
## 2253	1.330284e-01	1.419883e-01	-3.277981e-03	-1.169775e-01	1.824914e-02
## 2254	4.579555e-03	2.229748e-02	9.617772e-04	-7.599522e-03	-2.214530e-04
## 2258	-4.460904e+00	1.445243e+00	5.041754e+00	-2.633998e+00	2.429579e-01
## 2259	8.434806e-01	4.504216e-01	1.624169e-01	-3.832343e-01	-2.565802e-01
## 2260	-1.979136e-06	3.727099e-06	4.106627e-07	5.438489e-07	-5.592002e-07
## 2263	-1.854023e-01	4.975291e-02	2.125452e-01	-1.115820e-01	1.152666e-02
## 2266	2.018197e+00	1.723982e+00	4.607690e-01	-1.008879e+00	-7.057515e-01
## 2269	-3.053861e+00	9.905375e+00	8.876282e-01	-1.644044e-02	-1.061005e+00
## 2270	-5.377604e-05	1.239136e-04	1.251352e-05	1.007718e-05	-1.622006e-05
## 2271	1.389805e-06	-2.464280e-07	1.781802e-07	-4.644371e-07	-3.214231e-07
## 2272	1.895439e+01	-6.924247e-01	2.453401e+00	-7.059980e+00	-4.249691e+00
## 2273	-6.085978e-02	2.682136e-01	2.223743e-02	-1.463505e-02	-2.493161e-02
## 2275	-1.939251e-03	6.236092e-03	5.603293e-04	6.414939e-07	-6.711265e-04
## 2276	3.141544e-04	1.439984e-04	6.134287e-05	-1.349361e-04	-9.873417e-05
## 2277	3.637300e+01	3.969769e+01	-8.425463e-01	-3.216417e+01	4.947542e+00
## 2278	-6.350019e-06	-6.455381e-06	9.484347e-07	6.491724e-06	-2.329628e-06
## 2280	6.565467e+00	1.115232e+00	8.812679e-01	-2.789365e+00	-1.440623e+00
## 2281	-1.711861e-03	5.504815e-03	4.946245e-04	5.781471e-07	-5.924313e-04
## 2284	9.487028e+00	7.132002e+00	-4.185870e-01	-7.727962e+00	1.447589e+00
## 2285	-4.680428e-06	1.273946e-06	5.360444e-06	-2.813205e-06	2.884991e-07
## 2286	5.355925e-04	-6.354191e-05	6.385361e-05	-1.939478e-04	-1.127839e-04
## 2287	-3.968628e-03	1.285414e-02	1.158885e-03	-9.396750e-06	-1.390083e-03
## 2288	3.311053e-01	1.218808e+00	4.527415e-02	-4.687215e-01	3.157116e-03
## 2289	-6.699865e-05	2.868994e-04	2.913412e-05	-7.871322e-06	-3.669970e-05
## 2290	2.510771e-01	1.087929e+00	4.442455e-02	-3.890400e-01	-5.573703e-03
## 2293	-6.763940e+00	2.563579e+00	7.471674e+00	-3.842646e+00	3.003565e-01
## 2294	-6.471163e-01	2.079706e+00	1.875939e-01	1.341439e-03	-2.251834e-01
## 2295	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03
## 2298	1.399856e+01	9.578102e+00	-6.759950e-01	-1.120893e+01	2.182109e+00
## 2301	-4.205354e-03	1.356138e-02	1.220399e-03	-2.717642e-06	-1.462734e-03
## 2303	-1.791786e-02	5.865949e-01	3.785947e-02	-1.085045e-01	-3.207516e-02

## 2304	-1.232239e-03	-7.562896e-04	6.487538e-05	9.688735e-04	-1.963397e-04
## 2306	-5.378849e-07	1.657610e-07	6.104561e-07	-3.193856e-07	3.046866e-08
## 2307	2.570670e+01	3.177128e+01	-3.662072e-01	-2.349446e+01	3.315453e+00
## 2308	-6.540424e-01	1.923037e+00	1.778608e-01	3.719448e-02	-2.175595e-01
## 2310	5.602570e+00	7.266604e+00	-5.868321e-02	-5.190675e+00	7.058712e-01
## 2312	-4.225431e-01	1.356508e+00	1.219493e-01	6.056478e-04	-1.461199e-01
## 2313	-3.042670e-03	9.784754e-03	8.792342e-04	1.003981e-06	-1.053120e-03
## 2314	-9.896552e-01	-6.072704e-01	5.210230e-02	7.780974e-01	-1.576759e-01
## 2315	-4.540919e-04	1.458729e-03	1.313156e-04	7.145379e-07	-1.574552e-04
## 2316	-3.609849e-02	1.073655e-01	9.892743e-03	1.801378e-03	-1.206825e-02
## 2318	-2.936241e-03	9.442386e-03	8.484623e-04	9.777939e-07	-1.016258e-03
## 2320	-1.601775e-03	5.151958e-03	4.631184e-04	5.978126e-07	-5.548217e-04
## 2321	1.698865e+01	2.194293e+01	-1.836060e-01	-1.572088e+01	2.144896e+00
## 2322	-7.879844e-02	2.144908e-02	9.024630e-02	-4.736185e-02	4.856957e-03
## 2323	-5.242489e-02	1.513105e-01	1.408178e-02	3.562301e-03	-1.730045e-02
## 2324	-1.659067e-06	5.845401e-07	1.862331e-07	9.755106e-07	-3.424834e-07
## 2325	2.243468e+00	2.720784e+00	6.611340e-01	-1.161297e+00	-1.009319e+00
## 2329	-2.634989e-01	8.670631e-02	2.919979e-02	1.561927e-01	-5.409538e-02
## 2330	-2.722805e-03	8.755875e-03	7.867639e-04	9.171855e-07	-9.423518e-04
## 2331	-5.977192e-04	1.921822e-03	1.726965e-04	2.645569e-07	-2.068570e-04
## 2332	2.827411e+01	2.659674e+01	-9.179147e-01	-2.412777e+01	4.053740e+00
## 2334	1.991256e+00	3.676459e+00	7.531000e-01	-1.178070e+00	-1.122656e+00
## 2335	4.184818e-02	-1.228650e-03	4.469372e-02	-4.537877e-02	-1.330775e-02
## 2336	-2.633107e-04	-1.433203e-04	1.536656e-05	2.037537e-04	-4.354787e-05
## 2337	3.498325e+01	-1.124534e+02	-1.011982e+01	-3.612984e-03	1.210099e+01
## 2338	1.968304e-02	2.933617e-02	2.880453e-05	-1.901721e-02	2.294114e-03
## 2340	-6.530926e+00	2.414615e+00	7.293955e+00	-3.794715e+00	3.142075e-01
## 2341	-1.480305e-03	4.760130e-03	4.277142e-04	5.147597e-07	-5.122921e-04
## 2343	3.417106e-01	3.990561e-01	9.872558e-02	-1.751309e-01	-1.509728e-01
## 2344	1.188902e+00	4.308131e+00	1.583954e-01	-1.669308e+00	1.487377e-02
## 2345	-5.686509e+00	1.830716e+01	1.644355e+00	-2.416975e-03	-1.968975e+00
## 2346	-3.726113e+00	1.477022e+00	8.332115e+00	-5.335122e+00	-2.439425e-01
## 2348	-1.075728e+00	1.884304e+01	2.314425e+00	-1.826752e+00	-3.092783e+00
## 2352	-3.701217e-03	1.190789e-02	1.070237e-03	5.956385e-07	-1.282015e-03

## 2353	4.374094e+00	2.665192e+00	9.411671e-01	-1.955829e+00	-1.493483e+00
## 2354	-1.139198e+01	3.982647e+01	3.508804e+00	-6.261501e-01	-4.135837e+00
## 2355	-6.014141e+00	1.999098e+01	1.777908e+00	-1.316594e-01	-2.113090e+00
## 2356	-2.651993e-03	8.528129e-03	7.662969e-04	8.954180e-07	-9.178357e-04
## 2357	8.545613e+00	5.693008e-01	1.168556e+00	-3.353761e+00	-1.973999e+00
## 2359	-1.432793e-01	4.594278e-01	4.155430e-02	4.317081e-05	-4.946069e-02
## 2360	-3.746240e-05	1.000193e-05	4.296182e-05	-2.255674e-05	2.336160e-06
## 2361	3.982969e+00	-2.464465e-01	9.657052e-01	-1.818967e+00	-9.243231e-01
## 2362	1.359937e+00	8.245260e+00	1.269553e+00	-1.475082e+00	-1.796437e+00
## 2363	8.138599e+00	1.059148e+00	1.228017e+00	-3.195136e+00	-2.060704e+00
## 2364	-1.745344e-04	5.610198e-04	5.041728e-05	1.077803e-07	-6.039353e-05
## 2365	-2.464970e+00	7.935075e+00	7.127483e-01	-9.151518e-04	-8.534710e-01
## 2366	-1.288228e-03	4.142460e-03	3.722210e-04	4.598033e-07	-4.458300e-04
## 2367	-2.401405e-01	6.987643e-01	8.943763e-02	-1.339622e-02	-7.326704e-02
## 2368	-1.322949e-04	4.249427e-04	3.819962e-05	1.473176e-07	-4.576774e-05
## 2370	-1.248917e-01	7.179835e-02	1.573444e-02	6.773035e-02	-2.713709e-02
## 2371	-1.125395e-03	3.618719e-03	3.252046e-04	4.796163e-07	-3.895463e-04
## 2372	2.234586e+00	1.626621e+00	5.075505e-01	-1.040471e+00	-7.953012e-01
## 2374	-1.656229e+00	5.346912e+00	4.798431e-01	-3.751766e-03	-5.741977e-01
## 2376	-1.336858e-03	-8.204551e-04	7.037318e-05	1.051107e-03	-2.129872e-04
## 2377	-8.711157e-01	1.041259e+00	7.636980e-01	-3.592552e-01	-5.769964e-02
## 2379	-1.300998e+00	1.233897e-01	1.253682e-01	8.337214e-01	-2.522299e-01
## 2380	3.775149e+00	4.757217e-01	5.718862e-01	-1.475002e+00	-9.609807e-01
## 2381	-7.654285e-01	-4.697544e-01	4.029291e-02	6.018185e-01	-1.219476e-01
## 2382	-8.987578e-07	-1.182214e-06	1.916494e-07	1.067263e-06	-4.548836e-07
## 2383	2.474616e+00	3.182586e+00	7.531709e-01	-1.302143e+00	-1.145933e+00
## 2384	-1.886872e-01	5.937690e-01	5.737354e-02	-1.516799e-03	-6.373528e-02
## 2385	5.084858e+00	2.025114e+00	9.407727e-01	-2.163288e+00	-1.521047e+00
## 2387	4.119166e+00	2.939327e+00	9.430240e-01	-1.891869e+00	-1.483837e+00
## 2388	-1.096180e-03	3.524930e-03	3.167277e-04	3.803799e-07	-3.793589e-04
## 2389	6.808407e+00	4.238728e-01	9.161325e-01	-2.682343e+00	-1.546896e+00
## 2390	-3.397102e-04	-1.505916e-04	2.207279e-05	2.559951e-04	-5.810017e-05
## 2392	-1.158161e-02	6.907430e-03	1.217107e-02	-6.193130e-03	1.935768e-04
## 2394	-3.663351e-03	1.178334e-02	1.059007e-03	1.005094e-06	-1.268554e-03

## 2396	-7.073547e-04	2.341301e-03	2.413653e-04	2.802359e-05	-3.094715e-04
## 2397	-3.086845e-04	-1.894457e-04	1.624943e-05	2.427038e-04	-4.917948e-05
## 2400	-1.421875e+00	9.164670e+00	1.007596e+00	-5.466556e-01	-1.301665e+00
## 2402	6.991191e+00	7.137142e-01	1.036891e+00	-2.711877e+00	-1.749587e+00
## 2404	-3.291467e-03	1.058487e-02	9.511011e-04	1.044763e-06	-1.139180e-03
## 2405	-1.002904e-05	3.225216e-05	2.897995e-06	3.123698e-09	-3.471058e-06
## 2406	4.003395e+00	-5.431847e-01	4.753311e-01	-1.432915e+00	-8.438591e-01
## 2407	-1.092510e+00	3.508592e+00	3.153919e-01	1.299187e-03	-3.778614e-01
## 2408	5.265684e-01	1.870753e+00	3.150152e-01	-4.197154e-01	-4.536038e-01
## 2410	-7.027742e-04	2.259771e-03	2.030540e-04	2.683230e-07	-2.432111e-04
## 2411	4.252592e+00	4.608021e+00	-1.005602e-01	-3.753681e+00	5.800694e-01
## 2413	-1.433284e-01	4.724080e-01	4.277964e-02	-1.485504e-03	-5.138990e-02
## 2414	-1.782486e-02	5.463424e-02	4.985699e-03	5.584170e-04	-6.039788e-03
## 2415	4.048520e-04	2.429489e-03	1.141811e-04	-7.647815e-04	-4.356511e-05
## 2416	-4.430681e-04	-2.687116e-04	2.356612e-05	3.477611e-04	-7.082934e-05
## 2417	-6.073703e-04	1.952659e-03	1.754880e-04	3.274496e-07	-2.102157e-04
## 2418	1.835539e-03	1.580727e-03	-6.841015e-05	-1.536181e-03	2.699380e-04
## 2419	-6.398605e-02	1.951817e-01	1.783530e-02	2.192359e-03	-2.162790e-02
## 2420	-4.707229e-04	6.782763e-04	8.737092e-05	1.752866e-04	-1.276032e-04
## 2422	1.098479e+00	-1.843356e+00	-2.131815e-01	-3.470217e-01	2.978036e-01
## 2423	-1.496219e+00	-3.406963e-01	1.265489e-01	1.073196e+00	-2.892441e-01
## 2424	-2.152522e-03	6.921915e-03	6.219546e-04	7.142330e-07	-7.449388e-04
## 2426	1.138846e+00	3.784790e+01	2.238628e+00	-8.511655e+00	-1.641946e+00
## 2427	6.258680e-01	2.562516e+00	4.221470e-01	-5.346111e-01	-6.057752e-01
## 2428	-5.740951e-01	9.817772e-01	4.168218e-01	-1.758017e-01	-7.908825e-02
## 2430	-5.961481e-01	1.916998e+00	1.722480e-01	2.061975e-04	-2.063084e-01
## 2433	-5.682914e-05	1.823248e-04	1.639579e-05	1.073510e-07	-1.964948e-05
## 2434	6.027555e+00	2.932567e-01	8.185004e-01	-2.342109e+00	-1.388841e+00
## 2436	3.016237e+00	6.623538e-01	4.804656e-01	-1.228544e+00	-7.931353e-01
## 2437	-3.788566e-04	1.314455e-03	1.255785e-04	-6.769086e-06	-1.548218e-04
## 2438	-1.536594e+00	4.091292e-01	1.762488e+00	-9.254367e-01	9.597735e-02
## 2439	3.782656e-01	1.141752e-01	6.605803e-02	-1.555569e-01	-1.082409e-01
## 2441	1.885087e-01	-1.739853e-02	2.312952e-02	-6.884127e-02	-4.059010e-02
## 2443	-4.358546e-01	2.545022e+00	2.758150e-01	-1.344531e-01	-3.548330e-01

## 2444	1.141687e+00	-1.483843e-01	1.344079e-01	-4.119156e-01	-2.380879e-01
## 2445	-1.703384e-04	5.473383e-04	4.919566e-05	1.480587e-07	-5.893670e-05
## 2448	-2.511605e-03	8.076629e-03	7.257229e-04	8.506261e-07	-8.692354e-04
## 2449	-5.572055e-01	1.791783e+00	1.609969e-01	1.907779e-04	-1.928323e-01
## 2450	-1.590007e-03	5.112711e-03	4.594070e-04	5.990692e-07	-5.502612e-04
## 2451	-8.895246e-02	2.869357e-01	2.580127e-02	-9.711761e-05	-3.091052e-02
## 2452	-5.893146e+00	2.282175e+00	6.551900e+00	-3.403381e+00	2.692841e-01
## 2453	2.760629e+00	6.720125e-01	4.025303e-01	-1.190010e+00	-6.519922e-01
## 2454	2.467191e+00	5.383165e-01	3.777674e-01	-1.023156e+00	-6.205141e-01
## 2456	1.893393e-01	1.981518e-01	-4.909916e-03	-1.656869e-01	2.616845e-02
## 2458	-3.663763e+00	1.393001e+00	4.066494e+00	-2.104170e+00	1.670434e-01
## 2460	-9.035283e-04	2.903216e-03	2.615902e-04	3.503634e-09	-3.124157e-04
## 2461	1.066284e+01	3.062299e+00	1.820942e+00	-4.392671e+00	-2.984668e+00
## 2462	-1.488324e-02	2.883669e-02	3.126495e-03	3.909155e-03	-4.222945e-03
## 2463	-1.401691e-01	4.860390e-02	1.574917e-01	-8.211239e-02	7.191987e-03
## 2469	-1.750274e+00	-4.144704e+00	-7.841676e-01	1.139823e+00	1.154400e+00
## 2470	-3.434050e-06	7.784990e-06	7.911988e-07	6.697669e-07	-1.029548e-06
## 2471	3.049038e-01	-3.990310e-02	3.585946e-02	-1.099757e-01	-6.353564e-02
## 2473	1.831009e+00	2.627627e+00	5.932248e-01	-9.953516e-01	-8.969079e-01
## 2474	-3.007404e-07	1.012786e-07	3.388547e-07	-1.768475e-07	1.584059e-08
## 2477	2.958240e+00	2.434094e+00	-1.175538e-01	-2.452869e+00	4.411367e-01
## 2479	-1.415892e-03	4.553190e-03	4.091199e-04	4.603010e-07	-4.900196e-04
## 2481	-5.235466e-05	1.679692e-04	1.512789e-05	1.277956e-07	-1.814525e-05
## 2482	-2.356758e-03	4.185580e-03	4.719297e-04	6.975790e-04	-6.507760e-04
## 2483	-5.039114e-01	2.716662e+00	2.165848e-01	-2.285718e-01	-2.271073e-01
## 2485	-1.950408e-04	5.639335e-04	6.010088e-05	2.269845e-05	-7.870806e-05
## 2488	1.902853e+01	-8.408903e-01	2.409310e+00	-7.114065e+00	-4.175686e+00
## 2490	2.937749e+00	3.729058e+00	8.877000e-01	-1.540038e+00	-1.351655e+00
## 2491	-1.926977e-03	6.196592e-03	5.567893e-04	6.539645e-07	-6.668927e-04
## 2492	-3.935257e-04	-1.670323e-04	2.590711e-05	2.948756e-04	-6.744165e-05
## 2495	2.165053e+00	2.155537e+00	5.760546e-01	-1.065800e+00	-8.895188e-01
## 2496	-6.299056e+00	2.034638e+00	7.121019e+00	-3.720595e+00	3.439157e-01
## 2497	6.400120e+00	5.646303e-01	9.375154e-01	-2.472242e+00	-1.585699e+00
## 2498	2.501255e-05	1.775869e-05	1.471466e-05	-1.228478e-07	-2.581310e-05

## 2499	8.265452e+00	-7.267244e-01	1.161059e+00	-3.130740e+00	-1.800021e+00
## 2500	-1.152190e+01	3.076272e+00	1.331734e+01	-7.016571e+00	7.083456e-01
## 2501	4.231526e-01	4.685459e-01	-9.387448e-03	-3.755663e-01	5.723049e-02
## 2503	-1.698466e-03	5.461717e-03	4.907786e-04	6.113057e-07	-5.878429e-04
## 2506	4.116766e+00	1.759301e+00	7.739665e-01	-1.769799e+00	-1.246485e+00
## 2508	-2.522928e-03	8.113152e-03	7.289827e-04	8.076142e-07	-8.731242e-04
## 2509	5.659857e+00	7.192419e-01	8.488772e-01	-2.223570e+00	-1.424654e+00
## 2510	-2.209903e-01	6.418901e-01	7.974931e-02	-9.205772e-03	-6.800057e-02
## 2511	1.050406e+01	-9.965133e-01	2.097722e+00	-4.450120e+00	-2.336036e+00
## 2513	-1.184741e-03	3.809364e-03	3.422923e-04	4.789431e-07	-4.099857e-04
## 2514	7.767606e-02	-1.017012e-02	9.134753e-03	-2.801638e-02	-1.618525e-02
## 2515	-3.333754e-02	4.072803e-01	4.586900e-02	-3.921877e-02	-5.928524e-02
## 2516	-5.899026e-01	2.441180e+00	2.421408e-01	-6.341341e-02	-3.019126e-01
## 2517	2.849142e-08	-3.730223e-09	3.350630e-09	-1.027637e-08	-5.936747e-09
## 2518	5.001412e+00	5.009892e+00	2.993274e+00	-3.727709e+00	-2.220182e+00
## 2520	-5.688343e-01	1.829144e+00	1.643548e-01	2.014164e-04	-1.968549e-01
## 2521	-6.769765e-01	2.104879e+00	1.911585e-01	1.501964e-02	-2.307700e-01
## 2522	-6.964227e-04	2.238977e-03	2.012338e-04	3.896353e-07	-2.410656e-04
## 2523	-9.094105e-01	-5.581167e-01	4.787236e-02	7.150241e-01	-1.448868e-01
## 2524	5.331216e+00	8.292873e-01	8.216352e-01	-2.109615e+00	-1.373032e+00
## 2525	-2.523309e+00	1.540072e+00	2.641048e+00	-1.341591e+00	3.719053e-02
## 2526	7.716202e+00	-1.010282e+00	9.074302e-01	-2.783097e+00	-1.607814e+00
## 2528	-1.322549e-01	4.616304e-02	1.485116e-01	-7.741473e-02	6.744000e-03
## 2529	-1.553135e-04	4.988143e-04	4.484037e-05	1.843847e-07	-5.372468e-05
## 2531	5.594640e+00	4.235847e+00	1.305655e+00	-2.607166e+00	-2.045553e+00
## 2532	-2.133171e-04	-8.788438e-05	1.489974e-05	1.601701e-04	-3.798128e-05
## 2533	3.681750e+01	3.181666e+01	-1.369083e+00	-3.084024e+01	5.416001e+00
## 2535	-5.643902e-01	1.814491e+00	1.630483e-01	2.744608e-04	-1.952992e-01
## 2537	3.720907e-10	4.061856e-10	1.037137e-10	-1.873499e-10	-1.592940e-10
## 2538	-9.985801e-01	3.179203e-01	1.130237e+00	-5.907724e-01	5.516292e-02
## 2539	1.635663e+01	-1.965825e+00	1.946712e+00	-5.920077e+00	-3.439797e+00
## 2540	-1.602007e-01	5.167737e-01	4.648527e-02	-1.553805e-04	-5.570173e-02
## 2542	-2.722805e-03	8.755875e-03	7.867639e-04	9.171855e-07	-9.423518e-04
## 2545	1.837288e+01	2.514981e+01	-1.110051e-01	-1.729304e+01	2.250458e+00

## 2546	-1.605610e-03	5.163140e-03	4.639237e-04	5.430401e-07	-5.556597e-04
## 2547	8.373526e+00	-6.431285e-01	3.424989e+00	-4.881540e+00	-2.058388e+00
## 2549	-9.169327e-03	2.948600e-02	2.649385e-03	3.020432e-06	-3.173256e-03
## 2552	2.792312e+00	3.209196e+00	-5.470566e-02	-2.502381e+00	3.719321e-01
## 2553	6.419859e+00	7.997548e+00	1.917953e+00	-3.350216e+00	-2.922863e+00
## 2554	-2.913720e-03	9.370157e-03	8.419799e-04	9.469149e-07	-1.008498e-03
## 2555	6.841831e+00	-2.920487e-02	7.871360e-01	-2.735079e+00	-1.335314e+00
## 2556	-1.712743e-05	5.342670e-05	4.851271e-06	3.497768e-07	-5.854907e-06
## 2558	-2.598939e-03	8.357538e-03	7.509515e-04	8.533868e-07	-8.994442e-04
## 2559	-9.580678e-02	2.680870e-02	1.095133e-01	-5.743560e-02	5.804209e-03
## 2560	5.692397e+00	1.537026e+00	9.702358e-01	-2.319736e+00	-1.596366e+00
## 2562	6.358260e+00	1.170619e+00	9.631338e-01	-2.588605e+00	-1.594089e+00
## 2564	1.370343e-01	-1.787837e-02	1.614113e-02	-4.944653e-02	-2.856678e-02
## 2567	2.722472e-01	1.873149e-01	-1.308259e-02	-2.182066e-01	4.238702e-02
## 2569	1.085798e-02	1.516975e-03	2.876437e-02	-2.484678e-02	-5.433421e-03
## 2570	1.079116e-02	2.009903e-02	2.636199e-04	-1.125019e-02	1.061828e-03
## 2571	4.473285e+00	2.827595e+00	-2.304012e-01	-3.534008e+00	7.086685e-01
## 2572	-1.719147e-07	6.585102e-08	1.914246e-07	-9.949538e-08	7.949440e-09
## 2573	1.559768e+00	6.012020e+00	1.002566e+00	-1.288855e+00	-1.442101e+00
## 2574	-8.387126e-05	2.592264e-04	2.388118e-05	2.549554e-06	-2.906410e-05
## 2576	-1.263539e-03	4.063112e-03	3.651113e-04	3.990746e-07	-4.372660e-04
## 2577	-2.294450e-01	9.051350e-01	7.666390e-02	-3.420437e-02	-8.764680e-02
## 2578	1.451835e-04	2.214978e-04	4.876972e-05	-8.046012e-05	-7.347887e-05
## 2579	-3.579198e-04	1.150098e-03	1.033937e-04	3.351252e-07	-1.238803e-04
## 2580	-1.829562e-01	6.070779e-01	5.533342e-02	-2.129143e-03	-6.668475e-02
## 2581	-1.369933e+00	-7.444417e-01	7.805723e-02	1.057345e+00	-2.229534e-01
## 2582	6.532434e+00	6.342340e-01	9.646026e-01	-2.530183e+00	-1.628892e+00
## 2584	-8.298211e-05	2.253647e-04	2.857460e-05	1.757068e-05	-4.007026e-05
## 2585	-4.220856e+00	1.366128e+01	1.225016e+00	-1.670738e-02	-1.465026e+00
## 2588	-1.032396e+00	-4.914550e-01	6.311735e-02	7.825503e-01	-1.714127e-01
## 2589	-1.648903e-01	-9.991076e-02	8.759267e-03	1.293814e-01	-2.633288e-02
## 2591	-2.985662e-04	-1.506154e-04	1.821275e-05	2.286629e-04	-5.006101e-05
## 2592	3.603539e-02	1.323111e-01	4.907173e-03	-5.094295e-02	3.589346e-04
## 2593	-6.160421e-02	-3.780765e-02	3.242890e-03	4.843640e-02	-9.814732e-03

## 2594	1.784973e+00	3.553655e+00	5.772230e-02	-1.907934e+00	1.644999e-01
## 2596	-1.173858e+00	-5.848576e-01	7.015766e-02	8.951262e-01	-1.936291e-01
## 2597	-1.471276e-01	4.731215e-01	4.251105e-02	4.846623e-05	-5.091690e-02
## 2598	-7.090794e-01	2.013322e+00	1.891720e-01	5.450452e-02	-2.325179e-01
## 2601	3.428369e-04	-2.579432e-05	3.735667e-05	-1.327959e-04	-6.463227e-05
## 2602	-2.483072e-04	7.981417e-04	7.172898e-05	1.581575e-07	-8.592382e-05
## 2603	2.533075e-01	1.641918e-01	-1.279530e-02	-2.009553e-01	3.993060e-02
## 2604	-5.563693e-01	1.788889e+00	1.607426e-01	2.326649e-04	-1.925328e-01
## 2605	1.451065e+00	6.271520e+00	1.019313e+00	-1.281822e+00	-1.458314e+00
## 2606	2.722421e-01	3.050247e-01	7.692794e-02	-1.379991e-01	-1.179593e-01
## 2607	3.973141e-04	-4.064064e-05	4.822410e-05	-1.446335e-04	-8.483311e-05
## 2608	-4.180150e-03	1.344230e-02	1.207833e-03	1.374051e-06	-1.446668e-03
## 2610	-3.081546e-01	1.624586e+00	1.281452e-01	-1.299335e-01	-1.375592e-01
## 2611	-1.377989e-04	3.280695e-04	3.490751e-05	2.642257e-05	-4.617267e-05
## 2612	-1.145573e+00	3.051131e-01	1.313955e+00	-6.899188e-01	7.154043e-02
## 2613	5.262493e-02	6.399036e-02	-8.143972e-04	-4.788074e-02	6.838271e-03
## 2614	3.050364e-01	1.261005e-01	5.775405e-02	-1.294178e-01	-9.340196e-02
## 2615	-9.518295e-06	-5.542708e-06	8.979363e-07	6.995464e-06	-1.445700e-06
## 2616	-3.776394e-04	-4.656729e-05	3.257929e-05	2.605164e-04	-7.157451e-05
## 2617	-2.329894e-03	7.492191e-03	6.732101e-04	8.086494e-07	-8.063397e-04
## 2619	-2.339521e-03	7.523218e-03	6.759924e-04	7.936493e-07	-8.096682e-04
## 2620	-3.272540e-01	8.746495e-02	3.752672e-01	-1.970260e-01	2.039477e-02
## 2621	-2.806330e-01	7.516219e-01	1.249396e-01	-3.069171e-02	-7.623763e-02
## 2622	8.150141e-02	-1.058276e-02	1.038992e-02	-3.000935e-02	-1.707559e-02
## 2624	-1.784151e-03	-2.761449e-03	5.115121e-04	2.401368e-03	-1.175515e-03
## 2628	-5.952696e-01	-3.653252e-01	3.133559e-02	4.680310e-01	-9.483799e-02
## 2629	-4.253505e-01	1.595413e+00	1.529067e-01	-2.643481e-02	-1.881297e-01
## 2630	-1.228549e-01	-7.535919e-02	6.469588e-03	9.658682e-02	-1.957505e-02
## 2631	1.781791e+00	4.160386e-01	2.834631e-01	-7.332107e-01	-4.662035e-01
## 2634	-4.255135e-01	-2.611356e-01	2.239995e-02	3.345585e-01	-6.779294e-02
## 2635	-1.005157e+00	3.230879e+00	2.903420e-01	6.235663e-04	-3.477881e-01
## 2636	-1.172804e+00	-7.197706e-01	6.173735e-02	9.221188e-01	-1.868503e-01
## 2637	-6.760582e-03	2.174015e-02	1.953402e-03	2.226964e-06	-2.339655e-03
## 2638	2.987573e+00	8.664561e-01	4.992504e-01	-1.246969e+00	-8.152338e-01

## 2639	-1.625451e-03	5.226934e-03	4.696572e-04	5.526663e-07	-5.625280e-04
## 2643	-7.537021e-02	-2.853442e-02	5.061075e-03	5.562288e-02	-1.287217e-02
## 2644	6.634485e+00	1.917944e+00	1.129911e+00	-2.740602e+00	-1.850467e+00
## 2645	3.332529e+00	3.469616e+00	9.067621e-01	-1.658141e+00	-1.396603e+00
## 2646	2.203594e-01	1.409565e-01	-1.124694e-02	-1.744312e-01	3.482842e-02
## 2647	8.089412e-03	9.723242e-05	1.103718e-03	-3.052791e-03	-1.893420e-03
## 2648	-7.661436e-05	2.463710e-04	2.213702e-05	2.517805e-08	-2.651425e-05
## 2649	-4.750278e-04	1.264276e-04	5.448767e-04	-2.861033e-04	2.967796e-05
## 2650	7.388985e-02	6.785371e-01	3.520318e-02	-1.880197e-01	-1.914694e-02
## 2651	-5.521015e-01	1.775406e+00	1.595245e-01	1.818501e-04	-1.910679e-01
## 2652	6.831752e-04	5.071344e-04	-3.047485e-05	-5.550944e-04	1.044337e-04
## 2653	-5.405853e-01	8.785432e-01	4.062872e-01	-1.754245e-01	-6.800236e-02
## 2654	6.617182e+00	2.151024e+00	1.163556e+00	-2.754686e+00	-1.898179e+00
## 2655	-1.082248e-03	-6.641961e-04	5.697032e-05	8.509192e-04	-1.724229e-04
## 2656	3.468388e-04	-2.962673e-05	3.889886e-05	-1.319508e-04	-6.768878e-05
## 2657	-1.522629e-03	6.789244e-03	5.741930e-04	-3.659755e-04	-6.518474e-04
## 2658	-6.628230e-01	2.131446e+00	1.915156e-01	2.199258e-04	-2.293848e-01
## 2659	-6.641803e-02	2.200801e-01	1.978460e-02	-1.068523e-03	-2.366268e-02
## 2660	-4.084405e-02	2.401246e-01	1.858440e-02	-2.222304e-02	-1.957174e-02
## 2661	1.135542e-01	9.637230e-02	-4.330600e-03	-9.475744e-02	1.678913e-02
## 2662	-2.275870e-01	2.522489e-01	3.616434e-02	9.850554e-02	-5.537225e-02
## 2663	-1.237984e+00	1.184980e+00	1.171083e+00	-5.707758e-01	-4.116629e-02
## 2665	-1.254157e-04	-7.688673e-05	6.607110e-06	9.859121e-05	-1.998519e-05
## 2667	2.786816e+01	2.024314e+01	-1.273242e+00	-2.255579e+01	4.286794e+00
## 2670	1.982740e+00	-1.175631e-01	5.786354e-01	-9.799492e-01	-4.705342e-01
## 2671	-1.740449e-03	5.596745e-03	5.028848e-04	5.880357e-07	-6.023252e-04
## 2672	-3.739387e-01	4.263833e+00	5.110001e-01	-3.581183e-01	-6.787098e-01
## 2673	1.149798e-01	-1.504483e-02	1.352184e-02	-4.147367e-02	-2.395781e-02
## 2675	-2.491314e-01	7.152876e-01	9.694264e-02	-1.743535e-02	-7.433294e-02
## 2679	-8.202597e-02	3.110426e-01	2.944879e-02	-6.102228e-03	-3.598331e-02
## 2681	-4.420583e+00	1.433612e+01	1.284735e+00	-2.332546e-02	-1.535735e+00
## 2683	-1.402394e-03	4.509516e-03	4.051983e-04	5.045645e-07	-4.853259e-04
## 2685	5.590710e+00	5.651928e+00	-1.572532e-01	-4.851472e+00	7.823867e-01
## 2687	-6.394281e+00	2.049896e+01	1.866164e+00	-1.104607e-02	-2.204075e+00

## 2688	-7.128105e-01	1.815989e+00	3.451482e-01	-9.755015e-02	-1.807870e-01
## 2690	-8.026234e-04	7.313624e-04	1.197369e-04	3.823456e-04	-1.912280e-04
## 2692	-5.223595e-04	1.679641e-03	1.509249e-04	1.994731e-07	-1.807721e-04
## 2695	-2.507064e-02	5.949765e-01	3.902795e-02	-1.054969e-01	-3.384481e-02
## 2696	-3.958171e+00	1.087999e+00	4.698442e+00	-2.504755e+00	2.260947e-01
## 2698	-4.577527e-04	8.983684e-04	9.745979e-05	1.186280e-04	-1.315500e-04
## 2700	-1.232318e-03	3.962656e-03	3.561286e-04	5.232973e-07	-4.265981e-04
## 2703	6.105672e+00	1.841259e+00	1.066060e+00	-2.510661e+00	-1.746881e+00
## 2708	-2.239672e-03	7.202177e-03	6.471368e-04	7.409783e-07	-7.751003e-04
## 2709	3.582773e-06	-3.283121e-05	-3.933241e-06	2.375110e-06	5.237503e-06
## 2710	-1.487502e-03	4.775617e-03	4.320620e-04	-1.099573e-06	-5.137075e-04
## 2713	9.133893e+00	-1.224597e+00	1.080721e+00	-3.278022e+00	-1.917404e+00
## 2714	7.114507e+00	8.340225e-01	1.036860e+00	-2.813303e+00	-1.739056e+00
## 2715	-3.434351e-01	-2.107643e-01	1.807917e-02	2.700246e-01	-5.471619e-02
## 2716	-1.713973e-03	5.511541e-03	4.952320e-04	5.943325e-07	-5.931616e-04
## 2717	3.358613e-02	2.066936e-02	-1.764460e-03	-2.641879e-02	5.348091e-03
## 2719	-4.427831e-06	1.001250e-05	1.020020e-06	8.705964e-07	-1.328909e-06
## 2721	2.966355e+01	3.930415e+01	-2.595192e-01	-2.765314e+01	3.696916e+00
## 2722	-1.140727e-04	-3.656657e-05	1.048311e-05	8.587282e-05	-2.431725e-05
## 2724	6.370962e+00	1.239147e+00	9.476086e-01	-2.634527e+00	-1.560261e+00
## 2725	3.873315e+00	-1.426940e-01	1.548211e+00	-2.233219e+00	-9.744560e-01
## 2726	-2.139148e-03	6.878940e-03	6.180913e-04	7.018744e-07	-7.403101e-04
## 2727	-1.492004e-02	-8.158183e-03	8.470172e-04	1.152598e-02	-2.425746e-03
## 2728	-1.737739e-03	5.588018e-03	5.021028e-04	5.919492e-07	-6.013901e-04
## 2729	-1.790272e-03	5.756934e-03	5.172902e-04	6.243857e-07	-6.195873e-04
## 2730	-6.616452e-05	1.666795e-04	1.627372e-05	9.480348e-06	-2.065017e-05
## 2731	-3.642203e-03	1.171471e-02	1.052769e-03	1.014404e-06	-1.261039e-03
## 2732	-1.222836e-09	3.551031e-09	4.831434e-10	-9.184842e-11	-3.722233e-10
## 2733	2.219573e-01	2.002256e-01	-7.734155e-03	-1.876500e-01	3.224010e-02
## 2734	-1.093629e+00	3.514663e+00	3.158681e-01	7.920158e-04	-3.783691e-01
## 2735	-5.603656e-04	-3.251987e-04	3.076322e-05	4.368885e-04	-9.039634e-05
## 2736	-1.330500e-06	3.783249e-07	1.519169e-06	-7.964533e-07	7.976317e-08
## 2737	-2.631279e-04	8.454394e-04	7.599889e-05	2.498156e-07	-9.105378e-05
## 2741	-1.014833e-03	2.995257e-03	2.832882e-04	6.370869e-05	-3.504802e-04

## 2742	-8.739614e-01	-4.544281e-01	5.106203e-02	6.703370e-01	-1.432348e-01
## 2743	-5.919722e-05	1.897241e-04	1.706813e-05	1.541937e-07	-2.046114e-05
## 2744	1.189268e-03	8.611186e-04	2.741087e-04	-5.474226e-04	-4.310198e-04
## 2746	-4.135053e-06	8.201451e-08	9.561003e-06	1.429703e-05	-1.794467e-05
## 2747	-2.170980e-03	6.991005e-03	6.289278e-04	3.362632e-08	-7.537435e-04
## 2749	-1.552145e-01	4.915540e-01	4.438047e-02	1.605165e-03	-5.334623e-02
## 2750	-7.027742e-04	2.259771e-03	2.030540e-04	2.683230e-07	-2.432111e-04
## 2751	2.183142e+00	6.369648e+00	1.133655e+00	-1.565142e+00	-1.650739e+00
## 2752	3.531385e-01	3.262777e-01	-1.182896e-02	-3.001380e-01	5.091805e-02
## 2754	8.197040e-01	8.746810e-01	-2.021859e-02	-7.207596e-01	1.124709e-01
## 2756	-9.761632e-05	3.227918e-04	3.250865e-05	2.946133e-06	-4.123303e-05
## 2757	-2.011341e-01	6.280063e-01	6.356911e-02	-3.756218e-03	-6.700985e-02
## 2758	9.329159e-01	-1.207129e-01	1.099034e-01	-3.366564e-01	-1.946480e-01
## 2760	-1.019114e+00	4.318219e+00	4.307571e-01	-1.224112e-01	-5.381113e-01
## 2761	4.317955e+00	9.533388e-01	7.079649e-01	-1.734824e+00	-1.172699e+00
## 2763	-4.256889e-02	1.543780e-01	1.436804e-02	-2.327351e-03	-1.743309e-02
## 2764	1.988253e-01	-2.413560e-02	2.363192e-02	-7.193430e-02	-4.176982e-02
## 2765	3.037482e+00	6.917738e+00	1.320185e+00	-1.951535e+00	-1.945661e+00
## 2767	5.138428e-01	1.672724e+00	5.672777e-02	-6.825605e-01	1.563329e-02
## 2768	-1.763296e+00	1.976030e+00	1.584262e+00	-7.542137e-01	-9.852700e-02
## 2769	-5.389436e-01	2.054051e+00	1.980296e-01	-3.730486e-02	-2.442169e-01
## 2770	-1.516724e-03	9.616160e-04	2.005319e-04	8.064226e-04	-3.389272e-04
## 2771	-5.301974e-01	-3.214851e-01	2.816193e-02	4.160543e-01	-8.465865e-02
## 2773	1.171558e+00	1.050476e+00	2.902505e-01	-5.709898e-01	-4.489400e-01
## 2774	1.061258e-03	3.124674e-03	5.596523e-04	-7.580417e-04	-8.165726e-04
## 2776	-2.426195e-03	7.802263e-03	7.011059e-04	8.179848e-07	-8.397727e-04
## 2777	2.416904e-01	-3.907472e-02	3.060936e-02	-8.231173e-02	-5.494097e-02
## 2778	-2.482040e-03	7.981134e-03	7.171744e-04	9.529489e-07	-8.590206e-04
## 2779	-5.489678e-01	1.813770e+00	1.649937e-01	-5.489541e-03	-1.986725e-01
## 2781	-7.342163e-05	2.352961e-04	2.116925e-05	1.957472e-07	-2.537853e-05
## 2782	-1.243524e+01	5.568509e+00	1.345317e+01	-6.849904e+00	4.249676e-01
## 2784	5.617100e-01	6.329618e-01	-1.178332e-02	-5.007991e-01	7.543481e-02
## 2787	-1.679981e-01	5.340302e-01	4.815911e-02	1.329535e-03	-5.783816e-02
## 2788	1.470994e+00	2.151264e+00	4.781350e-01	-8.090919e-01	-7.207742e-01

##	2790	-3.099961e-06	1.003329e-06	3.424913e-07	1.840980e-06	-6.355946e-07
##	2791	-1.303597e-02	5.605674e-03	1.433078e-02	-7.414314e-03	5.184042e-04
##	2792	-1.619024e+00	6.468346e+00	5.523930e-01	-2.499961e-01	-6.344013e-01
##	2793	-7.024910e-01	2.753292e-01	1.599118e+00	-1.027248e+00	-4.822228e-02
##	2794	-5.435399e-01	8.815003e-01	4.090523e-01	-1.767690e-01	-6.811674e-02
##	2795	-6.299824e-05	2.015815e-04	1.814699e-05	2.344568e-07	-2.176462e-05
##	2798	-1.780517e+00	4.737113e-01	2.042363e+00	-1.072403e+00	1.112602e-01
##	2799	-5.156443e+00	4.045512e+01	3.146176e+00	-5.107336e+00	-2.904997e+00
##	2800	2.175333e-02	3.824274e-01	5.332917e-02	-5.285740e-02	-7.377234e-02
##	2802	-1.120112e-06	3.221117e-07	1.277899e-06	-6.697762e-07	6.665037e-08
##	2807	-1.894773e-06	3.241310e-06	3.727072e-07	5.874095e-07	-5.189014e-07
##	2811	2.514485e+00	3.416930e-01	3.844582e-01	-9.855546e-01	-6.445612e-01
##	2812	3.625146e+00	3.059386e+00	8.921087e-01	-1.720300e+00	-1.390634e+00
##	2813	-7.280054e-04	5.715212e-04	1.021280e-04	3.646285e-04	-1.674577e-04
##	2814	-9.831830e-01	2.615863e-01	1.127777e+00	-5.921763e-01	6.143748e-02
##	2815	1.620539e+01	-1.506812e+00	1.986808e+00	-5.916833e+00	-3.487222e+00
##	2816	-1.943994e+00	1.349286e+00	1.987712e+00	-1.000750e+00	6.196277e-03
##	2817	1.849074e+01	9.644636e+00	-4.180494e-01	-1.335557e+01	1.794834e+00
##	2818	7.679394e+00	9.176420e+00	-1.288207e-01	-6.953962e+00	1.005788e+00
##	2820	3.035872e+00	1.153718e+00	5.458282e-01	-1.295901e+00	-8.821884e-01
##	2821	-4.065772e-03	1.350624e-02	1.233330e-03	-4.702137e-05	-1.487761e-03
##	2822	2.440137e-03	1.687359e-03	-1.166514e-04	-1.957404e-03	3.793412e-04
##	2823	-8.577799e-05	2.285783e-05	9.838278e-05	-5.165729e-05	5.355175e-06
##	2824	-3.468502e-04	1.115184e-03	1.002096e-04	1.563614e-07	-1.200309e-04
##	2826	-3.076864e-03	9.894484e-03	8.891735e-04	1.154442e-06	-1.065080e-03
##	2827	-1.784127e-03	5.736978e-03	5.155739e-04	7.523091e-07	-6.175844e-04
##	2828	-1.255575e+01	3.852090e+01	4.167619e+00	-3.749795e-01	-4.088249e+00
##	2829	-2.407192e-04	-1.443942e-04	1.300128e-05	1.887363e-04	-3.874498e-05
##	2831	-3.597984e-03	1.165110e-02	1.051048e-03	-7.297856e-06	-1.261168e-03
##	2832	3.782637e+01	2.097325e+01	-1.094869e+00	-2.797570e+01	4.202289e+00
##	2833	4.560937e+01	2.932059e+01	-2.318886e+00	-3.613324e+01	7.201621e+00
##	2834	-1.660631e-03	5.340070e-03	4.798217e-04	5.621860e-07	-5.747015e-04
##	2835	-1.789583e+00	5.870032e-01	3.027643e+00	-1.820308e+00	-1.742284e-03
##	2837	7.589312e+00	-9.933425e-01	8.925509e-01	-2.737369e+00	-1.581433e+00

## 2838	6.263175e-04	-1.118719e-03	-4.414061e-04	1.826729e-04	9.274625e-05
## 2839	-1.560037e-03	5.014640e-03	4.509291e-04	1.298600e-06	-5.403417e-04
## 2840	4.280064e-01	-5.597813e-02	5.034182e-02	-1.543814e-01	-8.919401e-02
## 2843	-5.002444e-07	-3.383780e-07	3.350503e-08	4.112456e-07	-9.518812e-08
## 2845	2.961704e+01	1.817658e+01	-1.559059e+00	-2.328645e+01	4.718559e+00
## 2846	3.401870e-45	-1.093946e-44	-9.829360e-46	-1.120632e-48	1.177295e-45
## 2847	5.242631e-01	6.982704e-01	-4.360860e-03	-4.894724e-01	6.515711e-02
## 2848	-7.279137e-04	2.340488e-03	2.103181e-04	3.124611e-07	-2.519201e-04
## 2850	-1.496233e-05	5.369885e-05	5.059145e-06	-6.473914e-07	-6.181722e-06
## 2852	-2.823004e-01	7.235194e-01	1.351123e-01	-3.747702e-02	-7.219031e-02
## 2853	2.730123e-03	-1.771292e-04	3.448291e-04	-1.005772e-03	-6.012827e-04
## 2855	-1.056490e-03	3.397302e-03	3.052596e-04	3.658961e-07	-3.656228e-04
## 2856	5.393464e+00	6.271130e-01	6.764557e-01	-2.269535e+00	-1.113932e+00
## 2857	8.214478e-03	-9.968817e-04	1.472576e-03	-3.348940e-03	-1.774161e-03
## 2860	-4.403722e-05	1.411375e-04	1.269642e-05	1.137371e-07	-1.521988e-05
## 2861	-3.228892e-04	-1.972909e-04	1.707982e-05	2.537295e-04	-5.153894e-05
## 2862	-6.227670e-03	8.624976e-03	1.096131e-03	2.342307e-03	-1.599665e-03
## 2864	-9.217732e-03	2.964166e-02	2.663371e-03	3.036353e-06	-3.190008e-03
## 2865	-5.185145e-04	1.667012e-03	1.498082e-04	2.658357e-07	-1.794483e-04
## 2866	-1.016760e-03	3.270480e-03	2.941676e-04	5.762280e-07	-3.525352e-04
## 2867	1.585378e+00	2.626698e+00	5.599747e-01	-9.028955e-01	-8.397732e-01
## 2868	-1.732536e-05	5.506901e-05	4.967367e-06	1.394347e-07	-5.966555e-06
## 2869	-8.522093e-04	1.209088e-02	8.254967e-04	-1.915838e-03	-7.551936e-04
## 2870	4.236881e-01	6.081712e-01	7.033249e-02	-3.148099e-01	-8.244288e-02
## 2871	-4.189284e-03	1.347199e-02	1.210519e-03	1.346499e-06	-1.449897e-03
## 2872	-3.626856e-03	5.323605e-03	6.568360e-04	1.302316e-03	-9.461273e-04
## 2873	9.285705e-01	4.569937e+00	7.274860e-01	-8.829664e-01	-1.036704e+00
## 2875	-2.181968e-01	6.871363e-01	6.214957e-02	3.052619e-03	-7.480371e-02
## 2877	9.070675e-02	5.797103e-02	-4.417945e-03	-7.203219e-02	1.438652e-02
## 2878	-5.089720e-01	1.571522e+00	1.430650e-01	1.357866e-02	-1.730095e-01
## 2879	-2.166778e+00	1.647938e+01	1.213555e+00	-1.950668e+00	-1.214772e+00
## 2880	-1.714513e-01	5.439828e-01	4.996192e-02	5.480893e-04	-5.875276e-02
## 2881	-5.010715e-01	1.611318e+00	1.447819e-01	1.609248e-04	-1.734075e-01
## 2883	-1.794700e+00	6.045454e+00	5.355123e-01	-5.564258e-02	-6.345292e-01

## 2884	-5.520154e-01	1.774589e+00	1.594734e-01	3.015890e-04	-1.910250e-01
## 2885	-1.242804e-04	3.992278e-04	3.588660e-05	1.318056e-07	-4.299533e-05
## 2887	-5.002621e-05	1.604231e-04	1.442856e-05	1.102701e-07	-1.729387e-05
## 2888	3.305585e+01	4.568982e+01	-1.725054e-01	-3.120358e+01	4.027452e+00
## 2889	-1.114174e+00	2.967652e-01	1.277937e+00	-6.710060e-01	6.957756e-02
## 2890	-8.270678e-01	2.659677e+00	2.389768e-01	2.611009e-04	-2.862293e-01
## 2891	8.092222e-03	5.392089e-03	-3.996118e-04	-6.449773e-03	1.268301e-03
## 2892	-4.936558e+00	1.587625e+01	1.426477e+00	1.293588e-03	-1.708501e+00
## 2893	-1.719147e-07	6.585102e-08	1.914246e-07	-9.949538e-08	7.949440e-09
## 2894	-7.433046e+00	2.706148e+01	2.562648e+00	-3.682729e-01	-3.137592e+00
## 2895	5.096168e+00	6.712457e+00	-4.705242e-02	-4.742583e+00	6.370782e-01
## 2896	-7.052254e-04	2.267632e-03	2.037612e-04	2.740346e-07	-2.440590e-04
## 2898	1.141192e-01	7.239042e-02	-5.861976e-03	-9.020920e-02	1.806637e-02
## 2901	2.805664e+00	2.964964e+00	7.618248e-01	-1.410410e+00	-1.169930e+00
## 2903	4.473404e-01	3.765362e+00	5.478772e-01	-6.189962e-01	-7.642791e-01
## 2904	4.745795e-01	2.413467e-01	8.114840e-02	-2.251167e-01	-1.260416e-01
## 2905	2.018048e-02	4.539571e-03	3.505848e-03	-7.882869e-03	-5.843620e-03
## 2906	-1.145576e-04	1.498034e-04	1.994255e-05	4.531409e-05	-2.960236e-05
## 2907	-6.587327e-07	1.984834e-07	7.489027e-07	-3.920502e-07	3.794216e-08
## 2908	2.735455e-02	-1.504832e-03	2.261491e-02	-2.463707e-02	-7.938070e-03
## 2909	1.457004e+00	6.986444e+00	2.994063e-01	-2.395673e+00	-6.530620e-02
## 2910	-7.494886e-01	1.636153e-01	7.793286e-02	4.613060e-01	-1.498191e-01
## 2911	3.435578e+00	5.431485e+00	1.173844e+00	-1.932832e+00	-1.763086e+00
## 2912	1.038116e+00	3.759505e+00	6.354661e-01	-8.294653e-01	-9.164697e-01
## 2913	-2.011720e-03	6.469076e-03	5.812689e-04	6.817945e-07	-6.962106e-04
## 2914	1.647623e+00	7.524621e-01	3.213901e-01	-7.073895e-01	-5.173348e-01
## 2916	9.489006e-05	3.165465e-05	3.995541e-06	-5.574042e-05	-3.452082e-06
## 2918	-1.282920e+01	3.912902e+01	4.326466e+00	-4.313871e-01	-4.145078e+00
## 2920	3.044858e-02	2.134169e-01	1.041508e-02	-6.390258e-02	-4.649108e-03
## 2921	1.905422e+01	-7.110492e-01	2.464280e+00	-7.095496e+00	-4.269253e+00
## 2922	-3.729722e-03	1.199688e-02	1.078163e-03	9.691936e-07	-1.291478e-03
## 2923	-4.416123e-04	3.207100e-03	3.719650e-04	-1.974273e-04	-4.905703e-04
## 2924	-1.951789e-04	6.244754e-04	5.632140e-05	8.675524e-07	-6.761928e-05
## 2925	-7.439259e-06	2.008046e-06	8.525022e-06	-4.474875e-06	4.608788e-07

## 2926	-2.226788e-04	-6.860720e-05	1.729669e-05	1.628496e-04	-4.136602e-05
## 2927	-6.379004e-01	2.021894e+00	1.825001e-01	6.247658e-03	-2.193261e-01
## 2928	3.105288e+00	9.104060e-01	4.790944e-01	-1.349124e+00	-7.722759e-01
## 2929	4.867909e-01	4.331499e-01	-1.733192e-02	-4.103226e-01	7.100086e-02
## 2930	7.989339e+00	-2.271609e-01	1.000581e+00	-3.036427e+00	-1.724284e+00
## 2931	1.521430e+01	1.377637e+01	-5.269611e-01	-1.287329e+01	2.207420e+00
## 2933	-1.374718e-02	4.202001e-03	1.561056e-02	-8.168777e-03	7.836300e-04
## 2934	2.928147e+00	3.329671e+00	-5.956109e-02	-2.616791e+00	3.917539e-01
## 2935	4.549294e+00	2.143058e-01	4.943002e-01	-1.921474e+00	-8.179763e-01
## 2936	-3.094052e-03	9.949726e-03	8.940119e-04	1.007130e-06	-1.070791e-03
## 2938	1.302902e+00	6.069980e-01	2.370027e-01	-5.843557e-01	-3.763037e-01
## 2939	2.218735e-01	-2.904382e-02	2.610593e-02	-8.003618e-02	-4.623380e-02
## 2940	1.698002e+00	1.667624e+00	4.138107e-01	-8.773056e-01	-6.281877e-01
## 2941	-1.798580e-03	5.783678e-03	5.196818e-04	6.081466e-07	-6.224438e-04
## 2943	-2.200898e+00	7.167768e+00	6.415522e-01	-1.773907e-02	-7.661742e-01
## 2945	1.037283e+01	-1.358030e+00	1.219863e+00	-3.741307e+00	-2.161388e+00
## 2946	7.821872e+00	6.429014e+00	1.844644e+00	-3.764335e+00	-2.862052e+00
## 2947	-2.745549e-01	7.345092e-02	3.148157e-01	-1.652836e-01	1.710070e-02
## 2948	4.094252e+01	3.315860e+01	-1.659641e+00	-3.383939e+01	6.131223e+00
## 2950	6.130618e-01	5.784740e+00	8.428493e-01	-9.090085e-01	-1.177793e+00
## 2954	-3.228885e-01	7.982770e-01	1.606337e-01	-4.603725e-02	-7.912961e-02
## 2955	7.573925e+00	1.987452e+00	1.266786e+00	-3.100635e+00	-2.082735e+00
## 2956	-4.435916e-04	-2.641196e-04	2.394135e-05	3.472205e-04	-7.123549e-05
## 2957	2.784087e-03	6.883436e-02	4.003701e-03	-1.595496e-02	-2.845349e-03
## 2959	4.631450e+00	9.857602e-01	7.335095e-01	-1.882939e+00	-1.212007e+00
## 2961	1.083227e+00	2.532898e-01	1.574871e-01	-4.645778e-01	-2.556647e-01
## 2962	1.025103e+00	3.354177e+00	5.783126e-01	-7.797230e-01	-8.368988e-01
## 2964	5.476335e+00	4.191827e-01	7.452306e-01	-2.169166e+00	-1.254624e+00
## 2965	-7.456845e-03	4.501913e-03	9.530028e-04	4.000155e-03	-1.631278e-03
## 2966	-5.572421e-06	2.536586e-06	6.774333e-07	3.179740e-06	-1.209200e-06
## 2967	1.189474e-04	2.929965e-04	9.102378e-06	-1.370179e-04	5.406519e-06
## 2968	-4.242962e-02	2.891655e-03	4.018844e-03	2.742263e-02	-8.170783e-03
## 2969	-6.547165e-04	1.590623e-03	1.580023e-04	1.066089e-04	-2.025830e-04
## 2970	-1.307054e-01	4.196190e-01	3.784487e-02	4.421521e-05	-4.516901e-02

##	2974	-9.301512e-01	3.460620e+00	3.013772e-01	-9.145049e-02	-3.516139e-01
##	2976	3.684847e+00	4.423421e-01	5.336220e-01	-1.464336e+00	-8.936664e-01
##	2977	5.215774e+00	1.263759e+00	8.514993e-01	-2.131885e+00	-1.402250e+00
##	2979	-1.701332e-02	5.471008e-02	4.915826e-03	5.604413e-06	-5.887848e-03
##	2980	-2.681786e-02	6.375503e-03	2.949463e-02	-1.457611e-02	1.399465e-03
##	2981	-5.915833e+00	2.027581e+01	1.786586e+00	-2.550283e-01	-2.108376e+00
##	2982	-3.754232e-06	1.026609e-06	4.298309e-06	-2.255545e-06	2.307484e-07
##	2985	4.818713e-03	1.394175e-02	4.242420e-04	-6.042944e-03	2.318418e-04
##	2986	-1.054311e-03	3.390036e-03	3.046373e-04	4.477827e-07	-3.648996e-04
##	2987	-5.947958e-04	-3.649868e-04	3.131430e-05	4.676496e-04	-9.476616e-05
##	2988	9.293897e+00	1.519892e+00	1.453619e+00	-3.671865e+00	-2.428404e+00
##	2989	1.934319e-01	1.434406e-01	-8.656157e-03	-1.571605e-01	2.961077e-02
##	2992	-1.260652e-03	4.048957e-03	3.656937e-04	-5.966498e-07	-4.355921e-04
##	2994	8.104101e+00	-1.286654e-01	1.096939e+00	-3.005418e+00	-1.895489e+00
##	2995	-2.317714e-01	7.453124e-01	6.696802e-02	7.634932e-05	-8.020983e-02
##	2996	5.608304e-02	-7.318586e-03	6.598611e-03	-2.023100e-02	-1.169032e-02
##	2997	2.252869e-01	-2.948617e-02	2.655748e-02	-8.130548e-02	-4.695069e-02
##	2998	1.547265e-04	7.677230e-03	4.629711e-04	-1.673682e-03	-3.511842e-04
##		[,36]	[,37]	[,38]	[,39]	[,40]
##	3	-2.556752e+00	2.583111e+00	-1.019328e+00	-4.875237e-01	7.430440e-01
##	4	-2.378893e-04	2.148244e-04	-9.413417e-05	-4.026548e-05	7.114326e-05
##	6	-9.354546e-04	8.457468e-04	-3.676412e-04	-1.781777e-04	2.890983e-04
##	7	-5.690924e+00	5.182247e+00	-2.253110e+00	-9.718994e-01	1.698603e+00
##	8	-1.374942e-06	-2.366694e-08	-5.096217e-07	2.151090e-08	5.082631e-07
##	9	-1.314257e-03	1.187003e-03	-5.200625e-04	-2.224900e-04	3.930329e-04
##	10	-6.131187e-05	5.484758e-05	-2.425852e-05	-1.024594e-05	1.833259e-05
##	11	-1.617671e-03	1.461102e-03	-6.400459e-04	-2.744803e-04	4.840681e-04
##	13	-5.968861e-01	-1.663441e-01	-2.166128e-01	3.978561e-02	2.340595e-01
##	15	1.356427e-01	-2.107145e-02	3.106548e-01	-1.998461e+00	9.106296e-01
##	16	2.676057e-02	-9.520720e-03	4.754810e-02	-2.862008e-01	1.287993e-01
##	18	-5.083725e-01	4.591495e-01	-2.011662e-01	-8.606502e-02	1.520348e-01
##	21	-1.485208e-05	7.567075e-06	-5.799135e-06	-1.141184e-06	4.576876e-06
##	22	5.496293e-02	5.813330e-02	-1.005609e-02	5.812351e-02	-1.360366e-01
##	23	-3.044745e-01	1.546498e+00	-4.957219e-01	5.244224e-01	-1.319979e+00

## 24	-1.560499e-05	1.370199e-05	-6.166614e-06	-2.557475e-06	4.688091e-06
## 25	-4.506548e-04	7.363450e-04	6.534258e-04	-6.619027e-03	3.213486e-03
## 26	-2.410320e-04	2.175650e-04	-9.537952e-05	-4.076708e-05	7.207359e-05
## 27	8.084744e-03	9.484875e-03	2.732690e-03	-1.981225e-03	-3.742084e-03
## 28	8.931967e+00	7.804745e+00	3.093897e+00	-1.656504e+00	-3.921237e+00
## 29	-1.212550e-01	1.094231e-01	-4.792783e-02	-2.090280e-02	3.645835e-02
## 30	-1.892220e-03	-4.100898e-04	-6.899773e-04	1.027863e-04	7.326651e-04
## 31	-1.956913e-01	1.789281e-01	-7.189768e-02	-7.669537e-02	7.902460e-02
## 32	-5.045342e-01	1.157407e+00	-4.066106e-01	2.321459e-01	-6.273572e-01
## 35	-5.845177e-01	5.279332e-01	-2.312977e-01	-9.895835e-02	1.748062e-01
## 36	-1.006268e+00	9.122641e-01	-3.991930e-01	-1.688161e-01	2.971520e-01
## 38	-4.365963e-05	3.323887e-05	-1.710450e-05	-6.154896e-06	1.354467e-05
## 39	1.596119e-01	7.766445e-02	6.229920e-01	-4.376799e+00	2.024476e+00
## 40	1.484685e+01	5.948493e+00	5.337727e+00	-1.351135e+00	-5.964591e+00
## 41	9.491062e-02	9.066937e-02	-3.141240e-03	1.416374e-02	-1.820217e-01
## 44	-3.108822e-03	1.414584e-03	-1.191555e-03	-2.480568e-04	1.039284e-03
## 45	-2.989650e-04	2.699932e-04	-1.183024e-04	-5.060674e-05	8.940829e-05
## 47	-1.383984e-02	1.250007e-02	-5.476520e-03	-2.343073e-03	4.138949e-03
## 49	-1.071413e-01	9.481629e-02	-4.233861e-02	-1.777781e-02	3.220936e-02
## 50	-1.946370e-01	1.912447e-01	-3.763896e-02	-3.426662e-01	2.039699e-01
## 52	-3.513662e-01	3.502915e-01	-1.483236e-01	-4.562772e-02	7.020441e-02
## 53	1.477761e-07	-4.890974e-08	2.717667e-07	-1.652838e-06	7.452981e-07
## 55	-4.759087e-04	4.297807e-04	-1.883216e-04	-8.055254e-05	1.423191e-04
## 56	-1.687766e-01	1.469709e+00	-4.505580e-01	5.559852e-01	-1.392170e+00
## 57	-5.584006e-01	4.966274e-01	-2.208071e-01	-9.285370e-02	1.673783e-01
## 58	-4.436951e-06	3.560686e-06	-1.744422e-06	-6.593239e-07	1.357898e-06
## 59	1.169996e+01	4.745068e+00	4.204765e+00	-1.076211e+00	-4.704877e+00
## 60	-2.685585e-01	1.360401e+00	-4.318231e-01	4.503051e-01	-1.143465e+00
## 63	-1.732715e-01	1.883129e-01	1.182029e-02	-6.616556e-01	3.493615e-01
## 65	-2.051908e-04	-5.370621e-06	-7.593130e-05	3.402632e-06	7.627183e-05
## 66	-5.101425e-04	3.506796e-04	-1.989241e-04	-6.411601e-05	1.607989e-04
## 67	1.276625e-01	2.340773e-01	-5.258812e-02	1.798706e-01	-4.258908e-01
## 69	2.216421e+01	7.860114e+00	7.996774e+00	-1.813400e+00	-8.823921e+00
## 71	1.733557e+00	2.100781e+00	5.842053e-01	-4.384725e-01	-8.072315e-01

## 76	-4.378296e-04	3.953547e-04	-1.732549e-04	-7.409329e-05	1.309245e-04
## 77	-2.556680e-03	2.309168e-03	-1.011716e-03	-4.327901e-04	7.645215e-04
## 78	-5.485011e-01	9.312555e-01	-3.456878e-01	1.046111e-01	-3.197075e-01
## 79	-8.700935e-02	1.667228e+00	-5.032616e-01	7.048956e-01	-1.736954e+00
## 80	-6.506667e-04	5.875275e-04	-2.575221e-04	-1.099978e-04	1.943962e-04
## 81	-1.089621e-03	9.841773e-04	-4.312066e-04	-1.843937e-04	3.257242e-04
## 82	-3.542479e-02	-8.940700e-03	-1.288168e-02	2.175226e-03	1.381790e-02
## 83	1.729980e-03	8.511552e-04	6.174515e-04	-1.886841e-04	-7.079250e-04
## 87	1.823349e+01	9.072816e+00	6.506238e+00	-2.012202e+00	-7.464317e+00
## 90	-1.625802e-03	1.468401e-03	-6.433417e-04	-2.752409e-04	4.862092e-04
## 93	-1.674867e-03	1.512718e-03	-6.627574e-04	-2.835476e-04	5.008823e-04
## 94	-6.506014e-03	5.876197e-03	-2.574474e-03	-1.101463e-03	1.945692e-03
## 95	-6.990667e-05	6.304088e-05	-2.766097e-05	-1.181268e-05	2.090965e-05
## 96	-1.851309e-01	1.888298e-01	-1.857871e-02	-4.614465e-01	2.577570e-01
## 97	4.030443e-02	2.392387e-02	1.427436e-02	-5.220146e-03	-1.680444e-02
## 98	-1.537896e-01	-4.272169e-02	-5.581479e-02	1.022346e-02	6.029536e-02
## 99	1.649771e-02	2.637189e-02	5.380155e-03	-5.440340e-03	-8.194144e-03
## 100	-3.155597e-04	1.473209e-04	-1.233416e-04	-2.033536e-05	9.636874e-05
## 102	-6.731752e+00	8.765625e+00	-3.449837e+00	6.094027e-02	-9.419557e-01
## 103	1.064544e-02	1.055697e-02	-9.174121e-04	5.011224e-03	-2.251722e-02
## 104	5.486070e-08	-1.590207e-08	1.065605e-07	-6.582130e-07	2.976705e-07
## 105	5.895584e-04	6.203012e-04	-1.051218e-04	6.176339e-04	-1.448701e-03
## 106	6.333793e+00	2.148024e+00	2.287937e+00	-4.986204e-01	-2.513849e+00
## 107	1.565329e-01	4.362371e-02	5.680652e-02	-1.043377e-02	-6.138192e-02
## 108	2.645903e+00	1.684616e+00	9.339190e-01	-3.654683e-01	-1.112153e+00
## 109	2.228417e+01	8.238183e+00	8.030743e+00	-1.890198e+00	-8.898106e+00
## 110	-2.512041e-01	4.150430e-01	-2.309397e-01	2.282397e-01	-4.267816e-01
## 111	1.157560e+00	1.455604e+00	-2.307180e-01	1.208491e+00	-2.931487e+00
## 112	-1.007274e-03	9.095586e-04	-3.987590e-04	-1.700509e-04	3.005589e-04
## 113	-5.559175e-01	-1.549143e-01	-2.017454e-01	3.705238e-02	2.179933e-01
## 115	5.070694e-01	8.646135e-01	1.639344e-01	-1.781791e-01	-2.558337e-01
## 118	2.675321e-01	9.046667e-01	-2.106216e-01	5.113230e-01	-1.268021e+00
## 119	-5.300643e-01	4.787416e-01	-2.097499e-01	-8.973747e-02	1.585220e-01
## 120	-3.297079e-03	-8.822165e-04	-1.197542e-03	2.124539e-04	1.290013e-03

## 121	1.228635e-01	1.294802e-01	-2.095958e-02	1.197697e-01	-2.984527e-01
## 122	9.148309e-01	4.083785e+00	-1.084790e+00	2.373595e+00	-5.713848e+00
## 124	-1.342941e-03	1.212883e-03	-5.314109e-04	-2.273446e-04	4.016198e-04
## 125	-4.242577e+00	4.590780e+00	-1.700283e+00	-8.691411e-01	1.207455e+00
## 126	-1.229115e-03	1.110117e-03	-4.863698e-04	-2.080835e-04	3.675776e-04
## 127	-6.072681e-01	5.484798e-01	-2.403001e-01	-1.028097e-01	1.816100e-01
## 128	-4.432306e+00	1.078632e+01	-1.942912e+00	-2.102731e+00	7.884297e-01
## 130	-2.762692e-01	-2.197235e-02	-1.017864e-01	7.430410e-03	1.040018e-01
## 131	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
## 133	-3.039497e-06	-3.070412e-07	-1.121180e-06	1.024611e-07	1.137239e-06
## 134	-1.213859e-05	1.269055e-04	-3.901862e-05	5.046244e-05	-1.250316e-04
## 135	-7.898302e-04	8.071707e-04	-7.454635e-05	-2.005658e-03	1.117129e-03
## 136	3.423781e-02	4.052312e-01	1.430673e-03	-8.124873e-02	-4.463419e-02
## 137	3.071148e-02	1.726557e-02	1.147226e-01	-8.034992e-01	3.705780e-01
## 138	-2.797388e-03	2.412038e-03	-1.104122e-03	-4.498595e-04	8.442390e-04
## 141	-7.395998e-04	6.679811e-04	-2.926651e-04	-1.252069e-04	2.211829e-04
## 143	-4.988683e-05	4.499115e-05	-1.973922e-05	-8.431329e-06	1.492248e-05
## 144	-4.462410e-01	-5.817167e-02	-1.637800e-01	1.653001e-02	1.697739e-01
## 146	-9.138638e-04	8.253791e-04	-3.616226e-04	-1.547105e-04	2.732983e-04
## 147	-1.722538e+00	4.127003e+00	-7.534799e-01	-8.037379e-01	3.107383e-01
## 148	-3.245395e-04	-1.441795e-05	-1.202479e-04	7.335021e-06	1.198842e-04
## 149	2.158725e+01	6.016324e+00	7.834108e+00	-1.438954e+00	-8.465121e+00
## 150	7.186967e-01	1.550999e+00	-3.470436e-01	1.074716e+00	-2.587654e+00
## 151	-2.974153e-04	-8.240518e-05	-1.079535e-04	1.974485e-05	1.165629e-04
## 153	-4.941895e-04	4.463140e-04	-1.955532e-04	-8.365882e-05	1.477954e-04
## 154	-7.693315e-05	-9.039182e-06	-2.828221e-05	2.697689e-06	2.911970e-05
## 155	-5.602988e-05	-1.231880e-05	-2.042498e-05	3.076671e-06	2.171168e-05
## 157	-4.165327e+00	3.836952e+00	-1.650329e+00	-7.201215e-01	1.239777e+00
## 158	5.854778e+00	1.631662e+00	2.124726e+00	-3.902549e-01	-2.295860e+00
## 159	-1.106280e+01	1.002724e+01	-4.292081e+00	-2.546458e+00	3.625124e+00
## 162	-1.650792e+00	1.492988e+00	-6.532853e-01	-2.798772e-01	4.935287e-01
## 163	-2.708812e-03	1.379863e-03	-1.042314e-03	-2.455754e-04	8.940078e-04
## 164	-3.827357e-03	3.526484e-03	-1.536340e-03	-6.133044e-04	1.062405e-03
## 165	5.491684e-02	-3.805186e-03	1.372685e-01	-8.995635e-01	4.112368e-01

## 166	-3.735166e-02	3.373584e-02	-1.478031e-02	-6.323597e-03	1.117039e-02
## 167	1.912098e-01	4.825616e-01	5.746960e-02	-9.842925e-02	-1.088131e-01
## 168	-5.628775e-01	5.271179e-01	-1.754795e-01	-4.670198e-01	3.432480e-01
## 169	3.274064e-02	-1.166612e-02	5.812843e-02	-3.498026e-01	1.574148e-01
## 171	3.925382e-01	8.117582e-01	-1.548452e-01	5.117353e-01	-1.280505e+00
## 172	-1.641583e-01	1.449280e-01	-6.486589e-02	-2.712529e-02	4.935619e-02
## 174	2.465486e-02	1.091132e-02	8.835032e-03	-2.449527e-03	-9.986948e-03
## 175	-2.301620e-04	-5.061224e-05	-8.403878e-05	1.297307e-05	8.866298e-05
## 176	9.318771e-01	-3.052579e-01	1.609844e+00	-9.679542e+00	4.314511e+00
## 177	1.275720e+00	1.681081e+00	-3.265246e-01	1.464834e+00	-3.507891e+00
## 178	-1.679521e-01	2.336387e-01	-6.879006e-02	-4.465747e-02	4.355898e-02
## 179	-5.914102e+00	5.343396e+00	-2.335952e+00	-1.035115e+00	1.784590e+00
## 180	9.617395e-01	5.557445e-01	3.410338e-01	-1.215452e-01	-3.997913e-01
## 182	1.746887e+00	5.767466e-01	6.314575e-01	-1.343884e-01	-6.920971e-01
## 183	-1.036728e-01	-1.638898e-02	-3.797038e-02	4.414158e-03	3.966904e-02
## 185	-5.197313e-05	-1.446614e-05	-1.886706e-05	3.473539e-06	2.035870e-05
## 186	6.899369e-02	7.299628e-02	-1.262994e-02	7.297152e-02	-1.707890e-01
## 188	-1.024105e-03	1.673736e-03	-4.277122e-04	-3.187532e-04	2.408046e-04
## 189	-3.890324e-02	-9.122048e-03	-1.416590e-02	2.249769e-03	1.511986e-02
## 190	-1.369666e-01	1.237389e-01	-5.407463e-02	-2.415692e-02	4.141973e-02
## 192	-4.287917e-01	-7.851879e-02	-1.567479e-01	2.039993e-02	1.649168e-01
## 194	5.803405e-05	-5.243542e-05	2.291529e-05	1.021204e-05	-1.753773e-05
## 195	-2.320030e-01	2.095438e-01	-9.180516e-02	-3.927791e-02	6.938292e-02
## 196	-1.574460e-03	1.421967e-03	-6.230262e-04	-2.665302e-04	4.708502e-04
## 197	7.530539e-09	-2.893129e-10	1.934952e-08	-1.275346e-07	5.833952e-08
## 199	2.014704e-03	3.904477e-03	6.383212e-04	-8.015972e-04	-1.053459e-03
## 200	1.588374e-01	1.680124e-01	-2.906495e-02	1.679772e-01	-3.931467e-01
## 201	-4.193132e-03	2.589279e-03	-1.626018e-03	-4.706980e-04	1.348281e-03
## 203	1.575544e-02	4.660654e-03	5.710203e-03	-1.103974e-03	-6.199622e-03
## 204	-3.053494e-05	2.745808e-05	-1.208033e-05	-5.143449e-06	9.138233e-06
## 208	-8.949249e-01	8.244538e-01	-3.588981e-01	-1.441878e-01	2.496991e-01
## 209	-1.604341e-01	1.443653e-01	-6.275851e-02	-3.253375e-02	5.064847e-02
## 210	-5.282446e-04	3.311990e-04	-2.049804e-04	-6.030166e-05	1.694674e-04
## 211	1.646943e-01	-4.745651e-02	3.210912e-01	-1.985224e+00	8.980292e-01

## 212	-8.113143e-05	3.420876e-05	-3.101994e-05	-5.935682e-06	2.733989e-05
## 214	1.413314e-02	1.635458e-02	4.783725e-03	-3.419165e-03	-6.522413e-03
## 215	-1.870226e-02	4.169357e-03	-7.047463e-03	-6.267372e-04	6.595190e-03
## 219	1.504581e-06	-5.342762e-07	2.675853e-06	-1.611113e-05	7.250905e-06
## 220	-8.469907e-04	7.651955e-04	-3.352343e-04	-1.432665e-04	2.530206e-04
## 222	1.377421e+00	8.067365e-01	4.881355e-01	-1.762331e-01	-5.734385e-01
## 223	2.666247e-05	2.325031e-05	6.036791e-07	1.613805e-05	-4.499213e-05
## 224	-4.668321e-01	-3.785978e-02	-1.719756e-01	1.270174e-02	1.757969e-01
## 226	-3.207577e-03	1.923323e-03	-1.242361e-03	-3.483302e-04	1.035455e-03
## 228	2.475831e-01	1.887550e+00	-5.163384e-01	9.769330e-01	-2.383229e+00
## 230	9.294718e-01	1.553789e+00	-3.383656e-01	1.240616e+00	-2.933405e+00
## 231	-5.709053e-01	9.801080e-01	-3.629819e-01	1.137402e-01	-3.447003e-01
## 232	-5.629909e+00	5.116342e+00	-2.228668e+00	-9.594107e-01	1.681200e+00
## 233	2.035792e-01	7.627552e-02	7.370069e-01	-5.129390e+00	2.368954e+00
## 235	-6.156577e-02	-1.461997e-02	-2.241293e-02	3.597074e-03	2.394221e-02
## 237	-4.741224e-05	-1.319328e-05	-1.721287e-05	3.171430e-06	1.856651e-05
## 238	-2.757473e-03	1.915197e-03	-1.075259e-03	-3.517897e-04	8.696657e-04
## 239	7.685094e-06	-2.748504e-06	1.361865e-05	-8.190627e-05	3.685452e-05
## 242	-1.048475e-06	-2.490612e-07	-4.106794e-07	1.320289e-07	2.959722e-07
## 244	-1.516857e-03	1.370006e-03	-6.002314e-04	-2.567984e-04	4.536297e-04
## 246	-4.415808e-05	1.623882e-05	-2.036102e-05	5.894451e-06	1.403228e-06
## 247	1.559186e+00	1.648915e+00	-2.852096e-01	1.648752e+00	-3.858850e+00
## 248	-4.726963e-01	8.773745e-01	-3.199806e-01	1.240147e-01	-3.585053e-01
## 249	3.243224e-01	2.496368e-02	9.304569e-01	-6.254852e+00	2.872043e+00
## 250	-4.223047e-03	-7.687349e-04	-1.543892e-03	1.999967e-04	1.623859e-03
## 252	-5.298469e+00	4.801544e+00	-2.097085e+00	-9.002177e-01	1.583300e+00
## 253	6.860347e-01	-1.264927e-01	1.515663e+00	-9.671139e+00	4.400200e+00
## 254	6.816121e-08	-2.059010e-08	1.303066e-07	-8.013539e-07	3.621077e-07
## 255	3.177430e+00	1.140203e+00	1.146035e+00	-2.626391e-01	-1.266039e+00
## 256	7.355999e-01	1.559724e+00	-3.380490e-01	1.065533e+00	-2.583139e+00
## 258	-1.510614e-01	1.984992e-01	9.684749e-02	-1.257628e+00	6.249156e-01
## 259	1.251974e-07	-4.082918e-08	2.317823e-07	-1.412402e-06	6.371199e-07
## 260	1.412909e+00	4.480233e-01	5.112450e-01	-1.050105e-01	-5.583250e-01
## 261	-5.998703e-01	6.669607e-01	-2.412950e-01	-1.254504e-01	1.678116e-01

## 266	1.551991e-01	-1.401750e-01	6.141335e-02	2.627508e-02	-4.641392e-02
## 267	-2.430910e-02	1.207235e-01	-3.869023e-02	4.007424e-02	-1.020513e-01
## 268	-3.405468e-10	3.550096e-10	-1.484712e-10	-3.820365e-11	5.025764e-11
## 269	3.933784e-03	-1.324128e-03	7.179785e-03	-4.356788e-02	1.963760e-02
## 270	1.383314e-06	-1.247504e-06	5.476808e-07	2.329690e-07	-4.125073e-07
## 271	1.430963e-02	9.866068e-03	5.029849e-03	-2.127252e-03	-6.074359e-03
## 273	-8.217673e-04	7.421043e-04	-3.251928e-04	-1.390609e-04	2.457016e-04
## 274	-4.041218e-04	3.649231e-04	-1.599154e-04	-6.839273e-05	1.208483e-04
## 275	3.963676e+00	1.321488e+00	1.432417e+00	-3.074930e-01	-1.571376e+00
## 276	-2.057772e-03	1.858633e-03	-8.143011e-04	-3.483318e-04	6.152982e-04
## 277	-7.830115e-03	-2.182148e-03	-2.841585e-03	5.219189e-04	3.070457e-03
## 278	-5.031087e-04	4.532226e-04	-1.990511e-04	-8.493905e-05	1.505515e-04
## 279	-1.542457e-03	1.393128e-03	-6.103614e-04	-2.611322e-04	4.612853e-04
## 280	-1.647805e-03	1.488275e-03	-6.520485e-04	-2.789663e-04	4.927894e-04
## 281	-4.309499e-01	-1.201000e-01	-1.563938e-01	2.872511e-02	1.689902e-01
## 283	-2.796606e-04	2.525184e-04	-1.106639e-04	-4.732690e-05	8.363221e-05
## 284	4.302657e-05	1.071061e-04	3.852877e-04	-2.889600e-03	1.350248e-03
## 286	-2.025446e-01	1.862517e-01	-7.176505e-02	-1.002350e-01	9.160319e-02
## 287	1.118315e-04	7.859133e-04	1.942545e-05	-1.576185e-04	-1.041046e-04
## 288	-1.392225e-03	1.257594e-03	-5.505526e-04	-2.385387e-04	4.176937e-04
## 289	-2.967473e-04	2.679128e-04	-1.174266e-04	-5.020634e-05	8.873617e-05
## 292	-2.290912e-04	2.243046e-04	-1.073805e-04	-2.603099e-06	4.499419e-06
## 295	-6.583783e-04	-1.834812e-04	-2.389286e-04	4.388451e-05	2.581725e-04
## 296	-8.716213e-04	8.402976e-04	-2.099421e-04	-1.209065e-03	7.602256e-04
## 297	-1.211490e-03	1.258572e-03	-5.388675e-04	-1.038805e-04	1.376198e-04
## 298	-1.732419e-02	1.564712e-02	-6.855301e-03	-2.932971e-03	5.180981e-03
## 299	6.659133e-01	3.973585e+00	-1.084622e+00	2.180190e+00	-5.268405e+00
## 300	-1.756899e-03	1.586764e-03	-6.952187e-04	-2.974215e-04	5.254099e-04
## 301	-1.837177e-01	1.655961e-01	-7.019974e-02	-5.020956e-02	6.415974e-02
## 302	2.514243e+00	7.227377e-01	9.118185e-01	-1.719902e-01	-9.876574e-01
## 303	-9.836668e-05	8.878970e-05	-3.892351e-05	-1.664092e-05	2.941938e-05
## 305	1.785510e+00	2.479790e-01	1.964589e+00	-1.187233e+01	4.101493e+00
## 306	1.167466e-01	3.803951e-02	4.221508e-02	-8.880453e-03	-4.621396e-02
## 308	-2.266255e-03	2.046848e-03	-8.967827e-04	-3.836451e-04	6.777087e-04

## 310	6.626663e-02	6.090446e-01	-1.711776e-01	3.142108e-01	-7.621123e-01
## 311	7.707374e-01	1.488503e+00	-3.397094e-01	1.119978e+00	-2.654785e+00
## 312	-4.828210e-04	4.359349e-04	-1.910641e-04	-8.168135e-05	1.443559e-04
## 314	2.357443e-02	1.462455e-02	8.331676e-03	-3.179313e-03	-9.878822e-03
## 315	-8.232811e-05	5.339035e-05	-3.226585e-05	-9.092897e-06	2.523115e-05
## 316	-7.168499e-04	4.569453e-04	-2.801202e-04	-7.906794e-05	2.226542e-04
## 317	-5.078973e-04	4.587046e-04	-2.009786e-04	-8.597934e-05	1.518906e-04
## 318	3.227311e-07	-1.113286e-07	5.821868e-07	-3.520501e-06	1.585734e-06
## 320	2.168956e+00	3.303414e+00	-6.876009e-01	2.733547e+00	-6.461001e+00
## 321	-5.082247e-04	4.580412e-04	-2.010811e-04	-8.584466e-05	1.520658e-04
## 322	6.653425e-01	3.799595e-01	2.360563e-01	-8.318577e-02	-2.762250e-01
## 323	-9.412310e-04	8.259577e-04	-3.798716e-04	-1.347780e-04	2.521891e-04
## 324	1.889075e-01	5.264602e-02	6.855542e-02	-1.259170e-02	-7.407711e-02
## 325	2.703731e-01	7.372244e-01	-1.714573e-01	4.630346e-01	-1.126843e+00
## 328	-5.641668e-01	-1.572258e-01	-2.047388e-01	3.760472e-02	2.212292e-01
## 329	3.707831e+00	1.288551e+00	1.336956e+00	-2.943183e-01	-1.480043e+00
## 330	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
## 332	-1.460342e-01	1.772600e+00	-5.419910e-01	7.185074e-01	-1.777111e+00
## 334	-2.887580e+00	4.703394e+00	-1.200531e+00	-9.098932e-01	6.994860e-01
## 335	2.604996e-02	3.610054e-02	8.652805e-03	-7.493266e-03	-1.248783e-02
## 336	1.742410e-01	2.426502e+00	4.544226e-03	-5.428482e-01	-2.286099e-01
## 338	6.877030e-01	1.306672e+00	-2.509197e-01	8.777094e-01	-2.168121e+00
## 340	-9.394230e-04	8.498311e-04	-3.679511e-04	-1.887644e-04	2.949507e-04
## 341	1.769684e+00	1.012467e+00	8.611173e-01	-5.226366e+00	2.649047e-02
## 342	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 344	3.107290e-01	8.966164e-02	1.126799e-01	-2.132365e-02	-1.220891e-01
## 345	-2.817091e-03	2.544402e-03	-1.114782e-03	-4.768401e-04	8.423288e-04
## 346	-1.126475e-03	1.027549e-03	-4.508454e-04	-1.809898e-04	3.175371e-04
## 349	2.661011e-01	1.321964e-01	9.495840e-02	-2.932352e-02	-1.089184e-01
## 351	2.523670e-01	6.984535e-02	9.265846e-02	-2.488791e-02	-9.501051e-02
## 352	-8.097495e-01	7.314993e-01	-3.204273e-01	-1.371173e-01	2.421530e-01
## 353	-2.494331e-03	2.252854e-03	-9.870548e-04	-4.222096e-04	7.458367e-04
## 354	-7.878037e-03	-3.402308e-04	-2.910468e-03	1.547196e-04	2.943144e-03
## 358	-5.357686e-01	4.909583e-01	-1.939914e-01	-2.323904e-01	2.269109e-01

## 359	1.840370e+00	1.912149e+00	-1.757925e-01	8.445036e-01	-3.957843e+00
## 361	4.912964e-05	5.567589e-05	-8.892297e-06	5.072653e-05	-1.211216e-04
## 362	8.694955e-02	3.380041e-01	2.283924e-02	-6.842193e-02	-5.883132e-02
## 364	-4.752976e-02	4.398198e-02	-1.883854e-02	-8.253489e-03	1.412571e-02
## 367	-4.369336e-04	2.303915e-05	-1.629550e-04	1.119267e-06	1.585034e-04
## 368	-9.597822e-01	1.683319e+00	-6.032915e-01	1.647587e-01	-5.517327e-01
## 370	-8.483124e-05	7.656384e-05	-3.356735e-05	-1.434939e-05	2.537176e-05
## 372	3.167150e+00	2.818173e+00	1.095642e+00	-5.974925e-01	-1.394420e+00
## 373	-9.316982e-04	1.123157e-03	-4.550948e-04	-2.210734e-05	-4.663504e-05
## 375	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
## 377	2.214410e-03	1.497971e-02	4.035913e-04	-3.011560e-03	-2.004831e-03
## 378	-1.484990e-01	3.003350e-01	5.326397e-01	-4.649541e+00	2.231844e+00
## 379	-6.438533e-04	5.814946e-04	-2.547778e-04	-1.089942e-04	1.925478e-04
## 380	-7.485146e-04	6.759810e-04	-2.961974e-04	-1.266909e-04	2.238295e-04
## 381	-1.277340e-01	-3.550102e-02	-4.635796e-02	8.494849e-03	5.008125e-02
## 382	7.170712e-01	7.583147e-01	-1.311614e-01	7.582524e-01	-1.774663e+00
## 383	-4.688532e-01	5.471522e-01	-2.212130e-01	-2.534329e-02	6.106913e-03
## 386	-2.526339e-01	1.596929e+00	-5.039088e-01	5.772525e-01	-1.443407e+00
## 388	7.615842e-01	-1.634139e-01	1.624773e+00	-1.028144e+01	4.670816e+00
## 389	1.140552e-01	-4.082198e-02	2.020372e-01	-1.214962e+00	5.466714e-01
## 391	-4.262364e-01	4.462319e-01	6.754857e-02	-1.917548e+00	1.001023e+00
## 392	-2.839953e-01	-2.701315e-02	-1.045101e-01	8.521894e-03	1.072588e-01
## 393	4.654254e-02	1.303439e-01	4.534239e-01	-3.414029e+00	1.596251e+00
## 395	-2.286396e-02	6.858040e-01	-1.895064e-01	2.587726e-01	-6.702360e-01
## 396	6.169659e-01	-1.796535e-01	1.196879e+00	-7.390146e+00	3.342046e+00
## 397	-7.077983e-01	1.215567e+00	-4.501553e-01	1.412278e-01	-4.278682e-01
## 398	-8.548452e-02	-2.372545e-02	-3.102550e-02	5.678553e-03	3.351353e-02
## 402	-9.482377e-04	8.390052e-04	-3.810806e-04	-1.415777e-04	2.605042e-04
## 403	-1.079521e-03	2.406241e-03	-4.686033e-04	-4.643290e-04	2.035497e-04
## 404	-3.280937e-03	2.963343e-03	-1.298444e-03	-5.550881e-04	9.806038e-04
## 405	-2.778175e-01	-6.084449e-02	-1.012814e-01	1.520803e-02	1.076361e-01
## 406	-1.195648e+00	1.080053e+00	-4.731306e-01	-2.024517e-01	3.575588e-01
## 407	-1.464216e-03	1.322458e-03	-5.794010e-04	-2.478849e-04	4.378857e-04
## 408	-6.438533e-04	5.814946e-04	-2.547778e-04	-1.089942e-04	1.925478e-04

## 410	-7.688370e-04	6.395446e-04	-3.026953e-04	-1.193333e-04	2.343084e-04
## 411	-4.785616e-04	4.322118e-04	-1.893702e-04	-8.101389e-05	1.431180e-04
## 412	1.430963e-02	9.866068e-03	5.029849e-03	-2.127252e-03	-6.074359e-03
## 414	-1.750812e-03	1.581337e-03	-6.927779e-04	-2.966517e-04	5.237117e-04
## 415	-1.591717e+00	3.606782e+00	-1.269919e+00	7.129090e-01	-1.930851e+00
## 416	6.879243e-02	2.382037e-02	2.483600e-02	-5.513322e-03	-2.734224e-02
## 417	-1.912658e-01	1.912182e-01	-2.860628e-02	-4.026421e-01	2.314573e-01
## 418	6.612515e+00	2.494039e+00	2.381636e+00	-5.707642e-01	-2.644288e+00
## 419	-1.527978e-03	1.380010e-03	-6.046451e-04	-2.586376e-04	4.569026e-04
## 420	-9.164093e-05	-1.815937e-05	-3.379433e-05	5.446890e-06	3.407187e-05
## 421	-5.398954e-04	4.876096e-04	-2.136404e-04	-9.139791e-05	1.614603e-04
## 422	-2.274012e-03	2.053764e-03	-8.998535e-04	-3.849311e-04	6.800205e-04
## 423	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
## 424	4.832366e-02	1.190158e-01	4.296330e-01	-3.221032e+00	1.505047e+00
## 425	1.297024e-05	1.410294e-05	2.416157e-06	1.920414e-06	-1.362333e-05
## 426	-2.796146e-04	2.524572e-04	-1.106449e-04	-4.731600e-05	8.362126e-05
## 428	-4.985770e-01	4.494078e-01	-1.972633e-01	-8.424323e-02	1.491831e-01
## 429	-6.011853e-01	5.429562e-01	-2.378923e-01	-1.017740e-01	1.797932e-01
## 430	-9.691281e-02	1.538899e-01	-5.791674e-02	1.354063e-02	-4.459949e-02
## 431	-7.433412e-05	6.698225e-05	-2.941253e-05	-1.254786e-05	2.223365e-05
## 434	-2.172132e-05	-6.050128e-06	-7.882868e-06	1.447195e-06	8.517392e-06
## 435	1.821694e-01	7.591708e-01	-1.547563e-01	3.375707e-01	-9.031035e-01
## 436	2.651681e+00	1.809592e+00	9.871292e-01	-6.136697e+00	-1.088878e+00
## 437	-1.135622e-01	2.516284e+00	-7.569088e-01	1.073287e+00	-2.643274e+00
## 438	1.139575e-01	4.881628e-02	4.088224e-02	-1.100124e-02	-4.603015e-02
## 439	-9.477843e-02	2.756819e+00	-8.195728e-01	1.178720e+00	-2.911917e+00
## 442	-1.867887e-06	-5.188512e-07	-6.790573e-07	1.269593e-07	7.279133e-07
## 444	2.609061e-01	8.695937e+00	-1.442972e-01	-1.742200e+00	-7.801211e-01
## 447	-8.877162e-01	8.000322e-01	-3.509600e-01	-1.519964e-01	2.666038e-01
## 448	-1.722562e-03	1.568044e-03	-6.849777e-04	-2.867290e-04	5.025845e-04
## 450	4.020708e-02	2.208153e-02	1.428942e-02	-4.851282e-03	-1.662329e-02
## 451	3.522888e+00	1.067625e+00	1.276090e+00	-2.519573e-01	-1.388205e+00
## 452	1.112875e-02	3.511448e-03	4.027243e-03	-8.235152e-04	-4.396463e-03
## 455	-1.996593e-01	1.871629e-01	-6.009359e-02	-1.823037e-01	1.297004e-01

## 456	2.912593e-01	8.657135e-02	1.055494e-01	-2.049212e-02	-1.146384e-01
## 457	3.722124e-03	3.226801e-01	-8.589782e-02	1.267208e-01	-3.288107e-01
## 458	2.446679e+00	-7.551055e-01	4.163198e+00	-2.503407e+01	1.109172e+01
## 460	-1.055969e-01	1.847388e-01	1.837210e-01	-1.791789e+00	8.662881e-01
## 462	5.160568e-02	3.629668e-01	-1.004465e-01	1.942395e-01	-4.699379e-01
## 464	-2.989588e-01	1.030436e+00	-3.177272e-01	2.328581e-01	-6.581178e-01
## 465	-3.485308e-04	-7.308848e-05	-1.272537e-04	1.868276e-05	1.343806e-04
## 466	-1.149314e-03	1.037983e-03	-4.547917e-04	-1.945580e-04	3.437110e-04
## 467	-1.632406e-01	1.469983e-01	-6.371758e-02	-3.421627e-02	5.204939e-02
## 468	-4.746039e-04	3.621513e-04	-1.865483e-04	-6.563159e-05	1.448972e-04
## 469	1.755118e-01	1.123690e+00	-3.089369e-01	6.104874e-01	-1.475364e+00
## 470	1.278365e-01	4.268797e-02	4.619634e-02	-9.930482e-03	-5.068567e-02
## 473	2.692107e+00	-8.670048e-01	4.630430e+00	-2.784219e+01	1.238887e+01
## 474	3.536406e+00	2.092534e+00	1.252649e+00	-4.567083e-01	-1.473944e+00
## 475	-2.096794e-03	1.893812e-03	-8.297174e-04	-3.549810e-04	6.270615e-04
## 476	1.645690e-01	1.749698e-01	-3.037750e-02	1.744423e-01	-4.083249e-01
## 477	4.746749e-01	1.323072e-01	1.722611e-01	-3.164392e-02	-1.861380e-01
## 478	-2.715957e-10	2.715619e-10	-1.152066e-10	-3.419209e-11	5.213882e-11
## 479	-2.422770e-03	3.856385e-03	-1.697945e-03	9.482551e-04	-2.078908e-03
## 480	-9.243834e-01	8.349006e-01	-3.657854e-01	-1.564967e-01	2.764445e-01
## 481	2.900700e-02	2.473657e-02	3.323423e-03	-2.155154e-02	-3.970244e-02
## 482	6.428914e-01	-1.097343e-01	1.442571e+00	-9.237766e+00	4.205744e+00
## 485	2.876899e-02	1.337176e-02	1.029158e-02	-2.985996e-03	-1.170382e-02
## 487	6.805921e-02	1.365837e-02	2.484635e-02	-3.476639e-03	-2.627028e-02
## 488	-1.962324e-03	1.772360e-03	-7.765056e-04	-3.322180e-04	5.868506e-04
## 489	-5.579461e-01	-1.367327e-01	-2.030019e-01	3.344489e-02	2.173125e-01
## 490	5.209109e-03	8.002614e-03	1.708183e-03	-1.654053e-03	-2.560145e-03
## 491	9.166931e-01	1.325198e+00	-2.064317e-01	9.688115e-01	-2.408097e+00
## 493	-2.014478e-01	-5.614036e-02	-7.310638e-02	1.342748e-02	7.899457e-02
## 495	-9.400572e-01	8.928813e-01	-3.847525e-01	-1.397094e-01	2.331474e-01
## 496	-1.702805e-03	1.537959e-03	-6.738135e-04	-2.882775e-04	5.092342e-04
## 497	-6.823685e-04	6.162776e-04	-2.700188e-04	-1.155131e-04	2.040649e-04
## 500	-8.303548e-02	4.291707e-01	-1.359778e-01	1.429549e-01	-3.628019e-01
## 502	5.568333e-03	2.304709e-03	1.999752e-03	-5.211601e-04	-2.243312e-03

## 503	3.628077e+00	3.542144e+00	1.246384e+00	-7.470997e-01	-1.622074e+00
## 504	-1.757746e-03	1.587572e-03	-6.955536e-04	-2.975778e-04	5.256669e-04
## 506	-3.870181e-01	-1.078567e-01	-1.404507e-01	2.579679e-02	1.517631e-01
## 507	2.234923e-03	6.638887e-03	-1.672721e-03	4.305301e-03	-1.028419e-02
## 508	-3.981772e-04	2.997552e-04	-1.560741e-04	-5.503136e-05	1.231217e-04
## 509	-6.658272e-01	5.983605e-01	-2.633888e-01	-1.121234e-01	1.993600e-01
## 510	-1.594545e-03	1.440173e-03	-6.309733e-04	-2.699501e-04	4.768623e-04
## 512	3.535632e-08	3.738990e-08	-6.467120e-09	3.738683e-08	-8.750257e-08
## 514	-2.357462e-01	-6.568493e-02	-8.555381e-02	1.571087e-02	9.244304e-02
## 515	6.048221e+00	4.887138e+00	2.106057e+00	-1.042288e+00	-2.623891e+00
## 516	2.262948e-01	1.665120e+00	-4.507691e-01	8.573290e-01	-2.098365e+00
## 517	-1.096735e+00	9.969468e-01	-4.342232e-01	-1.868025e-01	3.272539e-01
## 519	-2.717183e-02	2.456010e-02	-1.075758e-02	-4.591722e-03	8.105327e-03
## 520	3.218650e-01	3.164370e-01	-4.165416e-02	3.047195e-01	-7.308538e-01
## 521	-1.919677e-01	1.866367e-01	-7.987007e-02	-2.650628e-02	4.271810e-02
## 522	-1.937898e-03	1.750299e-03	-7.668404e-04	-3.280828e-04	5.795460e-04
## 523	-2.235758e-01	-6.218091e-02	-8.114023e-02	1.487723e-02	8.766177e-02
## 524	3.550046e-01	1.912690e+00	-5.064962e-01	1.042190e+00	-2.537863e+00
## 526	1.790398e-01	5.252640e-02	6.490132e-02	-1.245897e-02	-7.041499e-02
## 527	-1.372714e-04	1.238721e-04	-5.431853e-05	-2.321204e-05	4.105199e-05
## 529	-2.806367e-05	-7.710071e-06	-1.026158e-05	2.029237e-06	1.071040e-05
## 531	-8.081694e-01	1.001059e+00	-3.996702e-01	-1.435153e-02	-5.864286e-02
## 532	1.222558e+00	1.429607e+00	-2.111863e-01	9.744672e-01	-2.981703e+00
## 533	-4.569102e-04	4.126723e-04	-1.808031e-04	-7.735124e-05	1.366412e-04
## 535	-3.804951e-01	-1.058489e-01	-1.380899e-01	2.532705e-02	1.491855e-01
## 536	-4.449364e-04	-1.152104e-05	-1.647853e-04	7.675812e-06	1.648690e-04
## 537	-2.419092e-04	2.184199e-04	-9.572521e-05	-4.093583e-05	7.234321e-05
## 538	9.162160e-04	9.335815e-04	3.024909e-04	-1.691774e-04	-4.558193e-04
## 541	9.650221e-02	-3.452900e-02	1.709703e-01	-1.028188e+00	4.626370e-01
## 542	-1.771174e-04	4.963884e-05	-6.722959e-05	-7.457711e-06	6.086616e-05
## 544	-2.326198e-04	2.100535e-04	-9.204901e-05	-3.937020e-05	6.956691e-05
## 545	-4.767880e-04	4.305902e-04	-1.886689e-04	-8.070705e-05	1.425849e-04
## 546	-1.268978e+00	1.351448e+00	-5.616742e-01	-1.244213e-01	1.557447e-01
## 547	-1.592510e-02	-4.437375e-03	-5.779314e-03	1.061346e-03	6.244720e-03

## 548	-6.802831e-01	1.798011e+00	-6.133746e-01	4.084954e-01	-1.090313e+00
## 550	-1.267736e-04	1.134467e-04	-5.013593e-05	-2.125214e-05	3.799603e-05
## 551	8.304452e-01	1.272955e+00	-2.129406e-01	9.215883e-01	-2.279476e+00
## 552	3.463115e-01	-5.220860e-02	8.356974e-01	-5.430623e+00	2.482119e+00
## 553	-5.530589e+00	5.031519e+00	-2.189501e+00	-9.435730e-01	1.651117e+00
## 554	-1.729841e-03	1.562369e-03	-6.845113e-04	-2.928540e-04	5.173221e-04
## 555	-1.340481e-01	9.553334e-02	-5.232419e-02	-1.767853e-02	4.213932e-02
## 556	-1.102768e+00	1.126269e+00	-4.399991e-01	-2.126749e-01	3.194938e-01
## 557	8.160630e-02	3.772033e-03	3.014182e-02	-1.652154e-03	-3.050669e-02
## 558	-5.642444e+00	5.179178e+00	-2.235057e+00	-9.718202e-01	1.680897e+00
## 560	-1.556606e-03	1.405906e-03	-6.159605e-04	-2.635263e-04	4.655149e-04
## 561	-2.761035e-03	2.530311e-05	-1.023621e-03	2.205469e-05	1.021693e-03
## 562	-1.777556e+00	2.492494e+00	-7.293539e-01	-4.747438e-01	4.565602e-01
## 563	1.074978e+00	2.180187e+00	-4.687657e-01	1.522012e+00	-3.680351e+00
## 564	-5.104943e-01	4.610810e-01	-2.020094e-01	-8.640298e-02	1.526566e-01
## 565	-2.690198e-03	2.430229e-03	-1.064728e-03	-4.550853e-04	8.037783e-04
## 566	9.620626e-04	6.055508e-03	1.883814e-04	-1.227508e-03	-8.337826e-04
## 570	9.617395e-01	5.557445e-01	3.410338e-01	-1.215452e-01	-3.997913e-01
## 571	-9.069973e-02	8.191951e-02	-3.589050e-02	-1.535539e-02	2.712471e-02
## 573	-4.816239e-04	1.447230e-04	-1.833955e-04	-2.146289e-05	1.635391e-04
## 574	-1.244657e-03	1.320327e-03	-5.624174e-04	-9.254970e-05	1.082347e-04
## 575	-2.870998e-01	-3.466871e-02	-1.054483e-01	1.008448e-02	1.090109e-01
## 578	-2.024180e-05	1.760590e-05	-7.997680e-06	-3.275692e-06	6.081209e-06
## 582	-5.276873e-02	1.224135e-01	-3.750212e-02	1.165019e-02	-4.619942e-02
## 583	-2.526106e-01	1.929890e+00	-5.953116e-01	7.113562e-01	-1.786499e+00
## 584	-4.627480e-01	3.811484e+00	-1.176745e+00	1.439708e+00	-3.597275e+00
## 585	2.377337e+00	1.683069e+00	8.185894e-01	-5.124945e+00	-1.223396e+00
## 586	1.412214e+00	5.621311e-01	5.078184e-01	-1.277790e-01	-5.670610e-01
## 587	-4.480375e-01	8.774142e-01	-1.873305e-01	-1.940188e-01	1.081376e-01
## 588	1.014919e+00	1.423464e+00	-2.636377e-01	1.169961e+00	-2.802665e+00
## 589	6.414373e-01	1.741545e+00	-4.310964e-01	1.159880e+00	-2.767365e+00
## 590	-3.706172e+00	3.347631e+00	-1.466616e+00	-6.273734e-01	1.108152e+00
## 591	6.737883e-01	1.091662e+00	-1.798049e-01	7.491744e-01	-1.874931e+00
## 592	-1.991164e-01	2.015524e-01	-2.397470e-02	-4.649170e-01	2.624518e-01

## 594	-1.233623e-05	-1.829886e-06	-4.521505e-06	5.012380e-07	4.710822e-06
## 595	3.933784e-03	-1.324128e-03	7.179785e-03	-4.356788e-02	1.963760e-02
## 597	-3.911553e-01	1.091210e-01	-1.477302e-01	-1.960162e-02	1.372265e-01
## 598	7.475373e-01	7.905658e-01	-1.367437e-01	7.904830e-01	-1.850100e+00
## 599	-8.770674e-04	7.916883e-04	-3.469611e-04	-1.490722e-04	2.626556e-04
## 601	2.199433e-04	2.297472e-04	-3.751787e-05	2.267144e-04	-5.339531e-04
## 602	-2.798592e-03	2.529164e-03	-1.108110e-03	-4.725196e-04	8.343393e-04
## 606	1.075873e-02	7.890737e-03	3.768268e-03	-1.693035e-03	-4.605460e-03
## 608	2.166797e+00	1.419465e+00	2.740028e-01	8.880995e-01	-2.802276e+00
## 609	-7.444310e-05	6.712402e-05	-2.945599e-05	-1.257710e-05	2.226621e-05
## 610	1.224546e+00	1.681518e+00	-3.371851e-01	1.463673e+00	-3.456321e+00
## 612	-1.360127e-01	1.229848e-01	-5.385274e-02	-2.298691e-02	4.055823e-02
## 613	4.500043e+01	5.310813e+00	1.649653e+01	-1.279181e+00	-1.720585e+01
## 614	2.018914e-02	-7.160462e-03	3.592830e-02	-2.163630e-01	9.737919e-02
## 615	-1.765006e-01	1.606070e-01	-6.672775e-02	-5.436685e-02	6.431261e-02
## 616	8.529396e+00	5.567481e+00	3.006801e+00	-1.205461e+00	-3.595951e+00
## 618	-5.398054e-01	4.875422e-01	-2.136045e-01	-9.138712e-02	1.614350e-01
## 620	-2.905221e-10	2.952406e-10	-1.246170e-10	-3.457289e-11	5.057398e-11
## 621	3.344476e+00	1.807647e+00	1.189423e+00	-3.977290e-01	-1.380441e+00
## 622	-7.959780e-01	3.157728e+00	-1.030938e+00	9.607906e-01	-2.453876e+00
## 623	-5.197313e-05	-1.446614e-05	-1.886706e-05	3.473539e-06	2.035870e-05
## 624	9.406874e-01	2.958262e+00	-7.416311e-01	1.860008e+00	-4.468919e+00
## 625	-5.642312e-01	5.096168e-01	-2.232704e-01	-9.552499e-02	1.687386e-01
## 627	-1.621030e-03	1.464093e-03	-6.414535e-04	-2.744337e-04	4.847825e-04
## 628	1.300694e+01	4.065481e+00	4.708051e+00	-9.549487e-01	-5.135166e+00
## 629	-2.459236e-06	3.425776e-07	-9.233552e-07	-3.554444e-08	8.743100e-07
## 631	2.510382e-03	2.652990e-03	-4.573644e-04	2.650595e-03	-6.205935e-03
## 632	-7.349477e-03	6.634794e-03	-2.908149e-03	-1.243619e-03	2.198191e-03
## 633	-1.568354e-03	1.416517e-03	-6.206090e-04	-2.655162e-04	4.690297e-04
## 634	-2.726069e+00	2.462447e+00	-1.078788e+00	-4.614391e-01	8.150207e-01
## 637	-6.509887e-02	-9.383607e-03	-2.234847e-02	-9.112489e-03	3.044713e-02
## 639	6.669896e+00	4.262558e+00	2.353816e+00	-9.244610e-01	-2.804815e+00
## 641	-7.614088e-05	6.868509e-05	-3.012811e-05	-1.287120e-05	2.277358e-05
## 642	-4.035621e-01	1.523700e+00	-5.017913e-01	4.567781e-01	-1.165726e+00

## 644	2.034563e-01	-1.837562e-01	8.050892e-02	3.444412e-02	-6.084612e-02
## 645	-1.584093e-04	-2.992915e-05	-5.790430e-05	7.774671e-06	6.091239e-05
## 646	-1.984161e-02	-4.866209e-03	-7.218988e-03	1.189805e-03	7.728474e-03
## 647	-1.100811e+00	-4.964432e+00	1.379771e+00	-3.024376e+00	7.161102e+00
## 649	1.854408e+01	6.731399e+00	6.686338e+00	-1.548174e+00	-7.394909e+00
## 650	-9.294188e-04	8.394211e-04	-3.677783e-04	-1.573408e-04	2.779480e-04
## 651	3.639326e-01	1.825848e+00	-4.917672e-01	1.037437e+00	-2.499586e+00
## 653	-6.268967e-05	5.641153e-05	-2.480403e-05	-1.056390e-05	1.875249e-05
## 654	9.464164e-02	2.208166e-01	2.894557e-02	-4.511803e-02	-5.243911e-02
## 656	1.495342e+01	8.994197e+00	5.292690e+00	-1.960355e+00	-6.243905e+00
## 657	3.252299e-01	6.385534e-01	-1.496858e-01	4.853005e-01	-1.144389e+00
## 658	-2.142666e-04	1.934846e-04	-8.478646e-05	-3.626527e-05	6.407879e-05
## 659	-6.277713e-05	5.606490e-05	-2.482953e-05	-1.048713e-05	1.880174e-05
## 660	2.029339e-01	6.721884e-02	7.124288e-01	-4.938168e+00	2.279116e+00
## 661	-5.283755e-04	4.771983e-04	-2.090821e-04	-8.944546e-05	1.580144e-04
## 662	3.407625e-03	-1.129819e-03	6.262860e-03	-3.808190e-02	1.717164e-02
## 663	8.649278e-02	8.092547e-02	4.452427e-02	-3.255897e-01	9.842711e-03
## 664	7.899669e-01	1.597956e+00	-3.744517e-01	1.192758e+00	-2.820262e+00
## 665	-1.731209e-01	1.571940e-01	-6.633418e-02	-4.637612e-02	5.980872e-02
## 666	7.972440e-01	1.880786e+00	-4.478654e-01	1.302838e+00	-3.108456e+00
## 668	-2.497479e-03	2.492837e-03	-1.065861e-03	-2.968256e-04	4.543948e-04
## 669	-1.568885e-01	2.656980e-01	-9.867215e-02	2.959988e-02	-9.067325e-02
## 672	1.288662e+01	4.111723e+00	4.662169e+00	-9.628498e-01	-5.094275e+00
## 673	6.898627e-01	1.726675e+00	-3.934090e-01	1.115150e+00	-2.709595e+00
## 678	-1.884082e-01	1.701695e-01	-7.455432e-02	-3.189836e-02	5.634580e-02
## 679	-6.797902e-03	1.706603e+00	-5.045254e-01	7.691380e-01	-1.885050e+00
## 681	-1.101483e-03	9.948024e-04	-4.358647e-04	-1.864658e-04	3.294076e-04
## 683	1.484122e-02	4.358860e-03	5.379734e-03	-1.033659e-03	-5.837407e-03
## 684	1.094438e+00	1.169236e+00	4.028374e-03	6.556352e-01	-1.920778e+00
## 685	6.009346e-01	1.049225e+00	-2.217745e-01	7.978590e-01	-1.906877e+00
## 687	3.872977e-01	1.340643e+00	-3.302454e-01	7.937838e-01	-1.932494e+00
## 688	-4.237928e-04	3.827433e-04	-1.676977e-04	-7.174129e-05	1.267389e-04
## 689	-9.612159e-04	8.681172e-04	-3.803633e-04	-1.627114e-04	2.874464e-04
## 690	6.253881e-02	6.621720e-02	-1.146315e-02	6.616725e-02	-1.548662e-01

## 691	-3.162574e-03	2.856489e-03	-1.251492e-03	-5.353421e-04	9.456487e-04
## 693	-5.207076e+00	5.077423e+00	-2.128814e+00	-8.148570e-01	1.304293e+00
## 695	-1.778572e-01	1.436668e-01	-6.927006e-02	-3.163823e-02	5.688295e-02
## 696	-5.767877e-04	5.205795e-04	-2.282999e-04	-9.740117e-05	1.722484e-04
## 697	-2.581059e-05	8.060534e-04	-3.243657e-05	-1.594211e-04	-5.584577e-05
## 698	1.945598e+00	1.123388e-01	2.327070e+00	-1.401496e+01	5.162562e+00
## 699	1.172001e-02	1.239916e-02	-2.144696e-03	1.239154e-02	-2.900922e-02
## 700	-3.028483e-04	2.734187e-04	-1.198410e-04	-5.123740e-05	9.055958e-05
## 701	-6.501182e-01	5.366424e-01	-2.553098e-01	-1.045666e-01	2.003995e-01
## 702	1.176217e+00	1.158466e+00	-2.189533e-02	7.948810e-01	-2.168203e+00
## 704	1.699096e-01	-4.814198e-02	3.330398e-01	-2.062145e+00	9.330607e-01
## 705	-1.916172e-01	2.092656e-01	1.553343e-02	-7.510910e-01	3.954639e-01
## 706	-5.319664e+00	4.806160e+00	-2.105070e+00	-9.009029e-01	1.590778e+00
## 707	-1.417840e+00	1.282328e+00	-5.615630e-01	-2.392501e-01	4.220867e-01
## 711	-6.167710e-01	5.281939e-01	-2.432593e-01	-9.865496e-02	1.867252e-01
## 712	3.424541e-02	2.378383e-02	1.203248e-02	-5.125299e-03	-1.455065e-02
## 713	-1.646598e-01	1.487058e-01	-6.474423e-02	-3.105044e-02	5.076688e-02
## 714	-1.320022e-06	-1.592631e-08	-4.894285e-07	1.923259e-08	4.875248e-07
## 715	3.453723e-01	4.513865e-01	1.154757e-01	-9.390897e-02	-1.634190e-01
## 716	-1.383847e-01	3.631142e-01	-1.250324e-01	8.443393e-02	-2.228649e-01
## 718	6.789289e-03	2.593313e-03	2.444295e-03	-5.922757e-04	-2.717949e-03
## 719	5.194903e-02	1.580428e-01	1.486155e-02	-3.210874e-02	-3.170176e-02
## 720	-1.428772e-01	2.092858e-01	-5.880790e-02	-4.010239e-02	3.624262e-02
## 721	-3.494268e-02	3.056604e-02	-1.379947e-02	-5.717322e-03	1.052825e-02
## 722	1.198344e+00	-6.930645e-02	1.640108e+00	-9.890185e+00	3.948672e+00
## 723	-1.568354e-03	1.416517e-03	-6.206090e-04	-2.655162e-04	4.690297e-04
## 724	-1.754905e+00	1.816140e+00	-7.626210e-01	-1.924443e-01	2.683937e-01
## 725	9.718715e-01	1.513266e+00	-1.840387e-01	9.131765e-01	-2.415718e+00
## 726	7.769296e-04	8.217275e-04	-1.421432e-04	8.215990e-04	-1.922929e-03
## 727	-2.132521e-03	2.655455e-03	-1.054058e-03	-4.295277e-05	-1.522105e-04
## 729	7.941246e-03	-2.763673e-03	1.426543e-02	-8.615343e-02	3.879681e-02
## 730	-5.703442e-04	1.669094e-03	-5.677201e-04	4.297780e-04	-1.115734e-03
## 732	7.023558e-02	2.228890e-02	2.541338e-02	-5.223448e-03	-2.775591e-02
## 733	-2.649191e+00	1.092698e+01	-1.285358e+00	-2.151852e+00	1.194432e-01

##	738	3.227578e-01	6.607811e-01	-1.280859e-01	4.244224e-01	-1.056020e+00
##	739	-2.220920e-01	-6.189392e-02	-8.059824e-02	1.480358e-02	8.708989e-02
##	740	8.992221e-01	1.728180e+00	-3.679705e-01	1.239759e+00	-2.988186e+00
##	742	6.131570e-01	1.386201e+00	-3.129756e-01	9.412995e-01	-2.271030e+00
##	743	-1.408057e-03	1.271722e-03	-5.571780e-04	-2.383747e-04	4.210921e-04
##	744	4.042953e-01	1.260506e-01	1.463492e-01	-2.961909e-02	-1.595922e-01
##	747	1.960760e-01	2.308810e+00	-6.476049e-01	1.138680e+00	-2.784820e+00
##	748	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
##	749	-3.621545e-02	-9.057021e-03	-1.317148e-02	2.206998e-03	1.411983e-02
##	750	-3.794108e-01	3.426850e-01	-1.501354e-01	-6.423565e-02	1.134670e-01
##	751	8.052439e-01	1.585091e+00	-3.243355e-01	1.087518e+00	-2.654860e+00
##	752	9.088262e-03	-3.174090e-03	1.629755e-02	-9.837421e-02	4.429559e-02
##	753	-3.856511e-03	3.493682e-03	-1.529351e-03	-6.476485e-04	1.140888e-03
##	754	-2.916514e-03	2.634193e-03	-1.154116e-03	-4.936912e-04	8.720950e-04
##	755	-9.171931e+00	8.284040e+00	-3.629396e+00	-1.552800e+00	2.742961e+00
##	757	-3.101971e-01	-3.302941e-02	-1.140546e-01	1.001167e-02	1.174322e-01
##	758	-1.847731e-01	1.883354e-01	-1.885186e-02	-4.581205e-01	2.561147e-01
##	759	4.581286e-05	2.244068e-05	1.094096e-05	8.236210e-06	-3.961261e-05
##	761	-3.877368e-04	3.501893e-04	-1.534307e-04	-6.563876e-05	1.159542e-04
##	762	9.414072e-02	5.310718e-02	3.341823e-02	-1.163947e-02	-3.903226e-02
##	763	-1.516857e-03	1.370006e-03	-6.002314e-04	-2.567984e-04	4.536297e-04
##	764	-1.397789e-02	1.141407e-01	-2.757642e-02	2.430150e-02	-7.795977e-02
##	765	-3.465061e-02	1.623579e-01	3.169713e-01	-2.607139e+00	1.234380e+00
##	769	-2.019528e-01	-5.564998e-02	-7.330716e-02	1.333509e-02	7.914290e-02
##	770	3.444525e-06	1.244458e-08	9.243364e-06	-6.140655e-05	2.813885e-05
##	772	-4.525812e-01	-9.076217e-02	-1.652254e-01	2.310634e-02	1.746875e-01
##	773	-1.217965e-04	-3.101050e-05	-4.438709e-05	7.789702e-06	4.712398e-05
##	774	1.174773e+00	1.242342e+00	-2.148809e-01	1.242240e+00	-2.907420e+00
##	775	4.629491e+00	4.579094e+00	1.588762e+00	-9.651388e-01	-2.074467e+00
##	777	-2.374415e-04	2.144063e-04	-9.395703e-05	-4.018587e-05	7.100871e-05
##	778	3.108170e-03	-2.034908e-04	7.801649e-03	-5.116900e-02	2.339559e-02
##	779	4.456125e+00	1.524244e+00	1.609310e+00	-3.533967e-01	-1.769642e+00
##	780	-5.694268e-01	-1.159234e-01	-2.078347e-01	2.941694e-02	2.199238e-01
##	781	-5.944837e-04	5.368993e-04	-2.352420e-04	-1.006344e-04	1.777828e-04

## 782	-1.466556e-03	1.324575e-03	-5.803267e-04	-2.482829e-04	4.385869e-04
## 783	1.031165e+00	2.873752e-01	3.742145e-01	-6.873330e-02	-4.043554e-01
## 784	-3.242735e-04	2.928460e-04	-1.283172e-04	-5.488965e-05	9.697645e-05
## 785	1.180143e-02	6.119023e-01	-1.720236e-01	2.668386e-01	-6.672870e-01
## 788	3.658668e-01	3.878306e-01	-6.719295e-02	3.872945e-01	-9.064956e-01
## 789	-1.594545e-03	1.440173e-03	-6.309733e-04	-2.699501e-04	4.768623e-04
## 790	-2.515320e-10	3.255833e-10	-1.285238e-10	1.642751e-12	-3.379541e-11
## 791	-9.895151e-01	8.906481e-01	-3.913813e-01	-1.676126e-01	2.965039e-01
## 792	-1.284353e-03	1.160018e-03	-5.082284e-04	-2.174362e-04	3.840941e-04
## 793	4.097060e-02	1.679654e+00	-4.903963e-01	7.845460e-01	-1.917284e+00
## 794	-2.116483e-05	1.673187e-05	-8.348602e-06	-3.010309e-06	6.364216e-06
## 795	-1.268871e+00	1.238805e+00	-5.292069e-01	-1.734582e-01	2.775665e-01
## 796	3.421637e-03	3.629293e-03	-6.290642e-04	3.623058e-03	-8.480178e-03
## 797	-1.627837e-07	1.514080e-07	-6.570797e-08	-2.557401e-08	4.381881e-08
## 798	-2.534348e+00	2.295181e+00	-1.003050e+00	-4.302468e-01	7.573610e-01
## 799	-5.411663e-01	4.887785e-01	-2.141433e-01	-9.161893e-02	1.618413e-01
## 800	-1.289715e-04	1.163894e-04	-5.103409e-05	-2.181085e-05	3.857075e-05
## 803	3.386917e+00	1.343810e+00	1.218028e+00	-3.055959e-01	-1.359623e+00
## 804	-7.482087e-04	6.757390e-04	-2.960728e-04	-1.266570e-04	2.237528e-04
## 806	6.186600e-02	2.278839e-02	2.229736e-02	-5.230787e-03	-2.469720e-02
## 807	-3.896488e-04	3.518904e-04	-1.541869e-04	-6.595647e-05	1.165267e-04
## 810	2.002555e-03	2.117773e-03	-3.654843e-04	2.115578e-03	-4.952960e-03
## 811	-5.760131e-05	5.202543e-05	-2.279330e-05	-9.751745e-06	1.722601e-05
## 814	-2.452507e-04	8.713787e-05	-1.232090e-04	5.826916e-05	-3.133787e-05
## 815	1.414564e+00	1.836341e+00	-3.558792e-01	1.626059e+00	-3.866320e+00
## 816	-8.946385e-02	8.026403e-02	-3.538649e-02	-1.503850e-02	2.679757e-02
## 817	-6.700776e-04	4.326603e-04	-2.611827e-04	-7.699973e-05	2.108299e-04
## 819	-4.320973e-04	3.895160e-04	-1.711842e-04	-7.246352e-05	1.284293e-04
## 820	1.175913e-02	6.402240e-01	-1.873655e-01	2.966774e-01	-7.255711e-01
## 822	5.670765e-03	2.049264e-03	2.044846e-03	-4.713864e-04	-2.260963e-03
## 823	-1.370515e-10	2.372238e-10	-8.770863e-11	2.817828e-11	-8.489660e-11
## 825	2.818306e-02	7.042126e-03	2.624179e-02	-1.582842e-01	4.701288e-02
## 826	-5.136821e-02	3.908895e-02	-2.012396e-02	-7.237916e-03	1.593760e-02
## 827	2.486303e-03	-7.998317e-04	4.631422e-03	-2.827225e-02	1.275789e-02

## 830	1.905463e+00	3.680034e+00	-8.396769e-01	2.768572e+00	-6.562643e+00
## 831	-2.470015e-11	1.563425e-10	-4.932821e-11	5.653039e-11	-1.413511e-10
## 832	-4.967015e-01	4.486239e-01	-1.965467e-01	-8.410514e-02	1.485495e-01
## 833	-3.575314e-01	-9.700144e-02	-1.298230e-01	2.330476e-02	1.399926e-01
## 834	8.443274e-07	4.539306e-06	-2.490137e-06	5.619226e-06	-1.099336e-05
## 835	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 837	-1.924152e-02	1.033812e-03	-7.160358e-03	5.594000e-06	7.041555e-03
## 842	-2.022391e-01	1.716763e+00	-5.328137e-01	6.608052e-01	-1.642163e+00
## 843	-4.958031e+00	4.480475e+00	-1.955858e+00	-8.871350e-01	1.505217e+00
## 844	-2.365638e-04	2.135694e-04	-9.361032e-05	-4.002399e-05	7.074265e-05
## 845	-9.838681e-04	8.885890e-04	-3.893233e-04	-1.665586e-04	2.942352e-04
## 846	5.063949e-01	1.575341e+00	-3.994886e-01	1.006477e+00	-2.407180e+00
## 847	-1.910599e+00	1.726778e+00	-7.560686e-01	-3.236891e-01	5.712944e-01
## 848	-5.637869e-05	5.068877e-05	-2.230630e-05	-9.490434e-06	1.686615e-05
## 849	-1.444349e-02	1.676837e-01	-3.242325e-02	2.139957e-02	-9.429827e-02
## 851	-1.881507e-02	1.699367e-02	-7.445254e-03	-3.185376e-03	5.626845e-03
## 852	1.665848e+00	1.851026e+00	-2.279236e-01	1.058946e+00	-3.839483e+00
## 855	-1.374942e-06	-2.366694e-08	-5.096217e-07	2.151090e-08	5.082631e-07
## 858	8.669427e-01	2.416053e-01	3.146176e-01	-5.778635e-02	-3.399580e-01
## 859	7.359573e-05	7.377530e-05	-9.560518e-06	6.938366e-05	-1.672118e-04
## 860	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 862	-4.616075e+00	4.180031e+00	-1.826913e+00	-7.836561e-01	1.379632e+00
## 863	-2.117698e-05	-4.862491e-06	-8.064964e-06	2.060610e-06	6.869273e-06
## 864	-2.794982e-04	-7.722114e-05	-1.014595e-04	1.851966e-05	1.095106e-04
## 866	1.213130e+00	1.681905e+00	-3.390498e-01	1.459229e+00	-3.442916e+00
## 867	-3.821263e-01	-1.057055e-01	-1.386973e-01	2.531344e-02	1.497828e-01
## 868	-2.399771e-03	2.167466e-03	-9.496084e-04	-4.062741e-04	7.176662e-04
## 869	-6.077424e-04	4.239716e-04	-2.395703e-04	-7.172268e-05	1.817574e-04
## 872	-4.692386e-06	2.272454e-06	-1.810791e-06	-3.811403e-07	1.525182e-06
## 873	-1.589835e-03	1.435920e-03	-6.291095e-04	-2.691533e-04	4.754539e-04
## 876	1.588239e+00	1.790776e+00	-2.376029e-01	1.112352e+00	-3.736268e+00
## 877	-6.626630e-01	6.050659e-01	-2.641544e-01	-1.092191e-01	1.909032e-01
## 878	-1.439629e-01	-1.275158e-01	2.195102e-01	-2.047491e+00	1.057721e+00
## 879	-1.029996e+00	3.812207e+00	-1.245210e+00	1.099681e+00	-2.840540e+00

## 880	2.605197e-01	1.303707e+00	-3.510927e-01	7.412433e-01	-1.785800e+00
## 881	-4.010446e-04	-8.283885e-05	-1.463747e-04	2.103209e-05	1.548662e-04
## 886	-1.314526e+00	1.694668e+00	-5.339236e-01	-3.266435e-01	3.543588e-01
## 887	6.808768e-01	1.466089e+00	-3.249105e-01	1.009593e+00	-2.436651e+00
## 888	-2.522426e-07	2.286209e-07	-1.000493e-07	-4.234355e-08	7.455160e-08
## 890	-1.542457e-03	1.393128e-03	-6.103614e-04	-2.611322e-04	4.612853e-04
## 892	1.224551e+01	8.203535e+00	4.310973e+00	-1.772663e+00	-5.179217e+00
## 893	-1.043700e-09	9.888208e-10	-3.103613e-10	-9.932427e-10	6.919568e-10
## 895	-1.259673e-01	1.110721e-01	-4.971785e-02	-2.119754e-02	3.808135e-02
## 897	-9.053720e-01	8.177276e-01	-3.582620e-01	-1.532785e-01	2.707605e-01
## 898	-2.423392e-01	-1.435315e-02	-8.942208e-02	5.535468e-03	9.084126e-02
## 899	-1.362788e-01	9.173689e-02	-5.305638e-02	-1.681320e-02	4.322439e-02
## 902	-2.864945e-06	2.340506e-06	-1.127163e-06	-4.348668e-07	8.749322e-07
## 903	-9.530090e-02	8.520420e-02	-3.768568e-02	-1.597096e-02	2.857436e-02
## 904	-2.797614e-01	2.606208e-01	-1.129232e-01	-4.406858e-02	7.533045e-02
## 905	3.804602e-01	2.541740e+00	-6.892043e-01	1.342727e+00	-3.270436e+00
## 906	9.084059e-01	1.136995e+00	-1.627244e-01	9.050398e-01	-2.229963e+00
## 907	-1.582797e-01	1.934285e-01	8.098331e-02	-1.153863e+00	5.787734e-01
## 909	-5.835032e-04	-1.107858e-04	-2.132086e-04	2.858084e-05	2.246755e-04
## 911	-8.924667e-06	6.370659e-06	-3.496153e-06	-1.145441e-06	2.757732e-06
## 912	2.124888e-01	2.247109e-01	-3.886703e-02	2.246922e-01	-5.258843e-01
## 913	-2.200009e-03	1.987038e-03	-8.705597e-04	-3.724580e-04	6.579325e-04
## 914	-4.402615e-04	3.976060e-04	-1.742148e-04	-7.452561e-05	1.316627e-04
## 915	1.084167e-01	1.371601e+00	-3.907815e-01	6.840347e-01	-1.663227e+00
## 917	-5.290920e-04	1.582060e-04	-2.011947e-04	-2.404328e-05	1.806996e-04
## 919	-1.662373e-03	5.871280e-04	-6.325353e-04	-9.865889e-05	5.687707e-04
## 921	-3.735743e-04	3.373620e-04	-1.478263e-04	-6.323197e-05	1.117185e-04
## 922	-4.337180e-01	-1.197465e-01	-1.574278e-01	2.867150e-02	1.699934e-01
## 923	1.363459e-01	-4.881367e-02	2.414888e-01	-1.452143e+00	6.533851e-01
## 924	-1.677726e-03	1.515306e-03	-6.638884e-04	-2.840337e-04	5.017381e-04
## 925	-8.460991e-02	9.326561e-02	-3.845221e-02	-6.693583e-03	6.608897e-03
## 927	-2.266255e-03	2.046848e-03	-8.967827e-04	-3.836451e-04	6.777087e-04
## 928	-4.689534e-01	4.849934e-01	-3.056587e-02	-1.298698e+00	7.139838e-01
## 929	1.226424e+00	1.290612e+00	-2.188016e-01	1.285065e+00	-3.014116e+00

## 932	-8.438230e-02	7.837474e-02	-3.378507e-02	-1.390096e-02	2.377561e-02
## 933	-1.392225e-03	1.257594e-03	-5.505526e-04	-2.385387e-04	4.176937e-04
## 935	-2.844760e-03	5.134483e-05	-1.055871e-03	2.125188e-05	1.048798e-03
## 936	1.433444e-05	1.894610e-05	-1.950882e-06	1.250392e-05	-3.278124e-05
## 937	-1.621030e-03	1.464093e-03	-6.414535e-04	-2.744337e-04	4.847825e-04
## 939	-2.277159e-01	2.094686e-01	-8.045495e-02	-1.144808e-01	1.038336e-01
## 940	-9.566139e-07	3.037614e-08	-3.557246e-07	5.262876e-09	3.504899e-07
## 941	-3.529854e-03	3.251139e-03	-1.417319e-03	-5.643288e-04	9.782491e-04
## 942	1.378772e+00	-2.819845e-01	2.148151e+00	-1.292178e+01	5.514417e+00
## 946	-7.578138e-04	3.288835e-03	-1.068445e-03	1.051396e-03	-2.663476e-03
## 947	3.428248e+00	7.305274e-01	3.439693e+00	-2.082655e+01	6.638669e+00
## 949	-7.615137e-01	1.184462e+00	-4.479110e-01	9.606030e-02	-3.234356e-01
## 950	-2.117592e-03	1.912598e-03	-8.379463e-04	-3.585048e-04	6.332848e-04
## 952	-1.684865e-01	1.521515e-01	-6.607878e-02	-3.307812e-02	5.257454e-02
## 957	-3.194576e-03	2.885403e-03	-1.264178e-03	-5.407067e-04	9.551310e-04
## 958	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 960	2.604830e+00	-9.288276e-01	4.606288e+00	-2.769659e+01	1.245570e+01
## 961	-6.681207e-01	5.251536e-01	-2.619698e-01	-9.956721e-02	2.068419e-01
## 962	-3.447874e-01	3.167370e-01	-1.380068e-01	-5.595930e-02	9.720088e-02
## 963	-9.558272e+00	9.806908e+00	-3.811090e+00	-1.892004e+00	2.779630e+00
## 964	-3.153730e+00	2.848804e+00	-1.247964e+00	-5.339964e-01	9.431242e-01
## 965	-6.645339e-04	3.932016e-04	-2.589448e-04	-6.695709e-05	2.083685e-04
## 966	-5.070848e-11	1.610584e-10	-5.407928e-11	4.362260e-11	-1.127384e-10
## 967	1.280438e-04	2.576972e-04	-5.950910e-05	1.907897e-04	-4.525976e-04
## 968	-5.435094e-05	4.904370e-05	-2.150627e-05	-9.191195e-06	1.625587e-05
## 969	1.055412e+01	3.453931e+00	3.815910e+00	-8.058279e-01	-4.179011e+00
## 971	-1.653176e-01	3.762058e-01	-1.292512e-01	6.716120e-02	-1.902991e-01
## 975	5.485183e+00	1.187396e+01	1.702297e+00	-2.428118e+00	-2.970161e+00
## 977	2.378515e-01	6.147609e-01	-1.506510e-01	4.159273e-01	-9.915526e-01
## 978	1.122076e+00	1.502882e+00	-1.188859e-01	8.911550e-01	-2.435056e+00
## 979	-5.617534e-01	7.540294e-01	-2.936748e-01	1.319249e-02	-1.003008e-01
## 981	4.667260e-01	2.546193e-01	-1.470490e-02	3.849309e-01	-8.893489e-01
## 982	4.011140e+01	-3.973328e+01	1.683079e+01	5.849655e+00	-8.384573e+00
## 983	1.015843e+00	2.664105e+00	-6.550037e-01	1.794373e+00	-4.278424e+00

## 984	-6.441035e+00	6.063891e+00	-1.927554e+00	-5.977179e+00	4.225655e+00
## 985	-2.326546e-01	-6.418712e-02	-8.444951e-02	1.537771e-02	9.118062e-02
## 988	-1.062787e-03	9.598904e-04	-4.205524e-04	-1.799246e-04	3.178359e-04
## 989	-1.449598e-01	1.514541e-01	-5.801772e-02	-2.842872e-02	4.140192e-02
## 990	-1.227068e-03	1.108263e-03	-4.855599e-04	-2.077348e-04	3.669636e-04
## 991	-2.698783e-06	9.851112e-07	-1.027616e-06	-1.669370e-07	9.214780e-07
## 992	-3.514307e-01	-3.649064e-02	-1.292413e-01	1.115698e-02	1.329689e-01
## 993	3.759653e-01	5.214658e-01	-3.531077e-02	2.827626e-01	-7.979456e-01
## 994	-2.457200e-01	2.221534e-01	-9.726502e-02	-4.158117e-02	7.336820e-02
## 995	1.488990e-03	2.335613e-03	-4.983106e-04	1.922579e-03	-4.534874e-03
## 996	1.853142e+01	6.743137e+00	6.681322e+00	-1.550381e+00	-7.391143e+00
## 997	-1.744009e-01	2.115322e-01	8.879608e-02	-1.267371e+00	6.360768e-01
## 999	-9.689561e-01	1.064400e+00	-4.392723e-01	-7.831674e-02	7.976133e-02
## 1000	-2.871952e-01	1.536476e+00	-4.905509e-01	5.299226e-01	-1.331415e+00
## 1001	4.057680e-04	-4.679018e-06	1.073372e-03	-7.111781e-03	3.257391e-03
## 1002	-5.752647e-01	4.366002e-01	-2.253393e-01	-8.081161e-02	1.785502e-01
## 1004	-1.391112e-03	1.256432e-03	-5.504730e-04	-2.355093e-04	4.160239e-04
## 1006	-1.032206e-06	4.122279e-07	-3.943331e-07	-7.015506e-08	3.484283e-07
## 1007	-1.862555e-03	1.682248e-03	-7.370269e-04	-3.153262e-04	5.570130e-04
## 1008	5.039978e-02	2.797111e-02	1.790347e-02	-6.138646e-03	-2.086149e-02
## 1009	7.435170e-02	-2.108144e-02	1.458661e-01	-9.033752e-01	4.087805e-01
## 1010	8.815644e-04	6.293460e-04	3.044387e-04	-1.235613e-04	-3.945574e-04
## 1011	-5.374394e-01	4.864844e-01	-2.129817e-01	-9.051007e-02	1.595493e-01
## 1012	-4.124595e-01	3.542006e-01	-1.627048e-01	-6.616833e-02	1.247921e-01
## 1013	1.076274e+00	1.403040e+00	-2.612078e-01	1.158509e+00	-2.906330e+00
## 1014	-1.608087e-01	-4.233871e-02	-5.842695e-02	1.022433e-02	6.286356e-02
## 1016	-1.397136e-04	9.762596e-05	-5.544261e-05	-1.563278e-05	4.036979e-05
## 1017	3.146212e-01	6.422567e-01	-2.731119e-01	7.761116e-01	-1.601147e+00
## 1018	4.035440e-03	2.965574e-03	1.413089e-03	-6.357905e-04	-1.728558e-03
## 1020	-2.311997e-03	2.088452e-03	-9.150837e-04	-3.909765e-04	6.906217e-04
## 1023	3.469746e-01	1.128543e-01	1.254701e-01	-2.635294e-02	-1.373337e-01
## 1024	-3.460167e-05	-9.371081e-06	-1.256750e-05	2.259041e-06	1.353611e-05
## 1025	-3.117548e-03	6.188375e-02	1.477866e-01	-1.172777e+00	5.525287e-01
## 1032	1.956550e+00	1.236071e+00	3.176551e-01	6.426819e-01	-2.260805e+00

## 1033	-5.692446e-01	4.995144e-01	-2.248481e-01	-9.345289e-02	1.713901e-01
## 1034	4.959943e-05	2.391911e-05	1.189019e-05	8.907931e-06	-4.272411e-05
## 1035	1.509028e-02	-3.536082e-03	3.143871e-02	-1.977807e-01	8.975423e-02
## 1039	7.495538e-06	-8.045337e-06	3.393121e-06	5.675075e-07	-6.307670e-07
## 1041	-2.462144e-03	2.223777e-03	-9.742971e-04	-4.168098e-04	7.362909e-04
## 1044	2.702305e-01	3.576950e-01	-3.939559e-03	1.554801e-01	-4.913405e-01
## 1045	-3.310239e-06	-3.585923e-07	-1.220652e-06	1.170909e-07	1.239383e-06
## 1046	1.071111e+01	9.020318e+00	3.719577e+00	-1.918783e+00	-4.675586e+00
## 1049	-4.757576e-01	4.510953e-01	3.951005e-04	-1.543724e+00	8.392823e-01
## 1050	1.158807e-06	-4.102369e-07	2.064090e-06	-1.243362e-05	5.596338e-06
## 1051	-1.227840e-01	1.122961e-01	-4.886133e-02	-2.049013e-02	3.569938e-02
## 1055	3.367603e-01	4.198576e-01	-1.017460e-01	4.370618e-01	-9.864572e-01
## 1056	3.495529e+00	1.499868e+00	1.253951e+00	-3.379441e-01	-1.412127e+00
## 1057	6.885789e-01	1.668850e+00	-3.983568e-01	1.141542e+00	-2.727999e+00
## 1058	-9.472738e-05	-1.579820e-05	-3.468805e-05	4.238698e-06	3.624618e-05
## 1059	3.426557e+00	1.322283e+00	1.233316e+00	-3.017323e-01	-1.372606e+00
## 1061	5.122231e-02	1.640879e-02	1.852952e-02	-3.840051e-03	-2.025436e-02
## 1062	-7.072227e+00	6.390980e+00	-2.799507e+00	-1.195838e+00	2.111346e+00
## 1063	-6.907898e-02	1.668467e+00	-5.013200e-01	7.158495e-01	-1.761697e+00
## 1064	3.596370e-08	-9.243609e-09	7.282408e-08	-4.548495e-07	2.061256e-07
## 1065	2.805838e-02	7.295439e-01	-2.116692e-01	3.466861e-01	-8.460942e-01
## 1066	-1.750812e-03	1.581337e-03	-6.927779e-04	-2.966517e-04	5.237117e-04
## 1067	-4.188406e-04	3.520004e-04	-1.673341e-04	-5.998263e-05	1.183607e-04
## 1070	-2.365638e-04	2.135694e-04	-9.361032e-05	-4.002399e-05	7.074265e-05
## 1074	3.782693e-02	3.258686e-02	1.311510e-02	-6.920962e-03	-1.657173e-02
## 1075	-3.885486e-02	-1.082833e-02	-1.410061e-02	2.589883e-03	1.523632e-02
## 1080	2.082659e+00	2.202498e+00	-3.809598e-01	2.202289e+00	-5.154383e+00
## 1081	-4.175084e-01	6.967050e-01	-2.592403e-01	7.337955e-02	-2.286961e-01
## 1082	1.854355e-02	-6.572944e-03	3.300961e-02	-1.988045e-01	8.947814e-02
## 1086	1.721783e+01	4.981208e+00	6.243355e+00	-1.184161e+00	-6.766098e+00
## 1087	7.843103e-01	-7.149826e-02	1.917162e+00	-1.250694e+01	5.713008e+00
## 1088	-2.374980e-02	2.145069e-02	-9.397959e-03	-4.020821e-03	7.102627e-03
## 1091	-1.960461e-03	1.770660e-03	-7.757704e-04	-3.318936e-04	5.862861e-04
## 1092	-9.662368e-04	8.726800e-04	-3.823472e-04	-1.635762e-04	2.889601e-04

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## 1093 -5.678950e-01 -1.360827e-01 -2.067074e-01 3.342474e-02 2.209443e-01
## 1095 -7.982221e-04 7.209248e-04 -3.158627e-04 -1.351299e-04 2.387133e-04
## 1096 1.144610e-01 3.776628e-01 3.193525e-02 -7.664232e-02 -7.213929e-02
## 1098 -2.916388e-04 -5.067645e-05 -1.066919e-04 1.334383e-05 1.119305e-04
## 1099 -3.946468e-04 3.563057e-04 -1.561696e-04 -6.676419e-05 1.179996e-04
## 1100 -9.152445e-01 8.300477e-01 -3.631681e-01 -1.534203e-01 2.699552e-01
## 1102 -4.053243e-06 3.381670e-06 -1.596682e-06 -6.291657e-07 1.232090e-06
## 1104 -8.772540e-01 8.076893e-01 -3.025736e-01 -4.981062e-01 4.272422e-01
## 1105 -1.770521e-01 1.611195e-01 -6.692181e-02 -5.465225e-02 6.456704e-02
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## 1110 -1.320525e+00 1.548169e+00 -6.271521e-01 -6.325997e-02 1.569449e-03
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## 1113 -1.737579e+00 1.986314e+00 -6.195151e-01 -9.912213e-01 7.807883e-01
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## 1118 -1.698690e-10 2.418598e-10 -9.331502e-11 1.129115e-11 -4.733181e-11
## 1119 -3.781277e-05 3.360247e-05 -1.494751e-05 -6.291903e-06 1.135160e-05
## 1121 -2.726506e+00 3.655419e+00 -1.429081e+00 7.424321e-02 -5.012503e-01
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## 1129 1.476658e-06 1.721069e-06 -3.816796e-07 1.791185e-06 -4.080310e-06
## 1130 2.011400e-02 6.154042e-03 7.283622e-03 -1.448709e-03 -7.932969e-03
## 1131 3.056057e-02 1.324696e-01 4.184453e-01 -3.190934e+00 1.494944e+00
## 1132 7.201792e-03 1.187879e-02 -2.589908e-03 9.581994e-03 -2.261042e-02
## 1134 1.561713e-05 -1.191287e-06 1.366839e-04 -1.013000e-03 4.773091e-04
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##	1144	4.125864e+00	1.515589e+00	1.487142e+00	-3.480293e-01	-1.646704e+00
##	1145	-5.427305e-01	4.901909e-01	-2.147622e-01	-9.188375e-02	1.623093e-01
##	1146	-2.609509e-02	4.640937e-02	-1.669515e-02	3.253882e-03	-1.616581e-02
##	1147	-7.109017e-05	-1.941406e-05	-2.592267e-05	4.934141e-06	2.741110e-05
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##	1150	-2.541322e-03	2.295652e-03	-1.005847e-03	-4.297781e-04	7.591380e-04
##	1152	-5.245155e-04	4.736456e-04	-2.075586e-04	-8.876470e-05	1.568431e-04
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##	1159	2.496683e+00	9.267314e-01	7.743776e-01	9.326305e-02	-1.480288e+00
##	1160	5.046888e-02	3.280775e-02	1.779509e-02	-7.105608e-03	-2.126701e-02
##	1161	-1.113605e+00	1.274263e+00	-4.481121e-01	-2.421288e-01	3.118939e-01
##	1163	9.486894e-01	1.210534e+00	-1.081237e-01	7.880979e-01	-2.089822e+00
##	1166	-1.607664e-04	-4.479214e-05	-5.835079e-05	1.073224e-05	6.301180e-05
##	1167	-3.941066e-04	-8.799510e-05	-1.436805e-04	2.203478e-05	1.526254e-04
##	1168	-5.446374e+00	4.984722e+00	-2.156988e+00	-9.351594e-01	1.623629e+00
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##	1172	-2.567724e-06	2.319417e-06	-1.016095e-06	-4.347125e-07	7.677993e-07
##	1175	-3.652905e-04	-1.000844e-04	-1.326247e-04	2.403361e-05	1.430637e-04
##	1176	-3.858211e-03	3.484722e-03	-1.526728e-03	-6.531752e-04	1.153809e-03
##	1177	-1.805715e-03	1.630921e-03	-7.145127e-04	-3.058721e-04	5.400957e-04
##	1178	-2.706249e-04	6.063511e-05	-1.023309e-04	-8.284664e-06	9.408130e-05
##	1179	1.039013e-02	2.728481e-02	-6.709876e-03	1.836883e-02	-4.379933e-02
##	1181	-9.252608e-01	1.028284e+00	-4.005877e-01	-1.240376e-01	1.492875e-01
##	1182	-1.225024e-03	1.106412e-03	-4.847520e-04	-2.073857e-04	3.663499e-04
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##	1185	-8.392183e-02	-2.338764e-02	-3.045563e-02	5.593787e-03	3.290861e-02
##	1186	1.549466e-05	2.536593e-05	-5.484252e-06	2.045216e-05	-4.831265e-05
##	1187	-1.773086e-04	1.600928e-04	-7.016177e-05	-3.000558e-05	5.302631e-05
##	1188	4.911315e-01	1.658499e+00	-4.108662e-01	9.983843e-01	-2.421236e+00
##	1189	1.064293e+00	1.398732e+01	6.261966e-03	-2.804199e+00	-1.495497e+00

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##	1194	-1.151003e-04	5.300605e-05	-4.434887e-05	-8.784449e-06	3.759760e-05
##	1195	-1.116224e-01	1.004153e-01	-4.416066e-02	-1.881247e-02	3.340564e-02
##	1197	1.004816e-05	-3.595599e-06	1.780122e-05	-1.070522e-04	4.816837e-05
##	1198	1.032191e-03	3.590868e-04	3.677328e-03	-2.553771e-02	1.179093e-02
##	1201	-5.310510e+00	4.824148e+00	-2.102175e+00	-9.045983e-01	1.585978e+00
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##	1211	-5.266806e-01	4.684710e-01	-2.082536e-01	-8.761954e-02	1.579127e-01
##	1212	-8.205869e-03	6.045462e-03	-3.209252e-03	-1.116414e-03	2.561448e-03
##	1216	-1.392225e-03	1.257594e-03	-5.505526e-04	-2.385387e-04	4.176937e-04
##	1217	-4.925229e-06	4.220213e-06	-1.943086e-06	-7.871182e-07	1.489090e-06
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##	1219	1.352802e-03	7.873415e-04	4.794028e-04	-1.717330e-04	-5.633609e-04
##	1220	-1.740315e-01	1.760073e-01	-7.397217e-02	-2.203107e-02	3.288588e-02
##	1221	1.107798e-01	-3.964694e-02	1.962420e-01	-1.180125e+00	5.309973e-01
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##	1225	4.455071e-01	-1.295039e-01	8.647865e-01	-5.340535e+00	2.415225e+00
##	1226	5.812213e-03	-2.000418e-03	1.049721e-02	-6.349880e-02	2.860388e-02
##	1227	-7.239438e-06	6.148163e-06	-2.853858e-06	-1.147679e-06	2.195779e-06
##	1229	-5.924758e-01	5.352754e-01	-2.344510e-01	-1.003365e-01	1.771739e-01
##	1230	-1.390082e-01	-3.873974e-02	-5.044675e-02	9.265640e-03	5.450990e-02
##	1231	4.030443e-02	2.392387e-02	1.427436e-02	-5.220146e-03	-1.680444e-02
##	1233	7.017212e-07	-2.468421e-07	1.253867e-06	-7.560312e-06	3.403500e-06
##	1234	1.375446e+00	1.497173e+00	-1.630053e-01	1.226817e+00	-3.061272e+00
##	1235	-3.763424e-03	3.436530e-03	-1.501393e-03	-6.174191e-04	1.079579e-03
##	1236	1.812240e+00	9.801309e+00	1.137732e+00	-7.662050e+00	1.282285e+00
##	1238	5.246947e-05	3.519940e-05	5.344064e-06	2.443573e-05	-7.281259e-05
##	1242	-1.857754e-03	1.677821e-03	-7.351292e-04	-3.144840e-04	5.555665e-04
##	1247	-1.491557e-03	1.347155e-03	-5.902197e-04	-2.525152e-04	4.460634e-04

##	1249	8.945440e-03	1.449671e-02	-3.122668e-03	1.174077e-02	-2.772840e-02
##	1251	-6.768296e-03	6.113088e-03	-2.678261e-03	-1.145867e-03	2.024130e-03
##	1252	-1.078553e+00	1.134525e+00	-4.522876e-01	-2.652479e-01	2.255860e-01
##	1253	-4.495785e-01	3.823432e-01	-1.772466e-01	-7.137046e-02	1.363051e-01
##	1256	-3.515293e-03	3.175552e-03	-1.391279e-03	-5.946660e-04	1.050322e-03
##	1258	1.733557e+00	2.100781e+00	5.842053e-01	-4.384725e-01	-8.072315e-01
##	1259	-2.635335e-04	2.379774e-04	-1.042819e-04	-4.460439e-05	7.881168e-05
##	1263	-3.837203e-01	-8.175226e-02	-1.399529e-01	2.054890e-02	1.484865e-01
##	1264	-3.878248e-04	1.947453e-04	-1.493715e-04	-3.406167e-05	1.273706e-04
##	1265	2.728447e+00	1.648555e+00	9.655137e-01	-3.591786e-01	-1.139869e+00
##	1266	2.228930e-02	7.599624e-03	8.050281e-03	-1.762563e-03	-8.850045e-03
##	1269	-3.824099e-03	3.453906e-03	-1.513222e-03	-6.474169e-04	1.143637e-03
##	1270	-1.647805e-03	1.488275e-03	-6.520485e-04	-2.789663e-04	4.927894e-04
##	1271	-1.804147e-05	1.028142e-04	-9.630415e-06	-2.010767e-05	-1.765045e-06
##	1272	3.403995e-01	-1.219661e-01	6.026494e-01	-3.623447e+00	1.630313e+00
##	1273	-1.511529e-03	1.365169e-03	-5.981229e-04	-2.558895e-04	4.520352e-04
##	1274	-5.052539e-01	4.966688e-01	-9.819300e-02	-8.858593e-01	5.276885e-01
##	1276	-1.225024e-03	1.106412e-03	-4.847520e-04	-2.073857e-04	3.663499e-04
##	1282	1.665357e+01	4.641329e+00	6.043652e+00	-1.110089e+00	-6.530451e+00
##	1283	3.399255e-02	3.594823e-02	-6.217830e-03	3.594498e-02	-8.412800e-02
##	1284	-1.801100e-01	1.889114e-01	-4.951864e-03	-5.521629e-01	2.993411e-01
##	1285	9.860625e-02	2.937015e-02	3.573217e-02	-6.949814e-03	-3.881592e-02
##	1286	-1.892863e-01	1.729212e-01	-6.981438e-02	-7.204310e-02	7.543804e-02
##	1287	4.702650e-06	-1.680010e-06	8.338131e-06	-5.015641e-05	2.256911e-05
##	1288	2.442378e+00	9.543705e-01	8.787524e-01	-2.174388e-01	-9.793008e-01
##	1289	2.719343e-01	4.683965e-01	-1.031029e-01	3.694595e-01	-8.736672e-01
##	1290	3.165040e-04	-8.972523e-06	8.238118e-04	-5.441623e-03	2.491089e-03
##	1291	5.124550e-02	2.234410e-02	1.837324e-02	-5.024896e-03	-2.073092e-02
##	1293	-4.902055e-03	1.369008e-03	-1.855052e-03	-2.189107e-04	1.706247e-03
##	1294	-2.021818e-01	1.970144e-01	-8.425212e-02	-2.771304e-02	4.449315e-02
##	1296	-4.614511e-01	1.713437e+00	-5.652700e-01	5.092592e-01	-1.300979e+00
##	1298	1.010109e+00	1.383320e+00	-2.777854e-01	1.210931e+00	-2.849702e+00
##	1299	-1.960002e-10	1.973622e-10	-8.352480e-11	-2.422393e-11	3.617908e-11
##	1301	1.923814e+00	1.285082e+00	2.424467e-01	7.839036e-01	-2.490529e+00

##	1302	-1.164642e-03	1.051786e-03	-4.609771e-04	-1.968493e-04	3.478315e-04
##	1304	-3.600116e+00	3.251788e+00	-1.424627e+00	-6.094571e-01	1.076518e+00
##	1305	-2.031446e-03	1.834767e-03	-8.038604e-04	-3.439072e-04	6.075111e-04
##	1306	-1.679101e-04	-4.781714e-06	-6.212014e-05	2.850322e-06	6.246254e-05
##	1308	-5.501991e+00	5.009034e+00	-2.178278e+00	-9.393966e-01	1.642297e+00
##	1309	-6.470123e-01	1.270114e+00	-4.584268e-01	2.011582e-01	-5.676027e-01
##	1311	5.656500e-01	1.336834e+00	-2.921889e-01	8.613019e-01	-2.106783e+00
##	1312	1.612522e-04	1.934005e-04	-3.558076e-05	1.760874e-04	-4.219989e-04
##	1315	-1.168038e-03	1.054752e-03	-4.622057e-04	-1.976784e-04	3.492882e-04
##	1317	5.841246e+00	5.530690e+00	2.011473e+00	-1.168463e+00	-2.597991e+00
##	1318	9.915462e-08	-3.162011e-08	1.853543e-07	-1.132665e-06	5.112005e-07
##	1320	-1.814371e-03	1.638715e-03	-7.179608e-04	-3.071635e-04	5.426001e-04
##	1321	8.163315e-08	-2.539340e-08	1.542081e-07	-9.451621e-07	4.268173e-07
##	1323	-9.604376e+00	9.406086e+00	-3.913089e+00	-1.546812e+00	2.458874e+00
##	1324	1.086143e-01	1.148622e-01	-1.986569e-02	1.148488e-01	-2.688023e-01
##	1325	-1.210668e-02	8.391378e-01	-2.491754e-01	3.730380e-01	-9.153512e-01
##	1326	-2.615948e-01	-4.303167e-02	-9.576304e-02	1.147308e-02	1.002279e-01
##	1327	-6.453954e-04	-1.798629e-04	-2.342171e-04	4.301929e-05	2.530812e-04
##	1328	-4.992580e-03	1.671391e-03	-1.896969e-03	-2.783499e-04	1.716053e-03
##	1329	6.632512e-02	6.174134e+00	-1.469096e-01	-1.233028e+00	-5.112867e-01
##	1330	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
##	1331	6.462502e-02	3.048326e-01	1.548561e-02	-6.155367e-02	-4.795453e-02
##	1332	-9.074493e-04	8.195649e-04	-3.590848e-04	-1.536180e-04	2.713778e-04
##	1334	-1.550792e-03	1.400713e-03	-6.135442e-04	-2.634525e-04	4.642060e-04
##	1335	-5.564174e-01	5.025777e-01	-2.201789e-01	-9.420584e-02	1.664004e-01
##	1340	-5.741120e-01	6.594389e-01	-2.687630e-01	-3.336936e-02	1.532722e-02
##	1341	-1.746921e-01	1.575646e-01	-6.856920e-02	-3.378126e-02	5.429734e-02
##	1343	-1.890705e-05	4.839815e-08	-7.009040e-06	1.986451e-07	6.995342e-06
##	1347	-1.629251e-04	1.470935e-04	-6.447004e-05	-2.756846e-05	4.872484e-05
##	1348	-1.400820e-01	1.864750e-01	1.092552e-01	-1.317002e+00	6.513519e-01
##	1350	4.434083e-08	-1.219586e-08	8.777664e-08	-5.449794e-07	2.466970e-07
##	1352	-1.097616e+00	3.021041e+00	-1.031022e+00	7.279678e-01	-1.915288e+00
##	1354	-4.026561e-01	-8.314811e-02	-1.469325e-01	2.103619e-02	1.556062e-01
##	1355	8.876082e-01	1.353819e+00	-2.445582e-01	1.028232e+00	-2.501973e+00

## 1356	1.212208e-02	1.281731e-02	-2.215194e-03	1.281368e-02	-2.999266e-02
## 1357	-1.152309e-03	1.040751e-03	-4.559772e-04	-1.950810e-04	3.446068e-04
## 1358	-4.466616e-04	4.033281e-04	-1.767501e-04	-7.558675e-05	1.335643e-04
## 1359	8.291302e-03	2.172203e-01	-2.962481e-03	-4.344132e-02	-2.020174e-02
## 1360	-8.042247e-02	3.706287e-01	-1.197532e-01	1.213396e-01	-3.065942e-01
## 1363	-2.375800e-03	2.145673e-03	-9.401363e-04	-4.021457e-04	7.104432e-04
## 1364	3.503497e-04	1.285702e-03	-3.362721e-04	7.901649e-04	-1.890802e-03
## 1368	-4.235084e-04	4.578329e-04	-1.998118e-04	-1.317510e-05	4.512944e-06
## 1369	-4.959495e-05	-1.377829e-05	-1.801083e-05	3.324959e-06	1.940055e-05
## 1370	-1.512299e-01	1.365241e-01	-5.959263e-02	-2.750229e-02	4.614869e-02
## 1372	-1.537214e-01	1.377444e-01	-6.032881e-02	-2.942172e-02	4.779139e-02
## 1374	-7.643101e-04	6.902638e-04	-3.024460e-04	-1.293739e-04	2.285608e-04
## 1375	-3.493505e-04	-9.735833e-05	-1.267816e-04	2.328747e-05	1.369897e-04
## 1376	-3.775340e-03	3.410951e-03	-1.494345e-03	-6.384324e-04	1.127475e-03
## 1377	2.420505e-01	1.061697e-01	8.676639e-02	-2.386181e-02	-9.796665e-02
## 1378	2.811883e-01	7.836309e-02	1.020454e-01	-1.874946e-02	-1.102604e-01
## 1379	-1.187830e-04	1.195131e-06	-4.406193e-05	1.077677e-06	4.386587e-05
## 1383	-8.772007e-01	1.257846e+00	-3.593081e-01	-2.472023e-01	2.283543e-01
## 1384	-1.954849e-03	1.765582e-03	-7.735540e-04	-3.309302e-04	5.845905e-04
## 1385	2.839459e-01	2.721163e-01	9.768917e-02	-5.745452e-02	-1.265425e-01
## 1386	-4.440984e-02	5.192548e-01	-1.572738e-01	2.053709e-01	-5.118802e-01
## 1387	-9.167283e+00	8.295920e+00	-3.632213e+00	-1.544946e+00	2.724070e+00
## 1388	4.378764e-01	1.277251e+00	-3.048392e-01	7.939206e-01	-1.927329e+00
## 1389	1.323397e-02	3.803851e-03	4.799352e-03	-9.049598e-04	-5.199013e-03
## 1390	5.191992e-03	5.490688e-03	-9.496946e-04	5.490181e-03	-1.284959e-02
## 1391	1.868465e+00	1.811295e+00	2.467027e-02	-3.883923e-01	-3.263044e+00
## 1393	-6.881751e+00	7.930617e+00	-3.212618e+00	-4.288919e-01	2.191045e-01
## 1395	-9.807846e-03	3.302354e-01	-9.159527e-02	1.265162e-01	-3.262211e-01
## 1397	-1.968029e-03	1.777469e-03	-7.787663e-04	-3.331651e-04	5.885447e-04
## 1399	3.188497e-06	-1.140181e-06	5.650689e-06	-3.398553e-05	1.529219e-05
## 1400	-5.703277e+00	5.156464e+00	-2.256974e+00	-9.666141e-01	1.705203e+00
## 1403	-1.727391e-01	1.561044e-01	-6.677296e-02	-4.145918e-02	5.749905e-02
## 1404	-3.768958e-03	3.404104e-03	-1.491404e-03	-6.380771e-04	1.127139e-03
## 1405	-1.104221e-02	1.549913e-02	-4.526229e-03	-2.964380e-03	2.854079e-03

## 1406	-1.735339e-01	1.567038e-01	-6.866770e-02	-2.937291e-02	5.189957e-02
## 1408	5.563893e-01	1.376443e+00	-3.133597e-01	8.941122e-01	-2.170637e+00
## 1409	7.831394e-01	1.474003e+00	-3.116837e-01	1.066584e+00	-2.569438e+00
## 1410	-1.697114e+00	1.532932e+00	-6.715630e-01	-2.873408e-01	5.075301e-01
## 1412	-4.041838e-01	1.752620e+00	-5.694375e-01	5.601354e-01	-1.418990e+00
## 1413	-5.434024e-06	4.014803e-06	-2.125491e-06	-7.416588e-07	1.695440e-06
## 1414	-6.797515e-01	7.831661e-01	-3.189216e-01	-3.842729e-02	1.549704e-02
## 1415	1.398477e+01	6.766976e+00	4.995484e+00	-1.505032e+00	-5.709929e+00
## 1417	2.001961e+01	8.730339e+00	7.177745e+00	-1.963494e+00	-8.098568e+00
## 1418	4.469985e-01	1.770402e+00	-4.647328e-01	1.060506e+00	-2.546377e+00
## 1420	1.981797e-01	1.030145e-01	7.059355e-02	-2.274821e-02	-8.147825e-02
## 1421	-5.452785e-01	-1.518307e-01	-1.978878e-01	3.631955e-02	2.138121e-01
## 1422	6.405318e-01	1.685615e+00	-3.681243e-01	1.020322e+00	-2.524486e+00
## 1423	-1.284657e-02	9.744064e-03	-5.031927e-03	-1.803695e-03	3.988125e-03
## 1424	-3.136310e-03	2.832699e-03	-1.241059e-03	-5.309750e-04	9.379463e-04
## 1425	-3.222623e+00	1.212224e+01	-1.531059e+00	-2.384902e+00	2.376038e-01
## 1426	-1.073962e+00	1.196105e+00	-4.873635e-01	-8.998775e-02	8.698811e-02
## 1427	1.713661e+00	1.940336e+00	-3.001185e-01	1.501732e+00	-4.193665e+00
## 1429	-1.491557e-03	1.347155e-03	-5.902197e-04	-2.525152e-04	4.460634e-04
## 1430	1.878984e-01	-1.697065e-01	7.435262e-02	3.181056e-02	-5.619311e-02
## 1431	1.562692e-03	3.541575e-03	4.808658e-04	-7.241802e-04	-8.575287e-04
## 1432	1.951391e+00	1.160070e+00	6.910643e-01	-2.530964e-01	-8.137417e-01
## 1434	-7.382715e-04	6.667737e-04	-2.921399e-04	-1.249790e-04	2.207839e-04
## 1436	-6.543191e-04	4.378091e-04	-2.554258e-04	-7.834555e-05	2.048188e-04
## 1437	1.745513e-04	1.927341e-04	-3.475225e-05	1.892932e-04	-4.426551e-04
## 1438	-9.404281e-04	8.575709e-04	-3.505237e-04	-3.290515e-04	3.612256e-04
## 1439	-3.287323e-01	1.386214e+00	-4.515805e-01	4.378526e-01	-1.110644e+00
## 1443	-2.128819e-03	1.922730e-03	-8.424382e-04	-3.602837e-04	6.364536e-04
## 1445	-4.205905e-03	3.082704e-03	-1.644432e-03	-5.691025e-04	1.314209e-03
## 1446	2.099569e-02	-5.332726e-03	4.269991e-02	-2.669834e-01	1.210216e-01
## 1447	3.583593e-01	1.426426e+00	-3.746644e-01	8.534023e-01	-2.049283e+00
## 1449	1.247980e+01	1.014919e+01	4.343792e+00	-2.163638e+00	-5.419236e+00
## 1450	-4.127285e+00	4.085060e+00	-1.656385e+00	-7.376831e-01	1.154986e+00
## 1452	-1.975337e-02	1.488703e-01	3.228525e-01	-2.604497e+00	1.229873e+00

## 1454	2.210950e-02	5.140608e-02	-1.231446e-02	3.607351e-02	-8.581778e-02
## 1455	2.908998e-03	3.108192e-03	-5.414982e-04	3.090487e-03	-7.234782e-03
## 1456	-2.021848e-03	1.826126e-03	-8.000516e-04	-3.423583e-04	6.046835e-04
## 1457	-5.243711e-04	4.503971e-04	-2.148386e-04	-6.464864e-05	1.278528e-04
## 1458	-1.545758e-01	1.396111e-01	-6.060329e-02	-3.050907e-02	4.830768e-02
## 1459	-3.112519e-03	2.812150e-03	-1.232011e-03	-5.263060e-04	9.294485e-04
## 1462	-1.075676e-01	6.780738e-02	-4.161815e-02	-1.337383e-02	3.496986e-02
## 1463	5.057072e-01	1.479561e+00	-3.563492e-01	9.261813e-01	-2.242297e+00
## 1464	-5.266690e-04	4.724662e-04	-2.083172e-04	-8.852209e-05	1.577593e-04
## 1465	-7.053765e-01	5.434045e-01	-2.765709e-01	-1.006254e-01	2.181389e-01
## 1466	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
## 1468	5.114877e-01	1.769848e+00	-4.297848e-01	1.032983e+00	-2.527671e+00
## 1470	2.793773e+00	7.891179e-01	1.013581e+00	-1.883214e-01	-1.096365e+00
## 1472	6.132173e-01	1.491070e+00	-3.441925e-01	9.895127e-01	-2.388551e+00
## 1474	4.358726e-08	-1.195182e-08	8.637040e-08	-5.363950e-07	2.428209e-07
## 1475	-2.552914e-03	2.316792e-03	-1.014433e-03	-4.248328e-04	7.474867e-04
## 1477	-1.710103e-03	1.557075e-03	-6.820067e-04	-2.799118e-04	4.913128e-04
## 1478	-8.809831e-01	8.893327e-01	-3.762478e-01	-1.067253e-01	1.595427e-01
## 1479	-2.137727e-05	1.930817e-05	-8.459231e-06	-3.619005e-06	6.392732e-06
## 1480	-3.983039e-04	3.597168e-04	-1.576116e-04	-6.742461e-05	1.191159e-04
## 1481	3.087278e+00	1.457709e+00	1.103808e+00	-3.250329e-01	-1.257672e+00
## 1482	-2.766987e-01	2.499128e-01	-1.094916e-01	-4.684486e-02	8.274965e-02
## 1483	-1.397470e-03	1.262158e-03	-5.529931e-04	-2.365712e-04	4.179089e-04
## 1484	-4.118091e+00	6.004227e+00	-2.303184e+00	3.361983e-01	-1.301460e+00
## 1485	-5.482457e-01	4.951721e-01	-2.169446e-01	-9.281738e-02	1.639586e-01
## 1486	1.523561e-02	-5.385577e-03	2.715852e-02	-1.636346e-01	7.365485e-02
## 1487	7.545353e-01	-1.599455e-01	1.614460e+00	-1.022349e+01	4.645078e+00
## 1489	-1.197509e+00	1.185064e+00	-5.042198e-01	-1.563045e-01	2.439897e-01
## 1494	-1.572116e+00	4.010613e+00	-1.384973e+00	9.032907e-01	-2.398369e+00
## 1496	-2.740110e-04	2.474186e-04	-1.084283e-04	-4.637143e-05	8.194309e-05
## 1498	-1.802510e-03	1.630613e-03	-7.143807e-04	-3.031357e-04	5.348333e-04
## 1500	-9.865252e+00	9.674162e+00	-4.027391e+00	-1.572632e+00	2.495118e+00
## 1501	7.106933e-01	1.526869e+00	-3.417717e-01	1.061147e+00	-2.553605e+00
## 1503	-2.089388e-03	1.887074e-03	-8.267903e-04	-3.537057e-04	6.248318e-04

## 1504	-2.103475e-01	2.104635e-01	-3.153452e-02	-4.423106e-01	2.542784e-01
## 1505	-1.088209e-04	9.612044e-05	-4.316796e-05	-1.758347e-05	3.207105e-05
## 1507	1.586113e-03	-4.724723e-04	3.049866e-03	-1.878564e-02	8.491505e-03
## 1508	-1.824214e-01	2.592545e-01	-9.742605e-02	5.462068e-03	-4.010548e-02
## 1509	8.450990e-01	-2.144060e-01	1.719303e+00	-1.075098e+01	4.873421e+00
## 1510	-1.873302e-01	1.684286e-01	-7.056280e-02	-5.885748e-02	6.916726e-02
## 1511	6.653425e-01	3.799595e-01	2.360563e-01	-8.318577e-02	-2.762250e-01
## 1513	-1.136434e+00	2.194079e+00	-7.941569e-01	3.362116e-01	-9.554268e-01
## 1517	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 1518	1.296900e-01	1.374530e-01	-2.361477e-02	1.358635e-01	-3.205740e-01
## 1519	1.384679e-01	2.753530e-01	4.367640e-02	-5.649044e-02	-7.295507e-02
## 1520	-1.048642e+01	9.503919e+00	-4.067374e+00	-2.421789e+00	3.440245e+00
## 1521	1.276715e-01	3.254612e-01	-7.884184e-02	2.161321e-01	-5.246679e-01
## 1522	8.251936e+00	4.534953e+00	2.932619e+00	-9.962647e-01	-3.411930e+00
## 1523	-1.611118e-04	1.319047e-04	-6.344588e-05	-2.438652e-05	4.898181e-05
## 1525	2.534595e-01	-9.079827e-02	4.487720e-01	-2.698334e+00	1.214080e+00
## 1526	3.041335e-03	8.475828e-04	1.103713e-03	-2.027170e-04	-1.192620e-03
## 1527	-1.160123e-03	8.697287e-04	-4.554922e-04	-1.575190e-04	3.557036e-04
## 1528	-4.499755e-04	4.063882e-04	-1.780585e-04	-7.617291e-05	1.345687e-04
## 1529	-5.147097e-01	4.649620e-01	-2.037115e-01	-8.706986e-02	1.537875e-01
## 1531	1.352235e+00	1.738582e+00	4.529262e-01	-3.619640e-01	-6.375425e-01
## 1532	-1.362909e-03	1.230951e-03	-5.393142e-04	-2.307299e-04	4.075857e-04
## 1535	-1.481648e-03	1.338124e-03	-5.863079e-04	-2.507936e-04	4.430630e-04
## 1536	2.303630e-02	2.267723e-02	7.908137e-03	-4.779601e-03	-1.031605e-02
## 1537	3.469746e-01	1.128543e-01	1.254701e-01	-2.635294e-02	-1.373337e-01
## 1538	-1.870809e-03	1.689704e-03	-7.402929e-04	-3.167244e-04	5.594822e-04
## 1539	6.476980e-02	2.777473e-01	-7.341956e-02	1.619793e-01	-3.918409e-01
## 1540	3.459033e-02	1.100486e-02	1.251504e-02	-2.577974e-03	-1.367182e-02
## 1542	7.324568e-01	7.754703e-01	-1.342351e-01	7.749099e-01	-1.813717e+00
## 1543	-6.543191e-04	4.378091e-04	-2.554258e-04	-7.834555e-05	2.048188e-04
## 1544	-5.497556e+00	4.999188e+00	-2.176360e+00	-9.374834e-01	1.641436e+00
## 1548	5.233057e-01	1.023143e+00	-2.049730e-01	6.944429e-01	-1.703137e+00
## 1551	-2.332151e+00	3.980713e+00	-1.475974e+00	4.541678e-01	-1.382497e+00
## 1553	7.843594e-01	1.370489e+00	-2.704442e-01	9.946872e-01	-2.415533e+00

## 1556	-5.551241e-01	-6.661942e-02	-2.039019e-01	1.941616e-02	2.107464e-01
## 1558	-1.638612e-04	-4.550103e-05	-5.947815e-05	1.090779e-05	6.421340e-05
## 1559	2.477234e-01	-2.297886e-02	6.045333e-01	-3.942437e+00	1.800746e+00
## 1560	-2.504107e-02	-3.011216e-02	5.652209e-03	-2.812478e-02	6.600428e-02
## 1561	-1.970628e-01	1.867573e-01	-5.579478e-02	-2.078657e-01	1.410480e-01
## 1562	-6.288826e-02	1.487043e-01	-2.744983e-02	-2.896126e-02	1.151671e-02
## 1563	1.144956e-04	-4.103250e-05	2.026839e-04	-1.218603e-03	5.482881e-04
## 1565	-2.596340e-04	2.338061e-04	-1.027944e-04	-4.363495e-05	7.741286e-05
## 1566	-2.023926e-04	1.809429e-04	-8.032953e-05	-3.317917e-05	5.954438e-05
## 1568	3.167150e+00	2.818173e+00	1.095642e+00	-5.974925e-01	-1.394420e+00
## 1569	1.453216e-04	1.457964e-04	-2.054417e-05	1.410391e-04	-3.365963e-04
## 1570	1.075329e+00	1.795615e+00	-3.910062e-01	1.435302e+00	-3.392004e+00
## 1571	3.572474e+00	2.361363e+00	1.258554e+00	-5.107716e-01	-1.508472e+00
## 1572	1.760660e-01	-1.590160e-01	6.967038e-02	2.980662e-02	-5.265477e-02
## 1573	1.338913e+01	3.731373e+00	4.858977e+00	-8.924571e-01	-5.250336e+00
## 1574	1.464796e+01	5.756997e+00	5.269327e+00	-1.310719e+00	-5.875874e+00
## 1575	8.212147e-02	7.812818e-01	-2.176147e-01	3.956815e-01	-9.648412e-01
## 1577	-5.953171e-02	1.661449e-02	-2.252592e-02	-2.661081e-03	2.072950e-02
## 1578	-6.170498e-01	-5.417620e-02	-2.271994e-01	1.761422e-02	2.326906e-01
## 1579	7.212676e-01	1.314302e+00	-2.653985e-01	9.410088e-01	-2.284135e+00
## 1580	-2.042885e-02	2.157237e-02	-8.375304e-03	-3.581679e-03	5.073754e-03
## 1581	3.656770e-02	3.867097e-02	-6.688701e-03	3.866778e-02	-9.050060e-02
## 1582	-4.785150e-02	-1.261386e-02	-1.786133e-02	4.206806e-03	1.687276e-02
## 1584	-1.638184e-01	1.479621e-01	-6.482472e-02	-2.773334e-02	4.898920e-02
## 1585	-5.527610e+00	5.039207e+00	-2.188610e+00	-9.451420e-01	1.649411e+00
## 1586	-1.431693e-01	1.305275e+00	-3.615743e-01	4.056301e-01	-1.099762e+00
## 1587	-3.507493e-04	3.128398e-04	-1.393246e-04	-5.702855e-05	1.027369e-04
## 1588	-6.078286e-02	1.613040e-01	2.445644e-01	-2.123303e+00	1.012457e+00
## 1590	-2.815295e-04	2.820112e-05	-1.052928e-04	-2.127814e-06	1.013650e-04
## 1591	-5.912386e-01	4.966936e-01	-2.329418e-01	-9.273119e-02	1.796723e-01
## 1592	-1.865608e-03	1.685006e-03	-7.382346e-04	-3.158440e-04	5.579269e-04
## 1593	-2.689740e-04	2.428894e-04	-1.064348e-04	-4.552485e-05	8.043852e-05
## 1595	-1.255444e-04	1.130569e-04	-4.968064e-05	-2.116062e-05	3.752866e-05
## 1596	-5.698139e-01	-1.587946e-01	-2.067883e-01	3.798016e-02	2.234432e-01

## 1597	5.550792e-01	1.861815e+00	-4.521069e-01	1.101839e+00	-2.689589e+00
## 1598	4.636687e-01	1.610087e+00	-4.152614e-01	9.975038e-01	-2.390136e+00
## 1599	1.108414e+00	1.871651e+00	-4.091644e-01	1.488843e+00	-3.519410e+00
## 1600	2.838417e-03	-9.248719e-04	5.257645e-03	-3.204269e-02	1.445480e-02
## 1601	3.121411e+00	1.588271e+00	1.112835e+00	-3.514739e-01	-1.280590e+00
## 1602	3.565602e-01	1.040674e-01	1.292669e-01	-2.470457e-02	-1.401898e-01
## 1604	8.279559e-03	8.768557e-03	-1.518209e-03	8.760843e-03	-2.050508e-02
## 1605	-7.411919e-02	6.690714e-02	-2.932826e-02	-1.254246e-02	2.216971e-02
## 1606	-8.980838e-04	8.109280e-04	-3.554038e-04	-1.519237e-04	2.684753e-04
## 1607	-1.416889e-01	1.246730e+00	-3.862594e-01	4.828637e-01	-1.199271e+00
## 1608	-1.355376e+00	7.501830e-01	-5.231766e-01	-1.348361e-01	4.426661e-01
## 1609	-1.043511e-02	5.148363e-04	-3.881950e-03	1.218469e-05	3.822403e-03
## 1610	4.212327e-06	-1.504155e-06	7.470509e-06	-4.494064e-05	2.022243e-05
## 1611	-1.625217e-01	1.218083e-01	-6.348475e-02	-2.355127e-02	5.106172e-02
## 1612	2.357443e-02	1.462455e-02	8.331676e-03	-3.179313e-03	-9.878822e-03
## 1614	-2.681018e-03	2.421548e-03	-1.060972e-03	-4.537290e-04	8.014994e-04
## 1616	-4.248942e-01	-1.128228e-01	-1.543512e-01	2.720556e-02	1.661754e-01
## 1617	-3.654370e-04	3.299973e-04	-1.446067e-04	-6.184932e-05	1.092830e-04
## 1618	2.294201e+01	6.688873e+00	8.317569e+00	-1.588150e+00	-9.019600e+00
## 1619	-6.236734e-01	5.185624e-01	-2.454932e-01	-9.739511e-02	1.902401e-01
## 1621	6.536981e-01	1.560332e+00	-3.760439e-01	1.084920e+00	-2.582259e+00
## 1622	5.145733e-01	1.571168e+00	-3.971999e-01	1.009312e+00	-2.413188e+00
## 1623	-1.452136e-02	1.311561e-02	-5.746201e-03	-2.458454e-03	4.342764e-03
## 1625	8.612349e-01	9.107706e-01	-1.575310e-01	9.106958e-01	-2.131452e+00
## 1627	1.817570e-01	-1.641600e-01	7.192246e-02	3.077089e-02	-5.435645e-02
## 1629	-4.314282e-01	3.765490e-01	-1.703613e-01	-7.040705e-02	1.300320e-01
## 1630	2.531139e-01	7.055016e-01	-1.549413e-01	4.157768e-01	-1.032994e+00
## 1631	2.962497e-02	-7.866053e-03	5.938670e-02	-3.699259e-01	1.675675e-01
## 1632	-7.512725e-05	6.669794e-05	-2.970931e-05	-1.245625e-05	2.250840e-05
## 1634	6.740381e-01	1.203438e+00	-2.446149e-01	8.777109e-01	-2.122139e+00
## 1635	-4.237928e-04	3.827433e-04	-1.676977e-04	-7.174129e-05	1.267389e-04
## 1636	3.790869e-03	7.124053e-02	-2.040293e-02	3.351787e-02	-8.350378e-02
## 1637	1.053117e+01	7.030054e+00	3.708142e+00	-1.519500e+00	-4.452175e+00
## 1639	-5.345194e+00	4.951124e+00	-2.118555e+00	-9.295640e-01	1.588815e+00

##	1640	7.313727e-05	6.903075e-05	-6.781580e-06	6.345921e-05	-1.558049e-04
##	1641	3.499448e+00	1.572040e+00	1.253401e+00	-3.523982e-01	-1.419257e+00
##	1643	-1.745659e-03	1.576665e-03	-6.907702e-04	-2.955352e-04	5.220542e-04
##	1644	2.027741e+01	8.126706e+00	7.290050e+00	-1.845831e+00	-8.146451e+00
##	1645	-1.586123e-01	1.457116e-01	-6.348809e-02	-2.574167e-02	4.471167e-02
##	1646	8.005851e-01	1.031063e+00	-1.005930e-01	6.853420e-01	-1.799353e+00
##	1650	-1.610665e-01	2.260063e-01	1.394059e-01	-1.625256e+00	8.000922e-01
##	1651	2.855268e-01	3.017895e-01	-5.215835e-02	3.018010e-01	-7.063857e-01
##	1652	-1.145829e-03	1.034780e-03	-4.534803e-04	-1.937884e-04	3.424070e-04
##	1654	8.243062e-01	-2.008626e-01	1.697853e+00	-1.065049e+01	4.830696e+00
##	1656	2.177883e+01	3.860970e+00	1.289988e+01	-3.902225e+01	9.853928e+00
##	1657	-2.420519e-03	1.100179e-03	-9.277120e-04	-1.928835e-04	8.092617e-04
##	1658	-8.096053e-04	7.312202e-04	-3.203670e-04	-1.370610e-04	2.421182e-04
##	1659	-1.346970e-01	-2.470193e-02	-4.923844e-02	6.415589e-03	5.180845e-02
##	1661	-9.101436e-04	8.219641e-04	-3.601496e-04	-1.540683e-04	2.721878e-04
##	1662	7.217851e-01	-1.936767e-01	1.441792e+00	-8.972708e+00	4.063714e+00
##	1663	1.738826e-02	5.697891e-03	6.193706e-03	-1.102369e-03	-7.243981e-03
##	1665	-1.097977e-03	9.918038e-04	-4.348757e-04	-1.849450e-04	3.268281e-04
##	1668	4.042175e-07	-1.403961e-07	7.267910e-07	-4.390559e-06	1.977262e-06
##	1669	6.064712e-04	2.904700e-04	2.166479e-04	-6.449525e-05	-2.476622e-04
##	1670	1.375414e-03	1.247942e-03	5.845830e-05	-4.333429e-04	-2.251252e-03
##	1671	-7.670420e-04	6.927567e-04	-3.035248e-04	-1.298487e-04	2.293871e-04
##	1673	-2.311614e+00	2.097047e+00	-9.149773e-01	-3.931928e-01	6.905868e-01
##	1674	3.696382e-01	-1.324469e-01	6.544024e-01	-3.934592e+00	1.770307e+00
##	1675	3.126973e-01	1.956763e+00	-5.272948e-01	1.043364e+00	-2.540690e+00
##	1677	1.057236e-02	-2.249100e-03	2.260113e-02	-1.430895e-01	6.501059e-02
##	1679	3.777599e-02	1.143445e-02	1.368387e-02	-2.698887e-03	-1.488486e-02
##	1680	-3.649735e-02	-3.816972e-03	-1.342142e-02	1.164140e-03	1.381145e-02
##	1683	1.003252e-05	1.159912e-05	-2.196517e-06	1.122636e-05	-2.619506e-05
##	1685	1.484741e+00	7.980170e-01	5.281545e-01	-1.756749e-01	-6.124797e-01
##	1687	-1.050483e-01	-2.925686e-02	-3.812304e-02	6.998297e-03	4.119156e-02
##	1689	7.651335e+00	3.005175e+00	2.752476e+00	-6.842523e-01	-3.069102e+00
##	1690	-2.128147e-03	1.922005e-03	-8.421302e-04	-3.602406e-04	6.364106e-04
##	1691	-6.988307e-01	1.306141e+00	-4.757275e-01	1.874449e-01	-5.400545e-01

##	1692	-2.878237e-01	1.200058e+00	-3.913326e-01	3.771248e-01	-9.571935e-01
##	1693	2.665142e-03	-8.666588e-04	4.941103e-03	-3.012136e-02	1.358874e-02
##	1694	-1.035317e-01	9.349287e-02	-4.096419e-02	-1.755220e-02	3.097668e-02
##	1695	1.323639e+00	1.585068e+00	4.465907e-01	-3.310073e-01	-6.148573e-01
##	1696	1.028027e-06	-3.636352e-07	1.831875e-06	-1.103618e-05	4.967462e-06
##	1697	7.001683e-05	6.245257e-05	-4.017878e-06	5.568320e-05	-1.397186e-04
##	1698	-1.288398e-05	1.142634e-05	-5.093254e-06	-2.137251e-06	3.866511e-06
##	1699	-3.815038e-04	-9.628339e-05	-1.387637e-04	2.351247e-05	1.486730e-04
##	1701	1.413462e-01	7.912421e-02	5.019235e-02	-1.735363e-02	-5.855609e-02
##	1704	-1.384081e-03	1.250068e-03	-5.476905e-04	-2.343160e-04	4.139221e-04
##	1705	2.977569e-02	-8.424774e-04	7.253205e-02	-4.758882e-01	2.159361e-01
##	1706	-3.131568e-03	2.828448e-03	-1.239255e-03	-5.300042e-04	9.362506e-04
##	1707	-5.040331e+00	4.553203e+00	-1.994517e+00	-8.534812e-01	1.507296e+00
##	1708	-1.378699e-01	1.804935e-01	8.676545e-02	-1.135012e+00	5.643298e-01
##	1710	-1.464216e-03	1.322458e-03	-5.794010e-04	-2.478849e-04	4.378857e-04
##	1711	1.441718e-01	7.462213e-02	5.136458e-02	-1.648599e-02	-5.924748e-02
##	1713	-2.617606e-01	3.609085e-01	-1.054466e-01	-8.143736e-02	7.434425e-02
##	1716	-4.514916e-01	-1.258084e-01	-1.638489e-01	3.009106e-02	1.770440e-01
##	1717	2.519350e+00	3.066630e-01	2.817445e+00	-1.700665e+01	5.956254e+00
##	1718	1.154160e+00	2.650237e+00	-6.050192e-01	1.799684e+00	-4.334959e+00
##	1719	1.002295e+00	1.131914e+00	-1.199504e-01	8.858967e-01	-2.234110e+00
##	1720	6.669896e+00	4.262558e+00	2.353816e+00	-9.244610e-01	-2.804815e+00
##	1722	6.006990e-01	1.424927e+00	-3.429222e-01	9.929100e-01	-2.362996e+00
##	1723	-8.175300e-04	7.381718e-04	-3.235651e-04	-1.381957e-04	2.442424e-04
##	1724	-5.563089e-01	1.007363e+00	-3.670618e-01	1.294566e-01	-3.859277e-01
##	1725	-2.948340e-03	2.662942e-03	-1.166712e-03	-4.990742e-04	8.816030e-04
##	1726	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
##	1727	-2.962700e-01	3.734317e-01	-1.449314e-01	-1.085534e-02	-1.520263e-02
##	1728	-3.269704e+00	2.959625e+00	-1.294024e+00	-5.548447e-01	9.773311e-01
##	1729	1.110564e-04	9.982514e-05	3.763787e-05	-1.940749e-05	-5.188128e-05
##	1730	2.582202e-01	-9.250541e-02	4.571970e-01	-2.748983e+00	1.236869e+00
##	1732	-3.054841e-03	2.760088e-03	-1.209139e-03	-5.166662e-04	9.123840e-04
##	1733	-2.707993e-06	1.810914e-06	-1.053950e-06	-3.317013e-07	8.598550e-07
##	1735	-1.265723e-03	2.214354e-02	-1.084657e-03	-4.404532e-03	-1.278941e-03

##	1737	-1.645270e-03	1.485982e-03	-6.510462e-04	-2.785345e-04	4.920288e-04
##	1738	-4.013218e-02	3.624707e-02	-1.588058e-02	-6.794324e-03	1.200196e-02
##	1739	-4.853995e-03	1.429212e-03	-1.838810e-03	-2.317042e-04	1.684101e-03
##	1740	-4.828111e-01	-1.345484e-01	-1.752145e-01	3.218101e-02	1.893264e-01
##	1741	-3.859038e-03	3.512968e-03	-1.535898e-03	-6.390846e-04	1.120738e-03
##	1743	8.359460e-01	8.843485e-01	-1.529908e-01	8.840334e-01	-2.069187e+00
##	1745	-1.906874e-04	2.059572e-04	9.639506e-06	-7.016787e-04	3.720079e-04
##	1746	-8.475204e-01	7.594116e-01	-3.345844e-01	-1.470259e-01	2.562150e-01
##	1748	-1.560954e-04	-4.350164e-05	-5.664778e-05	1.040466e-05	6.121021e-05
##	1749	8.223061e-01	2.609741e+00	-6.636893e-01	1.657145e+00	-3.965197e+00
##	1750	-1.568354e-03	1.416517e-03	-6.206090e-04	-2.655162e-04	4.690297e-04
##	1751	-8.645722e-01	1.418370e+00	-5.300955e-01	1.420228e-01	-4.482921e-01
##	1752	-3.280788e-10	3.200083e-10	-1.367164e-10	-4.551529e-11	7.218857e-11
##	1753	2.241107e-02	9.466271e-03	1.553444e-02	-9.391979e-02	1.755166e-02
##	1754	-2.713305e+00	4.564285e+00	-1.131992e+00	-8.846172e-01	6.462419e-01
##	1755	-9.408197e-01	8.498452e-01	-3.722917e-01	-1.593001e-01	2.813536e-01
##	1756	-1.128343e-04	1.018983e-04	-4.465000e-05	-1.909758e-05	3.374125e-05
##	1758	-2.030457e-01	1.899738e-01	-6.365111e-02	-1.656956e-01	1.225202e-01
##	1759	-2.246640e-03	9.563511e-04	-8.592835e-04	-1.660611e-04	7.561825e-04
##	1760	3.392186e-01	1.239789e-02	9.388262e-01	-6.271759e+00	2.876747e+00
##	1761	-3.362478e-01	4.276063e-01	-1.696255e-01	-7.916579e-04	-3.695795e-02
##	1762	4.979062e+00	7.614574e-01	5.351985e+00	-3.231322e+01	1.096746e+01
##	1763	-8.799732e+00	9.145131e+00	-3.518275e+00	-1.724568e+00	2.525972e+00
##	1764	2.214313e-02	2.343599e-02	-4.055886e-03	2.342339e-02	-5.482269e-02
##	1765	-4.450981e-03	4.048318e-03	-1.768549e-03	-7.433584e-04	1.303896e-03
##	1767	-2.599944e-01	2.348252e-01	-1.028815e-01	-4.401677e-02	7.775407e-02
##	1770	-2.486646e-01	4.271828e-01	-1.581845e-01	4.966708e-02	-1.504519e-01
##	1771	1.017444e+00	1.249557e+00	-1.777766e-01	1.009132e+00	-2.481031e+00
##	1772	5.841210e-07	-2.047543e-07	1.045546e-06	-6.307552e-06	2.839822e-06
##	1774	5.365591e-02	5.351610e-02	-5.187719e-03	2.880638e-02	-1.155877e-01
##	1775	-8.369133e-03	1.913715e-01	-8.420452e-03	-3.809633e-02	-1.200007e-02
##	1777	3.344208e-01	4.787670e-01	-9.520961e-02	3.895385e-01	-9.558044e-01
##	1778	6.653425e-01	3.799595e-01	2.360563e-01	-8.318577e-02	-2.762250e-01
##	1779	5.841246e+00	5.530690e+00	2.011473e+00	-1.168463e+00	-2.597991e+00

##	1780	-5.997111e-03	1.780949e-03	-2.272195e-03	-2.894814e-04	2.079805e-03
##	1781	1.447785e-01	5.673144e-02	5.208374e-02	-1.291541e-02	-5.807187e-02
##	1783	-2.266891e-03	2.047437e-03	-8.970284e-04	-3.837706e-04	6.779207e-04
##	1784	-8.695822e-04	7.852822e-04	-3.441178e-04	-1.471431e-04	2.599841e-04
##	1785	-3.358427e-04	4.910150e-04	-1.947638e-04	4.397801e-05	-1.328318e-04
##	1786	7.106880e-01	-1.410868e-01	1.544859e+00	-9.819881e+00	4.464786e+00
##	1787	1.827434e-02	1.781071e-02	-1.250393e-03	6.786690e-03	-3.744599e-02
##	1788	-1.254185e-03	1.133218e-03	-4.951686e-04	-2.211528e-04	3.792272e-04
##	1789	-1.930748e-03	1.743824e-03	-7.640124e-04	-3.268638e-04	5.774009e-04
##	1791	4.344219e-02	8.852200e-02	-2.051239e-02	6.522542e-02	-1.547678e-01
##	1793	-4.993666e-01	-1.391467e-01	-1.812231e-01	3.328145e-02	1.958172e-01
##	1796	-5.778989e-01	-9.315154e-02	-2.116068e-01	2.496404e-02	2.212667e-01
##	1797	-1.291493e-03	1.166444e-03	-5.110548e-04	-2.186370e-04	3.862261e-04
##	1799	5.178889e-05	3.478504e-05	5.268916e-06	2.412171e-05	-7.188942e-05
##	1800	-2.478482e-01	2.238545e-01	-9.807520e-02	-4.196037e-02	7.412164e-02
##	1801	-3.828809e-03	2.878977e-01	-7.616985e-02	1.055271e-01	-2.786940e-01
##	1802	1.016711e-01	1.614681e-01	-3.451771e-02	1.319471e-01	-3.114914e-01
##	1803	-5.133076e-01	5.062431e-01	-9.557431e-02	-9.328914e-01	5.515864e-01
##	1804	1.440476e+00	1.382830e+00	4.955110e-01	-2.919260e-01	-6.421717e-01
##	1805	-7.359007e-05	1.139513e-05	-2.956009e-05	3.340790e-06	1.875408e-05
##	1806	-2.776411e-03	2.507639e-03	-1.098645e-03	-4.700444e-04	8.303150e-04
##	1807	-1.328095e+00	1.384142e+00	-5.323914e-01	-2.574767e-01	3.759671e-01
##	1809	-2.205998e-03	1.992426e-03	-8.729335e-04	-3.734560e-04	6.597065e-04
##	1810	-8.620769e-04	7.785868e-04	-3.411296e-04	-1.459395e-04	2.578126e-04
##	1813	-8.521172e-02	7.617479e-02	-3.369593e-02	-1.427715e-02	2.554943e-02
##	1814	-1.637365e-03	1.478821e-03	-6.479179e-04	-2.771916e-04	4.896659e-04
##	1815	-8.281824e-01	1.341969e+00	-5.008836e-01	1.236677e-01	-4.032874e-01
##	1818	3.703635e-03	1.575610e-03	1.328863e-03	-3.550694e-04	-1.495586e-03
##	1819	2.457112e-03	1.542459e-03	1.051485e-03	-6.446987e-03	-4.997322e-04
##	1820	5.431095e-04	1.967802e-04	1.958117e-04	-4.520949e-05	-2.166437e-04
##	1821	-8.018196e-02	-2.226158e-03	-2.965681e-02	1.327838e-03	2.985768e-02
##	1823	2.536181e+00	9.439221e-01	9.138105e-01	-2.163889e-01	-1.013199e+00
##	1824	3.016562e-03	1.435492e-03	1.078073e-03	-3.194732e-04	-1.230289e-03
##	1825	-1.401832e-04	6.860291e-05	-5.386145e-05	-1.215164e-05	4.649157e-05

##	1826	-3.694195e-01	-1.029517e-01	-1.340641e-01	2.462366e-02	1.448620e-01
##	1828	-1.267250e-04	1.661771e-04	8.033342e-05	-1.047857e-03	5.208659e-04
##	1829	-2.609756e+00	2.358020e+00	-1.032724e+00	-4.420091e-01	7.804027e-01
##	1830	-8.555561e-01	1.038415e+00	-4.169589e-01	-2.448845e-02	-3.898533e-02
##	1832	-4.774398e-04	8.070064e-05	-1.794883e-04	-1.014212e-05	1.692669e-04
##	1834	-4.659685e+00	4.229267e+00	-1.844443e+00	-7.930053e-01	1.391898e+00
##	1835	7.129964e-03	7.547895e-03	-1.306474e-03	7.542987e-03	-1.765449e-02
##	1838	1.009695e+00	1.194787e+00	3.410656e-01	-2.496383e-01	-4.678937e-01
##	1839	8.086963e-02	8.833262e-01	-2.415685e-01	4.257480e-01	-1.052073e+00
##	1840	-1.489188e-03	1.345013e-03	-5.892828e-04	-2.521124e-04	4.453536e-04
##	1841	-1.247775e+00	4.698663e+00	-1.534766e+00	1.374826e+00	-3.540177e+00
##	1842	-5.780376e-01	5.220706e-01	-2.287332e-01	-9.785932e-02	1.728690e-01
##	1843	2.505457e-02	2.647882e-01	-7.483264e-02	1.339117e-01	-3.261754e-01
##	1844	-1.399100e-01	1.258213e-01	-5.534825e-02	-2.357790e-02	4.188446e-02
##	1846	-8.827263e-01	1.162583e+00	-4.571154e-01	1.604966e-02	-1.414339e-01
##	1847	9.086096e+00	2.532370e+00	3.297382e+00	-6.056760e-01	-3.562985e+00
##	1848	-2.508768e-03	2.266208e-03	-9.929475e-04	-4.242982e-04	7.494683e-04
##	1850	6.497121e-03	-2.244229e-03	1.171380e-02	-7.082109e-02	3.189908e-02
##	1852	-3.717223e-04	-9.810425e-05	-1.350684e-04	2.372099e-05	1.452700e-04
##	1853	6.297900e-01	1.659295e+00	-3.824267e-01	1.052671e+00	-2.561053e+00
##	1856	1.527035e-02	1.889726e-02	-3.604360e-03	1.739255e-02	-4.084273e-02
##	1858	-9.635111e-02	2.274248e+00	-6.746392e-01	9.525670e-01	-2.363842e+00
##	1859	3.018439e-01	-9.923981e-02	5.568012e-01	-3.389378e+00	1.528610e+00
##	1861	-9.243379e-01	8.354808e-01	-3.657842e-01	-1.566140e-01	2.763836e-01
##	1862	-4.567032e-05	9.223003e-06	-1.882151e-05	2.660981e-06	9.862645e-06
##	1863	-2.063306e-01	-2.117811e-02	-7.588648e-02	6.501301e-03	7.804882e-02
##	1864	-9.169204e-04	8.281374e-04	-3.628322e-04	-1.552273e-04	2.742123e-04
##	1865	1.092771e-06	-9.855140e-07	4.325276e-07	1.843418e-07	-3.263363e-07
##	1867	1.236106e-02	3.717485e-03	4.478283e-03	-8.782666e-04	-4.868809e-03
##	1868	-3.586815e-02	2.095808e+00	-6.229552e-01	9.281744e-01	-2.278421e+00
##	1869	-4.503753e-03	8.595959e-04	-1.693255e-03	-1.216786e-04	1.599044e-03
##	1870	5.841246e+00	5.530690e+00	2.011473e+00	-1.168463e+00	-2.597991e+00
##	1872	-8.982449e-04	8.112355e-04	-3.554443e-04	-1.520510e-04	2.686176e-04
##	1873	1.910035e-01	-6.840871e-02	3.382275e-01	-2.033735e+00	9.150590e-01

##	1875	1.837341e-02	1.943074e-02	-3.359930e-03	1.942649e-02	-4.546884e-02
##	1876	-1.962324e-03	1.772360e-03	-7.765056e-04	-3.322180e-04	5.868506e-04
##	1877	-3.272535e-03	-8.441245e-04	-1.189502e-03	2.045786e-04	1.277927e-03
##	1878	-1.866013e+00	1.685834e+00	-7.385203e-01	-3.157299e-01	5.575776e-01
##	1879	-1.466059e-03	1.324108e-03	-5.801306e-04	-2.481927e-04	4.384360e-04
##	1880	1.029489e+01	3.524294e+00	3.359387e+00	5.805146e-02	-5.470985e+00
##	1881	-3.862503e-03	3.488602e-03	-1.528428e-03	-6.538996e-04	1.155088e-03
##	1885	-5.626060e-01	5.081424e-01	-2.226271e-01	-9.524860e-02	1.682531e-01
##	1887	-9.963499e-01	8.993527e-01	-3.942471e-01	-1.685743e-01	2.980127e-01
##	1890	3.340865e-03	2.363412e-03	1.172393e-03	-5.079915e-04	-1.423902e-03
##	1891	-1.491557e-03	1.347155e-03	-5.902197e-04	-2.525152e-04	4.460634e-04
##	1892	-2.134234e-03	1.927630e-03	-8.445322e-04	-3.613219e-04	6.382612e-04
##	1894	-2.207199e-01	-6.151169e-02	-8.010029e-02	1.471216e-02	8.655185e-02
##	1895	4.124253e+00	2.814518e+00	1.450492e+00	-6.073275e-01	-1.748409e+00
##	1896	-3.196314e-03	2.900381e-03	-1.269608e-03	-5.330131e-04	9.377476e-04
##	1897	5.600737e-03	5.935632e-03	-1.028211e-03	5.928165e-03	-1.387530e-02
##	1899	2.370668e-05	-8.489978e-06	4.198129e-05	-2.524333e-04	1.135802e-04
##	1900	-2.392709e+00	2.416780e+00	-9.587701e-01	-4.442639e-01	6.766795e-01
##	1901	-6.433463e-10	9.436327e-10	5.901145e-10	-6.800004e-09	3.318579e-09
##	1902	-3.770467e-01	-2.412545e-03	-1.396814e-01	4.635741e-03	1.397680e-01
##	1903	-2.693016e-01	4.729901e-01	-1.743363e-01	5.840271e-02	-1.743057e-01
##	1905	-3.306124e-04	-8.741909e-05	-1.201244e-04	2.112593e-05	1.292242e-04
##	1906	-5.260892e-04	1.885133e-04	-2.008240e-04	-3.036830e-05	1.775825e-04
##	1907	-1.717475e-02	-4.490973e-03	-6.240998e-03	1.085815e-03	6.711546e-03
##	1908	1.780784e-01	2.140503e+00	-5.998431e-01	1.051013e+00	-2.573016e+00
##	1909	-1.277062e-04	-3.496111e-05	-4.639255e-05	8.459802e-06	4.991302e-05
##	1910	-1.947595e-03	1.759053e-03	-7.706784e-04	-3.297210e-04	5.824425e-04
##	1911	9.026643e-05	8.695590e-05	-9.895090e-06	8.157477e-05	-1.981272e-04
##	1913	6.204565e-02	3.562968e-02	2.200762e-02	-7.796640e-03	-2.577465e-02
##	1915	-1.125794e-03	1.016795e-03	-4.454851e-04	-1.905904e-04	3.366782e-04
##	1916	-1.434349e+00	2.302880e+00	-8.588321e-01	1.987409e-01	-6.656700e-01
##	1917	4.385682e-01	1.489734e+00	-3.829968e-01	9.285051e-01	-2.223955e+00
##	1918	-1.197499e+00	2.416206e+00	-8.673153e-01	4.008214e-01	-1.121375e+00
##	1919	-1.666440e-01	1.955571e-01	4.776540e-02	-9.226707e-01	4.707229e-01

##	1920	1.692318e+01	9.927873e+00	5.996831e+00	-2.168413e+00	-7.046687e+00
##	1921	-1.846050e-04	1.550325e-04	-7.272470e-05	-2.891729e-05	5.612959e-05
##	1923	-4.329208e-01	5.629539e-01	-1.751791e-01	-1.146353e-01	1.192600e-01
##	1924	-1.233728e+00	1.667906e+00	-6.513402e-01	4.133856e-02	-2.445054e-01
##	1925	-5.000749e-05	4.506261e-05	-1.978629e-05	-8.443379e-06	1.496012e-05
##	1927	-1.674007e-01	1.492743e-01	-6.475677e-02	-3.898356e-02	5.549951e-02
##	1929	-4.843111e-03	1.691691e-03	-1.842078e-03	-2.841843e-04	1.659336e-03
##	1930	-1.906765e-01	1.907428e-01	-2.864120e-02	-4.005024e-01	2.302925e-01
##	1932	-1.228342e-02	2.216526e+00	-6.467063e-01	9.749496e-01	-2.409035e+00
##	1933	-2.448127e-03	2.211135e-03	-9.687466e-04	-4.144510e-04	7.321147e-04
##	1934	-1.367772e-01	1.235587e-01	-5.397928e-02	-2.427828e-02	4.143836e-02
##	1935	-5.746651e-01	-1.076453e-01	-2.100059e-01	2.782200e-02	2.212110e-01
##	1937	1.394096e-01	-1.259122e-01	5.516553e-02	2.360099e-02	-4.169115e-02
##	1938	6.884208e+01	-6.218678e+01	2.721779e+01	1.183956e+01	-2.067489e+01
##	1939	-4.639948e-01	1.976246e+00	-6.088592e-01	5.431144e-01	-1.457058e+00
##	1940	-8.418586e-04	7.603116e-04	-3.331323e-04	-1.425049e-04	2.517532e-04
##	1943	7.863026e-01	1.466903e+00	-3.012874e-01	1.045932e+00	-2.535240e+00
##	1944	-3.522246e-03	3.181319e-03	-1.393791e-03	-5.962902e-04	1.053310e-03
##	1945	-1.430498e-02	1.478843e-02	-5.761981e-03	-2.673856e-03	3.939860e-03
##	1949	-1.275483e+00	5.035012e+00	-1.645752e+00	1.531041e+00	-3.908787e+00
##	1951	-9.679198e-04	8.742053e-04	-3.830129e-04	-1.638632e-04	2.894648e-04
##	1952	-6.671495e-02	-1.741474e-02	-2.423558e-02	4.147841e-03	2.609904e-02
##	1954	6.504049e-03	6.662157e-03	2.225693e-03	-1.401563e-03	-2.932602e-03
##	1955	-1.352452e-01	1.609822e+00	-4.925591e-01	6.510117e-01	-1.610509e+00
##	1956	-1.626774e-01	1.169160e+00	-3.660398e-01	4.354918e-01	-1.085727e+00
##	1957	-3.085395e-03	3.523314e-03	-1.442607e-03	-1.781588e-04	8.865250e-05
##	1958	2.528885e+00	7.048156e-01	9.177430e-01	-1.685735e-01	-9.916665e-01
##	1959	3.222105e-01	1.174515e-01	1.161639e-01	-2.699769e-02	-1.285287e-01
##	1960	7.080312e-01	1.538198e+00	-3.317424e-01	1.031257e+00	-2.509820e+00
##	1962	-2.082387e-04	-5.803319e-05	-7.557089e-05	1.388041e-05	8.165716e-05
##	1963	4.244432e-01	1.499545e+00	-3.799831e-01	9.059015e-01	-2.186639e+00
##	1965	-1.229115e-03	1.110117e-03	-4.863698e-04	-2.080835e-04	3.675776e-04
##	1966	-4.268831e+00	3.868970e+00	-1.689577e+00	-7.253809e-01	1.275583e+00
##	1968	-2.580027e-04	1.490273e-04	-1.039783e-04	-1.661802e-05	6.751501e-05

##	1970	-1.041489e-03	-2.902466e-04	-3.779629e-04	6.942423e-05	4.083971e-04
##	1971	-1.568354e-03	1.416517e-03	-6.206090e-04	-2.655162e-04	4.690297e-04
##	1972	-1.990058e+00	2.129179e+00	-7.966909e-01	-4.031426e-01	5.690080e-01
##	1973	-5.653452e-01	6.383236e-01	-2.614017e-01	-3.785724e-02	2.734136e-02
##	1975	-3.435659e+00	1.324692e+01	-1.641407e+00	-2.605933e+00	2.272531e-01
##	1978	-5.524965e-01	1.199886e+00	-4.222573e-01	2.161168e-01	-6.001877e-01
##	1979	2.215111e-08	-4.453777e-09	4.795847e-08	-3.045878e-07	1.384480e-07
##	1982	6.703071e-06	7.084760e-06	-1.217901e-06	7.027424e-06	-1.655916e-05
##	1984	-3.729581e-05	3.368563e-05	-1.475828e-05	-6.314037e-06	1.115343e-05
##	1986	4.089890e-01	-5.924836e-02	9.766934e-01	-6.335677e+00	2.893543e+00
##	1987	1.074179e+00	1.685933e+00	-3.584493e-01	1.382581e+00	-3.267539e+00
##	1988	-4.848580e-03	1.168260e-03	-1.829547e-03	-1.797002e-04	1.702700e-03
##	1989	-2.228624e-03	2.012860e-03	-8.819059e-04	-3.772394e-04	6.663995e-04
##	1990	-7.117507e-04	6.428296e-04	-2.816449e-04	-1.204927e-04	2.128548e-04
##	1991	-1.210298e+00	1.589811e+00	-4.923212e-01	-3.072912e-01	3.242602e-01
##	1994	1.247980e+01	1.014919e+01	4.343792e+00	-2.163638e+00	-5.419236e+00
##	1995	-5.456165e-04	4.926969e-04	-2.159093e-04	-9.233278e-05	1.631495e-04
##	1997	-2.149372e-01	-2.629276e-02	-7.893445e-02	7.617228e-03	8.163763e-02
##	1998	1.177068e+00	1.245359e+00	-2.154747e-01	1.244934e+00	-2.913753e+00
##	2002	-1.273263e+00	4.151726e+00	-1.380514e+00	1.121763e+00	-2.914953e+00
##	2004	-4.545626e-07	-1.252259e-07	-1.659822e-07	3.239818e-08	1.743601e-07
##	2005	9.504391e-01	1.333636e+00	-2.134323e-01	1.013803e+00	-2.495577e+00
##	2006	-3.340411e-01	3.008637e-01	-1.303009e-01	-7.069792e-02	1.068251e-01
##	2007	-1.343893e-03	1.213786e-03	-5.317882e-04	-2.275158e-04	4.019032e-04
##	2008	2.928498e-02	6.304260e-01	-1.822565e-01	3.024645e-01	-7.376842e-01
##	2009	-5.988455e-01	-1.484860e-01	-2.178346e-01	3.624197e-02	2.333785e-01
##	2010	-1.878041e-01	1.409635e+00	-4.402811e-01	5.299573e-01	-1.320001e+00
##	2011	-2.190040e+00	1.978033e+00	-8.666141e-01	-3.707720e-01	6.549543e-01
##	2013	-2.151526e-01	-5.328387e-02	-7.826518e-02	1.300819e-02	8.384295e-02
##	2017	-2.449246e-04	2.203439e-04	-9.699092e-05	-4.105554e-05	7.294273e-05
##	2018	2.922136e-01	8.222694e-02	1.085553e+00	-7.564896e+00	3.501840e+00
##	2019	-8.261105e-04	7.460896e-04	-3.269004e-04	-1.398399e-04	2.470448e-04
##	2020	1.581876e+00	3.642315e-01	1.522638e+00	-9.190532e+00	2.823604e+00
##	2021	3.126973e-01	1.956763e+00	-5.272948e-01	1.043364e+00	-2.540690e+00

## 2022	-1.878268e-01	1.710558e-01	-7.069426e-02	-6.034410e-02	6.960755e-02
## 2023	1.854408e+01	6.731399e+00	6.686338e+00	-1.548174e+00	-7.394909e+00
## 2025	-2.687529e-09	2.831402e-09	-1.018288e-10	-8.057917e-09	4.362892e-09
## 2026	-3.874972e-01	3.241221e+00	-1.005468e+00	1.241357e+00	-3.088333e+00
## 2027	2.051183e-02	-5.084255e-03	4.203013e-02	-2.633031e-01	1.193959e-01
## 2028	2.373448e-03	3.903556e-03	-8.522716e-04	3.157792e-03	-7.447001e-03
## 2029	-2.494556e-03	1.898312e-03	-9.773442e-04	-3.513126e-04	7.736621e-04
## 2030	-2.017581e-02	1.799701e-01	1.305473e-01	-1.137345e+00	5.213378e-01
## 2031	-1.976853e-01	1.949451e-01	-3.668361e-02	-3.602238e-01	2.128847e-01
## 2032	1.306220e-03	1.381537e-03	-2.389794e-04	1.381321e-03	-3.232943e-03
## 2033	-1.298235e-05	1.210627e-05	-5.249547e-06	-2.025469e-06	3.460068e-06
## 2034	-8.286694e-01	7.526530e-01	-3.291497e-01	-1.383911e-01	2.431611e-01
## 2035	-8.008237e-04	7.230467e-04	-3.169859e-04	-1.352805e-04	2.391233e-04
## 2036	-5.864387e-01	4.850032e+00	-1.506243e+00	1.855768e+00	-4.615936e+00
## 2037	-4.547183e-06	5.846103e-08	-1.696214e-06	6.094707e-08	1.643131e-06
## 2038	2.126503e-06	2.270852e-06	-4.044042e-07	2.280423e-06	-5.321749e-06
## 2039	-2.703234e-04	-6.921060e-05	-9.837520e-05	1.704854e-05	1.051213e-04
## 2041	-3.520492e-04	-9.214855e-05	-1.279584e-04	2.235511e-05	1.374552e-04
## 2042	1.032866e+00	1.663588e+00	-3.022325e-01	1.216004e+00	-2.976999e+00
## 2043	-3.030690e-04	2.759944e-04	-1.142160e-04	-9.623139e-05	1.117733e-04
## 2044	-3.163280e-01	1.697643e+00	-5.418693e-01	5.860596e-01	-1.472328e+00
## 2046	-5.205990e-04	4.803521e-04	-2.180925e-04	-6.134451e-05	1.093646e-04
## 2047	6.506854e-02	-2.325773e-02	1.153410e-01	-6.937556e-01	3.121676e-01
## 2048	2.915171e-02	8.528781e-03	1.056803e-02	-2.023816e-03	-1.146336e-02
## 2049	2.440026e+00	3.582031e+00	-7.344753e-01	3.015727e+00	-7.121652e+00
## 2051	-1.163620e-04	9.118049e-05	-4.565900e-05	-1.692155e-05	3.589527e-05
## 2053	-5.156055e-01	4.656301e-01	-2.040269e-01	-8.727917e-02	1.542021e-01
## 2054	1.815990e-02	6.489501e-03	6.550560e-03	-1.495405e-03	-7.234024e-03
## 2055	-5.416099e-03	4.891791e-03	-2.143187e-03	-9.169410e-04	1.619741e-03
## 2056	7.385557e-02	1.947925e-01	2.196380e-02	-3.969369e-02	-4.269463e-02
## 2058	-8.034131e-04	8.175058e-04	-7.749688e-05	-2.025828e-03	1.130096e-03
## 2061	-2.426354e-03	2.191426e-03	-9.601371e-04	-4.107386e-04	7.255791e-04
## 2064	5.085522e-04	-1.822695e-04	9.002139e-04	-5.412310e-03	2.435163e-03
## 2065	5.369410e-01	-5.940085e-02	1.288283e+00	-8.371477e+00	3.821503e+00

## 2066	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
## 2067	-8.815732e-06	5.740602e-06	-3.435116e-06	-1.028605e-06	2.779267e-06
## 2068	-3.402122e-01	1.692053e+00	-5.433271e-01	5.697673e-01	-1.435129e+00
## 2069	1.055897e+00	1.446190e+00	3.512080e-01	-3.003277e-01	-5.048116e-01
## 2070	-7.925757e-04	7.157694e-04	-3.136344e-04	-1.341442e-04	2.369996e-04
## 2071	-1.943209e-03	1.755095e-03	-7.689418e-04	-3.289816e-04	5.811339e-04
## 2072	1.159439e+00	1.593553e+00	-3.189882e-01	1.381509e+00	-3.271577e+00
## 2073	-1.610534e-01	1.173803e-02	-6.001850e-02	-5.690198e-04	5.869557e-02
## 2074	7.401818e-01	7.837647e-01	-1.356867e-01	7.831478e-01	-1.832980e+00
## 2076	-5.221283e-01	4.715496e-01	-2.066088e-01	-8.838908e-02	1.561505e-01
## 2077	5.774810e-01	8.082414e-01	-1.015470e-01	5.478605e-01	-1.407870e+00
## 2078	-8.809409e-02	6.536324e-01	-2.022981e-01	2.403024e-01	-6.030949e-01
## 2081	-1.868564e-05	1.624073e-05	-7.381567e-06	-3.023827e-06	5.618229e-06
## 2082	2.215111e-08	-4.453777e-09	4.795847e-08	-3.045878e-07	1.384480e-07
## 2083	-1.115400e-06	5.672671e-08	-4.154416e-07	2.076589e-09	4.066821e-07
## 2084	-2.612146e-05	-4.977508e-06	-9.543494e-06	1.281517e-06	1.006182e-05
## 2085	-5.203557e-01	1.943567e+00	-6.368115e-01	5.697132e-01	-1.464353e+00
## 2090	1.398477e+01	6.766976e+00	4.995484e+00	-1.505032e+00	-5.709929e+00
## 2091	-3.355363e-03	2.389069e-03	-1.311273e-03	-4.367303e-04	1.048818e-03
## 2092	2.452671e-03	2.603210e-03	-4.514191e-04	2.597817e-03	-6.080569e-03
## 2093	7.047276e-03	7.457472e-03	-1.290402e-03	7.453706e-03	-1.744628e-02
## 2094	3.343661e+00	3.953726e-01	3.759544e+00	-2.269753e+01	7.980366e+00
## 2095	-9.034518e-01	2.119792e+00	-7.417372e-01	4.363381e-01	-1.174625e+00
## 2096	1.069422e-02	-2.414864e-03	2.251484e-02	-1.420098e-01	6.447622e-02
## 2097	-1.653345e-02	5.095137e-02	6.195306e-02	-5.453125e-01	2.586887e-01
## 2098	1.412777e+01	9.903218e+00	4.961433e+00	-2.132714e+00	-6.009883e+00
## 2100	9.632978e-04	1.021834e-03	-1.769647e-04	1.018896e-03	-2.386931e-03
## 2101	-5.507581e-05	4.614890e-05	-2.186866e-05	-8.180383e-06	1.608094e-05
## 2104	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 2105	1.325615e-08	-1.395540e-09	3.188161e-08	-2.073178e-07	9.462829e-08
## 2107	-9.504930e-06	-1.232130e-06	-3.488705e-06	3.507064e-07	3.615638e-06
## 2110	-5.042425e-01	4.546087e-01	-1.995094e-01	-8.520456e-02	1.508638e-01
## 2112	6.364299e-01	1.536494e+00	-3.712300e-01	1.064110e+00	-2.533297e+00
## 2113	-1.516857e-03	1.370006e-03	-6.002314e-04	-2.567984e-04	4.536297e-04

## 2114	1.678103e-01	-4.856175e-02	2.802664e-01	-1.682155e+00	7.412112e-01
## 2116	1.962239e-01	8.848477e-02	7.027242e-02	-1.982708e-02	-7.960818e-02
## 2117	-3.027762e-05	2.734684e-05	-1.198114e-05	-5.125859e-06	9.054554e-06
## 2118	-8.952872e-05	7.441415e-05	-3.532779e-05	-1.367558e-05	2.697528e-05
## 2119	-8.978733e-02	8.022843e-02	-3.550351e-02	-1.504238e-02	2.692709e-02
## 2121	2.718405e-02	-9.673057e-03	4.829630e-02	-2.906966e-01	1.308218e-01
## 2122	-1.186200e-03	1.071357e-03	-4.693879e-04	-2.008185e-04	3.547437e-04
## 2123	-2.379687e+00	2.168669e+00	-9.469501e-01	-3.951354e-01	6.918114e-01
## 2124	3.911706e-01	-1.149664e-01	7.561136e-01	-4.664016e+00	2.108811e+00
## 2127	-5.059131e-01	4.569020e-01	-2.001923e-01	-8.564345e-02	1.513014e-01
## 2128	-7.159482e-01	6.461544e-01	-2.832921e-01	-1.211126e-01	2.141502e-01
## 2129	-1.729841e-03	1.562369e-03	-6.845113e-04	-2.928540e-04	5.173221e-04
## 2130	1.657095e+00	8.717882e-01	5.899883e-01	-1.923022e-01	-6.820917e-01
## 2132	-4.324902e-01	3.841915e+00	-1.184232e+00	1.476889e+00	-3.679733e+00
## 2137	-9.226645e-01	8.327055e-01	-3.649700e-01	-1.569794e-01	2.764147e-01
## 2139	-4.268162e-03	-3.962528e-04	-1.570585e-03	1.233032e-04	1.612578e-03
## 2140	-1.542457e-03	1.393128e-03	-6.103614e-04	-2.611322e-04	4.612853e-04
## 2141	-1.998955e-03	1.805435e-03	-7.910024e-04	-3.384131e-04	5.977993e-04
## 2142	-4.220624e-04	1.154763e-05	-1.567586e-04	2.357149e-06	1.553131e-04
## 2145	5.841246e+00	5.530690e+00	2.011473e+00	-1.168463e+00	-2.597991e+00
## 2146	-1.542457e-03	1.393128e-03	-6.103614e-04	-2.611322e-04	4.612853e-04
## 2147	1.392881e-01	1.025558e+00	-2.728044e-01	5.161724e-01	-1.273623e+00
## 2149	-2.895568e-04	-7.957019e-05	-1.051552e-04	1.917950e-05	1.132927e-04
## 2151	-3.830242e-04	2.654723e-04	-1.549948e-04	-3.495664e-05	9.904759e-05
## 2154	7.908596e-01	1.229710e+00	-2.205636e-01	9.163814e-01	-2.238862e+00
## 2155	-6.692522e-03	6.044650e-03	-2.648277e-03	-1.133039e-03	2.001469e-03
## 2156	3.185182e-03	9.951454e-04	1.152897e-03	-2.336741e-04	-1.257629e-03
## 2157	-1.548401e+00	1.502664e+00	-6.434472e-01	-2.149717e-01	3.474946e-01
## 2158	1.765306e-01	-3.032993e-02	3.962736e-01	-2.537736e+00	1.155436e+00
## 2159	-1.063096e+00	1.456604e+00	-5.671732e-01	4.488296e-02	-2.329580e-01
## 2161	-2.664057e-03	2.406092e-03	-1.054184e-03	-4.510087e-04	7.967196e-04
## 2163	4.801518e-04	1.983994e-02	-3.734174e-04	-3.964394e-03	-1.743002e-03
## 2164	-3.999138e-01	4.117542e-01	-3.060194e-02	-1.071807e+00	5.920796e-01
## 2166	-1.373383e-01	1.240175e-01	-5.414628e-02	-2.477688e-02	4.180810e-02

## 2167	-2.666458e-02	2.408331e-02	-1.055136e-02	-4.514292e-03	7.974324e-03
## 2168	7.463502e-01	1.114872e+00	-2.098632e-01	8.811898e-01	-2.120755e+00
## 2169	-2.685303e-03	2.425333e-03	-1.062592e-03	-4.546159e-04	8.030694e-04
## 2170	-5.212275e-07	-1.429862e-07	-1.907485e-07	3.802249e-08	1.983139e-07
## 2171	-4.775941e-05	4.305183e-05	-1.889707e-05	-8.067160e-06	1.428697e-05
## 2172	-1.981778e-01	-5.511106e-02	-7.192293e-02	1.318596e-02	7.770298e-02
## 2173	-1.688658e-01	1.527280e-01	-6.601509e-02	-3.488595e-02	5.348292e-02
## 2174	-1.542329e+00	6.791437e+00	-7.554881e-01	-1.375027e+00	5.328164e-02
## 2176	-7.485146e-04	6.759810e-04	-2.961974e-04	-1.266909e-04	2.238295e-04
## 2177	-1.191993e+00	4.784164e+00	-1.534006e+00	1.399961e+00	-3.635204e+00
## 2179	-1.084978e+00	1.066512e+00	-4.548802e-01	-1.444726e-01	2.284078e-01
## 2180	-3.710998e-03	3.351754e-03	-1.468467e-03	-6.282689e-04	1.109813e-03
## 2182	-7.226863e-04	5.016413e-04	-2.845418e-04	-8.544221e-05	2.173697e-04
## 2183	-1.080039e-03	9.754068e-04	-4.276052e-04	-1.822759e-04	3.221215e-04
## 2184	1.970400e-02	8.140487e-02	5.032394e-03	-1.644129e-02	-1.374865e-02
## 2185	5.563294e-01	2.258181e-01	1.998845e-01	-5.110077e-02	-2.239058e-01
## 2186	-1.012819e-04	-2.310298e-05	-3.711109e-05	6.248730e-06	3.849039e-05
## 2189	-5.179702e+00	4.684648e+00	-2.050305e+00	-8.770086e-01	1.546675e+00
## 2190	7.882473e-01	5.756581e+00	1.787398e+00	-1.390586e+01	5.365301e+00
## 2191	7.758601e+00	2.553875e+00	2.804761e+00	-5.953395e-01	-3.073263e+00
## 2192	-5.840685e+00	5.486779e+00	-2.331700e+00	-9.953350e-01	1.673643e+00
## 2194	-9.822256e-10	9.324932e-10	-3.159605e-10	-7.659300e-10	5.626334e-10
## 2195	-4.580002e-05	4.125288e-05	-1.812023e-05	-7.731256e-06	1.370591e-05
## 2196	-1.222547e-03	5.812245e-04	-4.699404e-04	-1.008967e-04	4.041596e-04
## 2197	-5.377073e-01	4.849428e-01	-2.127547e-01	-9.089173e-02	1.608632e-01
## 2198	-2.709838e-01	2.440235e-01	-1.072100e-01	-4.573208e-02	8.109786e-02
## 2199	-5.779028e-04	3.473830e-04	-2.109965e-04	-1.624532e-04	2.339580e-04
## 2200	-1.466556e-03	1.324575e-03	-5.803267e-04	-2.482829e-04	4.385869e-04
## 2201	-9.184989e-04	-2.559733e-04	-3.333276e-04	6.122293e-05	3.601748e-04
## 2203	-3.882032e-04	3.505514e-04	-1.536159e-04	-6.570028e-05	1.160894e-04
## 2207	-1.410268e-01	1.525780e+00	-4.684965e-01	6.095803e-01	-1.509693e+00
## 2209	-2.399851e-01	3.588846e+00	-1.888329e-01	-7.131624e-01	-1.948617e-01
## 2210	-4.174154e-01	3.770074e-01	-1.651742e-01	-7.066809e-02	1.248325e-01
## 2213	-1.489289e-01	1.346121e-01	-5.865459e-02	-2.739426e-02	4.556592e-02

## 2214	-8.864971e-01	5.441431e-01	-3.389665e-01	-1.353294e-01	3.026888e-01
## 2215	-9.416341e-04	8.524126e-04	-3.622467e-04	-2.400493e-04	3.199174e-04
## 2216	-4.675554e-05	4.201368e-05	-1.849613e-05	-7.871087e-06	1.399730e-05
## 2218	6.533872e-01	7.024432e-01	-2.430184e-02	-1.412246e-02	-1.264223e+00
## 2219	6.204565e-02	3.562968e-02	2.200762e-02	-7.796640e-03	-2.577465e-02
## 2220	-7.491547e-02	1.586801e-01	2.003106e-01	-1.821544e+00	8.735769e-01
## 2221	-2.624989e-03	2.370863e-03	-1.038741e-03	-4.443684e-04	7.849721e-04
## 2222	-1.548722e-01	6.391243e-02	-5.917556e-02	-1.105338e-02	5.229861e-02
## 2223	-6.094225e-01	5.500466e-01	-2.411422e-01	-1.030984e-01	1.822836e-01
## 2224	3.273632e-02	1.895872e-02	1.160708e-02	-4.145394e-03	-1.361199e-02
## 2225	-2.227164e-01	2.028371e-01	-8.862511e-02	-3.694761e-02	6.474561e-02
## 2226	-7.053861e-04	6.370127e-04	-2.791326e-04	-1.193819e-04	2.109257e-04
## 2227	-9.160550e-05	6.252616e-05	-5.232963e-05	2.796819e-05	-3.522262e-05
## 2229	3.907361e-02	1.037768e+00	-2.948659e-01	4.771967e-01	-1.178021e+00
## 2230	-2.778609e-03	2.509735e-03	-1.099610e-03	-4.702136e-04	8.306088e-04
## 2231	1.413462e-01	7.912421e-02	5.019235e-02	-1.735363e-02	-5.855609e-02
## 2234	-3.636660e-01	1.647377e+00	-5.331473e-01	5.359035e-01	-1.354934e+00
## 2235	-4.914485e-03	1.415800e-03	-1.860971e-03	-2.280834e-04	1.707113e-03
## 2236	-4.338022e-03	4.326860e-04	-1.619913e-03	-3.843548e-05	1.571565e-03
## 2237	1.647882e+00	1.087303e+00	2.277032e-01	6.261737e-01	-2.056454e+00
## 2238	3.154728e+00	1.087662e+00	1.139078e+00	-2.518988e-01	-1.253499e+00
## 2241	-4.939561e-01	5.611808e-01	-1.989789e-01	-1.058025e-01	1.374130e-01
## 2242	-4.420143e-04	-7.382860e-05	-1.623406e-04	2.096867e-05	1.672759e-04
## 2245	-8.570098e-06	-2.297793e-06	-3.162682e-06	6.753049e-07	3.160536e-06
## 2246	-2.465544e-03	2.226862e-03	-9.756404e-04	-4.173951e-04	7.373177e-04
## 2248	2.016081e-01	7.911846e-01	-1.976556e-01	4.511000e-01	-1.102604e+00
## 2249	-1.288902e+00	1.259591e+00	-5.380803e-01	-1.752587e-01	2.799821e-01
## 2250	-4.478228e+00	1.296139e+01	-2.019671e+00	-2.539171e+00	6.365291e-01
## 2251	-1.407882e-01	1.266411e-01	-5.545321e-02	-2.560576e-02	4.304316e-02
## 2252	-8.948897e+00	8.087165e+00	-3.542446e+00	-1.513075e+00	2.671355e+00
## 2253	6.667580e-02	3.564653e-02	2.372297e-02	-7.850290e-03	-2.749114e-02
## 2254	6.079707e-04	5.680093e-03	6.754994e-05	-1.140344e-03	-6.729194e-04
## 2258	5.398489e-01	-1.497843e-01	1.065914e+00	-6.613041e+00	2.993297e+00
## 2259	1.032720e-02	3.033311e-01	-8.131842e-02	1.266194e-01	-3.235842e-01

##	2260	-1.561070e-06	9.646017e-07	-6.059278e-07	-1.740052e-07	4.997584e-07
##	2263	2.613733e-02	-9.296497e-03	4.644700e-02	-2.795847e-01	1.258228e-01
##	2266	-1.076670e-01	9.204980e-01	-2.607776e-01	2.942005e-01	-7.858360e-01
##	2269	-2.806087e+00	2.548746e+00	-1.110785e+00	-4.779235e-01	8.380629e-01
##	2270	-4.451939e-05	3.196245e-05	-1.738773e-05	-5.890594e-06	1.396347e-05
##	2271	1.742504e-07	2.210323e-07	-5.763359e-08	2.373108e-07	-5.295478e-07
##	2272	2.423397e+00	3.568090e+00	-7.325916e-01	2.999994e+00	-7.084859e+00
##	2273	-6.316808e-02	6.906690e-02	-2.539443e-02	-1.293423e-02	1.769451e-02
##	2275	-1.776685e-03	1.604690e-03	-7.030473e-04	-3.007890e-04	5.313335e-04
##	2276	1.140050e-06	1.090113e-04	-3.202272e-05	5.003754e-05	-1.224543e-04
##	2277	1.814648e+01	9.970090e+00	6.449080e+00	-2.190371e+00	-7.502777e+00
##	2278	-4.882888e-06	-9.150937e-07	-2.065173e-06	9.218718e-07	7.969129e-07
##	2280	8.209017e-01	1.534929e+00	-2.499484e-01	9.333454e-01	-2.397604e+00
##	2281	-1.568354e-03	1.416517e-03	-6.206090e-04	-2.655162e-04	4.690297e-04
##	2284	5.045237e+00	1.776356e+00	1.820661e+00	-4.102188e-01	-2.007580e+00
##	2285	6.533974e-07	-2.293420e-07	1.168812e-06	-7.049821e-06	3.173903e-06
##	2286	7.870053e-05	8.706066e-05	-1.552663e-05	8.495674e-05	-1.990283e-04
##	2287	-3.658918e-03	3.313450e-03	-1.450467e-03	-6.154215e-04	1.084428e-03
##	2288	8.204572e-02	3.100872e-01	2.179041e-02	-6.277962e-02	-5.484099e-02
##	2289	-7.990472e-05	7.860764e-05	-3.374934e-05	-1.004879e-05	1.586285e-05
##	2290	4.637400e-02	2.770007e-01	9.493529e-03	-5.579618e-02	-3.900638e-02
##	2293	6.370027e-01	-1.085725e-01	1.508510e+00	-9.762900e+00	4.459464e+00
##	2294	-5.942446e-01	5.357893e-01	-2.353728e-01	-9.980469e-02	1.768169e-01
##	2295	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
##	2298	7.536100e+00	2.379270e+00	2.727141e+00	-5.580336e-01	-2.977139e+00
##	2301	-3.862886e-03	3.492283e-03	-1.529736e-03	-6.520314e-04	1.150834e-03
##	2303	-6.775146e-02	1.501545e-01	-2.929381e-02	-2.919418e-02	1.319804e-02
##	2304	-6.718122e-04	-1.872186e-04	-2.438083e-04	4.478918e-05	2.634233e-04
##	2306	6.816121e-08	-2.059010e-08	1.303066e-07	-8.013539e-07	3.621077e-07
##	2307	1.246510e+01	7.996520e+00	4.398101e+00	-1.733740e+00	-5.244224e+00
##	2308	-5.817575e-01	4.951231e-01	-2.293641e-01	-9.243836e-02	1.763680e-01
##	2310	2.683492e+00	1.830332e+00	9.438024e-01	-3.949631e-01	-1.137559e+00
##	2312	-3.869005e-01	3.490640e-01	-1.530886e-01	-6.542559e-02	1.157368e-01
##	2313	-2.787769e-03	2.517896e-03	-1.103162e-03	-4.719115e-04	8.336246e-04

## 2314	-5.395483e-01	-1.503367e-01	-1.958054e-01	3.595814e-02	2.115732e-01
## 2315	-4.163181e-04	3.755518e-04	-1.648009e-04	-7.020925e-05	1.242560e-04
## 2316	-3.222855e-02	2.764154e-02	-1.271247e-02	-5.163057e-03	9.753328e-03
## 2318	-2.690223e-03	2.429786e-03	-1.064557e-03	-4.554069e-04	8.044708e-04
## 2320	-1.468108e-03	1.325928e-03	-5.810237e-04	-2.483298e-04	4.387294e-04
## 2321	8.146038e+00	5.526679e+00	2.865839e+00	-1.193076e+00	-3.450849e+00
## 2322	1.099989e-02	-3.860787e-03	1.967749e-02	-1.186880e-01	5.343473e-02
## 2323	-4.635661e-02	3.896265e-02	-1.826296e-02	-7.267907e-03	1.409231e-02
## 2324	-1.059758e-06	1.578462e-07	-3.971691e-07	-1.983708e-08	3.798788e-07
## 2325	-4.122604e-01	1.319517e+00	-4.426629e-01	3.592689e-01	-9.278384e-01
## 2329	-1.677205e-01	2.350127e-02	-6.281609e-02	-2.844016e-03	6.023730e-02
## 2330	-2.494624e-03	2.253114e-03	-9.871508e-04	-4.223068e-04	7.460013e-04
## 2331	-5.476032e-04	4.945368e-04	-2.166919e-04	-9.269004e-05	1.637588e-04
## 2332	1.451881e+01	6.660148e+00	5.196388e+00	-1.489595e+00	-5.899201e+00
## 2334	-6.793188e-01	1.574479e+00	-5.524193e-01	3.203361e-01	-8.633143e-01
## 2335	1.545326e-02	1.002834e-02	5.882469e-03	-3.583200e-02	-5.856537e-03
## 2336	-1.461388e-04	-3.498644e-05	-5.333117e-05	8.930293e-06	5.632408e-05
## 2337	3.203569e+01	-2.893517e+01	1.267403e+01	5.444785e+00	-9.590632e+00
## 2338	9.058751e-03	7.404080e-03	3.151994e-03	-1.577875e-03	-3.936675e-03
## 2340	6.828792e-01	-1.302860e-01	1.498191e+00	-9.543964e+00	4.341087e+00
## 2341	-1.356202e-03	1.224892e-03	-5.366587e-04	-2.295974e-04	4.055850e-04
## 2343	-5.895895e-02	1.960716e-01	-6.546875e-02	5.464514e-02	-1.408233e-01
## 2344	3.015163e-01	1.095875e+00	8.135239e-02	-2.222732e-01	-1.978697e-01
## 2345	-5.211837e+00	4.710820e+00	-2.062459e+00	-8.830582e-01	1.558372e+00
## 2346	1.449927e+00	1.727991e-01	1.644691e+00	-9.948584e+00	3.514015e+00
## 2348	-4.754987e+00	5.786094e+00	-2.306427e+00	-1.667583e-01	-1.740825e-01
## 2352	-3.392473e-03	3.064572e-03	-1.342603e-03	-5.740450e-04	1.013884e-03
## 2353	-1.482283e-01	1.728912e+00	-5.293946e-01	6.974805e-01	-1.725824e+00
## 2354	-1.078987e+01	1.026164e+01	-4.291281e+00	-1.911923e+00	3.157909e+00
## 2355	-5.573054e+00	5.143117e+00	-2.208337e+00	-9.653863e-01	1.658050e+00
## 2356	-2.429736e-03	2.194506e-03	-9.614723e-04	-4.113250e-04	7.266020e-04
## 2357	9.898072e-01	1.841459e+00	-3.777719e-01	1.314352e+00	-3.185781e+00
## 2359	-1.309648e-01	1.181952e-01	-5.177633e-02	-2.249899e-02	3.933892e-02
## 2360	5.299662e-06	-1.893680e-06	9.395730e-06	-5.651642e-05	2.543080e-05

## 2361	6.494151e-01	7.435923e-01	-5.506247e-02	1.326297e-01	-1.371841e+00
## 2362	-1.887105e+00	2.907920e+00	-1.101596e+00	2.249119e-01	-7.699982e-01
## 2363	7.126939e-01	1.961855e+00	-4.810569e-01	1.286618e+00	-3.082014e+00
## 2364	-1.598840e-04	1.443652e-04	-6.326671e-05	-2.705843e-05	4.781576e-05
## 2365	-2.259144e+00	2.041863e+00	-8.939984e-01	-3.827534e-01	6.755085e-01
## 2366	-1.180240e-03	1.065957e-03	-4.670310e-04	-1.998006e-04	3.529540e-04
## 2367	-1.946409e-01	1.769944e-01	-7.239699e-02	-6.906133e-02	7.530896e-02
## 2368	-1.211665e-04	1.093519e-04	-4.794552e-05	-2.049284e-05	3.623718e-05
## 2370	-8.246956e-02	1.899125e-02	-3.109356e-02	-2.882868e-03	2.903364e-02
## 2371	-1.031131e-03	9.312227e-04	-4.080406e-04	-1.745095e-04	3.083108e-04
## 2372	-1.238464e-01	9.605050e-01	-2.942068e-01	3.506439e-01	-8.845000e-01
## 2374	-1.519414e+00	1.375850e+00	-6.013404e-01	-2.579387e-01	4.541189e-01
## 2376	-7.288263e-04	-2.031141e-04	-2.644945e-04	4.858016e-05	2.857978e-04
## 2377	-1.668470e-01	1.967681e-01	5.025638e-02	-9.429361e-01	4.803015e-01
## 2379	-7.985819e-01	3.810193e-02	-2.970434e-01	1.191545e-03	2.926245e-01
## 2380	3.253427e-01	9.089016e-01	-2.261867e-01	5.997783e-01	-1.431951e+00
## 2381	-4.172954e-01	-1.162937e-01	-1.514385e-01	2.781477e-02	1.636357e-01
## 2382	-8.250120e-07	-1.307393e-07	-3.688008e-07	1.978767e-07	5.870133e-08
## 2383	-4.998155e-01	1.513483e+00	-5.112160e-01	3.964930e-01	-1.029157e+00
## 2384	-1.688958e-01	1.523751e-01	-6.613593e-02	-3.389444e-02	5.308054e-02
## 2385	1.199474e-01	1.655950e+00	-4.655914e-01	8.009183e-01	-1.964416e+00
## 2387	-2.464959e-01	1.765535e+00	-5.529644e-01	6.573986e-01	-1.638851e+00
## 2388	-1.004283e-03	9.070471e-04	-3.974021e-04	-1.700189e-04	3.003392e-04
## 2389	8.196561e-01	1.447630e+00	-2.841797e-01	1.039134e+00	-2.529833e+00
## 2390	-1.921468e-04	-3.624308e-05	-7.043594e-05	9.901066e-06	7.311815e-05
## 2392	2.694049e-04	5.507135e-04	2.110784e-03	-1.571987e-02	7.337862e-03
## 2394	-3.357257e-03	3.032419e-03	-1.328615e-03	-5.681189e-04	1.003545e-03
## 2396	-7.255651e-04	6.323387e-04	-2.984276e-04	-8.906726e-05	1.726994e-04
## 2397	-1.682882e-04	-4.689965e-05	-6.107262e-05	1.121736e-05	6.599149e-05
## 2400	-2.424999e+00	2.636862e+00	-1.085960e+00	-2.214985e-01	2.505380e-01
## 2402	6.439741e-01	1.629727e+00	-3.977765e-01	1.110717e+00	-2.646604e+00
## 2404	-3.015663e-03	2.723763e-03	-1.193333e-03	-5.105216e-04	9.018094e-04
## 2405	-9.188677e-06	8.299310e-06	-3.636066e-06	-1.555569e-06	2.747807e-06
## 2406	5.900716e-01	6.353328e-01	-1.157649e-01	6.400281e-01	-1.490242e+00

## 2407	-1.000471e+00	9.028471e-01	-3.958705e-01	-1.692347e-01	2.992670e-01
## 2408	-3.972939e-01	7.012620e-01	-2.566348e-01	8.386690e-02	-2.548946e-01
## 2410	-6.438533e-04	5.814946e-04	-2.547778e-04	-1.089942e-04	1.925478e-04
## 2411	2.124839e+00	1.157153e+00	7.554323e-01	-2.544254e-01	-8.777198e-01
## 2413	-1.338465e-01	1.221420e-01	-5.323751e-02	-2.232735e-02	3.900887e-02
## 2414	-1.607278e-02	1.406384e-02	-6.347936e-03	-2.629692e-03	4.840867e-03
## 2415	7.453870e-06	6.201568e-04	-1.478046e-05	-1.230837e-04	-5.287421e-05
## 2416	-2.419587e-04	-6.645586e-05	-8.785127e-05	1.597298e-05	9.474073e-05
## 2417	-5.564589e-04	5.024861e-04	-2.202004e-04	-9.416604e-05	1.663898e-04
## 2418	9.562902e-04	3.952213e-04	3.434023e-04	-8.927428e-05	-3.853910e-04
## 2419	-5.759707e-02	5.024124e-02	-2.274215e-02	-9.395746e-03	1.736519e-02
## 2420	-3.566197e-04	1.784978e-04	-1.381904e-04	-2.912187e-05	1.138758e-04
## 2422	8.427840e-01	-4.769898e-01	3.256115e-01	8.593245e-02	-2.744092e-01
## 2423	-8.979187e-01	-6.853276e-02	-3.353201e-01	3.435950e-02	3.207583e-01
## 2424	-1.972083e-03	1.781171e-03	-7.803685e-04	-3.338670e-04	5.897658e-04
## 2426	-2.991603e+00	9.679911e+00	-1.379743e+00	-1.894006e+00	3.363685e-01
## 2427	-5.630074e-01	9.446486e-01	-3.515170e-01	1.022946e-01	-3.157042e-01
## 2428	-2.163320e-01	2.177400e-01	-2.858592e-02	-4.850475e-01	2.757422e-01
## 2430	-5.461674e-01	4.932874e-01	-2.161220e-01	-9.246408e-02	1.633377e-01
## 2433	-5.202769e-05	4.691845e-05	-2.058628e-05	-8.792300e-06	1.556288e-05
## 2434	7.065773e-01	1.272027e+00	-2.629364e-01	9.331740e-01	-2.249402e+00
## 2436	2.191805e-01	8.040256e-01	-2.002446e-01	4.696908e-01	-1.143845e+00
## 2437	-3.784136e-04	3.473700e-04	-1.535977e-04	-5.614496e-05	9.845389e-05
## 2438	2.177774e-01	-7.800642e-02	3.856170e-01	-2.318644e+00	1.043248e+00
## 2439	1.607925e-02	1.123303e-01	-3.107237e-02	6.018159e-02	-1.455778e-01
## 2441	2.646418e-02	3.223042e-02	-6.093727e-03	2.990796e-02	-7.020774e-02
## 2443	-6.815565e-01	7.254353e-01	-3.015946e-01	-6.689887e-02	8.392859e-02
## 2444	1.709750e-01	1.814457e-01	-3.146091e-02	1.810806e-01	-4.238470e-01
## 2445	-1.560267e-04	1.408471e-04	-6.174027e-05	-2.639644e-05	4.666152e-05
## 2448	-2.301096e-03	2.078318e-03	-9.105661e-04	-3.895525e-04	6.881410e-04
## 2449	-5.104910e-01	4.610668e-01	-2.020047e-01	-8.642442e-02	1.526680e-01
## 2450	-1.456705e-03	1.315626e-03	-5.764299e-04	-2.465981e-04	4.356343e-04
## 2451	-8.167773e-02	7.387425e-02	-3.233948e-02	-1.380913e-02	2.435607e-02
## 2452	5.793474e-01	-8.682212e-02	1.330529e+00	-8.564945e+00	3.903099e+00

## 2453	2.834611e-01	7.150751e-01	-1.369755e-01	3.964842e-01	-1.018052e+00
## 2454	2.120976e-01	6.430808e-01	-1.457623e-01	3.734051e-01	-9.255577e-01
## 2456	9.528402e-02	4.972683e-02	3.393581e-02	-1.097724e-02	-3.918925e-02
## 2458	3.583934e-01	-5.981416e-02	8.256208e-01	-5.315681e+00	2.423724e+00
## 2460	-8.270822e-04	7.469924e-04	-3.271579e-04	-1.409800e-04	2.478055e-04
## 2461	5.365094e-01	3.097774e+00	-8.316659e-01	1.681259e+00	-4.084871e+00
## 2462	-1.179257e-02	7.450096e-03	-4.577564e-03	-1.357441e-03	3.778765e-03
## 2463	1.581801e-02	-3.756018e-03	3.282883e-02	-2.063276e-01	9.361616e-02
## 2469	8.279388e-01	-1.677542e+00	6.032222e-01	-2.839641e-01	7.888726e-01
## 2470	-2.830542e-06	2.008351e-06	-1.104851e-06	-3.697683e-07	8.896728e-07
## 2471	4.572931e-02	4.836991e-02	-8.367502e-03	4.835997e-02	-1.131859e-01
## 2473	-4.375554e-01	1.207041e+00	-4.127317e-01	2.936755e-01	-7.700820e-01
## 2474	3.503635e-08	-8.949765e-09	7.107580e-08	-4.441468e-07	2.012899e-07
## 2477	1.552841e+00	6.076614e-01	5.586787e-01	-1.384231e-01	-6.226973e-01
## 2479	-1.297219e-03	1.171646e-03	-5.133214e-04	-2.196125e-04	3.879362e-04
## 2481	-4.798083e-05	4.324521e-05	-1.899270e-05	-8.083384e-06	1.432208e-05
## 2482	-1.831210e-03	1.082665e-03	-7.088915e-04	-1.956673e-04	5.921502e-04
## 2483	-5.655339e-01	6.969982e-01	-2.283487e-01	-1.376769e-01	1.566955e-01
## 2485	-1.890968e-04	1.521873e-04	-7.709266e-05	-2.150874e-05	4.728830e-05
## 2488	2.543607e+00	3.504013e+00	-6.759955e-01	2.986410e+00	-7.084736e+00
## 2490	-5.812545e-01	1.781066e+00	-6.007359e-01	4.706783e-01	-1.220251e+00
## 2491	-1.765455e-03	1.594534e-03	-6.986061e-04	-2.988777e-04	5.279645e-04
## 2492	-2.230450e-04	-4.019737e-05	-8.177026e-05	1.101133e-05	8.489865e-05
## 2495	-2.810552e-01	1.123096e+00	-3.677427e-01	3.461697e-01	-8.805826e-01
## 2496	7.644862e-01	-2.133275e-01	1.506400e+00	-9.340792e+00	4.227545e+00
## 2497	6.115901e-01	1.463565e+00	-3.529173e-01	1.016710e+00	-2.420045e+00
## 2498	-2.092967e-05	1.889911e-05	-1.405834e-05	1.055779e-05	-1.601537e-05
## 2499	1.188577e+00	1.432075e+00	-2.442667e-01	1.157355e+00	-3.043897e+00
## 2500	1.657084e+00	-5.769999e-01	2.909809e+00	-1.749482e+01	7.847503e+00
## 2501	2.104599e-01	1.177066e-01	7.473774e-02	-2.581771e-02	-8.717961e-02
## 2503	-1.556136e-03	1.405451e-03	-6.157827e-04	-2.634185e-04	4.653419e-04
## 2506	7.488365e-02	1.375786e+00	-3.879494e-01	6.460338e-01	-1.591847e+00
## 2508	-2.311440e-03	2.087699e-03	-9.146534e-04	-3.913281e-04	6.912579e-04
## 2509	5.060829e-01	1.356209e+00	-3.289678e-01	8.926628e-01	-2.140873e+00

## 2510	-1.808524e-01	1.628816e-01	-6.773685e-02	-5.990944e-02	6.820697e-02
## 2511	1.693480e+00	1.829347e+00	-1.792582e-01	7.863487e-01	-3.707903e+00
## 2513	-1.085380e-03	9.802369e-04	-4.294904e-04	-1.837395e-04	3.246001e-04
## 2514	1.165093e-02	1.232106e-02	-2.131104e-03	1.232004e-02	-2.883463e-02
## 2515	-9.791780e-02	1.204914e-01	-4.608097e-02	-7.245166e-03	1.907582e-03
## 2516	-6.755593e-01	6.620740e-01	-2.826256e-01	-9.089997e-02	1.444930e-01
## 2517	4.273500e-09	4.519390e-09	-7.817045e-10	4.518968e-09	-1.057649e-08
## 2518	-2.214766e-01	2.689180e+00	-5.317968e-01	-9.987249e-01	-1.619163e+00
## 2520	-5.211415e-01	4.706807e-01	-2.062189e-01	-8.822649e-02	1.558537e-01
## 2521	-6.132434e-01	5.417471e-01	-2.423284e-01	-1.013986e-01	1.843504e-01
## 2522	-6.380800e-04	5.761788e-04	-2.525042e-04	-1.079631e-04	1.907763e-04
## 2523	-4.957914e-01	-1.381689e-01	-1.799251e-01	3.304682e-02	1.944167e-01
## 2524	4.345787e-01	1.327849e+00	-3.314874e-01	8.424919e-01	-2.022724e+00
## 2525	4.574839e-02	1.305024e-01	4.523552e-01	-3.408120e+00	1.593690e+00
## 2526	1.157383e+00	1.223952e+00	-2.117001e-01	1.223851e+00	-2.864382e+00
## 2528	1.481641e-02	-3.453655e-03	3.091235e-02	-1.945394e-01	8.828897e-02
## 2529	-1.422387e-04	1.283600e-04	-5.628291e-05	-2.405642e-05	4.254236e-05
## 2531	-3.795945e-01	2.469206e+00	-7.731855e-01	8.878503e-01	-2.228663e+00
## 2532	-1.226593e-04	-2.047846e-05	-4.526324e-05	6.341066e-06	4.559583e-05
## 2533	1.917874e+01	7.952215e+00	6.887680e+00	-1.798886e+00	-7.726002e+00
## 2535	-5.170348e-01	4.669105e-01	-2.045922e-01	-8.751904e-02	1.546304e-01
## 2537	-5.717257e-11	2.044383e-10	-6.771522e-11	5.952800e-11	-1.524628e-10
## 2538	1.228569e-01	-3.519718e-02	2.397727e-01	-1.482914e+00	6.708243e-01
## 2539	2.409744e+00	2.650686e+00	-4.709745e-01	2.594492e+00	-6.077391e+00
## 2540	-1.471376e-01	1.330639e-01	-5.826347e-02	-2.485778e-02	4.385309e-02
## 2542	-2.494624e-03	2.253114e-03	-9.871508e-04	-4.223068e-04	7.460013e-04
## 2545	8.672304e+00	6.339909e+00	3.038322e+00	-1.361225e+00	-3.709716e+00
## 2546	-1.471009e-03	1.328596e-03	-5.820888e-04	-2.490363e-04	4.399185e-04
## 2547	1.764581e+00	1.596432e+00	1.724111e-01	-1.249942e+00	-2.526991e+00
## 2549	-8.400648e-03	7.587420e-03	-3.324194e-03	-1.422223e-03	2.512302e-03
## 2552	1.377421e+00	8.067365e-01	4.881355e-01	-1.762331e-01	-5.734385e-01
## 2553	-1.228329e+00	3.841925e+00	-1.291292e+00	1.026969e+00	-2.660513e+00
## 2554	-2.669636e-03	2.411211e-03	-1.056416e-03	-4.519138e-04	7.982944e-04
## 2555	1.095628e+00	1.242208e+00	-1.405454e-01	9.900905e-01	-2.478357e+00

## 2556	-1.554104e-05	1.375442e-05	-6.143431e-06	-2.570928e-06	4.663889e-06
## 2558	-2.381094e-03	2.150594e-03	-9.422189e-04	-4.031091e-04	7.120775e-04
## 2559	1.311236e-02	-4.476779e-03	2.377297e-02	-1.439713e-01	6.486820e-02
## 2560	2.869165e-01	1.632533e+00	-4.447238e-01	9.054633e-01	-2.185060e+00
## 2562	5.612156e-01	1.604570e+00	-3.698412e-01	9.752975e-01	-2.390674e+00
## 2564	2.054308e-02	2.175774e-02	-3.764312e-03	2.171593e-02	-5.086705e-02
## 2567	1.464627e-01	4.653826e-02	5.299310e-02	-1.090444e-02	-5.788396e-02
## 2569	7.970268e-03	4.065744e-03	4.560947e-03	-2.762919e-02	2.658073e-03
## 2570	4.577313e-03	5.086318e-03	1.555327e-03	-1.065784e-03	-2.095165e-03
## 2571	2.430769e+00	7.006813e-01	8.814920e-01	-1.666671e-01	-9.550196e-01
## 2572	1.718405e-08	-2.745009e-09	3.898187e-08	-2.502793e-07	1.139819e-07
## 2573	-1.309780e+00	2.234440e+00	-8.285203e-01	2.543792e-01	-7.748724e-01
## 2574	-7.646067e-05	6.698945e-05	-3.030554e-05	-1.227047e-05	2.261685e-05
## 2576	-1.157586e-03	1.045528e-03	-4.580595e-04	-1.960210e-04	3.462081e-04
## 2577	-2.265144e-01	2.326907e-01	-9.042949e-02	-4.392004e-02	6.546600e-02
## 2578	-3.795838e-05	9.991067e-05	-3.438734e-05	2.330025e-05	-6.147481e-05
## 2579	-3.278957e-04	2.959753e-04	-1.297566e-04	-5.545004e-05	9.803229e-05
## 2580	-1.722736e-01	1.573834e-01	-6.869713e-02	-2.835654e-02	4.953744e-02
## 2581	-7.561882e-01	-1.835067e-01	-2.751801e-01	4.496712e-02	2.943827e-01
## 2582	6.098750e-01	1.512340e+00	-3.675169e-01	1.037710e+00	-2.471880e+00
## 2584	-8.747866e-05	6.458304e-05	-3.681861e-05	-5.575555e-06	1.725947e-05
## 2585	-3.875560e+00	3.515222e+00	-1.533998e+00	-6.590908e-01	1.157858e+00
## 2588	-5.766111e-01	-1.205010e-01	-2.103704e-01	3.040997e-02	2.229438e-01
## 2589	-9.001916e-02	-2.472365e-02	-3.267847e-02	5.927689e-03	3.527098e-02
## 2591	-1.669764e-04	-3.657885e-05	-6.104855e-05	9.571289e-06	6.401562e-05
## 2592	8.960676e-03	3.366245e-02	2.385312e-03	-6.815312e-03	-5.974212e-03
## 2593	-3.358528e-02	-9.359767e-03	-1.218826e-02	2.238637e-03	1.316994e-02
## 2594	7.349837e-01	8.998995e-01	2.474379e-01	-1.877564e-01	-3.429494e-01
## 2596	-6.530950e-01	-1.436779e-01	-2.380751e-01	3.587975e-02	2.530824e-01
## 2597	-1.347937e-01	1.217449e-01	-5.333879e-02	-2.282046e-02	4.031147e-02
## 2598	-6.236734e-01	5.185624e-01	-2.454932e-01	-9.739511e-02	1.902401e-01
## 2601	5.852144e-05	5.548989e-05	-5.300524e-06	5.040233e-05	-1.241764e-04
## 2602	-2.274673e-04	2.053846e-04	-9.001024e-05	-3.849361e-05	6.802523e-05
## 2603	1.372515e-01	4.071949e-02	4.974061e-02	-9.641394e-03	-5.401568e-02

## 2604	-5.097049e-01	4.603222e-01	-2.016926e-01	-8.628447e-02	1.524357e-01
## 2605	-1.380964e+00	2.293054e+00	-8.532195e-01	2.353789e-01	-7.403678e-01
## 2606	-4.377548e-02	1.520848e-01	-5.053346e-02	4.355066e-02	-1.117947e-01
## 2607	5.676830e-05	6.666006e-05	-1.233921e-05	6.303012e-05	-1.478482e-04
## 2608	-3.829762e-03	3.459023e-03	-1.515468e-03	-6.483634e-04	1.145310e-03
## 2610	-3.437240e-01	4.170585e-01	-1.389754e-01	-7.946943e-02	9.438852e-02
## 2611	-1.198378e-04	8.659798e-05	-4.761705e-05	-1.402293e-05	3.446948e-05
## 2612	1.623245e-01	-5.812731e-02	2.874680e-01	-1.728569e+00	7.777565e-01
## 2613	2.561925e-02	1.610151e-02	9.048569e-03	-3.496690e-03	-1.075213e-02
## 2614	4.515253e-03	1.014616e-01	-2.935849e-02	4.856934e-02	-1.184675e-01
## 2615	-4.952193e-06	-1.409462e-06	-1.727535e-06	-2.040761e-07	2.198032e-06
## 2616	-2.265727e-04	-8.850286e-06	-8.419389e-05	5.392689e-06	8.278699e-05
## 2617	-2.134602e-03	1.927927e-03	-8.446817e-04	-3.613647e-04	6.383542e-04
## 2619	-2.143421e-03	1.935907e-03	-8.481707e-04	-3.628639e-04	6.409955e-04
## 2620	4.626206e-02	-1.651470e-02	8.205737e-02	-4.936582e-01	2.221388e-01
## 2621	-2.030330e-01	1.873140e-01	-7.038145e-02	-1.127200e-01	9.758594e-02
## 2622	1.240990e-02	1.299716e-02	-2.094028e-03	1.206717e-02	-3.005884e-02
## 2624	-1.936202e-03	-2.227310e-04	-9.007262e-04	5.278180e-04	4.421761e-06
## 2628	-3.245284e-01	-9.044090e-02	-1.177729e-01	2.163138e-02	1.272586e-01
## 2629	-4.462453e-01	4.247348e-01	-1.829893e-01	-6.570884e-02	1.093611e-01
## 2630	-6.698164e-02	-1.865581e-02	-2.430826e-02	4.462471e-03	2.626493e-02
## 2631	1.311675e-01	4.795730e-01	-1.171044e-01	2.748437e-01	-6.740424e-01
## 2634	-2.319817e-01	-6.464736e-02	-8.418733e-02	1.546225e-02	9.096776e-02
## 2635	-9.207548e-01	8.313810e-01	-3.643423e-01	-1.558352e-01	2.753803e-01
## 2636	-6.393877e-01	-1.781884e-01	-2.320368e-01	4.261851e-02	2.507258e-01
## 2637	-6.193832e-03	5.594236e-03	-2.450942e-03	-1.048611e-03	1.852331e-03
## 2638	1.743026e-01	8.596499e-01	-2.197298e-01	4.622728e-01	-1.136656e+00
## 2639	-1.489188e-03	1.345013e-03	-5.892828e-04	-2.521124e-04	4.453536e-04
## 2643	-4.280706e-02	-6.918816e-03	-1.567396e-02	1.852919e-03	1.639150e-02
## 2644	3.409587e-01	1.927142e+00	-5.134069e-01	1.042642e+00	-2.538828e+00
## 2645	-4.704727e-01	1.777289e+00	-5.853216e-01	5.330690e-01	-1.360262e+00
## 2646	1.195810e-01	3.494254e-02	4.335160e-02	-8.293414e-03	-4.701931e-02
## 2647	9.261508e-04	1.652805e-03	-3.681252e-04	1.284358e-03	-3.039370e-03
## 2648	-7.019179e-05	6.339689e-05	-2.777539e-05	-1.188339e-05	2.099154e-05

## 2649	6.734310e-05	-2.413065e-05	1.192218e-04	-7.168176e-04	3.225203e-04
## 2650	-2.110515e-02	1.731894e-01	-1.263685e-02	-3.432470e-02	-5.855677e-03
## 2651	-5.058187e-01	4.568527e-01	-2.001560e-01	-8.563446e-02	1.512700e-01
## 2652	3.637968e-04	1.263285e-04	1.313070e-04	-2.916953e-05	-1.447150e-04
## 2653	-1.869129e-01	1.913044e-01	-1.716327e-02	-4.784405e-01	2.661398e-01
## 2654	2.696620e-01	2.002978e+00	-5.483732e-01	1.043998e+00	-2.543226e+00
## 2655	-5.900183e-04	-1.644302e-04	-2.141204e-04	3.932786e-05	2.313664e-04
## 2656	5.668457e-05	5.644179e-05	-6.786388e-06	5.213315e-05	-1.265738e-04
## 2657	-1.616068e-03	1.759971e-03	-6.541686e-04	-3.180768e-04	4.351881e-04
## 2658	-6.072568e-01	5.484698e-01	-2.402956e-01	-1.028078e-01	1.816066e-01
## 2659	-6.189640e-02	5.679726e-02	-2.458773e-02	-1.048608e-02	1.817007e-02
## 2660	-4.811092e-02	6.168362e-02	-1.956941e-02	-1.172210e-02	1.285362e-02
## 2661	5.932122e-02	2.407736e-02	2.131834e-02	-5.459973e-03	-2.385683e-02
## 2662	-1.620444e-01	6.565959e-02	-6.188237e-02	-1.132317e-02	5.481609e-02
## 2663	-1.313803e-01	1.918547e-01	1.327381e-01	-1.475358e+00	7.230512e-01
## 2665	-6.838201e-05	-1.903361e-05	-2.481680e-05	4.553325e-06	2.681308e-05
## 2667	1.488892e+01	5.037188e+00	5.378614e+00	-1.169673e+00	-5.908381e+00
## 2670	3.473806e-01	3.768376e-01	-9.292657e-03	-3.928709e-02	-6.587406e-01
## 2671	-1.594545e-03	1.440173e-03	-6.309733e-04	-2.699501e-04	4.768623e-04
## 2672	-1.101869e+00	1.287579e+00	-5.219806e-01	-5.488804e-02	6.302464e-03
## 2673	1.724630e-02	1.824023e-02	-3.154441e-03	1.823592e-02	-4.268195e-02
## 2675	-1.974698e-01	1.805910e-01	-7.247150e-02	-7.802126e-02	8.003764e-02
## 2679	-8.584943e-02	8.254625e-02	-3.513994e-02	-1.302033e-02	2.130894e-02
## 2681	-4.061699e+00	3.688821e+00	-1.607806e+00	-6.916976e-01	1.213092e+00
## 2683	-1.284816e-03	1.160404e-03	-5.084104e-04	-2.175090e-04	3.842369e-04
## 2685	2.832767e+00	1.417416e+00	1.010593e+00	-3.141795e-01	-1.160290e+00
## 2687	-5.835401e+00	5.272267e+00	-2.304894e+00	-1.021117e+00	1.760739e+00
## 2688	-4.820811e-01	4.480704e-01	-1.592411e-01	-3.298504e-01	2.608460e-01
## 2690	-5.603868e-04	1.928779e-04	-2.137680e-04	-3.059143e-05	1.895082e-04
## 2692	-4.785616e-04	4.322118e-04	-1.893702e-04	-8.101389e-05	1.431180e-04
## 2695	-7.289665e-02	1.523377e-01	-3.126282e-02	-2.956991e-02	1.492537e-02
## 2696	5.926649e-01	-1.820641e-01	1.018714e+00	-6.139335e+00	2.724774e+00
## 2698	-3.650886e-04	2.326092e-04	-1.419880e-04	-4.188954e-05	1.160007e-04
## 2700	-1.129151e-03	1.019747e-03	-4.468360e-04	-1.910819e-04	3.375924e-04

##	2703	2.599092e-01	1.812634e+00	-5.013596e-01	9.714166e-01	-2.349766e+00
##	2708	-2.051929e-03	1.853289e-03	-8.119644e-04	-3.473848e-04	6.136440e-04
##	2709	8.768944e-06	-9.858448e-06	4.099485e-06	4.661442e-07	-2.495851e-07
##	2710	-1.360013e-03	1.228561e-03	-5.376528e-04	-2.342915e-04	4.086281e-04
##	2713	1.354779e+00	1.449094e+00	-2.592882e-01	1.456228e+00	-3.396725e+00
##	2714	6.988502e-01	1.663263e+00	-3.797194e-01	1.106722e+00	-2.674771e+00
##	2715	-1.872342e-01	-5.217733e-02	-6.794822e-02	1.247969e-02	7.342075e-02
##	2716	-1.570285e-03	1.418249e-03	-6.213735e-04	-2.658395e-04	4.696065e-04
##	2717	1.830486e-02	5.117454e-03	6.642464e-03	-1.223315e-03	-7.179271e-03
##	2719	-3.650289e-06	2.584352e-06	-1.425185e-06	-4.744687e-07	1.145778e-06
##	2721	1.412777e+01	9.903218e+00	4.961433e+00	-2.132714e+00	-6.009883e+00
##	2722	-7.064943e-05	-6.576573e-06	-2.688114e-05	4.235023e-06	2.328497e-05
##	2724	6.024720e-01	1.605068e+00	-3.477976e-01	9.582273e-01	-2.379894e+00
##	2725	7.630542e-01	7.850129e-01	4.928375e-02	-5.168335e-01	-1.187912e+00
##	2726	-1.959832e-03	1.770111e-03	-7.755202e-04	-3.317949e-04	5.861027e-04
##	2727	-8.230821e-03	-2.011478e-03	-2.994840e-03	4.922608e-04	3.205352e-03
##	2728	-1.592065e-03	1.437929e-03	-6.299925e-04	-2.695279e-04	4.761184e-04
##	2729	-1.640213e-03	1.481403e-03	-6.490481e-04	-2.776685e-04	4.905053e-04
##	2730	-5.615299e-05	4.296251e-05	-2.200490e-05	-7.958508e-06	1.740382e-05
##	2731	-3.337630e-03	3.014680e-03	-1.320816e-03	-5.648721e-04	9.978003e-04
##	2732	-9.786416e-10	8.993214e-10	-3.603686e-10	-3.851464e-10	3.921192e-10
##	2733	1.148049e-01	5.009323e-02	4.116083e-02	-1.126539e-02	-4.644460e-02
##	2734	-1.001736e+00	9.044053e-01	-3.963824e-01	-1.695323e-01	2.996127e-01
##	2735	-3.075511e-04	-8.025274e-05	-1.118035e-04	1.950868e-05	1.200162e-04
##	2736	1.799547e-07	-6.037286e-08	3.289045e-07	-1.996692e-06	9.000374e-07
##	2737	-2.410320e-04	2.175650e-04	-9.537952e-05	-4.076708e-05	7.207359e-05
##	2741	-9.180666e-04	7.771945e-04	-3.642460e-04	-1.391789e-04	2.693826e-04
##	2742	-4.844029e-01	-1.118279e-01	-1.764351e-01	2.766256e-02	1.881264e-01
##	2743	-5.417942e-05	4.882411e-05	-2.143721e-05	-9.147785e-06	1.620736e-05
##	2744	-7.469491e-05	5.139096e-04	-1.614628e-04	1.899592e-04	-4.736886e-04
##	2746	-2.235556e-05	8.414258e-06	-1.185869e-05	6.717695e-06	-5.263831e-06
##	2747	-1.992184e-03	1.799882e-03	-7.887158e-04	-3.364584e-04	5.942756e-04
##	2749	-1.414690e-01	1.264999e-01	-5.594486e-02	-2.369632e-02	4.240816e-02
##	2750	-6.438533e-04	5.814946e-04	-2.547778e-04	-1.089942e-04	1.925478e-04

##	2751	-1.325141e+00	2.473634e+00	-9.010229e-01	3.536713e-01	-1.020051e+00
##	2752	1.819091e-01	8.167263e-02	6.515570e-02	-1.830901e-02	-7.377311e-02
##	2754	4.108826e-01	2.195846e-01	1.461947e-01	-4.836501e-02	-1.693967e-01
##	2756	-9.841099e-05	8.647199e-05	-4.024067e-05	-1.284559e-05	2.435436e-05
##	2757	-1.775460e-01	1.608429e-01	-6.901748e-02	-3.980128e-02	5.768182e-02
##	2758	1.395768e-01	1.484384e-01	-2.577568e-02	1.479660e-01	-3.463581e-01
##	2760	-1.190293e+00	1.175254e+00	-4.999943e-01	-1.575475e-01	2.470233e-01
##	2761	2.704601e-01	1.170396e+00	-3.104577e-01	6.865697e-01	-1.650761e+00
##	2763	-4.283249e-02	4.059951e-02	-1.736193e-02	-6.755453e-03	1.127171e-02
##	2764	2.935152e-02	3.214414e-02	-5.694686e-03	3.153743e-02	-7.386699e-02
##	2765	-1.358928e+00	2.819278e+00	-1.006802e+00	4.892578e-01	-1.357379e+00
##	2767	1.485950e-01	4.252464e-01	4.326584e-02	-8.651771e-02	-8.852317e-02
##	2768	-2.904249e-01	3.590741e-01	1.291636e-01	-1.969252e+00	9.903383e-01
##	2769	-5.734985e-01	5.485712e-01	-2.359702e-01	-8.322318e-02	1.375433e-01
##	2770	-1.015509e-03	2.560124e-04	-3.843117e-04	-3.901468e-05	3.525767e-04
##	2771	-2.894230e-01	-7.955687e-02	-1.050615e-01	1.905613e-02	1.134133e-01
##	2773	-1.099178e-01	5.650313e-01	-1.769747e-01	1.826752e-01	-4.686784e-01
##	2774	-6.616533e-04	1.215925e-03	-4.473341e-04	1.754857e-04	-5.000140e-04
##	2776	-2.222968e-03	2.007757e-03	-8.796662e-04	-3.762876e-04	6.647149e-04
##	2777	3.125457e-02	3.884865e-02	-9.459368e-03	4.063506e-02	-9.161911e-02
##	2778	-2.274012e-03	2.053764e-03	-8.998535e-04	-3.849311e-04	6.800205e-04
##	2779	-5.149588e-01	4.697359e-01	-2.051326e-01	-8.510021e-02	1.488910e-01
##	2781	-6.719838e-05	6.055253e-05	-2.658864e-05	-1.134443e-05	2.010096e-05
##	2782	8.387851e-01	5.920949e-02	2.579336e+00	-1.750648e+01	8.066200e+00
##	2784	2.783089e-01	1.590600e-01	9.873767e-02	-3.482150e-02	-1.155526e-01
##	2787	-1.533148e-01	1.374284e-01	-6.063894e-02	-2.574695e-02	4.593178e-02
##	2788	-3.534041e-01	9.791620e-01	-3.321995e-01	2.332367e-01	-6.174042e-01
##	2790	-1.971544e-06	2.722027e-07	-7.382867e-07	-3.262203e-08	7.084050e-07
##	2791	1.081451e-03	-2.605913e-05	2.827156e-03	-1.868995e-02	8.557246e-03
##	2792	-1.620084e+00	1.668605e+00	-6.492211e-01	-3.093120e-01	4.589090e-01
##	2793	2.816155e-01	3.306051e-02	3.160049e-01	-1.906675e+00	6.697749e-01
##	2794	-1.872673e-01	1.917999e-01	-1.686990e-02	-4.819133e-01	2.678510e-01
##	2795	-5.763318e-05	5.187873e-05	-2.280323e-05	-9.716772e-06	1.724093e-05
##	2798	2.524690e-01	-9.049632e-02	4.469006e-01	-2.686862e+00	1.208900e+00

## 2799	-6.904914e+00	1.035225e+01	-2.812600e+00	-2.254752e+00	1.866139e+00
## 2800	-9.242002e-02	1.266060e-01	-4.929744e-02	3.884661e-03	-2.021566e-02
## 2802	1.502046e-07	-4.975133e-08	2.761454e-07	-1.679306e-06	7.572223e-07
## 2807	-1.462256e-06	8.396195e-07	-5.657096e-07	-1.504471e-07	4.735030e-07
## 2811	2.106049e-01	6.133367e-01	-1.537394e-01	3.992198e-01	-9.544822e-01
## 2812	-3.340984e-01	1.704769e+00	-5.462726e-01	5.790211e-01	-1.457130e+00
## 2813	-4.976407e-04	1.507172e-04	-1.889808e-04	-2.374635e-05	1.709918e-04
## 2814	1.394133e-01	-4.996965e-02	2.467756e-01	-1.483664e+00	6.675442e-01
## 2815	2.277971e+00	2.767095e+00	-5.223485e-01	2.571002e+00	-6.035089e+00
## 2816	-2.287116e-02	1.489711e-01	3.148123e-01	-2.551475e+00	1.205611e+00
## 2817	8.818172e+00	2.975918e+00	2.945574e+00	-1.049625e-01	-4.424962e+00
## 2818	3.754213e+00	2.308328e+00	1.327391e+00	-5.021969e-01	-1.571556e+00
## 2820	1.038594e-01	9.631722e-01	-2.607952e-01	4.718764e-01	-1.165326e+00
## 2821	-3.835765e-03	3.503893e-03	-1.530542e-03	-6.289315e-04	1.099254e-03
## 2822	1.311733e-03	4.193625e-04	4.745093e-04	-9.809729e-05	-5.187349e-04
## 2823	1.215036e-05	-4.348982e-06	2.152257e-05	-1.294262e-04	5.823514e-05
## 2824	-3.177602e-04	2.869648e-04	-1.257398e-04	-5.378744e-05	9.502876e-05
## 2826	-2.819233e-03	2.546200e-03	-1.115636e-03	-4.771502e-04	8.429402e-04
## 2827	-1.634719e-03	1.476334e-03	-6.468967e-04	-2.766535e-04	4.887705e-04
## 2828	-1.083778e+01	9.837275e+00	-4.166009e+00	-2.799087e+00	3.694870e+00
## 2829	-1.318256e-04	-3.560657e-05	-4.791646e-05	8.670698e-06	5.143091e-05
## 2831	-3.318147e-03	3.003848e-03	-1.315551e-03	-5.574139e-04	9.827363e-04
## 2832	1.860273e+01	6.117291e+00	6.348829e+00	-5.076933e-01	-8.819301e+00
## 2833	2.473646e+01	7.269582e+00	8.966548e+00	-1.723855e+00	-9.729615e+00
## 2834	-1.521418e-03	1.374124e-03	-6.020361e-04	-2.575700e-04	4.549934e-04
## 2835	4.767929e-01	-5.763018e-03	6.204941e-01	-3.740575e+00	1.451853e+00
## 2837	1.138269e+00	1.203929e+00	-2.082600e-01	1.203726e+00	-2.817288e+00
## 2838	2.527048e-04	-2.516677e-04	4.084781e-05	5.080647e-04	-2.945135e-04
## 2839	-1.429702e-03	1.290654e-03	-5.658326e-04	-2.416559e-04	4.272033e-04
## 2840	6.418326e-02	6.791022e-02	-1.175037e-02	6.788530e-02	-1.588849e-01
## 2843	-2.893704e-07	-7.572210e-08	-1.084628e-07	2.639086e-08	1.003117e-07
## 2845	1.614656e+01	4.499845e+00	5.859663e+00	-1.076257e+00	-6.331622e+00
## 2846	3.116686e-45	-2.814974e-45	1.233294e-45	5.276523e-46	-9.320775e-46
## 2847	2.493333e-01	1.759546e-01	8.752813e-02	-3.787231e-02	-1.061611e-01

## 2848	-6.668905e-04	6.022722e-04	-2.638959e-04	-1.128814e-04	1.994284e-04
## 2850	-1.509496e-05	1.416607e-05	-6.130289e-06	-2.314417e-06	3.923523e-06
## 2852	-1.925902e-01	1.787343e-01	-6.404578e-02	-1.282754e-01	1.026182e-01
## 2853	3.647138e-04	4.906987e-04	-9.769937e-05	4.332240e-04	-1.019150e-03
## 2855	-9.679198e-04	8.742053e-04	-3.830129e-04	-1.638632e-04	2.894648e-04
## 2856	7.664812e-01	1.159957e+00	-1.575971e-01	7.595443e-01	-1.954158e+00
## 2857	1.342063e-03	1.353835e-03	-1.395486e-04	7.655089e-04	-2.927667e-03
## 2860	-4.030295e-05	3.632005e-05	-1.594646e-05	-6.805633e-06	1.205725e-05
## 2861	-1.761791e-04	-4.880841e-05	-6.395479e-05	1.171095e-05	6.902250e-05
## 2862	-4.601574e-03	2.237463e-03	-1.767714e-03	-3.957766e-04	1.526897e-03
## 2864	-8.444995e-03	7.627474e-03	-3.341743e-03	-1.429731e-03	2.525564e-03
## 2865	-4.750361e-04	4.289721e-04	-1.879774e-04	-8.039657e-05	1.420532e-04
## 2866	-9.323241e-04	8.418702e-04	-3.690422e-04	-1.575072e-04	2.783717e-04
## 2867	-4.661734e-01	1.157499e+00	-4.018059e-01	2.546767e-01	-6.778548e-01
## 2868	-1.581299e-05	1.417257e-05	-6.254685e-06	-2.654217e-06	4.736065e-06
## 2869	-1.691556e-03	3.098715e-03	-7.137902e-04	-5.979736e-04	3.789652e-04
## 2870	4.345090e-02	2.182962e-01	-1.583190e-02	1.910772e-02	-1.330654e-01
## 2871	-3.838221e-03	3.466688e-03	-1.518826e-03	-6.497760e-04	1.147800e-03
## 2872	-2.708812e-03	1.379863e-03	-1.042314e-03	-2.455754e-04	8.940078e-04
## 2873	-1.025953e+00	1.647000e+00	-6.185595e-01	1.526018e-01	-4.925663e-01
## 2875	-1.984980e-01	1.768385e-01	-7.847918e-02	-3.311767e-02	5.955535e-02
## 2877	4.937796e-02	1.434824e-02	1.794202e-02	-3.714069e-03	-1.926590e-02
## 2878	-4.600432e-01	4.045134e-01	-1.817463e-01	-7.566739e-02	1.384112e-01
## 2879	-2.907814e+00	4.226153e+00	-1.195247e+00	-8.111922e-01	7.428408e-01
## 2880	-1.557146e-01	1.398862e-01	-6.143034e-02	-2.749096e-02	4.724067e-02
## 2881	-4.590660e-01	4.146287e-01	-1.816554e-01	-7.772225e-02	1.372893e-01
## 2883	-1.670881e+00	1.555233e+00	-6.624702e-01	-2.920544e-01	4.960188e-01
## 2884	-5.057028e-01	4.566498e-01	-2.001100e-01	-8.558895e-02	1.512332e-01
## 2885	-1.138276e-04	1.027339e-04	-4.504143e-05	-1.925324e-05	3.404279e-05
## 2887	-4.579253e-05	4.128266e-05	-1.811886e-05	-7.735876e-06	1.369857e-05
## 2888	1.556019e+01	1.151936e+01	5.447484e+00	-2.471131e+00	-6.667449e+00
## 2889	1.578701e-01	-5.652972e-02	2.795858e-01	-1.681184e+00	7.564372e-01
## 2890	-7.577398e-01	6.843958e-01	-2.998432e-01	-1.282863e-01	2.266088e-01
## 2891	4.370248e-03	1.338459e-03	1.582603e-03	-3.152763e-04	-1.723353e-03

##	2892	-4.522892e+00	4.085324e+00	-1.789749e+00	-7.657710e-01	1.352589e+00
##	2893	1.718405e-08	-2.745009e-09	3.898187e-08	-2.502793e-07	1.139819e-07
##	2894	-7.591558e+00	7.159226e+00	-3.092450e+00	-1.150320e+00	1.937933e+00
##	2895	2.431011e+00	1.691142e+00	8.540894e-01	-3.644019e-01	-1.033119e+00
##	2896	-6.460976e-04	5.835176e-04	-2.556659e-04	-1.093731e-04	1.932188e-04
##	2898	6.198706e-02	1.794058e-02	2.247688e-02	-4.264541e-03	-2.435985e-02
##	2901	-3.910737e-01	1.503618e+00	-4.895670e-01	4.434695e-01	-1.141627e+00
##	2903	-8.638922e-01	1.285418e+00	-4.853507e-01	6.895890e-02	-2.807315e-01
##	2904	2.749287e-02	1.589250e-01	-3.393999e-02	6.492290e-02	-1.758565e-01
##	2905	8.408467e-04	5.666544e-03	-1.683099e-03	3.344727e-03	-7.843147e-03
##	2906	-8.449172e-05	3.919073e-05	-3.252372e-05	-6.600230e-06	2.772855e-05
##	2907	8.509072e-08	-2.656294e-08	1.605190e-07	-9.834478e-07	4.440785e-07
##	2908	8.577506e-03	5.993691e-03	2.677967e-03	-1.637428e-02	-5.434386e-03
##	2909	2.037395e-01	1.779675e+00	2.605652e-02	-3.573885e-01	-2.158187e-01
##	2910	-4.690174e-01	4.561591e-02	-1.751024e-01	-3.939528e-03	1.700321e-01
##	2911	-9.340389e-01	2.420195e+00	-8.314806e-01	5.477402e-01	-1.457157e+00
##	2912	-8.118238e-01	1.409907e+00	-5.209413e-01	1.690825e-01	-5.081490e-01
##	2913	-1.843082e-03	1.664646e-03	-7.293221e-04	-3.120238e-04	5.511859e-04
##	2914	6.668250e-03	5.708456e-01	-1.675948e-01	2.623928e-01	-6.421336e-01
##	2916	3.132719e-05	1.731258e-05	7.264237e-06	5.636271e-06	-2.786965e-05
##	2918	-1.099034e+01	9.982679e+00	-4.208293e+00	-2.967340e+00	3.807433e+00
##	2920	-2.269362e-03	5.443180e-02	-2.352522e-03	-1.084024e-02	-3.449127e-03
##	2921	2.440026e+00	3.582031e+00	-7.344753e-01	3.015727e+00	-7.121652e+00
##	2922	-3.418015e-03	3.087344e-03	-1.352649e-03	-5.784390e-04	1.021750e-03
##	2923	-8.675818e-04	9.447437e-04	-3.965508e-04	-6.000521e-05	5.870262e-05
##	2924	-1.787732e-04	1.608077e-04	-7.076778e-05	-3.002645e-05	5.334518e-05
##	2925	1.044574e-06	-3.695312e-07	1.861260e-06	-1.121301e-05	5.047043e-06
##	2926	-1.309657e-04	-1.517270e-05	-4.862013e-05	5.693015e-06	4.774787e-05
##	2927	-5.815751e-01	5.203257e-01	-2.299960e-01	-9.747170e-02	1.743155e-01
##	2928	2.676206e-01	8.591612e-01	-1.806869e-01	4.504994e-01	-1.154033e+00
##	2929	2.523677e-01	1.083333e-01	9.053071e-02	-2.440845e-02	-1.019547e-01
##	2930	1.096324e+00	1.486288e+00	-2.669067e-01	1.233894e+00	-2.959977e+00
##	2931	7.864430e+00	3.446911e+00	2.819196e+00	-7.747858e-01	-3.182780e+00
##	2933	1.754055e-03	-5.365834e-04	3.337258e-03	-2.049517e-02	9.259074e-03

## 2934	1.447869e+00	8.368702e-01	5.134081e-01	-1.830207e-01	-6.018976e-01
## 2935	7.999129e-01	8.460776e-01	-5.172147e-02	6.149095e-01	-1.614916e+00
## 2936	-2.834705e-03	2.560300e-03	-1.121716e-03	-4.799067e-04	8.477341e-04
## 2938	4.271202e-02	4.381861e-01	-1.117939e-01	1.938934e-01	-4.955642e-01
## 2939	3.328147e-02	3.519640e-02	-6.085594e-03	3.517720e-02	-8.236013e-02
## 2940	-1.391723e-01	8.416189e-01	-2.439116e-01	2.459656e-01	-6.663363e-01
## 2941	-1.647805e-03	1.488275e-03	-6.520485e-04	-2.789663e-04	4.927894e-04
## 2943	-2.025256e+00	1.844337e+00	-8.018471e-01	-3.458489e-01	6.044072e-01
## 2945	1.555841e+00	1.645377e+00	-2.845975e-01	1.645215e+00	-3.850570e+00
## 2946	-5.537248e-01	3.570830e+00	-1.088424e+00	1.207159e+00	-3.099791e+00
## 2947	3.878687e-02	-1.383417e-02	6.882859e-02	-4.141298e-01	1.863571e-01
## 2948	2.154287e+01	8.274674e+00	7.754975e+00	-1.889315e+00	-8.626562e+00
## 2950	-1.360015e+00	1.970086e+00	-7.556512e-01	1.022969e-01	-4.109571e-01
## 2954	-2.115762e-01	1.960046e-01	-6.829698e-02	-1.566623e-01	1.203417e-01
## 2955	4.318368e-01	2.138631e+00	-5.647389e-01	1.192611e+00	-2.894323e+00
## 2956	-2.428162e-04	-6.523823e-05	-8.821910e-05	1.577882e-05	9.489991e-05
## 2957	-5.002938e-03	1.759846e-02	-2.345700e-03	-3.451010e-03	4.546346e-04
## 2959	3.445939e-01	1.224471e+00	-3.033728e-01	7.210865e-01	-1.755311e+00
## 2961	1.118394e-01	2.780910e-01	-5.351659e-02	1.562268e-01	-3.997540e-01
## 2962	-7.083983e-01	1.275923e+00	-4.667708e-01	1.651112e-01	-4.891541e-01
## 2964	6.441171e-01	1.187614e+00	-2.361249e-01	8.344771e-01	-2.036006e+00
## 2965	-4.945416e-03	1.189169e-03	-1.866073e-03	-1.826723e-04	1.736687e-03
## 2966	-3.650786e-06	6.918709e-07	-1.378345e-06	-8.321536e-08	1.273784e-06
## 2967	4.038936e-05	7.571311e-05	1.235537e-05	-1.455553e-05	-2.290067e-05
## 2968	-2.593452e-02	9.529860e-04	-9.638798e-03	9.539265e-05	9.525620e-03
## 2969	-5.512420e-04	4.106489e-04	-2.159247e-04	-7.538394e-05	1.708931e-04
## 2970	-1.195909e-01	1.079642e-01	-4.729857e-02	-2.041401e-02	3.585373e-02
## 2974	-9.055457e-01	8.930881e-01	-3.617445e-01	-1.650838e-01	2.597749e-01
## 2976	3.696943e-01	8.604270e-01	-1.923032e-01	5.697406e-01	-1.382467e+00
## 2977	3.386709e-01	1.432808e+00	-3.672585e-01	8.160301e-01	-1.985116e+00
## 2979	-1.558706e-02	1.407815e-02	-6.167908e-03	-2.638877e-03	4.661475e-03
## 2980	2.966460e-03	-1.410560e-03	6.190661e-03	-3.866685e-02	1.766535e-02
## 2981	-5.541208e+00	5.215471e+00	-2.198542e+00	-9.801819e-01	1.640563e+00
## 2982	5.223945e-07	-1.825403e-07	9.365318e-07	-5.652581e-06	2.545178e-06

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## 2985 1.562692e-03 3.541575e-03 4.808658e-04 -7.241802e-04 -8.575287e-04
## 2986 -9.659487e-04 8.723571e-04 -3.822395e-04 -1.634953e-04 2.888480e-04
## 2987 -3.242762e-04 -9.035609e-05 -1.176821e-04 2.161230e-05 1.271576e-04
## 2988 7.143428e-01 2.349029e+00 -6.009317e-01 1.477178e+00 -3.536291e+00
## 2989 1.030585e-01 3.571356e-02 3.720619e-02 -8.265070e-03 -4.096396e-02
## 2992 -1.153194e-03 1.041689e-03 -4.559998e-04 -1.978085e-04 3.460857e-04
## 2994 9.385644e-01 1.602697e+00 -3.652213e-01 1.301762e+00 -3.051927e+00
## 2995 -2.123417e-01 1.917859e-01 -8.402506e-02 -3.594927e-02 6.350301e-02
## 2996 8.406062e-03 8.903737e-03 -1.541762e-03 8.895246e-03 -2.081972e-02
## 2997 3.380525e-02 3.574185e-02 -6.170258e-03 3.566493e-02 -8.361497e-02
## 2998 -6.572188e-04 1.965698e-03 -2.993276e-04 -3.823168e-04 8.394381e-05
##
##
## $startweights
## $startweights[[1]]
## $startweights[[1]][[1]]
##
## [,1]      [,2]      [,3]      [,4]
## [1,] 2.14946575 -2.1437661 2.05457677 -1.55458422
## [2,] -0.32953101  0.8215502 -0.63057849  1.49367433
## [3,] -0.23712814  0.4813890 -0.01003537 -0.55955647
## [4,] -1.02700071  0.6579578 -0.53906368 -0.91126851
## [5,]  0.23407882 -0.6450463 -0.05653302  0.28414421
## [6,] -0.09700557 -0.3416579 -1.48450919  0.06966502
## [7,]  0.44676280  0.7645800 -0.02600186 -1.15105433
## [8,]  1.87608878 -0.6210436  1.04362789 -0.17670268
## [9,] -0.35579733  0.3497395  0.34835652 -0.32200820
## [10,] -0.70091022 -0.6123593  1.04412771  0.81124931
## [11,]  1.15215714  0.4747608 -0.84317455  0.39186072
## [12,]  0.45716221 -0.3884841 -0.07163575  1.12773445
## [13,]  0.38393292  0.1785961  0.64507943 -0.21400043
## [14,]  0.25381264  1.3041018 -0.57874284  0.05597682
## [15,]  1.43223111 -3.3293328 -0.28159378  0.45583820
## [16,]  0.55251938  1.3411262 -0.67410412 -0.29588419
## [17,] -1.48824415  1.1207478 -0.07279313  0.65695057

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## [18,] 1.77990224 0.6649528 -0.48613225 -2.20311572
## [19,] -1.64462249 1.0419740 -0.57076068 0.98751721
## [20,] 1.35711533 -0.7587569 -0.64771435 -0.28784872
## [21,] -0.41987041 0.1189786 -1.17478904 0.76431112
##
## $startweights[[1]][[2]]
## [,1]      [,2]      [,3]
## [1,] -2.7547266 -0.8113570 -1.9466956
## [2,] 1.3672109 -1.5172341 1.2465743
## [3,] 0.1591462 -1.4849514 1.1827882
## [4,] -0.2304124 1.0869929 0.2476600
## [5,] -0.5346434 -0.4950321 -0.8387247
##
## $startweights[[1]][[3]]
## [,1]      [,2]
## [1,] 0.4352038 1.2837573
## [2,] -1.7620225 1.0504011
## [3,] 0.3880673 0.4612185
## [4,] -0.6592404 -0.2759577
##
## $result.matrix
## [,1]
## error 2.851484e+02
## reached.threshold 9.544184e-02
## steps 2.890000e+03
## Intercept.to.1layahid1 2.087476e+00
## Age.to.1layahid1 -1.813383e-01
## Agency_CodeC2B.to.1layahid1 3.872890e-03
## Agency_CodeCWT.to.1layahid1 1.161088e+00
## Agency_CodeEPX.to.1layahid1 1.674890e+00
## Agency_CodeJZI.to.1layahid1 7.277833e-01
## TypeAirlines.to.1layahid1 -4.787422e-01

```

## TypeTravel_Agency.to.1l1ayhid1	2.801594e+00
## Commision.to.1l1ayhid1	-4.071063e+00
## ChannelOffline.to.1l1ayhid1	1.599497e-01
## ChannelOnline.to.1l1ayhid1	2.912972e-01
## Duration.to.1l1ayhid1	-2.829587e+00
## Sales.to.1l1ayhid1	9.099163e+00
## Product.NameBronze_Plan.to.1l1ayhid1	8.175807e-01
## Product.NameCancellation_Plan.to.1l1ayhid1	9.321126e-04
## Product.NameCustomised_Plan.to.1l1ayhid1	-9.792435e-01
## Product.NameGold_Plan.to.1l1ayhid1	-2.592378e+00
## Product.NameSilver_Plan.to.1l1ayhid1	2.341422e+00
## DestinationAmericas.to.1l1ayhid1	-1.025822e+00
## DestinationASIA.to.1l1ayhid1	-4.388875e-01
## DestinationEUROPE.to.1l1ayhid1	7.752779e-01
## Intercept.to.1l1ayhid2	-3.911470e+00
## Age.to.1l1ayhid2	-1.978721e+00
## Agency_CodeC2B.to.1l1ayhid2	9.513273e+00
## Agency_CodeCWT.to.1l1ayhid2	4.960274e+00
## Agency_CodeEPX.to.1l1ayhid2	-6.426440e+00
## Agency_CodeJZI.to.1l1ayhid2	-1.035664e+01
## TypeAirlines.to.1l1ayhid2	5.691611e-01
## TypeTravel_Agency.to.1l1ayhid2	-4.256248e-01
## Commision.to.1l1ayhid2	3.721329e+01
## ChannelOffline.to.1l1ayhid2	1.396569e+00
## ChannelOnline.to.1l1ayhid2	-1.534167e+00
## Duration.to.1l1ayhid2	-2.641555e+01
## Sales.to.1l1ayhid2	7.028053e+00
## Product.NameBronze_Plan.to.1l1ayhid2	3.030043e+01
## Product.NameCancellation_Plan.to.1l1ayhid2	-1.591024e+01
## Product.NameCustomised_Plan.to.1l1ayhid2	1.650676e+00
## Product.NameGold_Plan.to.1l1ayhid2	3.745700e+00
## Product.NameSilver_Plan.to.1l1ayhid2	-1.342579e+00
## DestinationAmericas.to.1l1ayhid2	6.630231e+00
## DestinationASIA.to.1l1ayhid2	-3.986219e+01

## DestinationEUROPE.to.1lidayid2	1.793517e+01
## Intercept.to.1lidayid3	5.284832e+00
## Age.to.1lidayid3	-2.663250e-02
## Agency_CodeC2B.to.1lidayid3	-7.120544e-01
## Agency_CodeCWT.to.1lidayid3	-1.175220e+00
## Agency_CodeEPX.to.1lidayid3	1.073561e+00
## Agency_CodeJZI.to.1lidayid3	-4.640225e+00
## TypeAirlines.to.1lidayid3	-2.035187e-01
## TypeTravel_Agency.to.1lidayid3	1.221145e+00
## Commision.to.1lidayid3	2.825927e+00
## ChannelOffline.to.1lidayid3	9.310716e-01
## ChannelOnline.to.1lidayid3	-7.301185e-01
## Duration.to.1lidayid3	-1.089922e+01
## Sales.to.1lidayid3	1.427034e+00
## Product.NameBronze_Plan.to.1lidayid3	-1.281755e+00
## Product.NameCancellation_Plan.to.1lidayid3	3.931155e+00
## Product.NameCustomised_Plan.to.1lidayid3	2.271055e+00
## Product.NameGold_Plan.to.1lidayid3	-1.634816e+00
## Product.NameSilver_Plan.to.1lidayid3	-1.728845e+00
## DestinationAmericas.to.1lidayid3	2.990286e-01
## DestinationASIA.to.1lidayid3	-1.728703e+00
## DestinationEUROPE.to.1lidayid3	4.045970e+00
## Intercept.to.1lidayid4	-4.821421e+00
## Age.to.1lidayid4	7.505786e-01
## Agency_CodeC2B.to.1lidayid4	-3.689736e+00
## Agency_CodeCWT.to.1lidayid4	-5.833504e-01
## Agency_CodeEPX.to.1lidayid4	3.338706e-01
## Agency_CodeJZI.to.1lidayid4	2.610531e+00
## TypeAirlines.to.1lidayid4	-9.455892e-01
## TypeTravel_Agency.to.1lidayid4	-3.821678e-01
## Commision.to.1lidayid4	2.362179e-01
## ChannelOffline.to.1lidayid4	-7.765926e-02
## ChannelOnline.to.1lidayid4	1.280769e+00
## Duration.to.1lidayid4	-6.226291e+00

```

## Sales.to.1layhid4           -3.821192e+00
## Product.NameBronze_Plan.to.1layhid4      3.277564e-01
## Product.NameCancellation_Plan.to.1layhid4 4.895430e+00
## Product.NameCustomised_Plan.to.1layhid4 -9.919675e-01
## Product.NameGold_Plan.to.1layhid4        -3.394439e+00
## Product.NameSilver_Plan.to.1layhid4       -9.459848e-01
## DestinationAmericas.to.1layhid4         -1.231858e+00
## DestinationASIA.to.1layhid4              2.262575e-01
## DestinationEUROPE.to.1layhid4            1.331076e+00
## Intercept.to.2layhid1                  -5.153581e+00
## 1layhid1.to.2layhid1                  2.328003e+01
## 1layhid2.to.2layhid1                  5.588375e+00
## 1layhid3.to.2layhid1                  -3.282263e+00
## 1layhid4.to.2layhid1                  -3.831668e+01
## Intercept.to.2layhid2                 6.028700e-01
## 1layhid1.to.2layhid2                 -2.268242e+00
## 1layhid2.to.2layhid2                 -6.840135e+00
## 1layhid3.to.2layhid2                 9.081392e+00
## 1layhid4.to.2layhid2                 -1.290919e+00
## Intercept.to.2layhid3                 2.377586e+00
## 1layhid1.to.2layhid3                 2.177209e+02
## 1layhid2.to.2layhid3                 2.768689e+02
## 1layhid3.to.2layhid3                 -5.487586e+01
## 1layhid4.to.2layhid3                 1.823383e+02
## Intercept.to.0                      1.021183e+00
## 2layhid1.to.0                      -3.193693e+00
## 2layhid2.to.0                      2.819536e+00
## 2layhid3.to.0                      4.223507e-01
## Intercept.to.1                      1.305850e+00
## 2layhid1.to.1                      3.188442e+00
## 2layhid2.to.1                      -2.817672e+00
## 2layhid3.to.1                      -2.746977e+00
##
## attr(", "class")

```

```
## [1] "nn"  
plotnet(NEURALNET_MODEL,bias=TRUE)
```

```
plot(NEURALNET_MODEL,rep = "best")
```

```
NEURALNET_MODEL$net.result  
## [[1]]  
##          [,1]      [,2]  
## 3  0.9632751 0.03682459  
## 4  0.9860332 0.01402567  
## 6  0.8091142 0.19125802  
## 7  0.8826427 0.11743897  
## 8  0.9860319 0.01402695  
## 9  0.9860396 0.01401928  
## 10 0.9860323 0.01402663  
## 11 0.2139784 0.78559294  
## 13 0.4549989 0.54455325  
## 15 0.7390584 0.26074927  
## 16 0.2126651 0.78690727  
## 18 0.6718990 0.32783474  
## 21 0.9860320 0.01402688  
## 22 0.3880176 0.61181107  
## 23 0.3781759 0.62135007  
## 24 0.9860320 0.01402687  
## 25 0.8091726 0.19119953  
## 26 0.9860332 0.01402565  
## 27 0.7443740 0.25543976  
## 28 0.8538232 0.14619742  
## 29 0.9119297 0.08831140  
## 30 0.8093252 0.19104684  
## 31 0.9089806 0.09126577  
## 32 0.1707193 0.82890648
```

```
## 35 0.6012535 0.39840723
## 36 0.3264706 0.67305379
## 38 0.9144899 0.08574655
## 39 0.8955228 0.10474632
## 40 0.8598404 0.14018932
## 41 0.3933530 0.60648351
## 44 0.9860752 0.01398353
## 45 0.9860336 0.01402533
## 47 0.2147742 0.78479646
## 49 0.9125024 0.08773770
## 50 0.9074676 0.09278147
## 52 0.3483196 0.65145299
## 53 0.1480991 0.85154180
## 55 0.9860345 0.01402434
## 56 0.4141083 0.58575533
## 57 0.5895727 0.41007714
## 58 0.9860320 0.01402693
## 59 0.8354213 0.16456981
## 60 0.3952520 0.60458420
## 63 0.9063765 0.09387449
## 65 0.5136594 0.48592826
## 66 0.5137004 0.48588733
## 67 0.1544048 0.84522788
## 69 0.9501948 0.04990531
## 71 0.7731742 0.22669951
## 76 0.9860343 0.01402455
## 77 0.9860488 0.01401004
## 78 0.3013273 0.69820036
## 79 0.3879914 0.61153649
## 80 0.9860355 0.01402334
## 81 0.9860382 0.01402070
## 82 0.9153152 0.08491971
## 83 0.7441486 0.25566474
## 87 0.9582469 0.04184989
```

```
## 90 0.9860417 0.01401721
## 93 0.9860420 0.01401687
## 94 0.1483431 0.85129747
## 95 0.9860323 0.01402658
## 96 0.9071233 0.09312634
## 97 0.9860576 0.01400123
## 98 0.5017935 0.49778600
## 99 0.7446834 0.25513100
## 100 0.7441628 0.25565049
## 102 0.9323979 0.06773055
## 103 0.1485432 0.85109711
## 104 0.1480991 0.85154180
## 105 0.9789491 0.18084393
## 106 0.4820500 0.51757831
## 107 0.4306351 0.56891301
## 108 0.7716750 0.22819573
## 109 0.9415087 0.05859232
## 110 0.9247261 0.07549081
## 111 0.6034049 0.39674433
## 112 0.9860377 0.01402121
## 113 0.4610902 0.53846506
## 115 0.7562739 0.24356491
## 118 0.4424455 0.55746443
## 119 0.6583952 0.34132327
## 120 0.8095378 0.19083403
## 121 0.3981571 0.60168657
## 122 0.9126545 0.08752105
## 124 0.9860398 0.01401910
## 125 0.8078437 0.19209791
## 126 0.9860390 0.01401983
## 127 0.6158132 0.38386157
## 128 0.9633679 0.03672536
## 130 0.9213086 0.07891501
## 131 0.9860644 0.01399440
```

```
## 133 0.9860320 0.01402694
## 134 0.1481068 0.85153406
## 135 0.8091535 0.19121863
## 136 0.7498172 0.25000797
## 137 0.7429359 0.25687647
## 138 0.5139204 0.48566750
## 141 0.9860361 0.01402282
## 143 0.9860322 0.01402669
## 144 0.4856167 0.51395251
## 146 0.9860371 0.01402178
## 147 0.9812299 0.01883966
## 148 0.7441447 0.25566865
## 149 0.8495439 0.15065934
## 150 0.5472558 0.45281143
## 151 0.7441381 0.25567521
## 153 0.9145035 0.08573288
## 154 0.7441219 0.25569135
## 155 0.9144899 0.08574651
## 157 0.9461705 0.05393988
## 158 0.9231418 0.07706228
## 159 0.9323719 0.06772757
## 162 0.7160046 0.28380149
## 163 0.9860991 0.01395953
## 164 0.9860741 0.01398468
## 165 0.3826574 0.61716354
## 166 0.5173161 0.48227423
## 167 0.7510251 0.24880265
## 168 0.6317486 0.36794210
## 169 0.2123919 0.78718067
## 171 0.4521710 0.54775474
## 172 0.9194347 0.08079247
## 174 0.7444109 0.25540297
## 175 0.7441439 0.25566936
## 176 0.9530737 0.04707945
```

```
## 177 0.4048678 0.59466431
## 178 0.7475693 0.25225109
## 179 0.9756204 0.02445911
## 180 0.9855486 0.01451148
## 182 0.7574434 0.24239806
## 183 0.5076249 0.49195860
## 185 0.7441531 0.25566026
## 186 0.3900990 0.60973278
## 188 0.7442350 0.25557841
## 189 0.5110181 0.48856772
## 190 0.9113760 0.08886607
## 192 0.9253417 0.07487397
## 194 0.9612697 0.04694420
## 195 0.3586788 0.64110801
## 196 0.9860413 0.01401756
## 197 0.1480991 0.85154181
## 199 0.9860741 0.01398461
## 200 0.9790418 0.02103633
## 201 0.5138993 0.48568854
## 203 0.7442555 0.25555809
## 204 0.9860321 0.01402679
## 208 0.3061811 0.69334564
## 209 0.9105549 0.08968874
## 210 0.9145037 0.08573274
## 211 0.8135072 0.18686125
## 212 0.9144908 0.08574561
## 214 0.7445077 0.25530633
## 215 0.9149758 0.08525977
## 219 0.1480992 0.85154175
## 220 0.9860367 0.01402218
## 222 0.9852969 0.01476378
## 223 0.9789554 0.18079849
## 224 0.9262994 0.07391429
## 226 0.9860809 0.01397780
```

```
## 228 0.4961901 0.50379573
## 230 0.3749724 0.62455303
## 231 0.3079012 0.69162512
## 232 0.9011740 0.09892398
## 233 0.8913615 0.10891423
## 235 0.9159356 0.08429811
## 237 0.7441533 0.25566000
## 238 0.9860781 0.01398059
## 239 0.1480994 0.85154155
## 242 0.7441559 0.25565740
## 244 0.9860409 0.01401795
## 246 0.7441549 0.25565843
## 247 0.6785495 0.32167980
## 248 0.2932829 0.70624676
## 249 0.8879558 0.11232525
## 250 0.9145885 0.08564779
## 252 0.8416136 0.15841653
## 253 0.8703673 0.12993899
## 254 0.1480991 0.85154180
## 255 0.9844953 0.01556722
## 256 0.5477420 0.45232625
## 258 0.9034765 0.09677944
## 259 0.1480991 0.85154180
## 260 0.7548277 0.24500826
## 261 0.7534526 0.24638015
## 266 0.9615711 0.04375510
## 267 0.2237909 0.77577300
## 268 0.1480991 0.85154181
## 269 0.2136996 0.78587191
## 270 0.9612696 0.04694518
## 271 0.9860688 0.01398998
## 273 0.9860365 0.01402233
## 274 0.9860341 0.01402474
## 275 0.7734200 0.22645442
```

```
## 276 0.9860448 0.01401410
## 277 0.9146693 0.08556676
## 278 0.8090578 0.19131447
## 279 0.9860411 0.01401778
## 280 0.9860418 0.01401706
## 281 0.4761081 0.52345540
## 283 0.9860335 0.01402544
## 284 0.2138759 0.78569548
## 286 0.9085845 0.09166260
## 287 0.7441646 0.25564878
## 288 0.2139638 0.78560758
## 289 0.9860335 0.01402534
## 292 0.7441672 0.25564613
## 295 0.9860347 0.01402415
## 296 0.8091415 0.19123066
## 297 0.9860386 0.01402031
## 298 0.2150019 0.78456861
## 299 0.9197476 0.08041949
## 300 0.9860426 0.01401630
## 301 0.9096443 0.09060090
## 302 0.4428793 0.55669283
## 303 0.9860325 0.01402643
## 305 0.2259760 0.77358632
## 306 0.9860175 0.01404141
## 308 0.9860464 0.01401248
## 310 0.2655637 0.73397595
## 311 0.3628288 0.63669507
## 312 0.9860346 0.01402430
## 314 0.9860648 0.01399395
## 315 0.5136718 0.48591585
## 316 0.7441827 0.25563063
## 317 0.9860347 0.01402416
## 318 0.1480991 0.85154179
## 320 0.7917934 0.20846376
```

```
## 321 0.8090582 0.19131407
## 322 0.9857206 0.01433900
## 323 0.7442215 0.25559186
## 324 0.9822487 0.01782151
## 325 0.4376470 0.56225599
## 328 0.4599384 0.53961627
## 329 0.1646529 0.83498414
## 330 0.9860644 0.01399440
## 332 0.4150388 0.58449669
## 334 0.8048828 0.19505328
## 335 0.7448524 0.25496232
## 336 0.9840489 0.01601467
## 338 0.5201215 0.47990845
## 340 0.8091163 0.19125583
## 341 0.2130101 0.78656206
## 342 0.9860729 0.01398587
## 344 0.7465595 0.25325906
## 345 0.9860512 0.01400762
## 346 0.9860384 0.01402051
## 349 0.7468936 0.25292561
## 351 0.1490581 0.85058250
## 352 0.6915729 0.30818897
## 353 0.9860483 0.01401058
## 354 0.9146814 0.08555464
## 358 0.8703380 0.12996832
## 359 0.5231441 0.47645039
## 361 0.9789550 0.18080180
## 362 0.7490285 0.25079505
## 364 0.9804524 0.01962157
## 367 0.7441436 0.25566971
## 368 0.3106427 0.68908082
## 370 0.9860324 0.01402650
## 372 0.7848671 0.21503023
## 373 0.7442241 0.25558928
```

```
## 375 0.9860713 0.01398741
## 377 0.7444896 0.25532435
## 378 0.6380379 0.36165923
## 379 0.9860355 0.01402338
## 380 0.9860361 0.01402277
## 381 0.9175026 0.08272823
## 382 0.3989921 0.60053845
## 383 0.3396002 0.66016073
## 386 0.3842477 0.61527941
## 388 0.8634878 0.13682750
## 389 0.2085749 0.79100081
## 391 0.6165490 0.38312654
## 392 0.9214956 0.07872756
## 393 0.8972980 0.10296832
## 395 0.3963093 0.60353065
## 396 0.8291364 0.17121771
## 397 0.3513094 0.64821402
## 398 0.9164894 0.08374330
## 402 0.7442264 0.25558704
## 403 0.7442561 0.25555737
## 404 0.9860564 0.01400245
## 405 0.4937235 0.50585080
## 406 0.7035131 0.29626972
## 407 0.9860406 0.01401830
## 408 0.9860355 0.01402338
## 410 0.8090773 0.19129493
## 411 0.9860346 0.01402432
## 412 0.9860688 0.01398998
## 414 0.2139870 0.78558428
## 415 0.2681891 0.73146559
## 416 0.9860384 0.01402048
## 417 0.9072420 0.09300741
## 418 0.7946412 0.20527547
## 419 0.9860410 0.01401788
```

```
## 420 0.7441514 0.25566188
## 421 0.9860349 0.01402397
## 422 0.9860464 0.01401241
## 423 0.9860644 0.01399440
## 424 0.8988937 0.10136993
## 425 0.9789556 0.18079744
## 426 0.9860335 0.01402544
## 428 0.9299659 0.07024034
## 429 0.6329421 0.36674979
## 430 0.2259134 0.77364899
## 431 0.9860323 0.01402656
## 434 0.9860320 0.01402687
## 435 0.4188864 0.58098775
## 436 0.4847195 0.51484917
## 437 0.2138215 0.78576975
## 438 0.9860204 0.01403852
## 439 0.4902652 0.50969849
## 442 0.7441559 0.25565743
## 444 0.9750258 0.02505435
## 447 0.9645916 0.03553283
## 448 0.9789447 0.18087569
## 450 0.9860564 0.01400234
## 451 0.9287990 0.07140011
## 452 0.7442212 0.25559232
## 455 0.9082510 0.09199672
## 456 0.7464436 0.25337468
## 457 0.3883702 0.61145867
## 458 0.5976198 0.40253912
## 460 0.9018811 0.09837760
## 462 0.2446248 0.75492551
## 464 0.3722630 0.62754147
## 465 0.7441369 0.25567643
## 466 0.9860385 0.01402033
## 467 0.9104443 0.08979949
```

```
## 468 0.8092104 0.19116175
## 469 0.3144607 0.68506448
## 470 0.7452451 0.25457056
## 473 0.6858589 0.31441511
## 474 0.7788732 0.22101218
## 475 0.9860450 0.01401380
## 476 0.4046693 0.59518404
## 477 0.4313709 0.56818003
## 478 0.1480991 0.85154181
## 479 0.2141629 0.78540824
## 480 0.6954257 0.30434275
## 481 0.1490803 0.85055931
## 482 0.8744760 0.12582471
## 485 0.7444673 0.25534669
## 487 0.9613871 0.04599625
## 488 0.9860440 0.01401482
## 489 0.9300315 0.07017458
## 490 0.9860813 0.01397746
## 491 0.5521572 0.44792193
## 493 0.4307877 0.56875771
## 495 0.2882007 0.71150009
## 496 0.9860422 0.01401668
## 497 0.9860357 0.01402315
## 500 0.3827464 0.61707407
## 502 0.7441891 0.25562429
## 503 0.7937106 0.20620411
## 504 0.9860426 0.01401629
## 506 0.4807022 0.51886400
## 507 0.7438648 0.25594817
## 508 0.5136968 0.48589095
## 509 0.9357069 0.06448725
## 510 0.9860414 0.01401742
## 512 0.1480991 0.85154180
## 514 0.9822803 0.01779138
```

```
## 515  0.8148858 0.18506907
## 516  0.4799504 0.52001297
## 517  0.9740907 0.02599511
## 519  0.1486160 0.85102447
## 520  0.9778228 0.02225872
## 521  0.1511875 0.84845187
## 522  0.9860439 0.01401500
## 523  0.9198754 0.08035095
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## 1299 0.1480991 0.85154181
## 1301 0.6415594 0.35865588
## 1302 0.9860386 0.01402024
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## 1306 0.5136608 0.48592692
## 1308 0.9109064 0.08919801
## 1309 0.3554748 0.64404874
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## 1312 0.3800134 0.61980371
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## 1332 0.9860371 0.01402182
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## 2787 0.5291745 0.47042454
## 2788 0.3682636 0.63153515
## 2790 0.9144887 0.08574778
## 2791 0.8092659 0.19110614
## 2792 0.7671923 0.23266903
## 2793 0.1526088 0.84702617
## 2794 0.9069117 0.09333837
## 2795 0.9860323 0.01402665
## 2798 0.7367541 0.26305079
## 2799 0.8899627 0.11010586
## 2800 0.1504581 0.84918087
## 2802 0.1480991 0.85154180
## 2807 0.9860320 0.01402695
## 2811 0.2673046 0.73223425
## 2812 0.4189862 0.58055091
## 2813 0.7441450 0.25566830
## 2814 0.1508313 0.84880600
## 2815 0.9319652 0.06820824
```

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## 2816 0.9003760 0.09988515
## 2817 0.7601957 0.24015250
## 2818 0.9836241 0.01644041
## 2820 0.4258095 0.57407433
## 2821 0.9860681 0.01399065
## 2822 0.7441304 0.25568296
## 2823 0.1480995 0.85154140
## 2824 0.9860337 0.01402523
## 2826 0.9860512 0.01400760
## 2827 0.9860417 0.01401715
## 2828 0.9425216 0.05757934
## 2829 0.7441486 0.25566475
## 2831 0.9860568 0.01400197
## 2832 0.2677526 0.73192831
## 2833 0.7604286 0.23968276
## 2834 0.9860409 0.01401792
## 2835 0.1555276 0.84410359
## 2837 0.2995761 0.69995196
## 2838 0.9612701 0.04693958
## 2839 0.9860403 0.01401853
## 2840 0.3893842 0.61044651
## 2843 0.7441560 0.25565734
## 2845 0.5666696 0.43311807
## 2846 0.9612696 0.04694520
## 2847 0.7473694 0.25245069
## 2848 0.9860356 0.01402324
## 2850 0.3799881 0.61982892
## 2852 0.9088017 0.09144499
## 2853 0.1481296 0.85151130
## 2855 0.9860374 0.01402145
## 2856 0.5119351 0.48808438
## 2857 0.1481775 0.85146331
## 2860 0.9860322 0.01402674
## 2861 0.7441459 0.25566745
```

```
## 2862 0.9860669 0.01399188
## 2864 0.3792206 0.62059538
## 2865 0.9860345 0.01402434
## 2866 0.9860372 0.01402167
## 2867 0.3261194 0.67340429
## 2868 0.9860320 0.01402687
## 2869 0.9860836 0.01397511
## 2870 0.3837032 0.61611918
## 2871 0.9860741 0.01398463
## 2872 0.9860991 0.01395953
## 2873 0.4128633 0.58667741
## 2875 0.9204889 0.07973623
## 2877 0.7445367 0.25527751
## 2878 0.5680090 0.43162163
## 2879 0.7994723 0.20045341
## 2880 0.9107487 0.08949459
## 2881 0.9778844 0.18841998
## 2883 0.9703889 0.02970245
## 2884 0.6691367 0.33059369
## 2885 0.9860326 0.01402634
## 2887 0.9860322 0.01402671
## 2888 0.9431869 0.05691408
## 2889 0.2064253 0.79315220
## 2890 0.6896695 0.31008929
## 2891 0.7441565 0.25565690
## 2892 0.8046629 0.19530819
## 2893 0.1480991 0.85154181
## 2894 0.8660846 0.13409466
## 2895 0.7709908 0.22887848
## 2896 0.9860355 0.01402336
## 2898 0.7446401 0.25517433
## 2901 0.3851715 0.61464942
## 2903 0.3112841 0.68844111
## 2904 0.3860649 0.61376087
```

```
## 2905 0.9860170 0.01404192
## 2906 0.5136698 0.48591787
## 2907 0.1480991 0.85154180
## 2908 0.3810520 0.61876658
## 2909 0.9846669 0.01539519
## 2910 0.5017986 0.49778093
## 2911 0.3538871 0.64588511
## 2912 0.3884413 0.61108871
## 2913 0.9860432 0.01401569
## 2914 0.2618354 0.73770593
## 2916 0.9789556 0.18079707

## 2918 0.9243264 0.07577003
## 2920 0.9806978 0.01937568
## 2921 0.8684066 0.13182782
## 2922 0.9860583 0.01400055
## 2923 0.7442213 0.25559206
## 2924 0.9860329 0.01402599
## 2925 0.1480991 0.85154177
## 2926 0.7441506 0.25566271
## 2927 0.5979022 0.40175544
## 2928 0.4362599 0.56364080
## 2929 0.9336976 0.06649880
## 2930 0.5999937 0.40014949
## 2931 0.8081069 0.19183544
## 2933 0.2137979 0.78577355
## 2934 0.7588401 0.24100413
## 2935 0.4965598 0.50343735
## 2936 0.9860514 0.01400744
## 2938 0.3963408 0.60349970
## 2939 0.3848277 0.61499639
## 2940 0.3860426 0.61378195
## 2941 0.9860418 0.01401706
## 2943 0.9680101 0.03208431
```

```
## 2945 0.6780197 0.32220912
## 2946 0.4533501 0.54654533
## 2947 0.2121148 0.78745801
## 2948 0.9496492 0.05045104
## 2950 0.2600613 0.73961105
## 2954 0.9079684 0.09227980
## 2955 0.5357156 0.46432575
## 2956 0.7441420 0.25567134
## 2957 0.7445472 0.25526688
## 2959 0.4722740 0.52768097
## 2961 0.3989783 0.60086641

##
2962 0.3333329 0.66641880
## 2964 0.5105853 0.48943051
## 2965 0.9860735 0.01398530
## 2966 0.9860320 0.01402694
## 2967 0.9789687 0.18070327
## 2968 0.9151356 0.08509962
## 2969 0.8092065 0.19116560
## 2970 0.9119852 0.08825577
## 2974 0.7566970 0.24314252
## 2976 0.4565165 0.54341571
## 2977 0.4835753 0.51639583
## 2979 0.1484703 0.85117024
## 2980 0.9861041 0.01395452
## 2981 0.9035376 0.09656222
## 2982 0.1480991 0.85154179
## 2985 0.9860737 0.01398509
## 2986 0.9860374 0.01402146
## 2987 0.5136432 0.48594446
## 2988 0.2283596 0.77120615
## 2989 0.7450564 0.25475888
## 2992 0.2139482 0.78562312
```

```

## 2994 0.9759364 0.02415536
## 2995 0.3605032 0.63928609
## 2996 0.3812054 0.61861338
## 2997 0.3849039 0.61492029
## 2998 0.7442330 0.25558048

##### MODEL EVALUATION FOR TRAIN DATA

TRAIN$prob=NEURALNET_MODEL$net.result[[1]]

hist(TRAIN$prob, breaks = 4)

```

```

TRAIN$CLASS=ifelse(TRAIN$prob[,1]>0.5,0,1)

TRAIN$CLASS=as.factor(TRAIN$CLASS)

summarytools:::view(dfSummary(TRAIN))

## Switching method to 'browser'

## Output file written: C:\Users\sachi\AppData\Local\Temp\RtmpYzlf8N\file54e4
ff66512.html

##### MODEL EVALUATION FOR TEST DATA

PREDICTED_PROB=compute(NEURALNET_MODEL,TEST)

TEST$prob=PREDICTED_PROB$net.result

hist(TEST$prob, breaks = 4)

```

```

TEST$CLASS=ifelse(TEST$prob[,1]>0.5,0,1)

TEST$CLASS=as.factor(TEST$CLASS)

summarytools:::view(dfSummary(TEST))

## Output file written: C:\Users\sachi\AppData\Local\Temp\RtmpYzlf8N\file54e4
201b10a.html

##### PERFORMANCE METRIC MEASURES FOR TRAIN DATA

MLmetrics::ConfusionMatrix(TRAIN$CLASS,TRAIN$Claimed)

##      y_pred
## y_true   0    1
##        0 1286  171
##        1   249  394

MLmetrics::Accuracy(TRAIN$CLASS,TRAIN$Claimed)

## [1] 0.8

```

```

MLmetrics::Sensitivity(TRAIN$CLASS, TRAIN$Claimed)
## [1] 0.837785

MLmetrics::Specificity(TRAIN$CLASS, TRAIN$Claimed)
## [1] 0.6973451

MLmetrics::Precision(TRAIN$CLASS, TRAIN$Claimed)
## [1] 0.8826356

##### PERFORMANCE METRIC MEASURES FOR TEST DATA

MLmetrics::ConfusionMatrix(TEST$CLASS, TEST$Claimed)

##      y_pred
## y_true   0    1
##          0 526  93
##
##          1 122 159

MLmetrics::Accuracy(TEST$CLASS, TEST$Claimed)
## [1] 0.7611111

MLmetrics::Sensitivity(TEST$CLASS, TEST$Claimed)
## [1] 0.8117284

MLmetrics::Specificity(TEST$CLASS, TEST$Claimed)
## [1] 0.6309524

MLmetrics::Precision(TEST$CLASS, TEST$Claimed)
## [1] 0.8497577

library(caret)

confusionMatrix(table(TRAIN$CLASS, TRAIN$Claimed), positive = "1", mode = "everything")

## Confusion Matrix and Statistics

##
##
##
##          0    1
##          0 1286  249
##          1  171  394
##
##          Accuracy : 0.8
##          95% CI : (0.7822, 0.8169)

```

```

##      No Information Rate : 0.6938
##      P-Value [Acc > NIR] : < 2.2e-16
##
##                  Kappa : 0.5128
##
##  McNemar's Test P-Value : 0.0001718
##
##      Sensitivity : 0.6128
##      Specificity : 0.8826
##      Pos Pred Value : 0.6973
##      Neg Pred Value : 0.8378
##      Precision : 0.6973
##      Recall : 0.6128
##      F1 : 0.6523
##      Prevalence : 0.3062
##      Detection Rate : 0.1876
##      Detection Prevalence : 0.2690
##      Balanced Accuracy : 0.7477
##
##      'Positive' Class : 1
##
confusionMatrix(table(TEST$CLASS,TEST$Claimed),positive ="1",mode = "everything")
## Confusion Matrix and Statistics
##      0    1
## 0 526 122
## 1  93 159
##      Accuracy : 0.7611
##      95% CI : (0.7319, 0.7886)
##      No Information Rate : 0.6878
##      P-Value [Acc > NIR] : 7.058e-07
##
##                  Kappa : 0.4276
##

```

```
## McNemar's Test P-Value : 0.05619
##
##           Sensitivity : 0.5658
##           Specificity : 0.8498
##           Pos Pred Value : 0.6310
##           Neg Pred Value : 0.8117
##           Precision : 0.6310
##           Recall : 0.5658
##           F1 : 0.5966
##           Prevalence : 0.3122
##           Detection Rate : 0.1767
##
##           Detection Prevalence : 0.2800
##           Balanced Accuracy : 0.7078
##
##           'Positive' Class : 1
##
```