

Personalized cancer diagnosis

OBJECTIVE :- Apply all the models with tf-idf features (replace CountVectorizer with tfidfVectorizer and run the same cells)

1. Business Problem

1.1. Description

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/>

Data: Memorial Sloan Kettering Cancer Center (MSKCC)

Download training_variants.zip and training_text.zip from Kaggle.

Context:

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/discussion/35336#198462>

Problem statement :

Classify the given genetic variations/mutations based on evidence from text-based clinical literature.

1.2. Source/Useful Links

Some articles and reference blogs about the problem statement

1. <https://www.forbes.com/sites/matthewherper/2017/06/03/a-new-cancer-drug-helped-almost-everyone-who-took-it-almost-heres-what-it-teaches-us/#2a44ee2f6b25>
2. <https://www.youtube.com/watch?v=UwbuW7oK8rk>
3. <https://www.youtube.com/watch?v=qxXRKVompl8>

1.3. Real-world/Business objectives and constraints.

- No low-latency requirement.
- Interpretability is important.
- Errors can be very costly.
- Probability of a data-point belonging to each class is needed.

2. Machine Learning Problem Formulation

2.1. Data

2.1.1. Data Overview

- Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/data>
- We have two data files: one contains the information about the genetic mutations and the other contains the clinical evidence (text) that human experts/pathologists use to classify the genetic mutations.
- Both these data files have a common column called ID
- Data file's information:
 - training_variants (ID, Gene, Variations, Class)
 - training_text (ID, Text)

2.1.2. Example Data Point

training_variants

ID,Gene,Variation,Class
0,FAM58A,Truncating Mutations,1
1,CBL,W802*,2
2,CBL,Q249E,2
...

training_text

ID,Text
0||Cyclin-dependent kinases (CDKs) regulate a variety of fundamental cellular processes. CDK10 stands out as one of the last orphan CDKs for which no activating cyclin has been identified and no kinase activity revealed. Previous work has shown that CDK10 silencing increases ETS2 (v-ets erythroblastosis virus E26 oncogene homolog 2)-driven activation of the MAPK pathway, which confers tamoxifen resistance to breast cancer cells. The precise mechanisms by which CDK10 modulates ETS2 activity, and more generally the functions of CDK10, remain elusive. Here we demonstrate that CDK10 is a cyclin-dependent kinase by identifying cyclin M as an activating cyclin. Cyclin M, an orphan cyclin, is the product of FAM58A, whose mutations cause STAR syndrome, a human developmental anomaly whose features include toe syndactyly, telecanthus, and anogenital and renal malformations. We show that STAR syndrome-associated cyclin M mutants are unable to interact with CDK10. Cyclin M silencing phenocopies CDK10 silencing in increasing c-Raf and in conferring tamoxifen resistance to breast cancer cells. CDK10/cyclin M phosphorylates ETS2 in vitro, and in cells it positively controls ETS2 degradation by the proteasome. ETS2 protein levels are increased in cells derived from a STAR patient, and this increase is attributable to decreased cyclin M levels. Altogether, our results reveal an additional regulatory mechanism for ETS2, which plays key roles in cancer and development. They also shed light on the molecular mechanisms underlying STAR syndrome. Cyclin-dependent kinases (CDKs) play a pivotal role in the control of a number of fundamental cellular processes (1). The human genome contains 21 genes encoding proteins that can be considered as members of the CDK family owing to their sequence similarity with bona fide CDKs, those known to be activated by cyclins (2). Although discovered almost 20 y ago (3, 4), CDK10 remains one of the two CDKs without an identified cyclin partner. This knowledge gap has largely impeded the exploration of its biological functions. CDK10 can act as a positive cell cycle regulator in some cells (5, 6) or as a tumor suppressor in others (7, 8). CDK10 interacts with the ETS2 (v-ets erythroblastosis virus E26 oncogene homolog 2) transcription factor and inhibits its transcriptional activity through an unknown mechanism (9). CDK10 knockdown derepresses ETS2, which increases the expression of the c-Raf protein kinase, activates the MAPK pathway, and induces resistance of MCF7 cells to tamoxifen (6). ...

2.2. Mapping the real-world problem to an ML problem

2.2.1. Type of Machine Learning Problem

There are nine different classes a genetic mutation can be classified into => Multi class classification problem

2.2.2. Performance Metric

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment#evaluation>

Metric(s):

- Multi class log-loss
- Confusion matrix

2.2.3. Machine Learning Objectives and Constraints

Objective: Predict the probability of each data-point belonging to each of the nine classes.

Constraints:

- Interpretability

- Class probabilities are needed.
- Penalize the errors in class probabilities => Metric is Log-loss.
- No Latency constraints.

2.3. Train, CV and Test Datasets

Split the dataset randomly into three parts train, cross validation and test with 64%, 16%, 20% of data respectively

3. Exploratory Data Analysis

In [2]:

```
import pandas as pd
import matplotlib.pyplot as plt
import re
import time
import warnings
warnings.filterwarnings("ignore")
import numpy as np
from nltk.corpus import stopwords
from sklearn.decomposition import TruncatedSVD
from sklearn.preprocessing import normalize
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.manifold import TSNE
import seaborn as sns
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import confusion_matrix
from sklearn.metrics.classification import accuracy_score, log_loss
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import SGDClassifier
from imblearn.over_sampling import SMOTE
from collections import Counter
from scipy.sparse import hstack
from sklearn.multiclass import OneVsRestClassifier
from sklearn.svm import SVC
from sklearn.cross_validation import StratifiedKFold
from collections import Counter, defaultdict
from sklearn.calibration import CalibratedClassifierCV
from sklearn.naive_bayes import MultinomialNB
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split
from sklearn.model_selection import GridSearchCV
import math
from sklearn.metrics import normalized_mutual_info_score
from sklearn.ensemble import RandomForestClassifier

from mlxtend.classifier import StackingClassifier

from sklearn import model_selection
from sklearn.linear_model import LogisticRegression
```

3.1. Reading Data

3.1.1. Reading Gene and Variation Data

In [3]:

```
data = pd.read_csv('training/training_variants')
print('Number of data points : ', data.shape[0])
print('Number of features : ', data.shape[1])
print('Features : ', data.columns.values)
data.head()
```

```
Number of data points :  3321
Number of features :  4
Features :  ['ID' 'Gene' 'Variation' 'Class']
```

Out [3]:

	ID	Gene	Variation	Class
0	0	FAM58A	Truncating Mutations	1
1	1	CBL	W802*	2
2	2	CBL	Q249E	2
3	3	CBL	N454D	3
4	4	CBL	L399V	4

training/training_variants is a comma separated file containing the description of the genetic mutations used for training.
Fields are

- **ID** : the id of the row used to link the mutation to the clinical evidence
- **Gene** : the gene where this genetic mutation is located
- **Variation** : the aminoacid change for this mutations
- **Class** : 1-9 the class this genetic mutation has been classified on

3.1.2. Reading Text Data

In [4]:

```
# note the separator in this file
data_text = pd.read_csv("training/training_text", sep="\|\|", engine="python", names=["ID", "TEXT"], skiprows=1)
print('Number of data points : ', data_text.shape[0])
print('Number of features : ', data_text.shape[1])
print('Features : ', data_text.columns.values)
data_text.head()
```

Number of data points : 3321
Number of features : 2
Features : ['ID' 'TEXT']

Out [4]:

	ID	TEXT
0	0	Cyclin-dependent kinases (CDKs) regulate a var...
1	1	Abstract Background Non-small cell lung canc...
2	2	Abstract Background Non-small cell lung canc...
3	3	Recent evidence has demonstrated that acquired...
4	4	Oncogenic mutations in the monomeric Casitas B...

3.1.3. Preprocessing of text

In [5]:

```
# loading stop words from nltk library
stop_words = set(stopwords.words('english'))

def nlp_preprocessing(total_text, index, column):
    if type(total_text) is not int:
        string = ""
        # replace every special char with space
        total_text = re.sub('[^a-zA-Z0-9\n]', ' ', total_text)
        # replace multiple spaces with single space
        total_text = re.sub('\s+', ' ', total_text)
        # converting all the chars into lower-case.
```

```

total_text = total_text.lower()

for word in total_text.split():
    # if the word is a not a stop word then retain that word from the data
    if not word in stop_words:
        string += word + " "

data_text[column][index] = string

```

In [6]:

```

#text processing stage.
start_time = time.clock()
for index, row in data_text.iterrows():
    if type(row['TEXT']) is str:
        nlp_preprocessing(row['TEXT'], index, 'TEXT')
    else:
        print("there is no text description for id:",index)
print('Time took for preprocessing the text :',time.clock() - start_time, "seconds")

```

there is no text description for id: 1109
there is no text description for id: 1277
there is no text description for id: 1407
there is no text description for id: 1639
there is no text description for id: 2755
Time took for preprocessing the text : 189.66649533124667 seconds

In [7]:

```

#merging both gene_variations and text data based on ID
result = pd.merge(data, data_text, on='ID', how='left')
result.head()

```

Out[7]:

	ID	Gene	Variation	Class	TEXT
0	0	FAM58A	Truncating Mutations	1	cyclin dependent kinases cdks regulate variety...
1	1	CBL	W802*	2	abstract background non small cell lung cancer...
2	2	CBL	Q249E	2	abstract background non small cell lung cancer...
3	3	CBL	N454D	3	recent evidence demonstrated acquired uniparen...
4	4	CBL	L399V	4	oncogenic mutations monomeric casitas b lineag...

In [8]:

```
result[result.isnull().any(axis=1)]
```

Out[8]:

	ID	Gene	Variation	Class	TEXT
1109	1109	FANCA	S1088F	1	NaN
1277	1277	ARID5B	Truncating Mutations	1	NaN
1407	1407	FGFR3	K508M	6	NaN
1639	1639	FLT1	Amplification	6	NaN
2755	2755	BRAF	G596C	7	NaN

In [9]:

```
result.loc[result['TEXT'].isnull(), 'TEXT'] = result['Gene'] + ' ' + result['Variation']
```

In [10]:

```
result[result['ID']==1109]
```

Out[10]:

	ID	Gene	Variation	Class	TEXT
1109	1109	FANCA	S1088F	1	FANCA S1088F

3.1.4. Test, Train and Cross Validation Split

3.1.4.1. Splitting data into train, test and cross validation (64:20:16)

In [11]:

```
y_true = result['Class'].values
result.Gene      = result.Gene.str.replace('\s+', '_')
result.Variation = result.Variation.str.replace('\s+', '_')

# split the data into test and train by maintaining same distribution of output variable 'y_true'
[X_train, test_df, y_train, y_test] = train_test_split(result, y_true, stratify=y_true, test_size=0.2)

# split the train data into train and cross validation by maintaining same distribution of output variable 'y_train' [stratify=y_train]
[train_df, cv_df, y_train, y_cv] = train_test_split(X_train, y_train, stratify=y_train, test_size=0.2)
```

We split the data into train, test and cross validation data sets, preserving the ratio of class distribution in the original data set

In [12]:

```
print('Number of data points in train data:', train_df.shape[0])
print('Number of data points in test data:', test_df.shape[0])
print('Number of data points in cross validation data:', cv_df.shape[0])
```

```
Number of data points in train data: 2124
Number of data points in test data: 665
Number of data points in cross validation data: 532
```

3.1.4.2. Distribution of y_i's in Train, Test and Cross Validation datasets

In [13]:

```
# it returns a dict, keys as class labels and values as the number of data points in that class
train_class_distribution = train_df['Class'].value_counts().sortlevel()
test_class_distribution = test_df['Class'].value_counts().sortlevel()
cv_class_distribution = cv_df['Class'].value_counts().sortlevel()

my_colors = 'rgbkymc'
train_class_distribution.plot(kind='bar')
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in train data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', train_class_distribution.values[i], '(', np.round((train_class_distribution.values[i]/train_df.shape[0]*100), 3), '%)')

print('*'*80)
my_colors = 'rgbkymc'
test_class_distribution.plot(kind='bar')
plt.xlabel('Class')
```

```

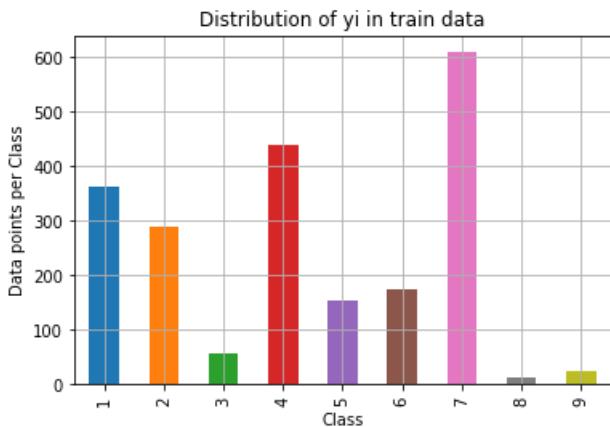
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in test data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-test_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', test_class_distribution.values[i], '(', np.round((test_class_distribution.values[i]/test_df.shape[0]*100), 3), '%)')

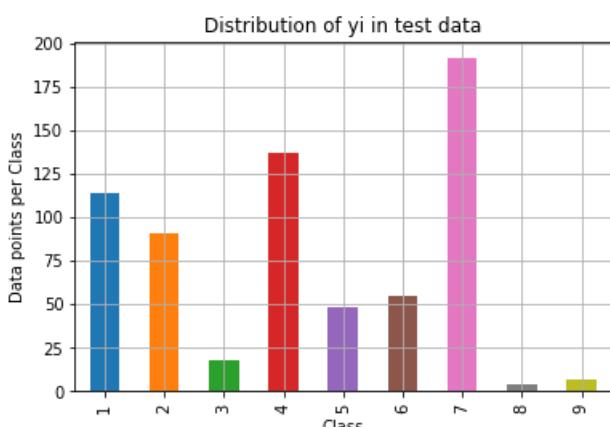
print('-'*80)
my_colors = 'rgbkymc'
cv_class_distribution.plot(kind='bar')
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in cross validation data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', cv_class_distribution.values[i], '(', np.round((cv_class_distribution.values[i]/cv_df.shape[0]*100), 3), '%)')

```



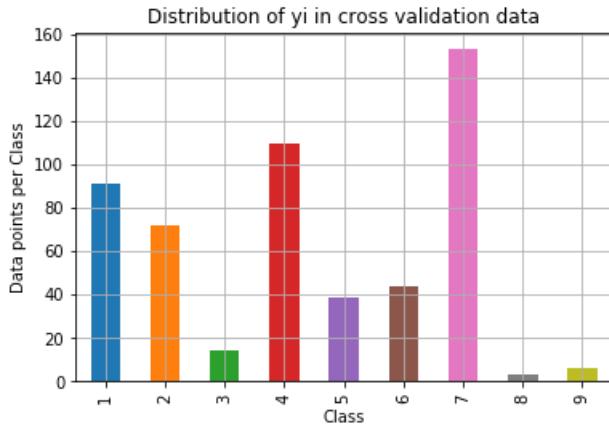
Number of data points in class 7 : 609 (28.672 %)
 Number of data points in class 4 : 439 (20.669 %)
 Number of data points in class 1 : 363 (17.09 %)
 Number of data points in class 2 : 289 (13.606 %)
 Number of data points in class 6 : 176 (8.286 %)
 Number of data points in class 5 : 155 (7.298 %)
 Number of data points in class 3 : 57 (2.684 %)
 Number of data points in class 9 : 24 (1.13 %)
 Number of data points in class 8 : 12 (0.565 %)



Number of data points in class 7 : 191 (28.722 %)

```

Number of data points in class 4 : 137 ( 20.602 %)
Number of data points in class 1 : 114 ( 17.143 %)
Number of data points in class 2 : 91 ( 13.684 %)
Number of data points in class 6 : 55 ( 8.271 %)
Number of data points in class 5 : 48 ( 7.218 %)
Number of data points in class 3 : 18 ( 2.707 %)
Number of data points in class 9 : 7 ( 1.053 %)
Number of data points in class 8 : 4 ( 0.602 %)
-----
```



```

Number of data points in class 7 : 153 ( 28.759 %)
Number of data points in class 4 : 110 ( 20.677 %)
Number of data points in class 1 : 91 ( 17.105 %)
Number of data points in class 2 : 72 ( 13.534 %)
Number of data points in class 6 : 44 ( 8.271 %)
Number of data points in class 5 : 39 ( 7.331 %)
Number of data points in class 3 : 14 ( 2.632 %)
Number of data points in class 9 : 6 ( 1.128 %)
Number of data points in class 8 : 3 ( 0.564 %)
```

3.2 Prediction using a 'Random' Model

In a 'Random' Model, we generate the NINE class probabilites randomly such that they sum to 1.

In [14]:

```

# This function plots the confusion matrices given y_i, y_i_hat.
def plot_confusion_matrix(test_y, predict_y):
    C = confusion_matrix(test_y, predict_y)
    # C = 9,9 matrix, each cell (i,j) represents number of points of class i are predicted class j

    A = ((C.T) / (C.sum(axis=1))).T
    #divid each element of the confusion matrix with the sum of elements in that column

    # C = [[1, 2],
    #       [3, 4]]
    # C.T = [[1, 3],
    #       [2, 4]]
    # C.sum(axis = 1)  axis=0 corresonds to columns and axis=1 corresponds to rows in two
    #diamensional array
    # C.sum(axix =1) = [[3, 7]]
    # ((C.T)/(C.sum(axis=1))) = [[1/3, 3/7]
    #                           [2/3, 4/7]]

    # ((C.T)/(C.sum(axis=1))).T = [[1/3, 2/3]
    #                           [3/7, 4/7]]
    # sum of row elements = 1

    B = (C/C.sum(axis=0))
    #divid each element of the confusion matrix with the sum of elements in that row
    # C = [[1, 2],
    #       [3, 4]]
    # C.sum(axis = 0)  axis=0 corresonds to columns and axis=1 corresponds to rows in two
    #diamensional array
    # C.sum(axix =0) = [[4, 6]]
    # ((C/C .sum(axis=0))) = [[1/4, 2/6]]
```

```

# C/C.sum(axis=0)) = [11/4, 2/0], [3/4, 4/6]

labels = [1,2,3,4,5,6,7,8,9]
# representing A in heatmap format
print("-"*20, "Confusion matrix", "-"*20)
plt.figure(figsize=(20,7))
sns.heatmap(C, annot=True, cmap="YlGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

print("-"*20, "Precision matrix (Column Sum=1)", "-"*20)
plt.figure(figsize=(20,7))
sns.heatmap(B, annot=True, cmap="YlGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

# representing B in heatmap format
print("-"*20, "Recall matrix (Row sum=1)", "-"*20)
plt.figure(figsize=(20,7))
sns.heatmap(A, annot=True, cmap="YlGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

```

In [15]:

```

# we need to generate 9 numbers and the sum of numbers should be 1
# one solution is to generate 9 numbers and divide each of the numbers by their sum
# ref: https://stackoverflow.com/a/18662466/4084039
test_data_len = test_df.shape[0]
cv_data_len = cv_df.shape[0]

# we create a output array that has exactly same size as the CV data
cv_predicted_y = np.zeros((cv_data_len,9))
for i in range(cv_data_len):
    rand_probs = np.random.rand(1,9)
    cv_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Cross Validation Data using Random Model",log_loss(y_cv, cv_predicted_y, eps=1e-15))

# Test-Set error.
# we create a output array that has exactly same size as the test data
test_predicted_y = np.zeros((test_data_len,9))
for i in range(test_data_len):
    rand_probs = np.random.rand(1,9)
    test_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Test Data using Random Model",log_loss(y_test, test_predicted_y, eps=1e-15))

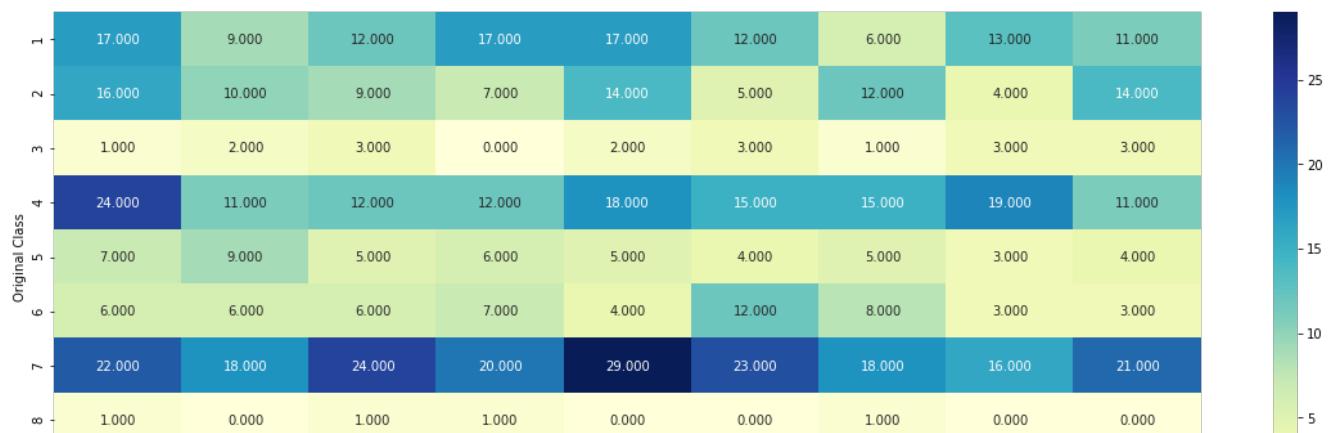
predicted_y = np.argmax(test_predicted_y, axis=1)
plot_confusion_matrix(y_test, predicted_y+1)

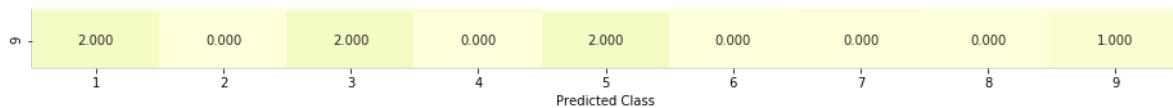
```

Log loss on Cross Validation Data using Random Model 2.505959384286185

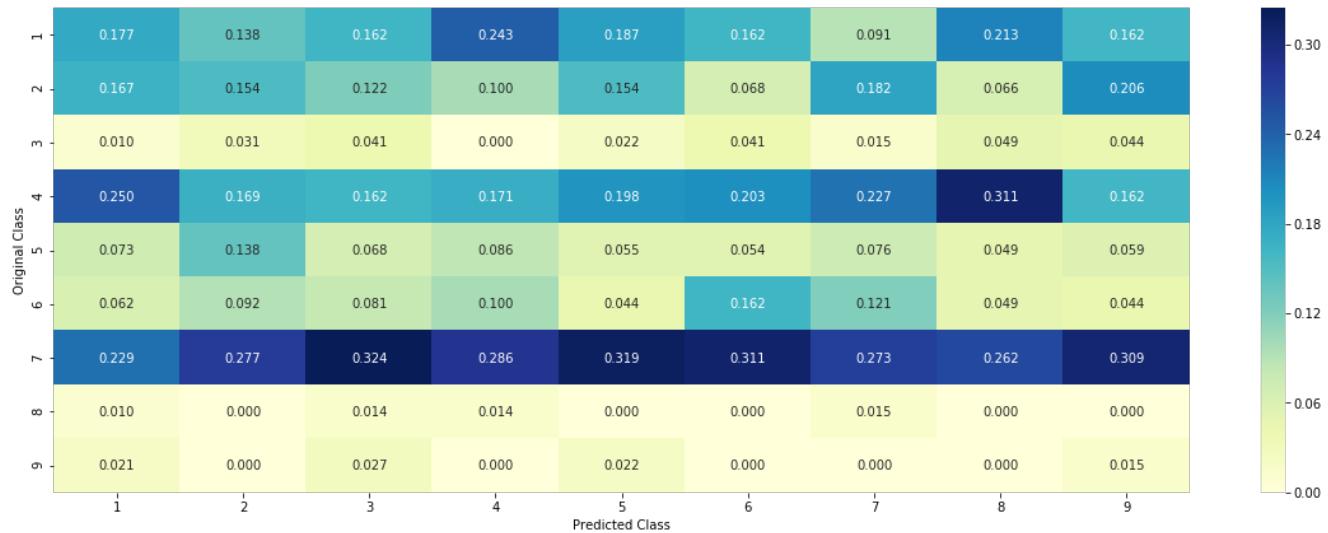
Log loss on Test Data using Random Model 2.4759004263077347

----- Confusion matrix -----

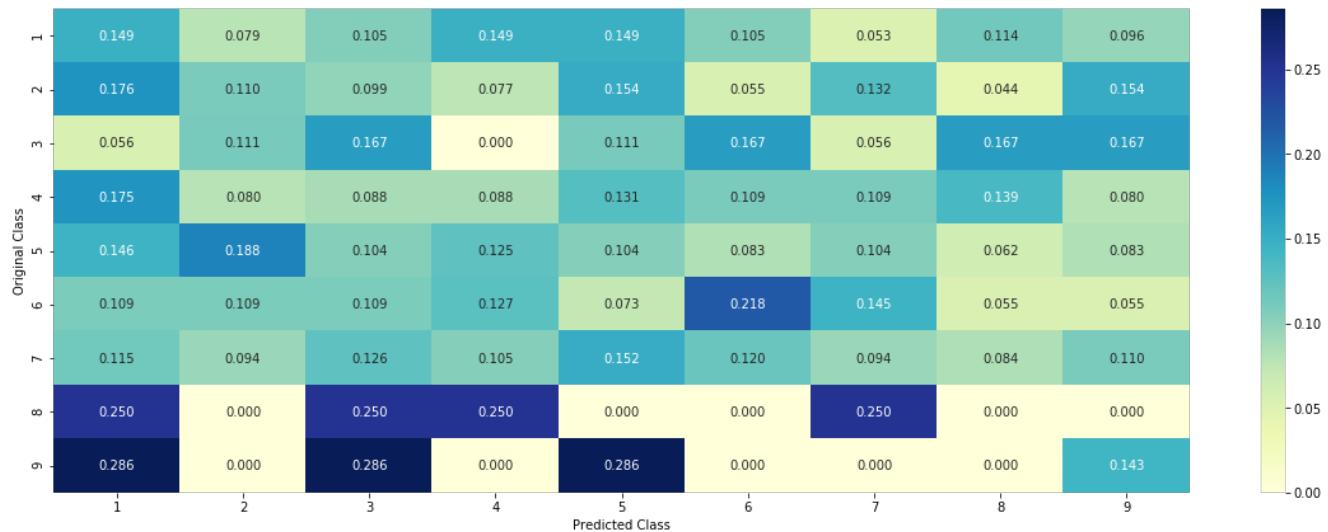




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



3.3 Univariate Analysis

In [16]:

```
# code for response coding with Laplace smoothing.
# alpha : used for laplace smoothing
# feature: ['gene', 'variation']
# df: ['train_df', 'test_df', 'cv_df']
# algorithm
# -----
# Consider all unique values and the number of occurrences of given feature in train data dataframe
# build a vector (1*9) , the first element = (number of times it occurred in class1 + 10*alpha / number of time it occurred in total data+90*alpha)
# gv_dict is like a look up table, for every gene it store a (1*9) representation of it
# for a value of feature in df:
# if it is in train data:
# we add the vector that was stored in 'gv_dict' look up table to 'gv_fea'
# if it is not there is train:
# we add [1/9, 1/9, 1/9, 1/9, 1/9, 1/9, 1/9, 1/9] to 'gv_fea'
# return 'gv_fea'
# -----
```

```

# get_gvfea_dict: Get Gene variation Feature Dict
def get_gvfea_dict(alpha, feature, df):
    # value_count: it contains a dict like
    # print(train_df['Gene'].value_counts())
    # output:
    #     {BRCA1      174
    #      TP53      106
    #      EGFR      86
    #      BRCA2      75
    #      PTEN      69
    #      KIT       61
    #      BRAF      60
    #      ERBB2      47
    #      PDGFRA     46
    #      ...
    #      print(train_df['Variation'].value_counts())
    # output:
    # {
    # Truncating_Mutations      63
    # Deletion                  43
    # Amplification             43
    # Fusions                   22
    # Overexpression            3
    # E17K                      3
    # Q61L                      3
    # S222D                     2
    # P130S                     2
    # ...
    # }
    value_count = train_df[feature].value_counts()

    # gv_dict : Gene Variation Dict, which contains the probability array for each gene/variation
    gv_dict = dict()

    # denominator will contain the number of time that particular feature occurred in whole data
    for i, denominator in value_count.items():
        # vec will contain (p(yi==1/Gi) probability of gene/variation belongs to particular class
        # vec is 9 dimensional vector
        vec = []
        for k in range(1,10):
            # print(train_df.loc[(train_df['Class']==1) & (train_df['Gene']=='BRCA1')])
            #     ID      Gene      Variation  Class
            # 2470  2470  BRCA1      S1715C     1
            # 2486  2486  BRCA1      S1841R     1
            # 2614  2614  BRCA1      M1R        1
            # 2432  2432  BRCA1      L1657P     1
            # 2567  2567  BRCA1      T1685A     1
            # 2583  2583  BRCA1      E1660G     1
            # 2634  2634  BRCA1      W1718L     1
            # cls_cnt.shape[0] will return the number of rows
            # cls_cnt = train_df.loc[(train_df['Class']==k) & (train_df[feature]==i)]
            # cls_cnt.shape[0] (numerator) will contain the number of time that particular feature occurred in whole data
            vec.append((cls_cnt.shape[0] + alpha*10)/ (denominator + 90*alpha))

        # we are adding the gene/variation to the dict as key and vec as value
        gv_dict[i]=vec
    return gv_dict

# Get Gene variation feature
def get_gv_feature(alpha, feature, df):
    # print(gv_dict)
    #     {'BRCA1': [0.2007575757575757, 0.03787878787878788, 0.0681818181818177,
    # 0.13636363636363635, 0.25, 0.193181818181818, 0.03787878787878788, 0.03787878787878788,
    # 0.03787878787878788],
    #      'TP53': [0.32142857142857145, 0.061224489795918366, 0.061224489795918366,
    # 0.27040816326530615, 0.061224489795918366, 0.066326530612244902, 0.051020408163265307, 0.051020408
    # 163265307, 0.056122448979591837],
    #      'EGFR': [0.0568181818181816, 0.21590909090909091, 0.0625, 0.0681818181818177,
    # 0.0681818181818177, 0.0625, 0.34659090909090912, 0.0625, 0.0568181818181816],
    #      'BRCA2': [0.1333333333333333, 0.060606060606060608, 0.060606060606060608,
    # 0.0787878787878782, 0.1393939393939394, 0.34545454545454546, 0.060606060606060608,
    # 0.060606060606060608, 0.060606060606060608],
    #      'PTEN': [0.069182389937106917, 0.062893081761006289, 0.069182389937106917,
    # 0.069182389937106917, 0.062893081761006289, 0.069182389937106917, 0.069182389937106917,
    # 0.069182389937106917, 0.069182389937106917]

```

```

0.46540880503144655, 0.0/54/169811320/544, 0.062893081/61006289, 0.06918238993/106917, 0.062893081
761006289, 0.062893081761006289,
    #      'KIT': [0.066225165562913912, 0.25165562913907286, 0.072847682119205295,
0.072847682119205295, 0.066225165562913912, 0.066225165562913912, 0.27152317880794702,
0.066225165562913912, 0.066225165562913912],
    #      'BRAF': [0.066666666666666666, 0.17999999999999999, 0.07333333333333334,
0.07333333333333334, 0.09333333333333338, 0.08000000000000002, 0.29999999999999999,
0.066666666666666666, 0.066666666666666666],
    #
    ...
    #
    }
    gv_dict = get_gv_fea_dict(alpha, feature, df)
    # value_count is similar in get_gv_fea_dict
    value_count = train_df[feature].value_counts()

    # gv_fea: Gene_variation feature, it will contain the feature for each feature value in the data
    gv_fea = []
    # for every feature values in the given data frame we will check if it is there in the train data then we will add the feature to gv_fea
    # if not we will add [1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9] to gv_fea
    for index, row in df.iterrows():
        if row[feature] in dict(value_count).keys():
            gv_fea.append(gv_dict[row[feature]])
        else:
            gv_fea.append([1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9])
    #
    gv_fea.append([-1,-1,-1,-1,-1,-1,-1,-1])
    return gv_fea

```

when we calculate the probability of a feature belongs to any particular class, we apply laplace smoothing

- $(\text{numerator} + 10^{\alpha}) / (\text{denominator} + 90^{\alpha})$

3.2.1 Univariate Analysis on Gene Feature

Q1. Gene, What type of feature it is ?

Ans. Gene is a categorical variable

Q2. How many categories are there and How they are distributed?

In [17]:

```

unique_genes = train_df['Gene'].value_counts()
print('Number of Unique Genes :', unique_genes.shape[0])
# the top 10 genes that occurred most
print(unique_genes.head(10))

```

```

Number of Unique Genes : 238
BRCA1      176
TP53       94
EGFR       90
PTEN       80
BRCA2      70
BRAF       63
KIT        63
ERBB2      46
ALK        40
PDGFRA    36
Name: Gene, dtype: int64

```

In [18]:

```

print("Ans: There are", unique_genes.shape[0], "different categories of genes in the train data, and they are distributed as follows")

```

Ans: There are 238 different categories of genes in the train data, and they are distributed as follows

In [19]:

```

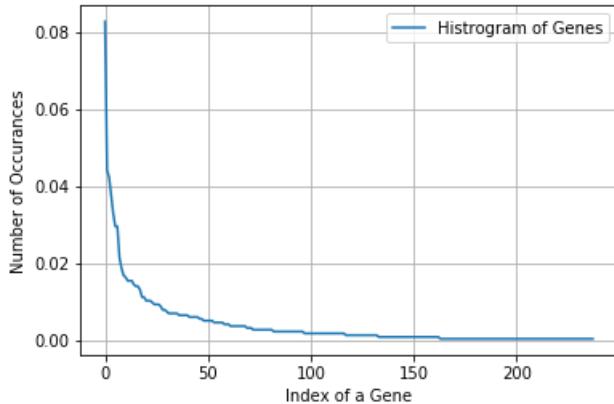
s = sum(unique_genes.values);

```

```

h = unique_genes['values']/s;
plt.plot(h, label="Histogram of Genes")
plt.xlabel('Index of a Gene')
plt.ylabel('Number of Occurrences')
plt.legend()
plt.grid()
plt.show()

```

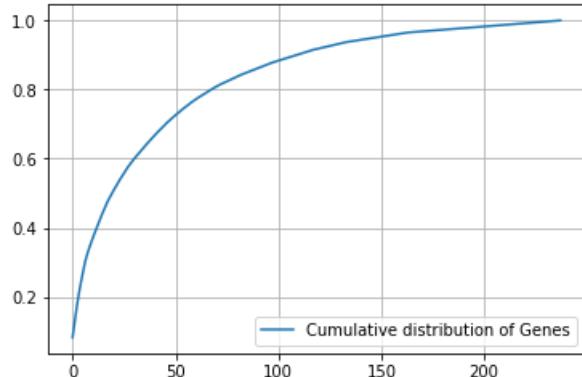


In [20]:

```

c = np.cumsum(h)
plt.plot(c,label='Cumulative distribution of Genes')
plt.grid()
plt.legend()
plt.show()

```



Q3. How to featurize this Gene feature ?

Ans.there are two ways we can featurize this variable check out this video:

<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/handling-categorical-and-numerical-features/>

1. One hot Encoding
2. Response coding

We will choose the appropriate featurization based on the ML model we use. For this problem of multi-class classification with categorical features, one-hot encoding is better for Logistic regression while response coding is better for Random Forests.

In [21]:

```

#response-coding of the Gene feature
# alpha is used for laplace smoothing
alpha = 1
# train gene feature
train_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", train_df))
# test gene feature
test_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", test_df))
# cross validation gene feature
cv_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", cv_df))

```

In [22]:

```
print("train_gene_feature_responseCoding is converted feature using response coding method. The shape of gene feature:", train_gene_feature_responseCoding.shape)
```

```
train_gene_feature_responseCoding is converted feature using response coding method. The shape of gene feature: (2124, 9)
```

In [23]:

```
# one-hot encoding of Gene feature.
gene_vectorizer = TfidfVectorizer()
train_gene_feature_onehotCoding = gene_vectorizer.fit_transform(train_df['Gene'])
test_gene_feature_onehotCoding = gene_vectorizer.transform(test_df['Gene'])
cv_gene_feature_onehotCoding = gene_vectorizer.transform(cv_df['Gene'])
```

In [24]:

```
train_df['Gene'].head()
```

Out[24]:

```
1126      MET
1831  PPP2R1A
382      TP53
2082  MYD88
408      TP53
Name: Gene, dtype: object
```

In [25]:

```
gene_vectorizer.get_feature_names()
```

Out[25]:

```
['abl1',
 'acvr1',
 'ago2',
 'akt1',
 'akt2',
 'akt3',
 'alk',
 'apc',
 'ar',
 'araf',
 'arid1b',
 'arid2',
 'arid5b',
 'asxl1',
 'atm',
 'atrx',
 'aurka',
 'aurkb',
 'axin1',
 'axl',
 'b2m',
 'bap1',
 'bard1',
 'bcl10',
 'bcl2',
 'bcl2l11',
 'bcor',
 'braf',
 'brca1',
 'brca2',
 'brd4',
 'brip1',
 'btk',
 'card11',
 'carm1',
 'casp8',
 'cbl',
```

'ccnd1',
'ccnd3',
'ccne1',
'cdh1',
'cdk12',
'cdk4',
'cdk6',
'cdk8',
'cdkn1a',
'cdkn1b',
'cdkn2a',
'cdkn2b',
'cdkn2c',
'chek2',
'cic',
'crebbp',
'ctcf',
'ctnnb1',
'ddr2',
'dicer1',
'dnmt3a',
'dnmt3b',
'egfr',
'eiflax',
'elf3',
'ep300',
'epas1',
'epcam',
'erbb2',
'erbb3',
'erbb4',
'ercc2',
'ercc3',
'ercc4',
'erg',
'esr1',
'etv1',
'etv6',
'ewsrl1',
'ezh2',
'fanca',
'fancc',
'fat1',
'fbxw7',
'fgf19',
'fgf3',
'fgfr1',
'fgfr2',
'fgfr3',
'fgfr4',
'flt1',
'flt3',
'foxa1',
'foxl2',
'foxo1',
'foxp1',
'fubp1',
'gata3',
'gli1',
'gnal1',
'gnaq',
'gnas',
'h3f3a',
'hist1h1c',
'hla',
'hnfla',
'hras',
'idh1',
'idh2',
'igf1r',
'il7r',
'inpp4b',
'jak1',
'jak2',
'kdm5a',
'kdm5c',
'kdm6a',

'kdr',
'keap1',
'kit',
'klf4',
'kmt2a',
'kmt2c',
'knstrn',
'kras',
'lats2',
'map2k1',
'map2k2',
'map2k4',
'map3k1',
'mdm2',
'mdm4',
'med12',
'mef2b',
'men1',
'met',
'mga',
'mlh1',
'mpl',
'msh2',
'msh6',
'mtor',
'myc',
'mycn',
'myd88',
'myod1',
'ncor1',
'nf1',
'nf2',
'nfe2l2',
'nfkbia',
'nkx2',
'notch1',
'notch2',
'npm1',
'nras',
'nsd1',
'ntrk1',
'ntrk2',
'ntrk3',
'nup93',
'pax8',
'pbrm1',
'pdgfra',
'pdgfrb',
'pik3ca',
'pik3cb',
'pik3cd',
'pik3r1',
'pik3r2',
'pik3r3',
'pim1',
'pms1',
'pms2',
'pole',
'ppm1d',
'ppp2rla',
'ppp6c',
'prdm1',
'ptch1',
'pten',
'ptpn11',
'ptprd',
'ptprt',
'rab35',
'rac1',
'rad21',
'rad50',
'rad51b',
'rad51d',
'raf1',
'rara',
'rasal',
'rb1',

```
'rbm10',
'ret',
'rheb',
'rhoa',
'riktor',
'rit1',
'rnf43',
'ros1',
'rras2',
'runx1',
'rxra',
'sdhb',
'setd2',
'sf3b1',
'shoc2',
'smad2',
'smad3',
'smad4',
'smarca4',
'smarcb1',
'smo',
'sos1',
'sox9',
'spop',
'src',
'srsf2',
'stat3',
'stk11',
'tcf3',
'tcf7l2',
'tert',
'tet1',
'tet2',
'tgfb1',
'tgfb2',
'tmprss2',
'tp53',
'tp53bp1',
'tsc1',
'tsc2',
'u2af1',
'vhl',
'whsc1',
'whsc111',
'xpo1',
'xrcc2',
'yap1']
```

In [26]:

```
print("train_gene_feature_onehotCoding is converted feature using one-hot encoding method. The shape of gene feature:", train_gene_feature_onehotCoding.shape)
```

```
train_gene_feature_onehotCoding is converted feature using one-hot encoding method. The shape of gene feature: (2124, 238)
```

Q4. How good is this gene feature in predicting y_i?

There are many ways to estimate how good a feature is, in predicting y_i . One of the good methods is to build a proper ML model using just this feature. In this case, we will build a logistic regression model using only Gene feature (one hot encoded) to predict y_i .

In [27]:

```
alpha = [10 ** x for x in range(-5, 1)] # hyperparam for SGD classifier.

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5.
```

```

..., random_state=None,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link:
#-----


cv_log_error_array=[]
for i in alpha:
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_gene_feature_onehotCoding, y_train)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_gene_feature_onehotCoding, y_train)
    predict_y = sig_clf.predict_proba(cv_gene_feature_onehotCoding)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
    print('For values of alpha = ', i, "The log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))

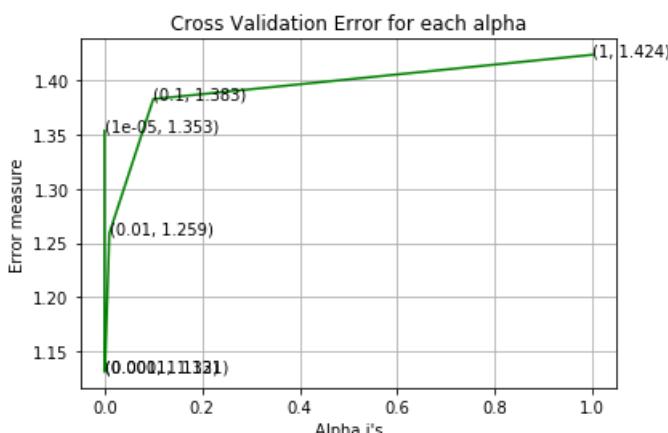
fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_gene_feature_onehotCoding, y_train)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_gene_feature_onehotCoding, y_train)

predict_y = sig_clf.predict_proba(train_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

```

For values of alpha = 1e-05 The log loss is: 1.353444024367557
 For values of alpha = 0.0001 The log loss is: 1.1310290056334131
 For values of alpha = 0.001 The log loss is: 1.131564885225508
 For values of alpha = 0.01 The log loss is: 1.2588698727287488
 For values of alpha = 0.1 The log loss is: 1.3827735359775626
 For values of alpha = 1 The log loss is: 1.4236948450064262



For values of best alpha = 0.0001 The train log loss is: 1.04589218529051
 For values of best alpha = 0.0001 The cross validation log loss is: 1.1310290056334131

```
For values of best alpha = 0.0001 the cross validation log loss is: 1.2444780450177555  
For values of best alpha = 0.0001 The test log loss is: 1.2444780450177555
```

Q5. Is the Gene feature stable across all the data sets (Test, Train, Cross validation)?

Ans. Yes, it is. Otherwise, the CV and Test errors would be significantly more than train error.

In [28]:

```
print("Q6. How many data points in Test and CV datasets are covered by the ", unique_genes.shape[0], " genes in train dataset?")  
  
test_coverage=test_df[test_df['Gene'].isin(list(set(train_df['Gene'])))].shape[0]  
cv_coverage=cv_df[cv_df['Gene'].isin(list(set(train_df['Gene'])))].shape[0]  
  
print('Ans\n1. In test data',test_coverage, 'out of',test_df.shape[0], ":" ,(test_coverage/test_df.shape[0])*100)  
print('2. In cross validation data',cv_coverage, 'out of ',cv_df.shape[0], ":" ,(cv_coverage/cv_df.shape[0])*100)
```

Q6. How many data points in Test and CV datasets are covered by the 238 genes in train dataset?

Ans

1. In test data 650 out of 665 : 97.74436090225564
2. In cross validation data 518 out of 532 : 97.36842105263158

3.2.2 Univariate Analysis on Variation Feature

Q7. Variation, What type of feature is it ?

Ans. Variation is a categorical variable

Q8. How many categories are there?

In [29]:

```
unique_variations = train_df['Variation'].value_counts()  
print('Number of Unique Variations :', unique_variations.shape[0])  
# the top 10 variations that occurred most  
print(unique_variations.head(10))
```

```
Number of Unique Variations : 1929  
Truncating_Mutations      58  
Deletion                  48  
Amplification             46  
Fusions                  19  
Overexpression            5  
G12V                      4  
Q61L                      3  
E17K                      3  
EWSR1-ETV1_Fusion          2  
R841K                      2  
Name: Variation, dtype: int64
```

In [30]:

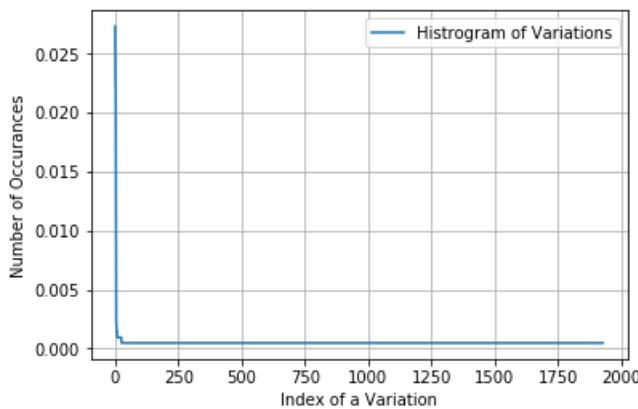
```
print("Ans: There are", unique_variations.shape[0] , "different categories of variations in the train data, and they are distributed as follows",)
```

Ans: There are 1929 different categories of variations in the train data, and they are distributed as follows

In [31]:

```
s = sum(unique_variations.values);  
h = unique_variations.values/s;  
plt.plot(h, label="Histogram of Variations")  
plt.xlabel('Index of a Variation')  
plt.ylabel('Number of Occurrences')  
plt.legend()
```

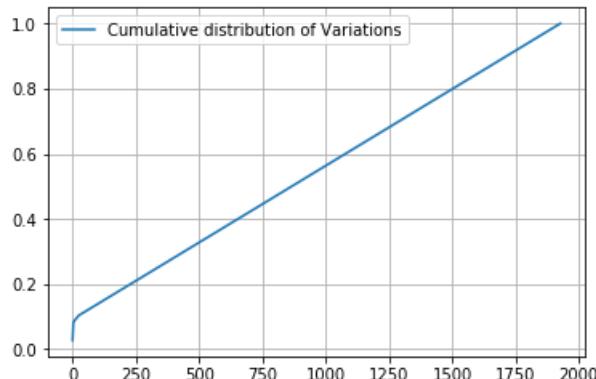
```
plt.grid()  
plt.show()
```



In [32]:

```
c = np.cumsum(h)  
print(c)  
plt.plot(c,label='Cumulative distribution of Variations')  
plt.grid()  
plt.legend()  
plt.show()
```

```
[0.02730697 0.04990584 0.07156309 ... 0.99905838 0.99952919 1. ]
```



Q9. How to featurize this Variation feature ?

Ans. There are two ways we can featurize this variable check out this video:

<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/handling-categorical-and-numerical-features/>

1. One hot Encoding
2. Response coding

We will be using both these methods to featurize the Variation Feature

In [33]:

```
# alpha is used for laplace smoothing  
alpha = 1  
# train gene feature  
train_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", train_df))  
# test gene feature  
test_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", test_df))  
# cross validation gene feature  
cv_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", cv_df))
```

In [34]:

```
print("train_variation_feature_responseCoding is a converted feature using the response coding method. The shape of Variation feature:", train_variation_feature_responseCoding.shape)
```

```
train_variation_feature_responseCoding is a converted feature using the response coding method. The shape of Variation feature: (2124, 9)
```

In [35]:

```
# one-hot encoding of variation feature.
variation_vectorizer = TfidfVectorizer()
train_variation_feature_onehotCoding = variation_vectorizer.fit_transform(train_df['Variation'])
test_variation_feature_onehotCoding = variation_vectorizer.transform(test_df['Variation'])
cv_variation_feature_onehotCoding = variation_vectorizer.transform(cv_df['Variation'])
```

In [36]:

```
print("train_variation_feature_onehotEncoded is converted feature using the one-hot encoding method. The shape of Variation feature:", train_variation_feature_onehotCoding.shape)
```

```
train_variation_feature_onehotEncoded is converted feature using the one-hot encoding method. The shape of Variation feature: (2124, 1962)
```

Q10. How good is this Variation feature in predicting y_i?

Let's build a model just like the earlier!

In [37]:

```
alpha = [10 ** x for x in range(-5, 1)]  
  
# read more about SGDClassifier() at http://scikit-  
learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html  
# -----  
# default parameters  
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_  
iter=None, tol=None,  
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0  
=0.0, power_t=0.5,  
# class_weight=None, warm_start=False, average=False, n_iter=None)  
  
# some of methods  
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.  
# predict(X) Predict class labels for samples in X.  
  
#-----  
# video link:  
#-----  
  
cv_log_error_array=[]
for i in alpha:
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_variation_feature_onehotCoding, y_train)

    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_variation_feature_onehotCoding, y_train)
    predict_y = sig_clf.predict_proba(cv_variation_feature_onehotCoding)

    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
    print('For values of alpha = ', i, "The log loss is:", log_loss(y_cv, predict_y, labels=clf.clas  
ses_, eps=1e-15))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], np.round(txt, 3)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
```

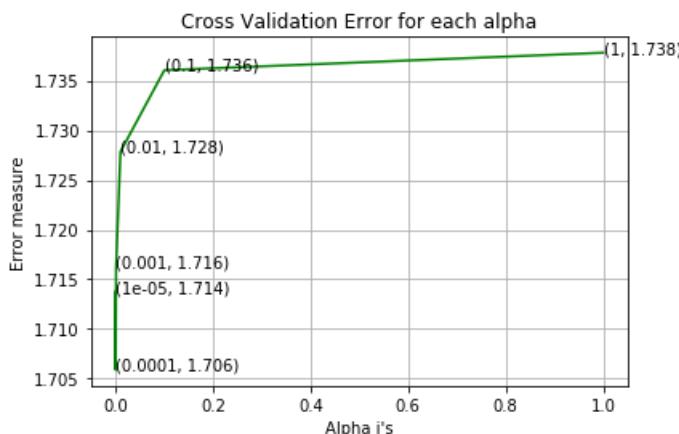
```

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_variation_feature_onehotCoding, y_train)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_variation_feature_onehotCoding, y_train)

predict_y = sig_clf.predict_proba(train_variation_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train,
predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_variation_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_lo
ss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_variation_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, p
redict_y, labels=clf.classes_, eps=1e-15))

```

For values of alpha = 1e-05 The log loss is: 1.7137461466028023
For values of alpha = 0.0001 The log loss is: 1.7058926465063817
For values of alpha = 0.001 The log loss is: 1.7162131872491664
For values of alpha = 0.01 The log loss is: 1.727841256292118
For values of alpha = 0.1 The log loss is: 1.736039568559984
For values of alpha = 1 The log loss is: 1.737797762415028



For values of best alpha = 0.0001 The train log loss is: 0.7281026498731946
For values of best alpha = 0.0001 The cross validation log loss is: 1.7058926465063817
For values of best alpha = 0.0001 The test log loss is: 1.6994621741065448

Q11. Is the Variation feature stable across all the data sets (Test, Train, Cross validation)?

Ans. Not sure! But lets be very sure using the below analysis.

In [38]:

```

print("Q12. How many data points are covered by total ", unique_variations.shape[0], " genes in te
st and cross validation data sets?")
test_coverage=test_df[test_df['Variation'].isin(list(set(train_df['Variation'])))].shape[0]
cv_coverage=cv_df[cv_df['Variation'].isin(list(set(train_df['Variation'])))].shape[0]
print('Ans\n1. In test data',test_coverage, 'out of',test_df.shape[0], ":" ,(test_coverage/test_df.
shape[0])*100)
print('2. In cross validation data',cv_coverage, 'out of ',cv_df.shape[0], ":" ,(cv_coverage/cv_df.s
hape[0])*100)

```

Q12. How many data points are covered by total 1929 genes in test and cross validation data sets?

Ans

1. In test data 70 out of 665 : 10.526315789473683
2. In cross validation data 53 out of 532 : 9.962406015037594

3.2.3 Univariate Analysis on Text Feature

1. How many unique words are present in train data?
2. How are word frequencies distributed?

- 2. How are word frequencies distributed?
- 3. How to featurize text field?
- 4. Is the text feature useful in predicting y_i?
- 5. Is the text feature stable across train, test and CV datasets?

In [39]:

```
# cls_text is a data frame
# for every row in data frame consider the 'TEXT'
# split the words by space
# make a dict with those words
# increment its count whenever we see that word

def extract_dictionary_paddle(cls_text):
    dictionary = defaultdict(int)
    for index, row in cls_text.iterrows():
        for word in row['TEXT'].split():
            dictionary[word] +=1
    return dictionary
```

In [40]:

```
import math
#https://stackoverflow.com/a/1602964
def get_text_responseCoding(df):
    text_feature_responseCoding = np.zeros((df.shape[0],9))
    for i in range(0,9):
        row_index = 0
        for index, row in df.iterrows():
            sum_prob = 0
            for word in row['TEXT'].split():
                sum_prob += math.log((dict_list[i].get(word,0)+10)/(total_dict.get(word,0)+90)))
            text_feature_responseCoding[row_index][i] = math.exp(sum_prob/len(row['TEXT'].split()))
            row_index += 1
    return text_feature_responseCoding
```

In [41]:

```
# building a CountVectorizer with all the words that occurred minimum 3 times in train data
text_vectorizer = TfidfVectorizer(min_df=3)
train_text_feature_onehotCoding = text_vectorizer.fit_transform(train_df['TEXT'])
# getting all the feature names (words)
train_text_features= text_vectorizer.get_feature_names()

# train_text_feature_onehotCoding.sum(axis=0).A1 will sum every row and returns (1*number of features) vector
train_textfea_counts = train_text_feature_onehotCoding.sum(axis=0).A1

# zip(list(text_features),text_fea_counts) will zip a word with its number of times it occurred
text_fea_dict = dict(zip(list(train_text_features),train_textfea_counts))

print("Total number of unique words in train data :", len(train_text_features))
```

Total number of unique words in train data : 52566

In [42]:

```
dict_list = []
# dict_list =[] contains 9 dictionaries each corresponds to a class
for i in range(1,10):
    cls_text = train_df[train_df['Class']==i]
    # build a word dict based on the words in that class
    dict_list.append(extract_dictionary_paddle(cls_text))
    # append it to dict_list

# dict_list[i] is build on i'th class text data
# total_dict is build on whole training text data
total_dict = extract_dictionary_paddle(train_df)

confuse_array = []
for i in train_text_features:
```

```

ratios = []
max_val = -1
for j in range(0,9):
    ratios.append((dict_list[j][i]+10)/(total_dict[i]+90))
confuse_array.append(ratios)
confuse_array = np.array(confuse_array)

```

In [43]:

```

#response coding of text features
train_text_feature_responseCoding = get_text_responsecoding(train_df)
test_text_feature_responseCoding = get_text_responsecoding(test_df)
cv_text_feature_responseCoding = get_text_responsecoding(cv_df)

```

In [44]:

```

# https://stackoverflow.com/a/16202486
# we convert each row values such that they sum to 1
train_text_feature_responseCoding =
(train_text_feature_responseCoding.T/train_text_feature_responseCoding.sum(axis=1)).T
test_text_feature_responseCoding =
(test_text_feature_responseCoding.T/test_text_feature_responseCoding.sum(axis=1)).T
cv_text_feature_responseCoding = (cv_text_feature_responseCoding.T/cv_text_feature_responseCoding.
sum(axis=1)).T

```

In [45]:

```

# don't forget to normalize every feature
train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
test_text_feature_onehotCoding = text_vectorizer.transform(test_df['TEXT'])
# don't forget to normalize every feature
test_text_feature_onehotCoding = normalize(test_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
cv_text_feature_onehotCoding = text_vectorizer.transform(cv_df['TEXT'])
# don't forget to normalize every feature
cv_text_feature_onehotCoding = normalize(cv_text_feature_onehotCoding, axis=0)

```

In [46]:

```

#https://stackoverflow.com/a/2258273/4084039
sorted_text_fea_dict = dict(sorted(text_fea_dict.items(), key=lambda x: x[1] , reverse=True))
sorted_text_occur = np.array(list(sorted_text_fea_dict.values()))

```

In [47]:

```

# Number of words for a given frequency.
print(Counter(sorted_text_occur))

```

```

Counter({0.008583089501287547: 344, 0.02420761045787692: 320, 0.03269909913915826: 239,
0.059535880369807365: 202, 0.027483967539935792: 186, 0.29704253336379355: 155,
0.2144086831243455: 130, 0.061703754601772326: 128, 0.007783153874151785: 124,
0.022238222534101078: 120, 0.01669537618423322: 120, 0.05540057258348945: 111,
0.06393589102268515: 109, 0.0733945986957756: 101, 0.05043674075558723: 100, 0.01650998280235507:
99, 0.035532350254076264: 96, 0.02552054250557648: 91, 0.11559244943599079: 86,
0.02882910664853991: 85, 0.015730765555766576: 84, 0.01617153077833956: 82, 0.04791164576055283: 8
0, 0.042335657499575574: 80, 0.017338075192540874: 79, 0.016769928865642485: 75,
0.0340887655337588: 72, 0.02875863059252369: 71, 0.02499292745038781: 68, 0.006577988100587644: 67
, 0.03638902985115368: 66, 0.04453870022784713: 65, 0.0389259771436654: 65, 0.0367359292923556: 65
, 0.019902355961390752: 65, 0.014566986339119816: 65, 0.0121506702949549: 63, 0.01757537730046112:
62, 0.0151130879439444: 62, 0.1377856009662197: 60, 0.054248892532231495: 59,
0.02653511572383606: 59, 0.011193444541084969: 59, 0.01061869025779234: 59, 0.012955370799030629:
58, 0.07382516798302989: 57, 0.03689950430834068: 57, 0.028396812746467843: 56,
0.014590154132510764: 55, 0.02529620914940312: 54, 0.015057555334495508: 54, 0.018804003583194707:
52, 0.007691844559177797: 52, 0.1872844886016228: 51, 0.022768034838113977: 51,
0.016892498440035597: 51, 0.03165662819795663: 50, 0.01919789929590003: 49, 0.10932633350322082: 4
8, 0.08925671447385765: 48, 0.05166676894459214: 48, 0.030568056788128514: 48,
0.06279441155941246: 47, 0.04630869852529694: 47, 0.029632767305390897: 47, 0.01848707756144327: 4
7, 0.009090924356616037: 47, 0.048896233674761994: 46, 0.13599309607194668: 45,
0.0712041027507601: 44, 0.04030506227571007: 44, 0.017166170002575002: 44, 0.021268940400500224: 43
}
```

0.0/1204105/50/004: 44, 0.0403039025/5/100/: 44, 0.01/1001/90025/5095: 44, 0.0212004040900254: 45, 0.10855204638300436: 42, 0.061612522887253184: 42, 0.0146936675334706: 42, 0.05611809991360261: 41, 0.035362695471351215: 41, 0.02867868203119593: 41, 0.053164541800853476: 40, 0.013750856574068878: 40, 0.05028485667297696: 39, 0.041954406496450124: 39, 0.017075233617375424: 39, 0.014091044419074182: 39, 0.06823348416023302: 38, 0.050623648879185: 38, 0.02997652713723198: 38, 0.020210046206731697: 38, 0.07007504414269539: 37, 0.04651454082670178: 37, 0.035460581389324085: 37, 0.026814917986745655: 37, 0.024015990460826916: 37, 0.02133861333643692: 37, 0.013163834296774583: 37, 0.10176677011949564: 36, 0.03170984675566019: 36, 0.02803727425256263: 36, 0.045676440115586414: 35, 0.041797178135477335: 35, 0.029908246065336732: 35, 0.025384151559420524: 35, 0.023147930582352802: 35, 0.021892789097841252: 35, 0.04841522091575384: 34, 0.03370233230639463: 34, 0.03252253827386563: 34, 0.018175796134478908: 34, 0.013560783685221954: 34, 0.15103833303487932: 33, 0.1023523999866932: 33, 0.08510021857436241: 33, 0.04744497895127149: 33, 0.024250154581001073: 33, 0.2058956950361219: 32, 0.10927180531457559: 32, 0.02894975015868487: 32, 0.04286877339452481: 31, 0.03469234626238942: 31, 0.031422196650894726: 31, 0.028827578743030793: 31, 0.2606453218695233: 30, 0.07595272162290076: 30, 0.06376818114099488: 30, 0.05104108501115296: 30, 0.046112066066657235: 30, 0.03047987361864964: 30, 0.02766844806812928: 30, 0.01568701252863167: 30, 0.008731421699327141: 30, 0.08061192475142014: 29, 0.06496571166712813: 29, 0.03174993996371858: 29, 0.03037908339232821: 29, 0.026769200117779616: 29, 0.009800215223897266: 29, 0.07120296122711668: 28, 0.06622913464846522: 28, 0.04941752562797437: 28, 0.025836468180298364: 28, 0.021160208200963884: 28, 0.015578884839161922: 28, 0.5212906437390467: 27, 0.09045226749503515: 27, 0.0411116047852747: 27, 0.03270661680689897: 27, 0.11970246829902755: 26, 0.10632908360170695: 26, 0.02649923486981024: 26, 0.023028677902568094: 26, 0.02141927831621941: 26, 0.1412872337979958: 25, 0.03507393413393951: 25, 0.03026087756198067: 25, 0.02098217259319097: 25, 0.014056273583208918: 25, 0.00606510981240181: 25, 0.15468318060368216: 24, 0.05354681554126198: 24, 0.01980964473765813: 24, 0.019676359665274052: 24, 0.019330104555261775: 24, 0.017541144768801416: 24, 0.46639896770219236: 23, 0.1785134289477153: 23, 0.07277805970230736: 23, 0.06740571489339439: 23, 0.049047163436360904: 23, 0.04428188157005668: 23, 0.03619614875284295: 23, 0.03389544225481389: 23, 0.03071673285610408: 23, 0.018213021555608604: 23, 0.010414910497520325: 23, 0.055087638025996: 22, 0.033637483268141: 22, 0.02902266982936617: 22, 0.02136245057930387: 22, 0.01988055953221841: 22, 0.019624552181319584: 22, 0.3930203014560608: 21, 0.11907176073961473: 21, 0.10087348151117446: 21, 0.036542622385056206: 21, 0.014085286094009395: 21, 0.013833584176811499: 21, 0.013728871181429889: 21, 0.07669746152711249: 20, 0.07477250730957058: 20, 0.06171674056039627: 20, 0.04722019799146899: 20, 0.0450755828987382: 20, 0.044385322011455106: 20, 0.0326430786326175: 20, 0.016805480025563802: 20, 0.015612937881168413: 20, 0.014946153302418939: 20, 0.012893660435247745: 20, 0.02355929921689617: 19, 0.02299543416424158: 19, 0.013102679223993623: 19, 0.09222413213331447: 18, 0.07106470050815253: 18, 0.05783462136060844: 18, 0.03437686471281143: 18, 0.03235744074648918: 18, 0.02170887335579356: 18, 0.018215137806101837: 18, 0.060276683469527116: 17, 0.05765821329707982: 17, 0.042446003096039284: 17, 0.040543991883283614: 17, 0.033971199581606874: 17, 0.02624500060996298: 17, 0.02192134454975262: 17, 0.019068712630268027: 17, 0.018072484330203396: 17, 0.015565390766528056: 17, 0.008220374029258164: 17, 0.12348856625712203: 16, 0.09412122473349419: 16, 0.05870789029830791: 16, 0.05840109515470201: 16, 0.052318125817594624: 16, 0.05178170796240846: 16, 0.04087273771631139: 16, 0.03146153111153315: 16, 0.01422398773747409: 16, 0.011800954327399799: 16, 0.010908029865099861: 16, 0.428817366248691: 15, 0.30207666606975864: 15, 0.2233060331188183: 15, 0.20353354023899128: 15, 0.1594936254025604: 15, 0.10124729775837: 15, 0.0788399203370202: 15, 0.057591898082448884: 15, 0.05076830311884105: 15, 0.04803198092165383: 15, 0.03708510818000739: 15, 0.03287888419663635: 15, 0.03172074707543967: 15, 0.02450537545918704: 15, 0.02102046917943553: 15, 0.012043660580251948: 15, 0.1255888231188249: 14, 0.1153745761415687: 14, 0.11250341631654323: 14, 0.09883505125594874: 14, 0.06779268657505666: 14, 0.05518011035121002: 14, 0.05368696460649033: 14, 0.04770300718183768: 14, 0.020764940926177054: 14, 0.019615564502557394: 14, 0.009726739819539115: 14, 0.009107502006032286: 14, 0.00824383517759983: 14, 0.007411471742260543: 14, 0.15803554249847893: 13, 0.12058680934260788: 13, 0.09779246734952399: 13, 0.08010670931082128: 13, 0.07656162751672944: 13, 0.07521601433277883: 13, 0.07436183868338367: 13, 0.053519961026746374: 13, 0.05162138075897036: 13, 0.04720661074115352: 13, 0.047192296667299724: 13, 0.039804711922781504: 13, 0.03696023731038917: 13, 0.032417546501136124: 13, 0.027013729001355107: 13, 0.02151458906466994: 13, 0.017044293774635882: 13, 0.013143481605763058: 13, 0.010746000141797885: 13, 0.15339492305422497: 12, 0.06331325639591326: 12, 0.06091819270864058: 12, 0.05808783726810436: 12, 0.044476445068202156: 12, 0.04042009241346339: 12, 0.0350755502359307: 12, 0.021213746744050965: 12, 0.01556630774830357: 12, 0.01469161672336955: 12, 0.014521906387256957: 12, 0.014074693893088753: 12, 0.012653228128090735: 12, 0.7819359656085694: 11, 0.14954501461914116: 11, 0.1482525768839231: 11, 0.09809432687272181: 11, 0.09582329152110566: 11, 0.054967935079871584: 11, 0.05491508999908434: 11, 0.04540339234995221: 11, 0.03515075460092224: 11, 0.02804603792159372: 11, 0.024806101822449262: 11, 0.02461298213579688: 11, 0.010852008835639195: 11, 0.009187593765994628: 11, 0.005306730277948821: 11, 0.4466120662376366: 10, 0.2677701434215729: 10, 0.2091353298589038: 10, 0.18483756866175957: 10, 0.1315457584514428: 10, 0.09411405306611997: 10, 0.08741044369727538: 10, 0.07262283137363076: 10, 0.06742448939174646: 10, 0.05607454850512526: 10, 0.05059241829880624: 10, 0.039619289475316226: 10, 0.03761326273696924: 10, 0.03252599393388445: 10, 0.03234306155667912: 10, 0.030784680540675114: 10, 0.028182088838148364: 10, 0.026901388876647673: 10, 0.01784941959161243: 10, 0.015995025754356407: 10, 0.1467891973915512: 9, 0.1383361981999717: 9, 0.13646696832046604: 9, 0.12340750920354465: 9, 0.10356341592481692: 9, 0.09809729741747476: 9, 0.09302908165340355: 9, 0.08573754678904962: 9, 0.0734718585847112: 9, 0.06938469252477884: 9, 0.0621880749705577: 9, 0.053869979144596625: 9, 0.05307023144767212: 9, 0.04737030026549095: 9, 0.045536069676227954: 9, 0.04522891180911648: 9, 0.0438426890995024: 9, 0.039352719330548104: 9, 0.036153781580447936: 9, 0.03470614896542928: 9, 0.03339075236846644: 9, 0.03297436013187105: 9, 0.0293873350669412: 9, 0.0272000150762200: 9, 0.024400100110014001100: 9, 0.0155050100720051001: 9, 0.010200070071241076: 9

0.027522158763399: 9, 0.024492193214824168: 9, 0.01558504U/53051681: 9, 0.0103036/28/13410/6: 9, 0.009802074978745941: 9, 0.007516049275115353: 9, 0.00547694889682944: 9, 0.357215282218844: 8, 0.24383891467773444: 8, 0.23118489887198157: 8, 0.1395436224801053: 8, 0.13621017704985663: 8, 0.12055336693905423: 8, 0.10916708955346104: 8, 0.09135288023117283: 8, 0.09045782361823296: 8, 0.08684925047605463: 8, 0.08662144156728285: 8, 0.08648731994561976: 8, 0.07230756316089587: 8, 0.06830410451434192: 8, 0.0681775310675176: 8, 0.06539819827831651: 8, 0.06075816678465642: 8, 0.059816492130673464: 8, 0.05751726118504738: 8, 0.04196434518638194: 8, 0.03353985773128497: 8, 0.029180308265021528: 8, 0.029133972678239632: 8, 0.026205358447987246: 8, 0.020523281548502963: 8, 0.2394049365980551: 7, 0.2171040927600873: 7, 0.10333353788918428: 7, 0.09488995790254298: 7, 0.08245190261980738: 7, 0.0822232095705494: 7, 0.07540305591901647: 7, 0.06779088450962778: 7, 0.067274966536282: 7, 0.06471488149297835: 7, 0.05919723363997135: 7, 0.05789950031736974: 7, 0.05686164232160792: 7, 0.056793625492935686: 7, 0.0564120107495841: 7, 0.055796564423812756: 7, 0.05167293636059673: 7, 0.03467615038508175: 7, 0.03185257193893675: 7, 0.028572704265391484: 7, 0.02789334709156638: 7, 0.02630450906964687: 7, 0.025910741598061258: 7, 0.012903649943880425: 7, 0.012415577244775582: 7, 0.010260499162066393: 7, 0.009511060515604774: 7, 0.009317406829390168: 7, 0.0072574881939578405: 7, 1.116530165594091: 6, 0.5940850667275871: 6, 0.4322575080095967: 6, 0.4167511625886514: 6, 0.4117913900722438: 6, 0.3745689772032456: 6, 0.3467773483079724: 6, 0.3053003103584869: 6, 0.2901519759268861: 6, 0.20300538408384095: 6, 0.20174696302234893: 6, 0.1469437171694224: 6, 0.13558537315011332: 6, 0.13269492576788205: 6, 0.12753636228198975: 6, 0.12322504577450637: 6, 0.1209178871271302: 6, 0.11680219030940402: 6, 0.11223619982720522: 6, 0.11214909701025053: 6, 0.110175276051992: 6, 0.09683044183150769: 6, 0.09261739705059388: 6, 0.08907740045569426: 6, 0.07497878235116343: 6, 0.07379900861668136: 6, 0.07204797138248074: 6, 0.07092116277864817: 6, 0.06740466461278927: 6, 0.0629230622230663: 6, 0.06284439330178945: 6, 0.059265534610781795: 6, 0.057655157486061585: 6, 0.05735736406239186: 6, 0.056535764751473004: 6, 0.05528383672829216: 6, 0.05353840023555923: 6, 0.04840365637771107: 6, 0.0440810026004118: 6, 0.04252173763027966: 6, 0.03953730418463732: 6, 0.037608007166389415: 6, 0.03697415512288654: 6, 0.036351592268957816: 6, 0.033784996880071194: 6, 0.03275754748416418: 6, 0.03137402505726334: 6, 0.031225875762336826: 6, 0.028852172765035926: 6, 0.018181848713232075: 6, 0.017505224450673807: 6, 0.014708771777838367: 6, 0.014343049575319618: 6, 0.01113277491176532: 6, 0.009689779535898214: 6, 0.00801940000649235: 6, 0.6432260493730365: 5, 0.2661331035180852: 5, 0.25472320895807565: 5, 0.20470479997733865: 5, 0.18444826426662894: 5, 0.1425682075015368: 5, 0.14240592245423336: 5, 0.1423349368538145: 5, 0.1388245958617171: 5, 0.1315155367865454: 5, 0.1278717820453703: 5, 0.1167779314309962: 5, 0.11069851292502203: 5, 0.10638174416797225: 5, 0.10579161560761109: 5, 0.0979292358978525: 5, 0.09080678469990441: 5, 0.08627589177757106: 5, 0.08254991401177536: 5, 0.07981863643933078: 5, 0.0778519542873308: 5, 0.07615245467826157: 5, 0.07588862744820937: 5, 0.07383894640739065: 5, 0.06953442181633428: 5, 0.06603993120942028: 5, 0.06541323361379794: 5, 0.06504507654773126: 5, 0.06052175512396134: 5, 0.05995305427446396: 5, 0.05970706788417225: 5, 0.05563891929259902: 5, 0.054027458002710214: 5, 0.05172927102587519: 5, 0.04671056848429289: 5, 0.043731799094536686: 5, 0.04283855663243882: 5, 0.042273133257222546: 5, 0.039208299914983764: 5, 0.03839579859180006: 5, 0.03434602195801257: 5, 0.034332358005150186: 5, 0.03297031178772081: 5, 0.032441825245157645: 5, 0.031157769678323843: 5, 0.028149387786177506: 5, 0.027667168353622998: 5, 0.027501713148137756: 5, 0.02574926850386264: 5, 0.0243013405899098: 5, 0.020817280234385966: 5, 0.019922690399779865: 5, 0.019460846137611017: 5, 0.018032666428288883: 5, 0.016361324730896465: 5, 0.013155976201175288: 5, 0.010398430614575191: 5, 0.005915966799337191: 5, 0.005035221003423733: 5, 0.4788660192543393: 4, 0.4762870429584589: 4, 0.4377732610029525: 4, 0.3093663612073643: 4, 0.27198619214389336: 4, 0.25218370377793614: 4, 0.22500683263308646: 4, 0.22174128368859258: 4, 0.21865266700644165: 4, 0.20712683184963385: 4, 0.20227346817523933: 4, 0.17985916282339184: 4, 0.1761236708949237: 4, 0.16835429974080782: 4, 0.14954123032668368: 4, 0.14759801723336272: 4, 0.14668870102428594: 4, 0.14373493728165845: 4, 0.1358847983264275: 4, 0.13267557861918028: 4, 0.11741578059661582: 4, 0.11356492590570393: 4, 0.11307152950294601: 4, 0.11056767345658432: 4, 0.10876104999458662: 4, 0.10849778506446299: 4, 0.10659705076222878: 4, 0.10334587272119346: 4, 0.10150269204192047: 4, 0.09438459333459945: 4, 0.09402001791597353: 4, 0.09143962085594892: 4, 0.08467131499915115: 4, 0.07896257218894383: 4, 0.07891352720894061: 4, 0.0775094045408951: 4, 0.07627485052107211: 4, 0.0723922975056859: 4, 0.065286157265235: 4, 0.06393330592428831: 4, 0.06341969351132037: 4, 0.06156936108135023: 4, 0.06084940423403378: 4, 0.0606301386201951: 4, 0.05804533965873234: 4, 0.0570006826047474: 4, 0.05636417767629673: 4, 0.054915484725719554: 4, 0.05463906466682581: 4, 0.05249000121992596: 4, 0.05067749532010678: 4, 0.049612203644898524: 4, 0.048403287428370606: 4, 0.046295861164705604: 4, 0.04599086832848316: 4, 0.04517266600348653: 4, 0.044838459907256815: 4, 0.043770462397532295: 4, 0.04340523780973292: 4, 0.04302917812933988: 4, 0.04084417946744913: 4, 0.03923112900511479: 4, 0.0391130562107886: 4, 0.035021609280028954: 4, 0.0320776000259694: 4, 0.031695625790924206: 4, 0.030115110668991016: 4, 0.029617199448224805: 4, 0.028112547166417836: 4, 0.02466112208777449: 4, 0.023349461622455353: 4, 0.022386889082169938: 4, 0.021816059730199722: 4, 0.021226921111795284: 4, 0.01996385280619256: 4, 0.019093666560249224: 4, 0.018195329437205428: 4, 0.017098105225746077: 4, 0.016752570761364084: 4, 0.015383689118355593: 4, 0.013997356350385615: 4, 0.011767355164998114: 4, 0.009464110885464828: 4, 1.072043415621728: 3, 0.9327979354043847: 3, 0.8932241324752732: 3, 0.6935546966159448: 3, 0.5779622471799539: 3, 0.5424200407642364: 3, 0.47305738806499775: 3, 0.4640495418110466: 3, 0.40706708047798257: 3, 0.4060107681676819: 3, 0.4002793283626904: 3, 0.38561346618197195: 3, 0.3764562122644799: 3, 0.3645490007079385: 3, 0.3570268578954306: 3, 0.35590701857060636: 3, 0.3256561391490131: 3, 0.3188409057049744: 3, 0.30459096354320286: 3, 0.27942839550217535: 3, 0.27626348422556835: 3, 0.27543819012997994: 3, 0.2729339366409321: 3, 0.2656912894203401: 3, 0.25890853981204237: 3, 0.24708762813987187: 3, 0.24117361868521575: 3, 0.24032012793246388: 3, 0.23235134907241745: 3, 0.2307491522831374: 3, 0.23009238458133743: 3, 0.227016961749761: 3, 0.223085516050151: 3, 0.220350552103984: 3, 0.21451934389396524: 3, 0.2138523112523052: 3, 0.20063146714714825: 3, 0.19558493469904797: 3, 0.18977991580508596: 3, 0.18838323467823742: 3, 0.18194514925576835: 3, 0.1808552772620855: 3, 0.178607641109422: 3, 0.17796323780159817: 3, 0.17575377300461115: 3, 0.17020043714872482: 3, 0.16923603224875233: 3, 0.165262914077988: 3, 0.1626126913693821: 3, 0.1612202452021027: 3, 0.1592106242321625: 3, 0.158221120027120212: 3, 0.15767204204714024: 3

0.1612238495028402: 3, 0.15921069434301635: 3, 0.158283140989/8313: 3, 0.15/6/98406/40404: 3, 0.15230490935652313: 3, 0.15043202866555766: 3, 0.14765033596605978: 3, 0.1471414903090827: 3, 0.14015008828539077: 3, 0.13892609557589083: 3, 0.13834224034064643: 3, 0.1355232550271516: 3, 0.13207986241884057: 3, 0.1294297629859567: 3, 0.1280158896372668: 3, 0.1249994500687281: 3, 0.12429168367722818: 3, 0.12170971024617752: 3, 0.12007995230413457: 3, 0.1182208129170512: 3, 0.1108011451669789: 3, 0.11067379227251713: 3, 0.10580104100481942: 3, 0.10407703878716826: 3, 0.10226629660127638: 3, 0.10197655342947382: 3, 0.10056971334595392: 3, 0.09852446994735073: 3, 0.09707232223946752: 3, 0.0958161093108479: 3, 0.09496988459386989: 3, 0.09444039598293798: 3, 0.0939978514101314: 3, 0.09399387307453178: 3, 0.09259172232941121: 3, 0.09211471161027238: 3, 0.08567711326487765: 3, 0.08411182275768787: 3, 0.08390881299290025: 3, 0.08366367224335389: 3, 0.08359435627095467: 3, 0.0833319420005107: 3, 0.0832453785377675: 3, 0.08300534420438783: 3, 0.08159960501314407: 3, 0.08108798376656723: 3, 0.0787350018298895: 3, 0.07870543866109621: 3, 0.07835481945074978: 3, 0.07736196261148648: 3, 0.07441830546734778: 3, 0.07410591885348668: 3, 0.07392047462077835: 3, 0.07351612637756111: 3, 0.07285208622243441: 3, 0.07195536000193525: 3, 0.07030150920184448: 3, 0.07014786826787903: 3, 0.0693523007701635: 3, 0.06875372942562286: 3, 0.06747671688066222: 3, 0.06616928987402226: 3, 0.06551509496832836: 3, 0.06483509300227225: 3, 0.06349987992743716: 3, 0.06023022133798203: 3, 0.05942893421297433: 3, 0.05884669350767219: 3, 0.05720613789080408: 3, 0.05578669418313276: 3, 0.05508598667165388: 3, 0.05465644317526798: 3, 0.05362983597349131: 3, 0.05272613190138335: 3, 0.05241071689597449: 3, 0.04998585490077562: 3, 0.049900892230416494: 3, 0.0490839741926894: 3, 0.048925753096871014: 3, 0.04605735580513619: 3, 0.043593741986279924: 3, 0.042915447506437734: 3, 0.04272490115860774: 3, 0.04267196321242227: 3, 0.04242749348810193: 3, 0.042255858282028186: 3, 0.04117030867251682: 3, 0.039393843830611744: 3, 0.03938763140907476: 3, 0.038759118143592855: 3, 0.037521172845304984: 3, 0.036430275612203675: 3, 0.03642604311121721: 3, 0.03614496866040679: 3, 0.036065332856577766: 3, 0.03569216645955155: 3, 0.034088587549271764: 3, 0.032158784823257056: 3, 0.03199005150871281: 3, 0.031170081506103363: 3, 0.03113261549660714: 3, 0.030325549062009047: 3, 0.03022617588788888: 3, 0.029892306604837878: 3, 0.029487505739966367: 3, 0.028547378320020564: 3, 0.0282474638237791: 3, 0.027563993043373015: 3, 0.027272773069848114: 3, 0.024916638379299468: 3, 0.024368878304814497: 3, 0.02426043924960724: 3, 0.024087321160503897: 3, 0.023601908654799598: 3, 0.023347567968432483: 3, 0.02276366481810896: 3, 0.022307813601091457: 3, 0.02149200028359577: 3, 0.01973396430176293: 3, 0.019600430447794533: 3, 0.019493961058955702: 3, 0.01892202171818559: 3, 0.01879877461490636: 3, 0.016854603234969276: 3, 0.01644074805851633: 3, 0.01631005170176692: 3, 0.015788607086689964: 3, 0.015032098550230705: 3, 0.014822943484521086: 3, 0.014602990388608832: 3, 0.01442209230886395: 3, 0.014286490441390073: 3, 0.013933152659914131: 3, 0.013219589607536148: 3, 0.012645611693572131: 3, 0.012141994696715487: 3, 0.011544344845836604: 3, 0.011513130818254001: 3, 0.011346524846240708: 3, 0.01028131490642291: 3, 0.009127607167744073: 3, 0.007611113054975202: 3, 2.671123335229118: 2, 2.3763402669103484: 2, 1.485212666818968: 2, 1.326949257678821: 2, 1.3032266093476157: 2, 1.2020834479773306: 2, 1.084980302451488: 2, 1.0827822642257754: 2, 0.9041502520429068: 2, 0.864419963799854: 2, 0.8235827801444876: 2, 0.8009627975342914: 2, 0.7649026372020291: 2, 0.7598643246810304: 2, 0.7491379544064912: 2, 0.6777377517597851: 2, 0.6701001197950465: 2, 0.6599879405449337: 2, 0.6483217793541572: 2, 0.6368427773720654: 2, 0.6224662228084348: 2, 0.6204926011384017: 2, 0.6187327224147287: 2, 0.6154169383459465: 2, 0.6106006207169739: 2, 0.5999554230871651: 2, 0.5912960768573896: 2, 0.5903920689334509: 2, 0.5589308335679255: 2, 0.5534925646251102: 2, 0.5468235010619077: 2, 0.510145449127959: 2, 0.5088338505974783: 2, 0.49417525627974374: 2, 0.465482534715822: 2, 0.46236979774396314: 2, 0.44144088280968014: 2, 0.43666835821384414: 2, 0.4238816253214544: 2, 0.42045980023682855: 2, 0.41979054248798164: 2, 0.41200637921276717: 2, 0.409400904961398: 2, 0.4030596237571008: 2, 0.3945492437340772: 2, 0.3826090868459692: 2, 0.38216735954658604: 2, 0.3688965285332579: 2, 0.36717659833965094: 2, 0.36550915625184355: 2, 0.3618090699801406: 2, 0.3469234626238943: 2, 0.34227363572333397: 2, 0.3411674208011651: 2, 0.3389065464102769: 2, 0.33756738829310234: 2, 0.3321148526589004: 2, 0.33119383954848036: 2, 0.32975606503137067: 2, 0.3280190411396549: 2, 0.32042683724328513: 2, 0.3139720577970623: 2, 0.31390875490556774: 2, 0.3100006136675528: 2, 0.3045080761257615: 2, 0.2965051537678462: 2, 0.29111223880922943: 2, 0.29049132549452306: 2, 0.2848118449084667: 2, 0.284669873707629: 2, 0.2829406468942438: 2, 0.27710548743602514: 2, 0.27585598216370494: 2, 0.2658227090426747: 2, 0.2649165385938609: 2, 0.2630915169028856: 2, 0.26159062908797315: 2, 0.2598628466685125: 2, 0.2550727245639795: 2, 0.25482310708894124: 2, 0.2516922488922652: 2, 0.24697713251424405: 2, 0.2444811683738099: 2, 0.24336753996316363: 2, 0.2418357742542604: 2, 0.2410673387810846: 2, 0.24092280106001657: 2, 0.2385150359091884: 2, 0.23591632614476243: 2, 0.2352209161724808: 2, 0.23483156119323165: 2, 0.23466854972559834: 2, 0.22968488255018832: 2, 0.2283822005779321: 2, 0.2269228255079528: 2, 0.22201350222271457: 2, 0.221761423862335: 2, 0.2214094078502834: 2, 0.22113534691316863: 2, 0.2204155757541336: 2, 0.22016372790986818: 2, 0.21833417910692207: 2, 0.21415360094223693: 2, 0.21360888368135003: 2, 0.21319410152445756: 2, 0.21228092579068847: 2, 0.21045330141558422: 2, 0.2092725032703785: 2, 0.20337805972516998: 2, 0.20236967319522495: 2, 0.20182489960884598: 2, 0.2015298118785504: 2, 0.1986874039453957: 2, 0.19489713500138436: 2, 0.194629885718327: 2, 0.19180767306805543: 2, 0.1913045434229846: 2, 0.19081202872735073: 2, 0.18993976918773978: 2, 0.18853317990536833: 2, 0.18761300570744108: 2, 0.1874813300355885: 2, 0.18480118655194583: 2, 0.18275457812592177: 2, 0.18172941386859637: 2, 0.18161356939980883: 2, 0.181565265371884: 2, 0.18091564723646592: 2, 0.17926458190864966: 2, 0.17912120365251674: 2, 0.1782082211818938: 2, 0.17815480091138852: 2, 0.17768906091594366: 2, 0.17759170091991405: 2, 0.17508184959012918: 2, 0.17364271275714482: 2, 0.17346173131194714: 2, 0.1729746398912395: 2, 0.1725517835551421: 2, 0.17038087647880704: 2, 0.17008695052111863: 2, 0.1700363991293235: 2, 0.16818741634070497: 2, 0.16718871254190934: 2, 0.16601068840877567: 2, 0.1639171940004774: 2, 0.16262996966942223: 2, 0.16106089381947097: 2, 0.16061520070667773: 2, 0.15874969981859294: 2, 0.1557039085746616: 2, 0.1556598957186471: 2, 0.15545065351775092: 2, 0.1531232550334589: 2, 0.15254970104214421: 2, 0.1522964459058562: 2, 0.15187094663755496: 2, 0.1513102222667617: 2, 0.15045305094787695: 2, 0.14872618948769464: 2, 0.14872367736676734: 2, 0.14648826254528136: 2, 0.14555611940461471: 2, 0.14524566274726153: 2, 0.1441455332426996: 2, 0.14171824970418537: 2,

0.14008851689875249: 2, 0.13931649172973526: 2, 0.1392227192743866: 2, 0.13912186447526806: 2, 0.1387693850495577: 2, 0.13737186526923706: 2, 0.1363550621350352: 2, 0.13484897878349292: 2, 0.1336161006835414: 2, 0.13079639655663303: 2, 0.12993142333425625: 2, 0.1288337147893913: 2, 0.12796928176765787: 2, 0.1274025423296388: 2, 0.1270069724987267: 2, 0.12699975985487433: 2, 0.12697426292663555: 2, 0.12687943759395282: 2, 0.1264476176540085: 2, 0.1256887866035789: 2, 0.125391534406432: 2, 0.12502792377478175: 2, 0.1236670986762395: 2, 0.1233348143558241: 2, 0.12286693142441632: 2, 0.12125077290500536: 2, 0.12103805228938459: 2, 0.11974323567711437: 2, 0.11953614239867918: 2, 0.11759708683033272: 2, 0.11617567453620872: 2, 0.11531642659415964: 2, 0.11531031497212317: 2, 0.11358725098587137: 2, 0.1128240214991682: 2, 0.11235106512916128: 2, 0.11231651544178868: 2, 0.11121060120206225: 2, 0.11066867341449199: 2, 0.11052739306800623: 2, 0.10993587015974317: 2, 0.10983017999816869: 2, 0.10752913755122691: 2, 0.10707680047111846: 2, 0.10669306668218459: 2, 0.10608808641405366: 2, 0.10569718298696991: 2, 0.10568868967801914: 2, 0.1054522638027667: 2, 0.10498000243985192: 2, 0.10491086296595484: 2, 0.10463625163518925: 2, 0.10457206741036483: 2, 0.10208217002230592: 2, 0.1016863267644417: 2, 0.1015366062376821: 2, 0.10118483659761247: 2, 0.10091244980442299: 2, 0.09891093536316241: 2, 0.09811985042069692: 2, 0.09621354151528261: 2, 0.09606396184330766: 2, 0.09540601436367536: 2, 0.09524981989115575: 2, 0.09493519612692186: 2, 0.09481140200368865: 2, 0.0945129961186365: 2, 0.09441322148230703: 2, 0.09343685047594535: 2, 0.09342113696858578: 2, 0.09334620864806396: 2, 0.09319684720435525: 2, 0.09087898067239454: 2, 0.08997572175513525: 2, 0.08981212162141952: 2, 0.08944319594047645: 2, 0.08895289013640431: 2, 0.08787688650230557: 2, 0.08746359818907337: 2, 0.08570791758388074: 2, 0.08534948460132458: 2, 0.08446249220017799: 2, 0.08408187671774212: 2, 0.08356016455554345: 2, 0.08320818093470862: 2, 0.083001505060869: 2, 0.08291576376169574: 2, 0.08234211698200994: 2, 0.08198466476290198: 2, 0.08180662365448232: 2, 0.08117437222311519: 2, 0.08030760035333886: 2, 0.07986385980141116: 2, 0.07949770460943073: 2, 0.079146715002926: 2, 0.07907460836927464: 2, 0.07893847323533675: 2, 0.07865382777883288: 2, 0.0778269538326403: 2, 0.07772363760883173: 2, 0.07741236721054497: 2, 0.07607180861526126: 2, 0.07519509845962544: 2, 0.07467705498704144: 2, 0.07448181495747623: 2, 0.07417021636001478: 2, 0.0733145216683723: 2, 0.07295077066255382: 2, 0.0727504637430322: 2, 0.07270318453791563: 2, 0.07155076455681421: 2, 0.07007228218498372: 2, 0.07002089780269523: 2, 0.06898630249272474: 2, 0.06874246441327476: 2, 0.06814677907318598: 2, 0.06794239916321375: 2, 0.06783835923949974: 2, 0.0678134307301112: 2, 0.06766463493209005: 2, 0.06765199235910206: 2, 0.0675176577288937: 2, 0.06744827715049437: 2, 0.06741370835995347: 2, 0.06615147365903137: 2, 0.06576403364925786: 2, 0.0655133961199681: 2, 0.06504848035410885: 2, 0.06494214109708805: 2, 0.064754949382315233: 2, 0.06468612311335824: 2, 0.0644509924772199: 2, 0.06443513833288884: 2, 0.0643794027192562: 2, 0.06364124023215288: 2, 0.06303856084260416: 2, 0.0626021210742081: 2, 0.062261563066112226: 2, 0.062173589500325505: 2, 0.06206474704489274: 2, 0.06185747178473054: 2, 0.06160266958652202: 2, 0.061471325290929815: 2, 0.06143346571220816: 2, 0.0613440048262712: 2, 0.061141756639267075: 2, 0.06095974723729928: 2, 0.06026206080648552: 2, 0.059788639995256895: 2, 0.05889396965428488: 2, 0.058851833168745885: 2, 0.05883172542460034: 2, 0.0587746701338824: 2, 0.058599637540778: 2, 0.058563846783103765: 2, 0.05841438890696299: 2, 0.05838714055296984: 2, 0.05733407920155001: 2, 0.05639632384471907: 2, 0.05596722270542484: 2, 0.055633215806980364: 2, 0.055461232684329814: 2, 0.05533689613625856: 2, 0.055334336707245996: 2, 0.054574035679018626: 2, 0.05429152496812353: 2, 0.05424360237313121: 2, 0.05421745299061018: 2, 0.05401729024185328: 2, 0.053169840788382106: 2, 0.05292540240796377: 2, 0.05265783547726293: 2, 0.05262343430640425: 2, 0.05228379966090803: 2, 0.052002157061352: 2, 0.051988284454368164: 2, 0.0518617063047705: 2, 0.05179089227395848: 2, 0.051694297345813454: 2, 0.051393494441440576: 2, 0.05129378725937032: 2, 0.050683578080719945: 2, 0.05056170660288357: 2, 0.050319284157029597: 2, 0.05011500622775178: 2, 0.04986823433282564: 2, 0.04952994840706521: 2, 0.04922596427159376: 2, 0.04901075091837408: 2, 0.048633699097695576: 2, 0.04851001501495046: 2, 0.048372217175571094: 2, 0.04821293619644658: 2, 0.04817515497212898: 2, 0.047615543792020903: 2, 0.04705104132294936: 2, 0.04655120498641312: 2, 0.0459729226065194: 2, 0.04553751003016143: 2, 0.04540513229972252: 2, 0.04533926383183332: 2, 0.044127698921509244: 2, 0.04400022768881447: 2, 0.04361531593742425: 2, 0.0430773840711008: 2, 0.04253680819000468: 2, 0.042533955188455146: 2, 0.04250811512909922: 2, 0.04232041640192777: 2, 0.04228955716455575: 2, 0.04219038694667454: 2, 0.04204093835887106: 2, 0.041908643882799385: 2, 0.04190058396551435: 2, 0.041813013242800914: 2, 0.04152988185235411: 2, 0.0415007525304345: 2, 0.04141581155296213: 2, 0.041404410648377174: 2, 0.04121770036013943: 2, 0.040934215639089055: 2, 0.040726604361733476: 2, 0.04068235105566586: 2, 0.04064032829902373: 2, 0.04061330613339463: 2, 0.04020865764603325: 2, 0.04014560225850529: 2, 0.03992770561238512: 2, 0.03991534657217456: 2, 0.03984538079955973: 2, 0.03974451015471806: 2, 0.03930803767198087: 2, 0.039218312991921835: 2, 0.03905638573397498: 2, 0.0390242513647789: 2, 0.03877706635143294: 2, 0.03866511962458747: 2, 0.03866020911052355: 2, 0.03827092474319969: 2, 0.03775386069063085: 2, 0.037701790471046166: 2, 0.037041768337301315: 2, 0.036998861637033226: 2, 0.0367848745283596: 2, 0.036719059684815494: 2, 0.03650278730624726: 2, 0.0364520108848647: 2, 0.03643000802412914: 2, 0.03623924768660254: 2, 0.03591473302152574: 2, 0.035621071987933975: 2, 0.0355837111280696: 2, 0.03551977627172364: 2, 0.0355032015334421: 2, 0.0354028629821994: 2, 0.03534742977017188: 2, 0.03514131027712798: 2, 0.03506992200932686: 2, 0.0348235634305466: 2, 0.034635388361438715: 2, 0.03405534376095191: 2, 0.03382123891256504: 2, 0.03365718544941784: 2, 0.033610960051127604: 2, 0.03352055309351938: 2, 0.03340292928160557: 2, 0.03317966726206782: 2, 0.03301996560471014: 2, 0.0330143577036288: 2, 0.032724089595299585: 2, 0.03271710431374871: 2, 0.0324065195454353: 2, 0.03187134869556397: 2, 0.031426351013112815: 2, 0.03115168674141694: 2, 0.030937641963313164: 2, 0.030877818910694854: 2, 0.03052133583320004: 2, 0.029542756498938866: 2, 0.029540234110235937: 2, 0.029417543555676735: 2, 0.02940622493623782: 2, 0.029379221326162726: 2, 0.02924338205321419: 2, 0.028914810957714653: 2, 0.028896190255336292: 2, 0.028896018774821147: 2, 0.02886877215081246: 2, 0.02881470245894983: 2, 0.02858287094846103: 2, 0.02854004017591147: 2, 0.028450131090311463: 2, 0.02844797547494818: 2, 0.02817057218801879: 2, 0.028137532614029816: 2, 0.028041044903514153: 2, 0.028029355949154792: 2, 0.027562781297983882: 2, 0.027547573504061378: 2, 0.02738135064595526: 2, 0.027159193275253856: 2, 0.027121567370443907: 2, 0.026828512108388658: 2, 0.026816699909898566: 2, 0.026801542142042688: 2, 0.026783349727094723: 2, 0.026728957741184674: 2, 0.026328917738631465: 2

2, 0.026327668593549167: 2, 0.02622790409798332: 2, 0.02581903152268127: 2, 0.02578732087049549: 2, 0.025645875509668292: 2, 0.024831154489551165: 2, 0.024340897702633254: 2, 0.02432534693309842: 2, 0.024120428735173: 2, 0.02405975243504467: 2, 0.02396986464400993: 2, 0.023839858457967357: 2, 0.023332011786049583: 2, 0.02277638783679735: 2, 0.02270490638668728: 2, 0.022548147825346056: 2, 0.02246946458961074: 2, 0.022298321773643624: 2, 0.02195724032613225: 2, 0.021951938010488024: 2, 0.02170401767127839: 2, 0.021143956991336275: 2, 0.02084666477366203: 2, 0.02049781139069702: 2, 0.02049711068017434: 2, 0.020390483357931203: 2, 0.02034400247230193: 2, 0.02021921229574745: 2, 0.02017550607042759: 2, 0.020072801129252645: 2, 0.01993115319044321: 2, 0.019714944201505456: 2, 0.019604149957491882: 2, 0.019553254543859568: 2, 0.01953506073153782: 2, 0.019496548367226946: 2, 0.01948576185988165: 2, 0.01945347963907823: 2, 0.019389841630622268: 2, 0.01935979328249212: 2, 0.019304797853395103: 2, 0.019293731287613303: 2, 0.01923130066945653: 2, 0.019075885736263738: 2, 0.01904904899417372: 2, 0.01902212103120955: 2, 0.0190168591204082: 2, 0.018977908102874502: 2, 0.018920530050806704: 2, 0.018707288977396333: 2, 0.01861971161031293: 2, 0.018391235452184435: 2, 0.01838648523151912: 2, 0.018375187531989256: 2, 0.01821500401206457: 2, 0.0179879038981013: 2, 0.017934008956641035: 2, 0.01791741507316651: 2, 0.017848338729093034: 2, 0.01770596605760693: 2, 0.01753142805776526: 2, 0.017351439647380763: 2, 0.017326459855200947: 2, 0.01685020787077097: 2, 0.01682191550058153: 2, 0.016714011786682036: 2, 0.016451011404761347: 2, 0.015952811191784683: 2, 0.015561369942960389: 2, 0.015552136151635237: 2, 0.015471529941914718: 2, 0.01544378189715091: 2, 0.015157543781730197: 2, 0.015102851624254317: 2, 0.014985217413235727: 2, 0.014884795586654126: 2, 0.014729094540589986: 2, 0.014496457047877647: 2, 0.014359420274135528: 2, 0.01430878674944413: 2, 0.014270516484260278: 2, 0.013689112365371424: 2, 0.013661028784087908: 2, 0.013588526812670799: 2, 0.013546136762727336: 2, 0.013278869977408994: 2, 0.01324838383610169: 2, 0.013155811167836148: 2, 0.013129887234925799: 2, 0.012923413045711166: 2, 0.01249805340468911: 2, 0.012495808423414741: 2, 0.012450220628246612: 2, 0.012250178453896036: 2, 0.01213021962480362: 2, 0.012086693054505644: 2, 0.012059613060090815: 2, 0.011919929228983678: 2, 0.011695222589857949: 2, 0.011690088699644743: 2, 0.01162565239104844: 2, 0.011480417639318827: 2, 0.011147340169949439: 2, 0.011105349323590821: 2, 0.010996513594586357: 2, 0.010777230839303913: 2, 0.010613460555897642: 2, 0.010493101073485379: 2, 0.010420767326697451: 2, 0.009859684718607781: 2, 0.009596642696989895: 2, 0.009306452180454668: 2, 0.00921516162476931: 2, 0.00917299632004478: 2, 0.009019144728042926: 2, 0.00898739309586731: 2, 0.00862990676088483: 2, 0.008266966676318207: 2, 0.008030328687314112: 2, 0.007690079506358312: 2, 0.00736777611218723: 2, 0.004058849464980189: 2, 0.003943351411338626: 2, 157.4928046741983: 1, 113.0450160293807: 1, 100.09183642086121: 1, 78.5055324852692: 1, 76.7141434952347: 1, 70.98463422372866: 1, 70.55000558681976: 1, 70.0611320828366: 1, 69.64976800630764: 1, 68.37215570605066: 1, 62.91531310874406: 1, 60.78610600146359: 1, 59.87417174098675: 1, 53.97304168685536: 1, 51.906374779176005: 1, 50.30585276604776: 1, 49.93119990645428: 1, 48.56580385119209: 1, 46.55928620427192: 1, 45.058758140509255: 1, 44.768192507980814: 1, 42.83824710810314: 1, 42.04715226775092: 1, 41.74172282163662: 1, 41.600699045652235: 1, 40.92063150273455: 1, 40.83152293516347: 1, 38.366650525689884: 1, 38.27584309107514: 1, 37.86747574835131: 1, 37.60942901439381: 1, 37.404136872589696: 1, 37.19090572656977: 1, 36.81262775133878: 1, 36.12650984689894: 1, 35.78860433417054: 1, 35.61774165369215: 1, 35.11255179780174: 1, 34.21894125918616: 1, 33.4437923808632: 1, 33.12272059969831: 1, 33.08592290075457: 1, 32.31529980726354: 1, 32.27683458258803: 1, 31.97270513520541: 1, 31.297585858640637: 1, 31.157097592688988: 1, 30.406723489081585: 1, 29.36418876734195: 1, 29.340239936094886: 1, 28.227857805039694: 1, 27.948352495769715: 1, 27.70829824491469: 1, 27.591618909324275: 1, 27.06152916592309: 1, 27.023005650671422: 1, 26.474496694980083: 1, 26.334392397120247: 1, 26.292942404432065: 1, 26.117402144121993: 1, 26.106025283179928: 1, 25.722071632184175: 1, 25.657492800841272: 1, 25.488196665014254: 1, 25.484484722364662: 1, 25.424561032046356: 1, 25.367100516492652: 1, 25.348404227346887: 1, 25.34522112797671: 1, 25.258044608211236: 1, 25.25602563013238: 1, 25.24080723364012: 1, 25.17816970561724: 1, 24.794735202789198: 1, 24.082978592097476: 1, 23.747694383241328: 1, 23.733398283448896: 1, 23.316123427766197: 1, 23.306524048410793: 1, 23.15480986098918: 1, 22.5333591967097: 1, 22.45033881925664: 1, 22.24669721445655: 1, 22.059387160158746: 1, 21.6622047486989: 1, 21.506795848802934: 1, 21.49309575007685: 1, 21.47061404596111: 1, 21.33056174649761: 1, 21.042999904280528: 1, 20.985877917819604: 1, 20.8266133333753: 1, 20.751670661328678: 1, 20.602945485846284: 1, 20.569581269878057: 1, 20.44993351566478: 1, 20.38462407917071: 1, 20.322972216697526: 1, 20.28551898437494: 1, 19.99878758948014: 1, 19.639655107255436: 1, 19.634779235183395: 1, 19.414494985439326: 1, 19.397878235792014: 1, 19.30551664778657: 1, 19.290377074356606: 1, 19.165440715587813: 1, 19.11466837309775: 1, 19.00242767361865: 1, 18.878978447838666: 1, 18.864776078924518: 1, 18.794710289575217: 1, 18.738014707658433: 1, 18.630496427296293: 1, 18.622422685169152: 1, 18.604196863040762: 1, 18.57201007225992: 1, 18.517479482252675: 1, 18.508719115046983: 1, 18.411933877397907: 1, 18.378154660690345: 1, 18.271079887834958: 1, 18.072252339459457: 1, 18.037658192023653: 1, 17.95744313398958: 1, 17.938625379812336: 1, 17.900987696141748: 1, 17.85901964706093: 1, 17.81920533197604: 1, 17.77759055956283: 1, 17.76741071260725: 1, 17.722320806069508: 1, 17.517136620496213: 1, 17.512925046183472: 1, 17.35660601818911: 1, 17.33838144229834: 1, 17.336933270343764: 1, 17.303039731866182: 1, 17.04949525079485: 1, 16.992751698810952: 1, 16.95600862892832: 1, 16.725216093711627: 1, 16.57664061865287: 1, 16.54758147997856: 1, 16.46804383793608: 1, 16.439139533920684: 1, 16.25502841050169: 1, 16.24946075531969: 1, 16.222335676780684: 1, 16.21760312373224: 1, 16.214874238206747: 1, 16.179209145779208: 1, 16.07437161939798: 1, 16.051909984875085: 1, 15.892904202988525: 1, 15.867064539410805: 1, 15.767731493381614: 1, 15.735915613218797: 1, 15.590851411833782: 1, 15.534877589931137: 1, 15.512246515161905: 1, 15.3226961586987741: 1, 15.319318666761934: 1, 15.310321745677342: 1, 15.249404266815011: 1, 15.232202875968571: 1, 15.221942367486642: 1, 15.21810850056405: 1, 15.186347450368736: 1, 15.186235991465363: 1, 15.1646950904012: 1, 15.130922532015093: 1, 15.001601418410447: 1, 14.979491533851952: 1, 14.867277238400693: 1, 14.86486926950642: 1, 14.824671126431857: 1, 14.778377008232468: 1, 14.666837072505814: 1, 14.658071488633336: 1, 14.584086279988993: 1, 14.56674042894262: 1, 14.555715040368693: 1, 14.536849239575046: 1,

14.451669080644091: 1, 14.430552381779606: 1, 14.424132749194843: 1, 14.40947300679634: 1, 14.387622607559676: 1, 14.386152184977197: 1, 14.37048365526648: 1, 14.323214093530595: 1, 14.296856494135989: 1, 14.257579506810094: 1, 14.069184305711333: 1, 14.022546120949867: 1, 14.016878869115601: 1, 13.96372739189558: 1, 13.912267961055543: 1, 13.903792718538638: 1, 13.886665219794217: 1, 13.882469021199286: 1, 13.868385527936976: 1, 13.817417168969534: 1, 13.66912176825826: 1, 13.650156516446339: 1, 13.490724392570849: 1, 13.48523227923064: 1, 13.480410990270796: 1, 13.398554929807958: 1, 13.372800402810164: 1, 13.370842871819557: 1, 13.366251744262726: 1, 13.344217807052159: 1, 13.29341192190288: 1, 13.293030075365348: 1, 13.292511042549483: 1, 13.215124380202708: 1, 13.173331369056703: 1, 13.170715893195199: 1, 13.135589624048626: 1, 13.132784569163213: 1, 13.116520951669637: 1, 13.092986345494895: 1, 13.070811160200504: 1, 13.012697809101484: 1, 13.005380233989825: 1, 12.994043240029129: 1, 12.943552627715327: 1, 12.911069155005361: 1, 12.882726251981872: 1, 12.874400129582858: 1, 12.867665689144848: 1, 12.86215505607999: 1, 12.861242286346842: 1, 12.831136191171547: 1, 12.814234812764372: 1, 12.797729168420814: 1, 12.777386754398176: 1, 12.757520517267585: 1, 12.723164570327617: 1, 12.70610203345023: 1, 12.681020868310219: 1, 12.621100668215396: 1, 12.614894118369547: 1, 12.600465288017954: 1, 12.57716917510363: 1, 12.56149596053399: 1, 12.516019002418412: 1, 12.468985535685889: 1, 12.462872264738992: 1, 12.443793097179045: 1, 12.326062182398308: 1, 12.302307763558836: 1, 12.249807369256617: 1, 12.222804905689168: 1, 12.201366755655664: 1, 12.191834408690859: 1, 12.15713049540006: 1, 12.11948505765532: 1, 12.110895492873208: 1, 12.098451189065239: 1, 12.066085250406815: 1, 12.05120005228455: 1, 12.03531446753841: 1, 12.028687210265128: 1, 11.927346996229934: 1, 11.922001280612399: 1, 11.914568461112392: 1, 11.881803222562661: 1, 11.851329879429539: 1, 11.839244178707162: 1, 11.793138275496798: 1, 11.75239246062276: 1, 11.739867763324243: 1, 11.70358177020213: 1, 11.702311006388168: 1, 11.683768141588184: 1, 11.676985872116855: 1, 11.671240831673419: 1, 11.663265450424992: 1, 11.640678045129873: 1, 11.633003339629488: 1, 11.576703913820506: 1, 11.554927788248955: 1, 11.552141945343035: 1, 11.52311400061191: 1, 11.50355494883608: 1, 11.495406411751974: 1, 11.484543206602567: 1, 11.477252347890268: 1, 11.422745250415973: 1, 11.412562998874108: 1, 11.374811212733132: 1, 11.367819677184325: 1, 11.340938423550469: 1, 11.308660075253602: 1, 11.299809825172924: 1, 11.254428499721369: 1, 11.190487214002191: 1, 11.144071210017604: 1, 11.134544526629782: 1, 11.089462807891465: 1, 11.079469672579933: 1, 10.988120076757841: 1, 10.91060536142389: 1, 10.909919178822236: 1, 10.894763768464689: 1, 10.883981863930986: 1, 10.8747118198102: 1, 10.872527421133007: 1, 10.845287849801771: 1, 10.820890779234164: 1, 10.819444393858273: 1, 10.751512415666005: 1, 10.725103110929185: 1, 10.714867417859752: 1, 10.708020823342403: 1, 10.679454448588611: 1, 10.65208047681358: 1, 10.57495117959974: 1, 10.566973522651962: 1, 10.5100487804634: 1, 10.510026274514196: 1, 10.463070453509623: 1, 10.458442405495152: 1, 10.446387979135846: 1, 10.43772496545999: 1, 10.405245507173635: 1, 10.392708931969453: 1, 10.382134042951066: 1, 10.318420544026432: 1, 10.308072657386422: 1, 10.288116125891497: 1, 10.269665682292022: 1, 10.223470230580395: 1, 10.221559791088211: 1, 10.220426653859317: 1, 10.216042230348362: 1, 10.201966728398128: 1, 10.196543479127241: 1, 10.195114463359447: 1, 10.185184090390365: 1, 10.18037444811621: 1, 10.161849035949448: 1, 10.152131615060153: 1, 10.11974642298425: 1, 10.098457974011001: 1, 10.07667681875164: 1, 10.074631483672865: 1, 10.032289876692323: 1, 10.023725211168417: 1, 10.015885611830356: 1, 9.98973801186171: 1, 9.960700772815551: 1, 9.955734476634108: 1, 9.91191806958176: 1, 9.89796901901883: 1, 9.877621469952384: 1, 9.840303455040035: 1, 9.838942219500066: 1, 9.817985533717303: 1, 9.810114331344925: 1, 9.806200126611785: 1, 9.804015926518847: 1, 9.80177857032202: 1, 9.800169821057573: 1, 9.773021516653088: 1, 9.77191033661904: 1, 9.77044644663535: 1, 9.750332564287582: 1, 9.740508020336346: 1, 9.668850752948844: 1, 9.66686602599942: 1, 9.634464043320126: 1, 9.609198690271672: 1, 9.587376603303612: 1, 9.573831215883917: 1, 9.572446994884688: 1, 9.570492875557141: 1, 9.557583980945006: 1, 9.545064243060468: 1, 9.523812547331774: 1, 9.523437330381803: 1, 9.507393909550583: 1, 9.501872040379634: 1, 9.50116980910849: 1, 9.486342885267723: 1, 9.476600100602376: 1, 9.475412035613832: 1, 9.460788385811945: 1, 9.449080603730241: 1, 9.434411496119079: 1, 9.434002639093716: 1, 9.421669319002214: 1, 9.41946189675044: 1, 9.397052085622553: 1, 9.376505089943652: 1, 9.345940961713312: 1, 9.322819295979194: 1, 9.321788094226857: 1, 9.320017967933135: 1, 9.319134261797274: 1, 9.310047547044215: 1, 9.30112361277074: 1, 9.29621216439278: 1, 9.285589080617846: 1, 9.279237814784835: 1, 9.278773901529766: 1, 9.277546583184865: 1, 9.261011661153228: 1, 9.24289213382525: 1, 9.242784891824828: 1, 9.222070482802497: 1, 9.220017044057297: 1, 9.200961547539096: 1, 9.198896604693989: 1, 9.185598355446924: 1, 9.148727751830176: 1, 9.13770794371555: 1, 9.136258808441035: 1, 9.131846483878574: 1, 9.126271175155363: 1, 9.11867930264076: 1, 9.107732705630442: 1, 9.092399621563432: 1, 9.08407925692982: 1, 9.070094749607572: 1, 9.063297365585662: 1, 9.05102461941683: 1, 9.046065081552289: 1, 9.034242992889988: 1, 9.032590919955187: 1, 9.00978578960375: 1, 9.0044432412318: 1, 9.00214020752267: 1, 9.00160789231242: 1, 8.963682766448791: 1, 8.956930349323423: 1, 8.952223387084842: 1, 8.92565386508194: 1, 8.90630094337351: 1, 8.873864010947413: 1, 8.868839233451734: 1, 8.856290376456025: 1, 8.838438158717572: 1, 8.83842794489631: 1, 8.795147919257898: 1, 8.748352006763719: 1, 8.735414134571322: 1, 8.73473890710411: 1, 8.732763579450562: 1, 8.709053281129139: 1, 8.69431404142946: 1, 8.688752613438878: 1, 8.671431748708407: 1, 8.65171641353666: 1, 8.62566725699013: 1, 8.618131792748558: 1, 8.614808611084722: 1, 8.611662313580702: 1, 8.605377431489545: 1, 8.593043584418504: 1, 8.589276163956146: 1, 8.54779180994391: 1, 8.546176611981165: 1, 8.543224198309499: 1, 8.542259553048455: 1, 8.541423160240258: 1, 8.533353883267369: 1, 8.503955426376583: 1, 8.49158687994425: 1, 8.484855718006301: 1, 8.462224452654457: 1, 8.439348716307915: 1, 8.410453850187034: 1, 8.397105589409422: 1, 8.396913529765653: 1, 8.396048467360485: 1, 8.391765760614108: 1, 8.386398295588883: 1, 8.374287944164186: 1, 8.368904034582316: 1, 8.36751868207081: 1, 8.361365536069965: 1, 8.353751230525264: 1, 8.32890391914468: 1, 8.32732943754555: 1, 8.305524903491435: 1, 8.284197936788459: 1, 8.267595622602009: 1, 8.267352602076135: 1,

8.258745332728079: 1, 8.258706142682893: 1, 8.248192200615742: 1, 8.244541701461074: 1,
8.237744027595625: 1, 8.198318341761029: 1, 8.180034572514758: 1, 8.177347667632624: 1,
8.168396360249574: 1, 8.166475979341266: 1, 8.152824795301447: 1, 8.14963695603306: 1,
8.147249347433199: 1, 8.146621975937078: 1, 8.139550334758693: 1, 8.131700607966552: 1,
8.125632610143786: 1, 8.122472504310187: 1, 8.113154324864288: 1, 8.106560864739238: 1,
8.106159550467144: 1, 8.104117535333398: 1, 8.098917418147307: 1, 8.073045465450988: 1,
8.065110093773386: 1, 8.010715564899343: 1, 8.006821307058011: 1, 7.996271976672681: 1,
7.982882674114741: 1, 7.976968108470166: 1, 7.97050446347278: 1, 7.968626864386138: 1,
7.9681769508376465: 1, 7.964555088740703: 1, 7.964368622244644: 1, 7.9498483053184765: 1,
7.937871896030254: 1, 7.935079443495995: 1, 7.934013769147308: 1, 7.931871349884392: 1,
7.923382636603655: 1, 7.920512054269896: 1, 7.895217993253449: 1, 7.880207997877302: 1,
7.870092251893097: 1, 7.860011111863456: 1, 7.849755619249067: 1, 7.844036686932502: 1,
7.838708412381685: 1, 7.8345986710550815: 1, 7.815114820553097: 1, 7.813050183456016: 1,
7.811592169149178: 1, 7.783751887385829: 1, 7.762061367516791: 1, 7.75371527421322: 1,
7.746805999835: 1, 7.73665412995693: 1, 7.729677347074409: 1, 7.715837353254226: 1,
7.709665438117834: 1, 7.698061931666582: 1, 7.675240503054024: 1, 7.648465146575249: 1,
7.637024050565927: 1, 7.617111697558681: 1, 7.61701767883545: 1, 7.591882802122665: 1,
7.554983125964207: 1, 7.543137037742809: 1, 7.539729511658042: 1, 7.508213676348028: 1,
7.491354832794041: 1, 7.483574227929003: 1, 7.48005620314313: 1, 7.428175371227017: 1,
7.421070492557031: 1, 7.416098324504173: 1, 7.414314255007934: 1, 7.408823253554073: 1,
7.408160724526312: 1, 7.404199428399175: 1, 7.392676646621296: 1, 7.38823879247257: 1,
7.381432778832005: 1, 7.365452961937781: 1, 7.354036449928293: 1, 7.349939686366882: 1,
7.306001093812441: 1, 7.29191435185141: 1, 7.286295845600791: 1, 7.272001309712431: 1,
7.258859595306801: 1, 7.2449584113534025: 1, 7.234202136973044: 1, 7.2205152650944315: 1,
7.220155612847864: 1, 7.215157424228804: 1, 7.2097675723527574: 1, 7.2090750655725016: 1,
7.205749651347711: 1, 7.199087039549229: 1, 7.1960204298640145: 1, 7.17950381728708: 1,
7.172237890185976: 1, 7.1683321755669445: 1, 7.1557695734983815: 1, 7.1497238623188935: 1,
7.144044208114731: 1, 7.138888251903822: 1, 7.0940670808916355: 1, 7.086116438224058: 1,
7.082011084938229: 1, 7.0676071172764505: 1, 7.055192004820937: 1, 7.041665028885834: 1,
7.017558996026977: 1, 7.001797059494739: 1, 6.996181532174055: 1, 6.965915116671414: 1,
6.965099872798522: 1, 6.963757501175949: 1, 6.955458625341318: 1, 6.952701998505821: 1,
6.950252066618657: 1, 6.945346105865652: 1, 6.941900352180067: 1, 6.941394796673665: 1,
6.9332060849242705: 1, 6.923419423203458: 1, 6.921519778765547: 1, 6.915930365856077: 1, 6.91415148
5309908: 1, 6.902622367892516: 1, 6.899845220870672: 1, 6.896134455913884: 1, 6.887674575681602: 1,
6.879767124607188: 1, 6.865246988238155: 1, 6.830760056804374: 1, 6.82195850615767: 1,
6.805762949447385: 1, 6.792267334761877: 1, 6.79095476005905: 1, 6.785899450500887: 1,
6.772314170806436: 1, 6.767760714547816: 1, 6.7671560546198135: 1, 6.7648189610497225: 1,
6.758517278870968: 1, 6.7580313119583115: 1, 6.75388334494969: 1, 6.739138921279678: 1,
6.736871631362271: 1, 6.726647511360057: 1, 6.704452842551977: 1, 6.7042926870114865: 1,
6.702179644340986: 1, 6.701668428804094: 1, 6.692503140947493: 1, 6.691276235602572: 1,
6.68987494963775: 1, 6.688955383127813: 1, 6.688935482846018: 1, 6.686257021784622: 1,
6.681591739350561: 1, 6.681460370482412: 1, 6.668591838253663: 1, 6.658459211711047: 1,
6.655423819223136: 1, 6.645623188666582: 1, 6.638697113372424: 1, 6.626953939021752: 1,
6.62014135810873: 1, 6.611592914590716: 1, 6.580683615643574: 1, 6.542812841727396: 1,
6.542616075796005: 1, 6.531616557763611: 1, 6.53122272863662: 1, 6.527598873093892: 1,
6.5179807115156825: 1, 6.512394042294934: 1, 6.509168664600411: 1, 6.505458492142986: 1, 6.50398842
5457581: 1, 6.501473194362594: 1, 6.498112701224711: 1, 6.493439701858947: 1, 6.487406330100542: 1,
6.481133606332823: 1, 6.481123710224545: 1, 6.470804321299674: 1, 6.4690531258734705: 1,
6.466192083299625: 1, 6.466083951464065: 1, 6.460657278826899: 1, 6.442867469221824: 1,
6.441020967029515: 1, 6.440414814378321: 1, 6.428162566779129: 1, 6.404236444178268: 1,
6.39826888760886: 1, 6.383361113520361: 1, 6.383224762983657: 1, 6.379682924819636: 1,
6.3737044492960475: 1, 6.366050244077841: 1, 6.363261307295445: 1, 6.355121198123053: 1, 6.35509370
5210278: 1, 6.3545604954942405: 1, 6.3542049364838595: 1, 6.353031588628365: 1, 6.350418915759252:
1, 6.3500157241447415: 1, 6.347558977552984: 1, 6.346371692904647: 1, 6.344521602180246: 1,
6.341035026098126: 1, 6.336398086202805: 1, 6.336271124971356: 1, 6.335052642856121: 1,
6.32758994199561: 1, 6.305056138242112: 1, 6.287908155583542: 1, 6.279241354069157: 1,
6.278356323145869: 1, 6.271697105301768: 1, 6.264555123182683: 1, 6.25961099180919: 1,
6.255575890503166: 1, 6.241871200975068: 1, 6.227627082685827: 1, 6.22720885202003: 1,
6.22328470364666: 1, 6.21418595772433: 1, 6.205091637508871: 1, 6.199146881378946: 1,
6.1862533554360395: 1, 6.184811074676449: 1, 6.18466537349938: 1, 6.183158380190107: 1,
6.182293863319632: 1, 6.1645480879762795: 1, 6.162148874586885: 1, 6.159812983217875: 1,
6.150934768220279: 1, 6.149003682283604: 1, 6.144787591572819: 1, 6.138304369405177: 1,
6.129199329453868: 1, 6.125502081188583: 1, 6.121402467278618: 1, 6.118376842223936: 1,
6.117628618414228: 1, 6.116771479792115: 1, 6.105297904686423: 1, 6.103992008694417: 1,
6.103024908900942: 1, 6.100335548096297: 1, 6.090080013810531: 1, 6.088536679398963: 1,
6.08232368273116: 1, 6.0791569352207775: 1, 6.070645456985957: 1, 6.0653372588342185: 1,
6.065056280870736: 1, 6.061151295085081: 1, 6.060038081570405: 1, 6.056885522755747: 1,
6.053513426699064: 1, 6.052484739640539: 1, 6.052360892945851: 1, 6.050773723658114: 1,
6.050682240415959: 1, 6.040286351709609: 1, 6.0297414788170745: 1, 6.028938553079358: 1,
6.02733245646109: 1, 6.014733695374547: 1, 6.0112147144537875: 1, 6.007685030772321: 1,
5.997876181969765: 1, 5.995680382850039: 1, 5.980607871824199: 1, 5.972726660126135: 1,
5.958400058728056: 1, 5.951708211870195: 1, 5.9485296230020035: 1, 5.940150566338923: 1,
5.923914304605457: 1, 5.921162441409409: 1, 5.911088392746247: 1, 5.908327963564167: 1,
5.9070674707147734: 1, 5.900074778026331: 1, 5.899767424294767: 1, 5.899272810817998: 1, 5.89869675
2637145: 1, 5.894023303324102: 1, 5.889201549527149: 1, 5.88491104527389: 1, 5.873309892469195: 1,
5.867838239757685: 1, 5.859872012765421: 1, 5.857894105308097: 1, 5.857183918668436: 1,
5.8529829581373445: 1, 5.850371898784735: 1, 5.826317319491679: 1, 5.825926501956883: 1, 5.82297043

8679568: 1, 5.822551527643952: 1, 5.808692402920354: 1, 5.808138135643125: 1, 5.793049095690011: 1, 5.788037944600629: 1, 5.782530351543451: 1, 5.777268432469157: 1, 5.7742234076679075: 1, 5.774120024741437: 1, 5.768788255448928: 1, 5.7670642670079: 1, 5.7563430232925334: 1, 5.756063494149349: 1, 5.755551238301865: 1, 5.7550542043459485: 1, 5.752143687450387: 1, 5.748668590280992: 1, 5.746753215816814: 1, 5.745641286382585: 1, 5.74562458559679: 1, 5.741906809829888: 1, 5.73405728468448: 1, 5.732980887732071: 1, 5.72000196900038: 1, 5.719707006507493: 1, 5.717528942970436: 1, 5.71675166107346: 1, 5.715320811274495: 1, 5.700701204702767: 1, 5.700133779095397: 1, 5.697266497997647: 1, 5.695737755019772: 1, 5.6940393297034415: 1, 5.691814766363994: 1, 5.687129344409865: 1, 5.683405064582388: 1, 5.681300446105604: 1, 5.666845367332201: 1, 5.663836723149233: 1, 5.663353398699242: 1, 5.65748988976648: 1, 5.654522112761439: 1, 5.653294447076247: 1, 5.652787512797591: 1, 5.648592054670076: 1, 5.6436011246707904: 1, 5.641591817891944: 1, 5.637855205559042: 1, 5.629784553330154: 1, 5.606067740725083: 1, 5.598996956794431: 1, 5.591329693654652: 1, 5.57070599424874: 1, 5.570139563178899: 1, 5.566610258263738: 1, 5.5651398112412185: 1, 5.563684398114418: 1, 5.563251403149861: 1, 5.556027937376606: 1, 5.555402025919911: 1, 5.554852620743914: 1, 5.551733424952653: 1, 5.5402198894299355: 1, 5.536062875919578: 1, 5.532696755033017: 1, 5.532528277870267: 1, 5.527748951502177: 1, 5.520790703547952: 1, 5.515465671611552: 1, 5.515345698608499: 1, 5.5104353401087955: 1, 5.5017548752966405: 1, 5.476227216642016: 1, 5.474966941481872: 1, 5.474671323567011: 1, 5.4725000072063334: 1, 5.472299872910958: 1, 5.4722838769232345: 1, 5.466529599166524: 1, 5.463715073054066: 1, 5.458937538332329: 1, 5.451954743977212: 1, 5.451189257378155: 1, 5.444346793956681: 1, 5.444192305701703: 1, 5.443755953409969: 1, 5.434515615601732: 1, 5.432752347258084: 1, 5.424455088785168: 1, 5.423798507640449: 1, 5.4177235082737045: 1, 5.411216907322307: 1, 5.409419950429628: 1, 5.406456039071103: 1, 5.406444037126799: 1, 5.406148275637021: 1, 5.398149054206991: 1, 5.396562524548787: 1, 5.389713196275429: 1, 5.386487073519882: 1, 5.385034572542294: 1, 5.378149424500382: 1, 5.372976733465135: 1, 5.367488416419713: 1, 5.365526497268775: 1, 5.359356142793374: 1, 5.3569607578384915: 1, 5.354441577246946: 1, 5.3535698527989: 1, 5.351781634976483: 1, 5.348976103734427: 1, 5.348165802605502: 1, 5.347262562921212: 1, 5.327714347104816: 1, 5.325312396323064: 1, 5.315199835473366: 1, 5.314965423430902: 1, 5.31352668873816: 1, 5.31195872459356: 1, 5.311012229865514: 1, 5.310530827375685: 1, 5.308112839839084: 1, 5.301618193208065: 1, 5.288047611006159: 1, 5.28797422844445: 1, 5.281172987686449: 1, 5.27886656280118: 1, 5.273278702486392: 1, 5.270154359526169: 1, 5.269514276760846: 1, 5.267032779531686: 1, 5.258382346453554: 1, 5.256444585082265: 1, 5.251040127764057: 1, 5.247843839207667: 1, 5.243222145897938: 1, 5.240509649759393: 1, 5.236005217694621: 1, 5.232551492848618: 1, 5.230541338662148: 1, 5.2304382941030525: 1, 5.22786313606359: 1, 5.22052614941634: 1, 5.216999811572895: 1, 5.213998033501932: 1, 5.203745753398071: 1, 5.200741021845868: 1, 5.197566833613046: 1, 5.195640668829201: 1, 5.192297809615531: 1, 5.191432443938087: 1, 5.187367309595997: 1, 5.187200578751179: 1, 5.186494352302168: 1, 5.183251539174017: 1, 5.181266528135045: 1, 5.175952115413374: 1, 5.17544970928068: 1, 5.1742728386119765: 1, 5.169208384577198: 1, 5.16696603121662: 1, 5.165306854274034: 1, 5.159424927215725: 1, 5.156219746093669: 1, 5.146659325714306: 1, 5.14580845310835: 1, 5.145690143378499: 1, 5.136279321992789: 1, 5.127010616531086: 1, 5.126904932924124: 1, 5.1256752307456495: 1, 5.122295504459023: 1, 5.1214927346116745: 1, 5.118989975401772: 1, 5.110782061851553: 1, 5.109657124400428: 1, 5.104592055336472: 1, 5.0972906215430065: 1, 5.094942598150169: 1, 5.094423105111062: 1, 5.092783891794856: 1, 5.090627645923968: 1, 5.088970607802498: 1, 5.087077155265555: 1, 5.08574060488918: 1, 5.085454700367516: 1, 5.080620051418087: 1, 5.072853839583644: 1, 5.063971662101952: 1, 5.063104078896544: 1, 5.051540961045227: 1, 5.050570128825524: 1, 5.048761840262478: 1, 5.04831275532039: 1, 5.047713562617218: 1, 5.039017991141412: 1, 5.033582250861375: 1, 5.031991603182899: 1, 5.024473724273545: 1, 5.018489598044443: 1, 5.013602902548961: 1, 5.011182498496929: 1, 5.008611454370242: 1, 5.002584461943623: 1, 5.000460354279965: 1, 4.998981009356351: 1, 4.996907153661375: 1, 4.996340285483603: 1, 4.984968925720977: 1, 4.98324303522324: 1, 4.96909324466502: 1, 4.96825041530364: 1, 4.964962375704082: 1, 4.96154215472288: 1, 4.961132830406522: 1, 4.959465055299795: 1, 4.956680259965951: 1, 4.947893531158662: 1, 4.941967811302953: 1, 4.936565955170747: 1, 4.927756914016642: 1, 4.9275364129088794: 1, 4.923452997969154: 1, 4.91620791528796: 1, 4.915758976693471: 1, 4.912782598274748: 1, 4.912537215231397: 1, 4.9101516306307476: 1, 4.909725460816264: 1, 4.907395197754762: 1, 4.907358897476652: 1, 4.899394443250045: 1, 4.8953371714039005: 1, 4.893763533209969: 1, 4.893192135830009: 1, 4.891857103966079: 1, 4.886740776148846: 1, 4.874483422529137: 1, 4.873530216728623: 1, 4.871079603501398: 1, 4.870060467496035: 1, 4.8655356781267125: 1, 4.863007310233589: 1, 4.860351803934607: 1, 4.856137820857035: 1, 4.844818349676513: 1, 4.842974328235619: 1, 4.839296312472537: 1, 4.838449979965922: 1, 4.837461852281836: 1, 4.834870700055009: 1, 4.83308804714455: 1, 4.826819494508568: 1, 4.825731261970596: 1, 4.823514804659693: 1, 4.821126882591001: 1, 4.819127733654139: 1, 4.81348569911869: 1, 4.811432704237611: 1, 4.8107990192458665: 1, 4.806342928890766: 1, 4.804332291068563: 1, 4.803482664364085: 1, 4.801346756707257: 1, 4.798450482549625: 1, 4.798036772805292: 1, 4.790829920987007: 1, 4.789871786909082: 1, 4.787871292307978: 1, 4.779153520208725: 1, 4.778576223170805: 1, 4.768183426074159: 1, 4.763296081622359: 1, 4.7618079500392865: 1, 4.7560385574649615: 1, 4.7550466475361315: 1, 4.748402571276295: 1, 4.740499958345439: 1, 4.73053623010107: 1, 4.729419572252055: 1, 4.724908789660765: 1, 4.724822082254997: 1, 4.721325874505072: 1, 4.718179569910123: 1, 4.713140065035356: 1, 4.709719763910548: 1, 4.7076155649024125: 1, 4.700720570842803: 1, 4.699919789609636: 1, 4.6991080386844315: 1, 4.698946798801456: 1, 4.69634447575649: 1, 4.6936568007623: 1, 4.693390615178703: 1, 4.69074748475113: 1, 4.685595326331057: 1, 4.683346056555038: 1, 4.682600344172417: 1, 4.681577845516264: 1, 4.675192810643466: 1, 4.669910967679041: 1, 4.662526662628305: 1, 4.662107001015559: 1, 4.661825091052909: 1, 4.661605940908936: 1, 4.659129224952349: 1, 4.654016273671983: 1, 4.652958738673473: 1, 4.652461451716352: 1, 4.648504990687536: 1,

4.645159436426939: 1, 4.638091132636661: 1, 4.627109396488523: 1, 4.626633754110992: 1, 4.626374845791432: 1, 4.621236216034552: 1, 4.620890890228669: 1, 4.618318853494023: 1, 4.611126714241881: 1, 4.608303281487745: 1, 4.605743064466061: 1, 4.605096717241855: 1, 4.60447485159554: 1, 4.603908042240825: 1, 4.599457648260896: 1, 4.596921599944676: 1, 4.5958680587722345: 1, 4.595551970787693: 1, 4.590037777957904: 1, 4.588610157543218: 1, 4.58790605907782: 1, 4.587367953332168: 1, 4.583040313793258: 1, 4.577319698223911: 1, 4.577043086690735: 1, 4.574747821262251: 1, 4.572256602076906: 1, 4.5636446153420644: 1, 4.560868660421679: 1, 4.5582366981164935: 1, 4.556214523405132: 1, 4.547451442503389: 1, 4.541820784789232: 1, 4.539630171430289: 1, 4.53241381503027: 1, 4.528239748267596: 1, 4.527535215639436: 1, 4.527146386281011: 1, 4.526774198302682: 1, 4.525278726694351: 1, 4.524647505785317: 1, 4.521887682034054: 1, 4.51934657294841: 1, 4.516131916064303: 1, 4.511641356121958: 1, 4.511570284167256: 1, 4.508663994075765: 1, 4.508087118461174: 1, 4.504035569802187: 1, 4.503520105811326: 1, 4.499896292302817: 1, 4.4965196591803025: 1, 4.493325244858715: 1, 4.491078569065936: 1, 4.488450694033873: 1, 4.487745997739335: 1, 4.485399524614011: 1, 4.485383995664295: 1, 4.484320706220211: 1, 4.481731674974105: 1, 4.48047386398969: 1, 4.479237127578039: 1, 4.4758334302060865: 1, 4.470545581448251: 1, 4.46839034558095: 1, 4.456789042551898: 1, 4.454428939142221: 1, 4.453665909706057: 1, 4.4515658145854955: 1, 4.4496384865696585: 1, 4.4482502520030485: 1, 4.439067641618056: 1, 4.436845092534574: 1, 4.435944526106645: 1, 4.435223595172921: 1, 4.432229281575585: 1, 4.430812232534679: 1, 4.428225833162931: 1, 4.427993530729523: 1, 4.426885688362153: 1, 4.417025761297195: 1, 4.4145884861154014: 1, 4.411663164877388: 1, 4.409912044777349: 1, 4.402668453909886: 1, 4.402265849301105: 1, 4.40057568577596: 1, 4.400160147048232: 1, 4.3947020387673135: 1, 4.392898788826935: 1, 4.384286024276564: 1, 4.37881836531279: 1, 4.377981387531529: 1, 4.376828931378484: 1, 4.364112397552604: 1, 4.354610035049625: 1, 4.354541957315388: 1, 4.34898422012894: 1, 4.345682682882338: 1, 4.345207691345725: 1, 4.34219236787573: 1, 4.3417780604040175: 1, 4.339911621037952: 1, 4.335760744647921: 1, 4.32651415406307: 1, 4.320669057559249: 1, 4.319519500991638: 1, 4.3177740397298: 1, 4.315638161863605: 1, 4.310499593209398: 1, 4.305529552976036: 1, 4.303295863074245: 1, 4.302943051332423: 1, 4.302270926406456: 1, 4.301099102004557: 1, 4.300586804853578: 1, 4.2936935804807925: 1, 4.293671298091965: 1, 4.293211435896368: 1, 4.290337718059692: 1, 4.287040779212376: 1, 4.287021074242125: 1, 4.286706631451838: 1, 4.286267468570095: 1, 4.282703693139048: 1, 4.266365423650652: 1, 4.2654460632916065: 1, 4.261656227975662: 1, 4.260982732205665: 1, 4.26078070803306: 1, 4.2557784032088: 1, 4.246845661977954: 1, 4.246807462813693: 1, 4.237327317733197: 1, 4.236659929478516: 1, 4.23665769341538: 1, 4.2362868056939185: 1, 4.231648311253904: 1, 4.227542536971674: 1, 4.226093482143637: 1, 4.2229304780860755: 1, 4.220815701980726: 1, 4.214376036130398: 1, 4.213047225023683: 1, 4.207448869038462: 1, 4.205814144580153: 1, 4.205178624734677: 1, 4.203645915776123: 1, 4.197932453729743: 1, 4.1968266970511845: 1, 4.19329265624683: 1, 4.189702095917464: 1, 4.189077859000222: 1, 4.187225916653881: 1, 4.184531734407448: 1, 4.1826608768984785: 1, 4.180146128099096: 1, 4.17977219328978: 1, 4.179693750151782: 1, 4.1790546705163: 1, 4.17644587629942: 1, 4.171166708842469: 1, 4.164798032082141: 1, 4.164767303848889: 1, 4.1632951093476604: 1, 4.163097496828907: 1, 4.157485553272796: 1, 4.15696765398741: 1, 4.149183554841574: 1, 4.147165796815134: 1, 4.141235946637767: 1, 4.140320438879966: 1, 4.1330375469391845: 1, 4.128293577935453: 1, 4.124076434184966: 1, 4.1238401462880026: 1, 4.12361307909768: 1, 4.121584039095317: 1, 4.121012244559532: 1, 4.119986982094117: 1, 4.118054640395432: 1, 4.1158547931683644: 1, 4.115627347795087: 1, 4.115571646594934: 1, 4.10874369306138: 1, 4.1020402261154265: 1, 4.100583905543787: 1, 4.099716232057357: 1, 4.097644589832996: 1, 4.096784516261072: 1, 4.092541312405676: 1, 4.087886526669497: 1, 4.083003732270533: 1, 4.082701895615082: 1, 4.080896764077513: 1, 4.077656236095064: 1, 4.072820352792016: 1, 4.068942583315098: 1, 4.068925652907764: 1, 4.065396422645952: 1, 4.062371551004709: 1, 4.057522734854664: 1, 4.057365678817006: 1, 4.054437845809272: 1, 4.047935112809252: 1, 4.041517305471477: 1, 4.038989929723119: 1, 4.038922248341078: 1, 4.038086069563899: 1, 4.0369692396150665: 1, 4.036762947413767: 1, 4.036401525913859: 1, 4.03384908872881: 1, 4.031946995684152: 1, 4.030260278947488: 1, 4.030105821025825: 1, 4.017809719730767: 1, 4.016218384407891: 1, 4.010336460639085: 1, 4.00719017035059: 1, 4.00514377282668: 1, 4.003872210889595: 1, 4.003403512826182: 1, 4.003193342615313: 1, 3.9996913999179524: 1, 3.9995465381682025: 1, 3.995685365282751: 1, 3.995627113272147: 1, 3.9936232533756546: 1, 3.99211695059139: 1, 3.9815561958868346: 1, 3.9751324877264897: 1, 3.969898404147504: 1, 3.969713272178364: 1, 3.9687979241792997: 1, 3.968302300133028: 1, 3.965250915105583: 1, 3.961770948616322: 1, 3.961176412377639: 1, 3.960603028381213: 1, 3.9587315695091876: 1, 3.9575231561194224: 1, 3.955260499781762: 1, 3.951583440431139: 1, 3.9508065469058704: 1, 3.9501651922554637: 1, 3.948709905567629: 1, 3.9464730714772487: 1, 3.9452916983103936: 1, 3.943480909532384: 1, 3.9427280177274624: 1, 3.9370811674796804: 1, 3.9345886112722597: 1, 3.930236959577658: 1, 3.929545367820564: 1, 3.9257167354999623: 1, 3.9234800518981006: 1, 3.9222794153712672: 1, 3.9192155232344: 1, 3.918877647828687: 1, 3.9171715502274123: 1, 3.911465602016857: 1, 3.910269130640487: 1, 3.910240603993802: 1, 3.907210027305032: 1, 3.9061402612136096: 1, 3.897426365329752: 1, 3.8948043033855786: 1, 3.891138999078486: 1, 3.8897286074782866: 1, 3.8872190891916114: 1, 3.8865445211557224: 1, 3.885904490794925: 1, 3.8825230813339324: 1, 3.87943397562757: 1, 3.8782600226876642: 1, 3.8778901464273554: 1, 3.8770028538108674: 1, 3.8769482028575726: 1, 3.875732356371065: 1, 3.875183577301169: 1, 3.873732404591365: 1, 3.87206243216685: 1, 3.8715975334525847: 1, 3.870582781123041: 1, 3.8702832567112306: 1, 3.868309545297067: 1, 3.865503687511157: 1, 3.86305977244034: 1, 3.8618746604779135: 1, 3.8608833261039126: 1, 3.8589343894448955: 1, 3.856393136249075: 1, 3.855166972323796: 1, 3.8550033947840134: 1, 3.853231371497494: 1, 3.851531009612105: 1, 3.8501990134886857: 1, 3.8487567536053713: 1, 3.846438572450899: 1, 3.844894343751744: 1, 3.8442102265619478: 1, 3.8421161191108344: 1, 3.8413306901188964: 1, 3.838096788432503: 1, 3.835889072191687: 1, 3.83449688239877: 1, 3.831404285607817: 1, 3.8269921369368625: 1, 3.8251105377143935: 1, 3.8250172130893683: 1, 3.8239374599805114: 1, 3.8210048863759845: 1, 3.8154654834677446: 1, 3.8152757100189447: 1,

3.812541503952029: 1, 3.8106118226745433: 1, 3.8095856416997136: 1, 3.8094657072477918: 1, 3.8093186819792493: 1, 3.808575893170929: 1, 3.807173513647581: 1, 3.8049308540741813: 1, 3.8028829346095456: 1, 3.799740974455648: 1, 3.7987056861259263: 1, 3.797216732061318: 1, 3.7935258693718503: 1, 3.78973391611301: 1, 3.7896939193118757: 1, 3.783718446331169: 1, 3.7836122240349375: 1, 3.7818380131903067: 1, 3.77945389372358: 1, 3.777323864847997: 1, 3.7729741717514296: 1, 3.7722209127228146: 1, 3.7687535023553025: 1, 3.7684577686819574: 1, 3.7636727814868536: 1, 3.762416633517688: 1, 3.76154765203577: 1, 3.755999634651661: 1, 3.7544326330523177: 1, 3.7521443068364264: 1, 3.751159358802647: 1, 3.746439501813736: 1, 3.745862219095663: 1, 3.744441955370911: 1, 3.741411010448949: 1, 3.73935985662224: 1, 3.7348113816279698: 1, 3.733621568384698: 1, 3.7328719992331743: 1, 3.731209984267247: 1, 3.729562691582399: 1, 3.728628122711801: 1, 3.7279499022936657: 1, 3.7192951984221887: 1, 3.717406670510848: 1, 3.715734370403627: 1, 3.7136200893517444: 1, 3.7110775556071736: 1, 3.709778048773412: 1, 3.7080955213578264: 1, 3.7057975089964073: 1, 3.7041095049451926: 1, 3.7020255228157084: 1, 3.7014906538636114: 1, 3.7005874217256896: 1, 3.7005607539930905: 1, 3.6978153553746456: 1, 3.6924754321867157: 1, 3.691004661585954: 1, 3.689775759260843: 1, 3.686540006408643: 1, 3.684383019275893: 1, 3.6810460346899525: 1, 3.680448138004964: 1, 3.6768660871018066: 1, 3.6752395121722747: 1, 3.6728395201248905: 1, 3.6675691030533457: 1, 3.6674704292376554: 1, 3.666668908543168: 1, 3.6665443944447693: 1, 3.665692353019353: 1, 3.662096296624306: 1, 3.6601214250355945: 1, 3.659603878741987: 1, 3.6554408748215983: 1, 3.64967432683025: 1, 3.6491983878740886: 1, 3.647048917962309: 1, 3.6395393996920204: 1, 3.635826627185021: 1, 3.6351922215736363: 1, 3.632555968098721: 1, 3.6318504827404103: 1, 3.63144533440228: 1, 3.630570853892011: 1, 3.627824252875635: 1, 3.6264517391566056: 1, 3.6231171311871417: 1, 3.6199361059551327: 1, 3.6198847762471678: 1, 3.619835683435466: 1, 3.6171948897334745: 1, 3.6110126923763324: 1, 3.610232544390379: 1, 3.6097737705039132: 1, 3.609156627330242: 1, 3.607492938757003: 1, 3.606360096622813: 1, 3.604937456370681: 1, 3.6021502375688588: 1, 3.597705633557247: 1, 3.5935477035910206: 1, 3.5924461715435565: 1, 3.5864909352052354: 1, 3.5859592539955347: 1, 3.5847924234630972: 1, 3.5803403810497993: 1, 3.57908722184281: 1, 3.5778512150775605: 1, 3.5751471693620123: 1, 3.572778635668786: 1, 3.5717678529943933: 1, 3.5675931631503004: 1, 3.565074201093158: 1, 3.564640894749929: 1, 3.564562667590163: 1, 3.5611993617884394: 1, 3.558405283430833: 1, 3.557498448433617: 1, 3.5536590269650596: 1, 3.5533789868269063: 1, 3.5525034489902017: 1, 3.5517964763746415: 1, 3.549928520488881: 1, 3.5495385910065864: 1, 3.5486956988444223: 1, 3.5475863322094265: 1, 3.5475038513522907: 1, 3.5451452788845774: 1, 3.545138200133715: 1, 3.542262846497766: 1, 3.537826990171332: 1, 3.5359832566852125: 1, 3.5358095388517716: 1, 3.5357140909804876: 1, 3.5300278735678443: 1, 3.5284991788029347: 1, 3.5280895988394105: 1, 3.5268794136078725: 1, 3.5245917547776955: 1, 3.524518493080045: 1, 3.524145196604765: 1, 3.523069868855337: 1, 3.520954640254601: 1, 3.5206917014184773: 1, 3.519645951037069: 1, 3.518997156572705: 1, 3.517952010773028: 1, 3.5176223804801356: 1, 3.516770240915765: 1, 3.5142214943190777: 1, 3.513868111585375: 1, 3.5136390648580162: 1, 3.513540811873466: 1, 3.5129223847925433: 1, 3.5109584518602417: 1, 3.5093581115795325: 1, 3.5093502559834873: 1, 3.5083478247749045: 1, 3.5042818176859454: 1, 3.503166116796109: 1, 3.5017940566730137: 1, 3.5011919915811: 1, 3.5009853968790616: 1, 3.5007133164523427: 1, 3.5001278640450257: 1, 3.500117157834623: 1, 3.498128572305379: 1, 3.4962969460292084: 1, 3.4947060067382347: 1, 3.491788278178085: 1, 3.4863261273330366: 1, 3.4842372156253734: 1, 3.481236367572925: 1, 3.4766445606419305: 1, 3.4755952549508335: 1, 3.4754387928157158: 1, 3.4739109960383723: 1, 3.47272965734083: 1, 3.4703704018623145: 1, 3.4693004289911165: 1, 3.4632783336758424: 1, 3.462775266245337: 1, 3.4627672342678864: 1, 3.46215213365077: 1, 3.457438872285128: 1, 3.4567029254733526: 1, 3.455981997369465: 1, 3.455794057935979: 1, 3.4542426681450484: 1, 3.4515158973645077: 1, 3.449631072223365: 1, 3.4490673422175337: 1, 3.445730027468866: 1, 3.4442064927929548: 1, 3.442527069985433: 1, 3.4423030569409865: 1, 3.44041308277926: 1, 3.4380381055202984: 1, 3.437767630556772: 1, 3.4358620339584047: 1, 3.434409549405133: 1, 3.433633934436386: 1, 3.4333995235621035: 1, 3.431705492466779: 1, 3.4308927310212525: 1, 3.4287659835780246: 1, 3.427467222282825: 1, 3.4256673009438163: 1, 3.425150434643696: 1, 3.4239699792903684: 1, 3.421269817773979: 1, 3.420292984973017: 1, 3.4199066816266317: 1, 3.419078502482407: 1, 3.4190628496313065: 1, 3.417542712958569: 1, 3.416357796869525: 1, 3.4153784972611536: 1, 3.4150546817780314: 1, 3.410840202925781: 1, 3.41014895731442: 1, 3.40766388664066: 1, 3.407371443436259: 1, 3.405986102937316: 1, 3.405084647618123: 1, 3.4015120360623348: 1, 3.4013744444478147: 1, 3.398920584700187: 1, 3.396352058359193: 1, 3.3958740232765545: 1, 3.394285730429101: 1, 3.390222308736515: 1, 3.388499712426269: 1, 3.387287442506888: 1, 3.386527937928886: 1, 3.385872998726638: 1, 3.3844221432191635: 1, 3.3820995025908185: 1, 3.3814121433479754: 1, 3.3791583547958113: 1, 3.3760391301433685: 1, 3.375622003661182: 1, 3.373621599680982: 1, 3.3676174315713094: 1, 3.366652786502502: 1, 3.365120845673588: 1, 3.364211230522624: 1, 3.3637308752367563: 1, 3.3617077804491493: 1, 3.3612047181672953: 1, 3.36115270461359: 1, 3.359838744403489: 1, 3.3595789863886996: 1, 3.357991559235003: 1, 3.3573759364330784: 1, 3.3569109861001465: 1, 3.356488047538688: 1, 3.3558891319325723: 1, 3.3547614606270972: 1, 3.3536058560053337: 1, 3.3535921095444206: 1, 3.3534411669506587: 1, 3.353409245338169: 1, 3.3509381694822764: 1, 3.3493153110591174: 1, 3.3427081195886807: 1, 3.340949728092882: 1, 3.337308819245985: 1, 3.3358945869635988: 1, 3.334364468606642: 1, 3.334224512455553: 1, 3.333978560299472: 1, 3.33233656982931: 1, 3.3318910051950144: 1, 3.3303606941147614: 1, 3.330249676479061: 1, 3.3297313742963772: 1, 3.32826226416287: 1, 3.3282582181166753: 1, 3.32700317807252: 1, 3.3258894186043007: 1, 3.3254291945297982: 1, 3.3237802750108014: 1, 3.322482809020967: 1, 3.321991092654259: 1, 3.3214365776710792: 1, 3.321087342917644: 1, 3.3151289260664782: 1, 3.314179223525128: 1, 3.313102705058173: 1, 3.3126100842384143: 1, 3.311761850239631: 1, 3.3113173609267275: 1, 3.3053518644020636: 1, 3.303796589920175: 1, 3.3036647688324425: 1, 3.3009444741648717: 1, 3.298363070551035: 1, 3.297906329115996: 1, 3.2969418380074966: 1, 3.293240542875108: 1, 3.292907921472509: 1, 3.286831907660721: 1, 3.286180058064903: 1, 3.2794797817673005: 1, 3.2784971593336483: 1, 3.272188829931861: 1

3.2706996725886355: 1, 3.2699736991906505: 1, 3.269627004917748: 1, 3.2692224583684393: 1, 3.269210439392058: 1, 3.2646411645024735: 1, 3.2640441241649016: 1, 3.2637088543622346: 1, 3.263352704930663: 1, 3.2632530942877334: 1, 3.2607264296098055: 1, 3.2606055394777123: 1, 3.257101657815506: 1, 3.2565397279532875: 1, 3.252279768478029: 1, 3.2501567456817595: 1, 3.249938053632587: 1, 3.2491642104743863: 1, 3.2466566975066713: 1, 3.2464675961882445: 1, 3.241796446548915: 1, 3.2388479979891946: 1, 3.2387302618734823: 1, 3.238512482119191: 1, 3.2380710280189215: 1, 3.23781833059228: 1, 3.2369264589113054: 1, 3.235606975414099: 1, 3.2328709573471155: 1, 3.2289141833959403: 1, 3.2274140954524735: 1, 3.2248853365986743: 1, 3.224828871341542: 1, 3.2245253446895346: 1, 3.223285470225696: 1, 3.2208712874086602: 1, 3.220567677327242: 1, 3.218499459094306: 1, 3.2179510384775742: 1, 3.2178735474310884: 1, 3.2177804246971484: 1, 3.2134071882274937: 1, 3.21081690626049: 1, 3.208503332043853: 1, 3.2084699661124936: 1, 3.2067360038288513: 1, 3.2047748779190957: 1, 3.204765820988348: 1, 3.204131218515505: 1, 3.2027148732867508: 1, 3.201391228363224: 1, 3.1973967740042673: 1, 3.196986421503873: 1, 3.196634013978693: 1, 3.193130938456158: 1, 3.19298875222801: 1, 3.1929171090941675: 1, 3.1920210347350944: 1, 3.1911016586450387: 1, 3.18997718786216: 1, 3.1884096716774297: 1, 3.1878241738982083: 1, 3.1874684011612655: 1, 3.1864050649071687: 1, 3.18496680211599: 1, 3.183014959463202: 1, 3.1815416540116335: 1, 3.1812322065406575: 1, 3.177454510307506: 1, 3.1759604186685046: 1, 3.1755322262773893: 1, 3.1745297418933704: 1, 3.173179638667255: 1, 3.172074314245934: 1, 3.171361003801619: 1, 3.1694300644862845: 1, 3.169080638467541: 1, 3.166770655381776: 1, 3.1630585173516956: 1, 3.1626621744143995: 1, 3.160662258871094: 1, 3.160436911847876: 1, 3.1604128609364532: 1, 3.1582651109664623: 1, 3.153421248156724: 1, 3.1489565421692687: 1, 3.147134908805186: 1, 3.146745605224762: 1, 3.1457693288758732: 1, 3.1452749665217996: 1, 3.1436668339571296: 1, 3.13657974390121: 1, 3.1315731354936864: 1, 3.1313474016178957: 1, 3.127570776369872: 1, 3.126771444661921: 1, 3.1266877792691843: 1, 3.125591990111985: 1, 3.125346458028387: 1, 3.1219236968294046: 1, 3.120375635346974: 1, 3.119041146561543: 1, 3.116694658635521: 1, 3.1165153659864444: 1, 3.11634882602321: 1, 3.11626572488215: 1, 3.1156116084047447: 1, 3.115176357146335: 1, 3.1147206681795727: 1, 3.1103379709010324: 1, 3.107402905365007: 1, 3.107079177316077: 1, 3.106350446695409: 1, 3.105348596529048: 1, 3.1040657513228194: 1, 3.1033121110082806: 1, 3.099454041148276: 1, 3.098977406718143: 1, 3.097922793197877: 1, 3.095449616907672: 1, 3.094842220864696: 1, 3.0946084081795315: 1, 3.0932357261336634: 1, 3.087533238773938: 1, 3.085662684488561: 1, 3.0817097369433237: 1, 3.0798882781735393: 1, 3.0793752717876837: 1, 3.0751809002399133: 1, 3.0744471244025116: 1, 3.074112379554663: 1, 3.0723900609578134: 1, 3.071255951039852: 1, 3.071194004873773: 1, 3.067614677150971: 1, 3.0671247040007543: 1, 3.065693191998723: 1, 3.065166467602104: 1, 3.0618695889660525: 1, 3.060984279010285: 1, 3.060219228543869: 1, 3.057707693105384: 1, 3.0575417407012058: 1, 3.0569239725804334: 1, 3.0556407493551907: 1, 3.053141095921397: 1, 3.051819642972125: 1, 3.0516372417673954: 1, 3.0511642944306416: 1, 3.051051888786333: 1, 3.044505872488156: 1, 3.043870111987228: 1, 3.042040472259243: 1, 3.041358813340532: 1, 3.040647867516729: 1, 3.035456708034935: 1, 3.034704451890584: 1, 3.0329149546049683: 1, 3.030492617268031: 1, 3.0252692116283915: 1, 3.0228267775304705: 1, 3.0224646054578823: 1, 3.0217974947489044: 1, 3.020503874858619: 1, 3.0195384320906453: 1, 3.016848819062196: 1, 3.0163980571329634: 1, 3.0101519939274843: 1, 3.0075633060394806: 1, 3.007429688259632: 1, 3.00629017295137: 1, 3.0052263030339073: 1, 3.002742130029502: 1, 2.9980170047562575: 1, 2.997989774499437: 1, 2.991978461893908: 1, 2.991607700306584: 1, 2.9901967013918487: 1, 2.9869726459613988: 1, 2.9845036913255445: 1, 2.9844031130035473: 1, 2.98247619872805: 1, 2.982414021531066: 1, 2.9819126670908203: 1, 2.9806421890744756: 1, 2.9791392698302017: 1, 2.9782077063541794: 1, 2.9779817560319186: 1, 2.971479780284897: 1, 2.970332882446834: 1, 2.9672230266070576: 1, 2.967154284661624: 1, 2.9669504803739075: 1, 2.9667594252952676: 1, 2.9664151785598323: 1, 2.96606685650441095: 1, 2.964559082495369: 1, 2.962393254608835: 1, 2.9575474687909358: 1, 2.9552497421004285: 1, 2.9531983829399615: 1, 2.951556805280756: 1, 2.949598683346306: 1, 2.9476900837002633: 1, 2.946140499043132: 1, 2.9457070610995135: 1, 2.9452251891614067: 1, 2.944222613339212: 1, 2.937051145751021: 1, 2.9367632024777732: 1, 2.9362064714754115: 1, 2.935854635830739: 1, 2.93493528313228: 1, 2.9320713525677196: 1, 2.930709356558991: 1, 2.9292949617191515: 1, 2.9289775502303024: 1, 2.9279874066519955: 1, 2.9253824149926753: 1, 2.9233431554706963: 1, 2.9222257116124446: 1, 2.9219305405421996: 1, 2.919798130100068: 1, 2.91896410894745: 1, 2.9152699795497274: 1, 2.91510518321639: 1, 2.913885977604655: 1, 2.908964137755086: 1, 2.9050745663361925: 1, 2.904128391388212: 1, 2.9022828381873347: 1, 2.9007284602339487: 1, 2.900529171933282: 1, 2.8990569304265423: 1, 2.8990542382054634: 1, 2.8970691211019663: 1, 2.8945212867769614: 1, 2.8943843423680473: 1, 2.8939171143641267: 1, 2.893746636733882: 1, 2.891873678286287: 1, 2.890356649677775: 1, 2.8883584017718347: 1, 2.8882731473351266: 1, 2.885114393138039: 1, 2.8848306563266117: 1, 2.8834502531394084: 1, 2.882854453935394: 1, 2.8826836833129272: 1, 2.8801713992097198: 1, 2.8796575538128444: 1, 2.8786752421798742: 1, 2.874437875533566: 1, 2.8736560527399617: 1, 2.87274885667032: 1, 2.870247180455814: 1, 2.87001824789657: 1, 2.869596455992824: 1, 2.869427907923402: 1, 2.8677599556556386: 1, 2.867489348918822: 1, 2.863226217862095: 1, 2.8630441829412625: 1, 2.86180505796705: 1, 2.8617232779698707: 1, 2.861666689536615: 1, 2.86115069051759: 1, 2.860645029154708: 1, 2.8601891704962363: 1, 2.8587592685396706: 1, 2.8575926531022833: 1, 2.8541323516994344: 1, 2.85389603440174: 1, 2.8531945920322497: 1, 2.8516029576901474: 1, 2.851426949778838: 1, 2.849304006430444: 1, 2.8484076983364446: 1, 2.8481465906768206: 1, 2.847904381277546: 1, 2.844842051063252: 1, 2.8440229319107933: 1, 2.8404497039689214: 1, 2.839164405245421: 1, 2.8387661738945327: 1, 2.8384608902082995: 1, 2.835918303407991: 1, 2.8343655853107954: 1, 2.8342141832475045: 1, 2.8326308808984555: 1, 2.8320823479725092: 1, 2.830646156642217: 1, 2.8304770894740874: 1, 2.8302420134714246: 1, 2.8299224448685076: 1, 2.82502160812702: 1, 2.82380075367628: 1, 2.823688687169717: 1, 2.822700634882275: 1, 2.820889405053506: 1, 2.8152727922196346: 1, 2.815088854544804: 1, 2.8138010957840787: 1, 2.811832934398377: 1, 2.8105410953590058: 1, 2.808788624422706: 1, 2.8068171397322654: 1, 2.8053145968694393: 1, 2.8050796807140648: 1,

2.8040642693108984: 1, 2.802336385560049: 1, 2.799724797055173: 1, 2.797217517196368: 1, 2.7971797495068738: 1, 2.7963762858856023: 1, 2.794718201796005: 1, 2.7932911456848997: 1, 2.792808617343859: 1, 2.792289120147943: 1, 2.7912088247908273: 1, 2.7905475811253666: 1, 2.790440431072915: 1, 2.789432029990522: 1, 2.78926683129573: 1, 2.7875498483964147: 1, 2.7873128806164917: 1, 2.786169566793988: 1, 2.784043950483797: 1, 2.783064903335234: 1, 2.7825705167720773: 1, 2.7817217582049656: 1, 2.780902100743961: 1, 2.780584967483891: 1, 2.776806056768542: 1, 2.7762332647636807: 1, 2.769489128501483: 1, 2.7692615391607123: 1, 2.768904594580542: 1, 2.767940976897999: 1, 2.7654297431689674: 1, 2.7649714827815615: 1, 2.7645378341297873: 1, 2.763161080031453: 1, 2.7603088289031277: 1, 2.7547542125376245: 1, 2.7538125023603692: 1, 2.752778631584532: 1, 2.7516044664310617: 1, 2.750734465800377: 1, 2.748837087417227: 1, 2.7471536623606174: 1, 2.7466293941699473: 1, 2.746506285960741: 1, 2.7458739502642517: 1, 2.745301681875042: 1, 2.744117547209088: 1, 2.742103861003121: 1, 2.7419339392111532: 1, 2.7409864517799805: 1, 2.7409629169348517: 1, 2.740682910262718: 1, 2.7405698987495613: 1, 2.7402907165373387: 1, 2.739805649628815: 1, 2.7395170506976614: 1, 2.737043218047302: 1, 2.7370109320163487: 1, 2.7354969083437464: 1, 2.734615973176193: 1, 2.7334836778179485: 1, 2.7300081222629773: 1, 2.7281261501681495: 1, 2.7281119731299253: 1, 2.7259762373999177: 1, 2.7253876839147595: 1, 2.7248727649653706: 1, 2.7245344843808628: 1, 2.7233593936526805: 1, 2.723284536285308: 1, 2.7203933432684226: 1, 2.719490661899345: 1, 2.7175306686427394: 1, 2.7173501289585142: 1, 2.716733932319855: 1, 2.7153966544283326: 1, 2.7132105821455883: 1, 2.712798507804047: 1, 2.7113838082970494: 1, 2.71095033392306: 1, 2.7103949433768344: 1, 2.7090396224926327: 1, 2.70599638645101: 1, 2.7052276413263807: 1, 2.702132307835137: 1, 2.7013470177472647: 1, 2.698830082147112: 1, 2.697697496064906: 1, 2.697252606540112: 1, 2.6970261286179: 1, 2.696620904337377: 1, 2.696260433000845: 1, 2.6952649107212587: 1, 2.6950041855886306: 1, 2.6929942722449933: 1, 2.6919267568534373: 1, 2.691358307769417: 1, 2.6912147573946665: 1, 2.69085274953073: 1, 2.690506714929204: 1, 2.689616190123808: 1, 2.688164454469861: 1, 2.684972269168001: 1, 2.6831554968695026: 1, 2.6825144786670263: 1, 2.6825082355650407: 1, 2.682110179798857: 1, 2.6815830334663318: 1, 2.6811087231872692: 1, 2.680659119642254: 1, 2.6792132100851687: 1, 2.6785686909664133: 1, 2.676636018513598: 1, 2.6739002653591055: 1, 2.6733389811559793: 1, 2.6725997828850434: 1, 2.6718299719544563: 1, 2.6717229047946662: 1, 2.669830795626485: 1, 2.6696686760056116: 1, 2.6689129191885073: 1, 2.6684240474305283: 1, 2.66837638459718: 1, 2.6682055400523974: 1, 2.6668959311361236: 1, 2.666408660415238: 1, 2.6660762831163964: 1, 2.6655703172654093: 1, 2.664992232291243: 1, 2.6639049002092965: 1, 2.6635051893947197: 1, 2.660984562660141: 1, 2.658989221148696: 1, 2.6584725937070073: 1, 2.6584619717919815: 1, 2.65616105644624: 1, 2.6554002873839275: 1, 2.6551061704292858: 1, 2.653898515357642: 1, 2.653793362726546: 1, 2.6522024149431576: 1, 2.651247319885588: 1, 2.650624886791652: 1, 2.649994154508571: 1, 2.6499630163672734: 1, 2.6476023254726306: 1, 2.645728563239794: 1, 2.6441604229127122: 1, 2.6439877668651874: 1, 2.6439108397085835: 1, 2.6433234919210404: 1, 2.6420265507966065: 1, 2.641991081474256: 1, 2.640220933169034: 1, 2.6394922584964813: 1, 2.6374573104187427: 1, 2.6368444090145484: 1, 2.6361751341176904: 1, 2.6352772650246976: 1, 2.634614710147947: 1, 2.6334462187396204: 1, 2.6332422721874447: 1, 2.6330924930155666: 1, 2.6317100169951555: 1, 2.6305991459315003: 1, 2.629955864122087: 1, 2.628289220926337: 1, 2.6270897123076944: 1, 2.62683240504698: 1, 2.623018587235439: 1, 2.6228611571616938: 1, 2.6180039375977033: 1, 2.6180014863619894: 1, 2.617434457817582: 1, 2.6168540706760615: 1, 2.615915973660755: 1, 2.614752667224267: 1, 2.614297210663981: 1, 2.6117497092868924: 1, 2.609261689771195: 1, 2.608786620679887: 1, 2.608018182878475: 1, 2.6073004793233454: 1, 2.607143965352896: 1, 2.6067834588388847: 1, 2.605538155171806: 1, 2.6043993796233775: 1, 2.60258942144285: 1, 2.60030312644558: 1, 2.5996175287559207: 1, 2.599336078092583: 1, 2.5992877049241683: 1, 2.598634594852866: 1, 2.598424367340574: 1, 2.5975910057148597: 1, 2.5969930882719683: 1, 2.5967430721750757: 1, 2.596344227086341: 1, 2.5917244943812983: 1, 2.5911724158129172: 1, 2.587620255585841: 1, 2.5861339580744054: 1, 2.585720535907382: 1, 2.5844894287961133: 1, 2.584470929642848: 1, 2.583693028020312: 1, 2.5827451417315817: 1, 2.582279879129657: 1, 2.5799910360925167: 1, 2.577196966082311: 1, 2.5769104979145196: 1, 2.576677038619053: 1, 2.576478009763391: 1, 2.5760360754638607: 1, 2.5748772370349817: 1, 2.5744707213488534: 1, 2.573805843303188: 1, 2.573546061627036: 1, 2.5734228716382366: 1, 2.5733105059110497: 1, 2.5719653651830945: 1, 2.5709266191575955: 1, 2.5699236334106366: 1, 2.5690889442385245: 1, 2.5689215487489583: 1, 2.5670018711701226: 1, 2.5652975345869735: 1, 2.5651121243485573: 1, 2.564229679296077: 1, 2.5641541776955856: 1, 2.563751996487914: 1, 2.5614913594695428: 1, 2.5609500821772793: 1, 2.5592217523418737: 1, 2.558433853579911: 1, 2.5569950357384115: 1, 2.5568269999473867: 1, 2.556733561554325: 1, 2.5549319009540223: 1, 2.554525760450546: 1, 2.5542238596085047: 1, 2.5536538399435145: 1, 2.5536189423886566: 1, 2.5532149903053565: 1, 2.551424285723945: 1, 2.550359821905843: 1, 2.5464322751736543: 1, 2.5410734968817903: 1, 2.536311137284706: 1, 2.535508618964104: 1, 2.5354706867492047: 1, 2.5320183289441016: 1, 2.529086544326585: 1, 2.528481890825692: 1, 2.5268855544666633: 1, 2.524458945247787: 1, 2.522095717477498: 1, 2.5215007492757695: 1, 2.52109931042653: 1, 2.520516098041508: 1, 2.5200842374881907: 1, 2.5181944046092046: 1, 2.517004687365711: 1, 2.515806936445664: 1, 2.514913039387035: 1, 2.513988669384826: 1, 2.512303742763775: 1, 2.5090813196231907: 1, 2.508824255240564: 1, 2.5035906343612924: 1, 2.4983254757420745: 1, 2.4981720988521974: 1, 2.4966274657016028: 1, 2.4956358752802914: 1, 2.49289647010082: 1, 2.489747150238865: 1, 2.4876654057008856: 1, 2.484443632420669: 1, 2.4844256871686308: 1, 2.4838442737103885: 1, 2.4829055103508164: 1, 2.481298423865004: 1, 2.4790667119801957: 1, 2.478704880062934: 1, 2.478406009062103: 1, 2.4778826736405177: 1, 2.4769890890180477: 1, 2.4763176035318266: 1, 2.4761691262045247: 1, 2.4752913440554494: 1, 2.473607059693557: 1, 2.4723158021069027: 1, 2.472088439771086: 1, 2.472024619502063: 1, 2.4715191923161464: 1, 2.4696575673130536: 1, 2.4690821107113075: 1, 2.4678035686935615: 1, 2.4675382066995017: 1, 2.4669206387243756: 1, 2.4668338296085977: 1, 2.4661992975183598: 1, 2.4656281927748296: 1, 2.4650158469535906: 1, 2.464814872350089: 1, 2.464807167550018: 1, 2.463856942937053: 1, 2.463491068414749: 1, 2.460538017878287: 1, 2.4604524683395557: 1, 2.4589097130118414: 1,

2.4588070041860832: 1, 2.4577291088221593: 1, 2.4574607033584006: 1, 2.4556202802338785: 1, 2.454540255652857: 1, 2.4528158112872953: 1, 2.452273489410425: 1, 2.45194203398501: 1, 2.4514015261275586: 1, 2.4511223521982006: 1, 2.449741974425984: 1, 2.449727620738676: 1, 2.449638618599492: 1, 2.4490998809462665: 1, 2.4487346122469975: 1, 2.4485834049308077: 1, 2.447142503463097: 1, 2.4451009520664453: 1, 2.4399744690709033: 1, 2.4377460141414034: 1, 2.4369092707123152: 1, 2.4367603933023596: 1, 2.4366862215300062: 1, 2.436302565336485: 1, 2.4360976076312872: 1, 2.4355394582558647: 1, 2.4328437392761755: 1, 2.4311670287328417: 1, 2.4305959265858506: 1, 2.428211822706194: 1, 2.42768404998286: 1, 2.424572177158955: 1, 2.42383313494549: 1, 2.423683715782873: 1, 2.423190883357805: 1, 2.420906860667966: 1, 2.420849879162024: 1, 2.4199416160944334: 1, 2.4182980456947565: 1, 2.4181146822999: 1, 2.417937646321649: 1, 2.41696008296006: 1, 2.415738307255938: 1, 2.415347969337689: 1, 2.414014488749236: 1, 2.4114926517364728: 1, 2.41022398570853: 1, 2.4100885503756917: 1, 2.4092723256550532: 1, 2.405780915796914: 1, 2.4055914309638635: 1, 2.4051995289294794: 1, 2.404285663373685: 1, 2.4029738233034816: 1, 2.4022706695460934: 1, 2.401531934142522: 1, 2.4013365812434975: 1, 2.4008014661756008: 1, 2.396619813203146: 1, 2.3965342362742517: 1, 2.3934875628272927: 1, 2.3933425697395303: 1, 2.39292459896893: 1, 2.3925792368471632: 1, 2.391250116152366: 1, 2.3888397647141257: 1, 2.388167264606211: 1, 2.3875094435756496: 1, 2.387390849307041: 1, 2.3837393736110095: 1, 2.382298368141008: 1, 2.382166190099223: 1, 2.381191445021445: 1, 2.3807597810354926: 1, 2.380300906223961: 1, 2.3781152523519586: 1, 2.3764481031943947: 1, 2.3751269176468544: 1, 2.3729388084154306: 1, 2.3724780010095334: 1, 2.3721454547980767: 1, 2.3676641111222443: 1, 2.366590182745673: 1, 2.3646195960506815: 1, 2.3645576057243067: 1, 2.3627423764416955: 1, 2.361405128346962: 1, 2.3608545057527244: 1, 2.359958818416056: 1, 2.359787635912218: 1, 2.3584955143678: 1, 2.358282053351043: 1, 2.357633478274326: 1, 2.3568864984552835: 1, 2.356403251963669: 1, 2.3545455628758747: 1, 2.3525223810128537: 1, 2.3523259974141157: 1, 2.3495729522743094: 1, 2.3488262622410003: 1, 2.3487575912493375: 1, 2.3484608703530565: 1, 2.3483197326195464: 1, 2.3471687113119: 1, 2.345599472452278: 1, 2.345239519583242: 1, 2.3446896813450104: 1, 2.3404486896852177: 1, 2.3402016450959495: 1, 2.340198373636728: 1, 2.3374886847694203: 1, 2.33660993262197: 1, 2.3360925584049927: 1, 2.3358946149924757: 1, 2.332644651159373: 1, 2.3313880103972022: 1, 2.330242561758734: 1, 2.328898890362679: 1, 2.3284002067744027: 1, 2.3281540416687374: 1, 2.32774466561567017: 1, 2.3264980081496485: 1, 2.3264489109708855: 1, 2.325734506175591: 1, 2.3251712261539157: 1, 2.3243081412188937: 1, 2.3239346498234696: 1, 2.3228133314143036: 1, 2.3217687295909633: 1, 2.3214455304844: 1, 2.321254050349422: 1, 2.3196922721342905: 1, 2.3180477384773788: 1, 2.3168745173970806: 1, 2.316198481373467: 1, 2.315681705159396: 1, 2.315154220194914: 1, 2.314810235311733: 1, 2.3147563275700587: 1, 2.310791749472548: 1, 2.3106118106755846: 1, 2.310107093066725: 1, 2.3099424605354315: 1, 2.3097531014676767: 1, 2.3087553941259364: 1, 2.3078299992302624: 1, 2.30533931993859: 1, 2.3009084782985902: 1, 2.3004128405004494: 1, 2.2985439469011872: 1, 2.2982903774879895: 1, 2.298273741949934: 1, 2.2967061180055115: 1, 2.2955245868628804: 1, 2.2948777862325467: 1, 2.2943661081258173: 1, 2.2938835955334405: 1, 2.2924727919448733: 1, 2.2908143600076176: 1, 2.2904197269086093: 1, 2.289476311345471: 1, 2.289413571380464: 1, 2.287782880565338: 1, 2.2869458368630293: 1, 2.285650803627439: 1, 2.28529673818861: 1, 2.2847794143173377: 1, 2.2841723785541888: 1, 2.2838749107634464: 1, 2.2827129273978333: 1, 2.2816770500202277: 1, 2.2811496646308536: 1, 2.280068955849126: 1, 2.2792422146423945: 1, 2.278334573549988: 1, 2.278186769781393: 1, 2.2776736875013297: 1, 2.2776291543183054: 1, 2.2745956122154: 1, 2.2734458566320797: 1, 2.2726095336020844: 1, 2.271668381196242: 1, 2.26962403671926: 1, 2.2690308384294937: 1, 2.265679889864516: 1, 2.26557499552319: 1, 2.26497985247296: 1, 2.264393343407396: 1, 2.263714657175363: 1, 2.263382919436215: 1, 2.2620925666188825: 1, 2.262063316875613: 1, 2.2592285876018474: 1, 2.2589138061313707: 1, 2.256671689061873: 1, 2.256455173126996: 1, 2.256230934337376: 1, 2.2552414001987993: 1, 2.254518751072314: 1, 2.2524019994474926: 1, 2.252327337725787: 1, 2.2502296281563696: 1, 2.2500273583219923: 1, 2.2487716469571386: 1, 2.2469982748483144: 1, 2.246767368589151: 1, 2.2465608412888205: 1, 2.244848783674: 1, 2.2429214393462167: 1, 2.24525955453529: 1, 2.2448643405028545: 1, 2.244848783674: 1, 2.2429214393462167: 1, 2.241929147116358: 1, 2.2415089597399076: 1, 2.2400450764541624: 1, 2.2400157865062664: 1, 2.238627988118627: 1, 2.235703949962798: 1, 2.23541259120128: 1, 2.2340470826471877: 1, 2.233060331188182: 1, 2.2324078771203495: 1, 2.2311655020078067: 1, 2.22961820494757: 1, 2.2294901924938895: 1, 2.2289205529872884: 1, 2.2281877430232186: 1, 2.2279820199792244: 1, 2.2274947063758654: 1, 2.2274218884681685: 1, 2.227315422055755: 1, 2.2252866735579087: 1, 2.2242263842862617: 1, 2.222507366077819: 1, 2.220505975833083: 1, 2.21984217566336: 1, 2.2191808662531987: 1, 2.2182429342596546: 1, 2.2181403367045016: 1, 2.2166966784570676: 1, 2.2144963202841073: 1, 2.2142374712531816: 1, 2.2134509255471873: 1, 2.213210208834918: 1, 2.212943466772139: 1, 2.2128446581485703: 1, 2.211246637086908: 1, 2.2103952706204613: 1, 2.209875799374248: 1, 2.209851626017498: 1, 2.209283406418188: 1, 2.2092144030074823: 1, 2.208994589766045: 1, 2.208314181425824: 1, 2.2061839181276497: 1, 2.205319969204951: 1, 2.204535052279948: 1, 2.2033911753495046: 1, 2.203386961130152: 1, 2.2031408716834044: 1, 2.201721696523111: 1, 2.20143273403904: 1, 2.2001514916351645: 1, 2.2000048450985914: 1, 2.1969685793498006: 1, 2.196671782393907: 1, 2.1955751125393217: 1, 2.1936883846431363: 1, 2.1924818848962553: 1, 2.1918140695908135: 1, 2.1895469766642006: 1, 2.1850400863425494: 1, 2.1850116941577276: 1, 2.184777579296913: 1, 2.1842337616070306: 1, 2.1840758949757157: 1, 2.1836063587250565: 1, 2.1824570109663437: 1, 2.180683697231933: 1, 2.1800676048616006: 1, 2.179610239171291: 1, 2.1789586705656814: 1, 2.1780466987532714: 1, 2.1779730740083005: 1, 2.176947132299532: 1, 2.1763951400372403: 1, 2.1754155067621843: 1, 2.1711584192353817: 1, 2.1709346590796823: 1, 2.1704283237723607: 1, 2.169518276323062: 1, 2.1683790001070484: 1, 2.167050067572372: 1, 2.166939493882362: 1, 2.1665617310253205: 1, 2.166183646599343: 1, 2.1655968809550386: 1, 2.1649514256606346: 1, 2.1645290012285945: 1, 2.1630451564289612: 1, 2.1622495510706914: 1, 2.1617795029932774: 1, 2.1607758103643593: 1, 2.158092531015482: 1, 2.1578471148622262: 1, 2.1566146866121136: 1, 2.156607275375445: 1, 2.1561514578729635: 1.

2.1558699219867865: 1, 2.154839885531795: 1, 2.1540365126166616: 1, 2.152578544234039: 1, 2.1516769317968665: 1, 2.1493266463204312: 1, 2.148916865703716: 1, 2.146652865230378: 1, 2.145496758617627: 1, 2.144086831243456: 1, 2.144069117749888: 1, 2.143868485015228: 1, 2.1428781529484486: 1, 2.141618518749108: 1, 2.1403711446087095: 1, 2.140249342515784: 1, 2.1392541523322883: 1, 2.1381540708005633: 1, 2.1379056782814896: 1, 2.137867115355245: 1, 2.1375968007336956: 1, 2.1370204271950364: 1, 2.136530114811863: 1, 2.1363142598183456: 1, 2.1358008153723578: 1, 2.135092912407944: 1, 2.1348616796359288: 1, 2.1335138539525: 1, 2.133403339500409: 1, 2.1332651618362664: 1, 2.13309701558955: 1, 2.1301440364408593: 1, 2.1300253257417663: 1, 2.129906871674292: 1, 2.1295727063221097: 1, 2.129542481136417: 1, 2.127989755697787: 1, 2.127883704507644: 1, 2.127868439393918: 1, 2.127733870239883: 1, 2.123118812286113: 1, 2.1215843747524072: 1, 2.1211233754883954: 1, 2.1201951548496973: 1, 2.1198323694720735: 1, 2.11633179626893: 1, 2.115568974443842: 1, 2.1154747808357786: 1, 2.1151820653874753: 1, 2.1151545906376703: 1, 2.1148510548732156: 1, 2.1147587696332413: 1, 2.1143681944226573: 1, 2.1143219936495314: 1, 2.1134217128107555: 1, 2.11329087365217: 1, 2.111229480626053: 1, 2.110935543816466: 1, 2.108871743336226: 1, 2.1081830086503532: 1, 2.107818452999239: 1, 2.1053623871719163: 1, 2.105172459216843: 1, 2.1051383221351805: 1, 2.1040764006818993: 1, 2.10275613830993: 1, 2.101968108647844: 1, 2.1008873683814318: 1, 2.1004582985662488: 1, 2.099357514368044: 1, 2.0988049466107843: 1, 2.098736504791394: 1, 2.097889922628508: 1, 2.0954692539597826: 1, 2.094883958224087: 1, 2.094676196920739: 1, 2.092596003167346: 1, 2.092218279338926: 1, 2.0922012597911066: 1, 2.091042442117695: 1, 2.090830378355165: 1, 2.089721156097111: 1, 2.08923012660686: 1, 2.0889242151827485: 1, 2.0880372719175946: 1, 2.087868534330027: 1, 2.086908852053107: 1, 2.086107474497954: 1, 2.0858558084513854: 1, 2.084593153492401: 1, 2.083939704593751: 1, 2.0833948480980977: 1, 2.0833212249279196: 1, 2.08212059050246: 1, 2.0818118699454073: 1, 2.0804324321944563: 1, 2.0804240477809492: 1, 2.080147014102268: 1, 2.079411681718776: 1, 2.0788751892223285: 1, 2.0779293925430196: 1, 2.0765427063091106: 1, 2.076482601795758: 1, 2.0763967924455966: 1, 2.0756608500393336: 1, 2.074444660303051: 1, 2.073826578550925: 1, 2.073771819799566: 1, 2.0732138561525324: 1, 2.0722523913700415: 1, 2.0717065447742153: 1, 2.07168003592461: 1, 2.070547579166788: 1, 2.069976960001512: 1, 2.069761428501765: 1, 2.06935311455354: 1, 2.0690364546193085: 1, 2.068094814640166: 1, 2.0673751492429804: 1, 2.066216178465906: 1, 2.066105913321189: 1, 2.065919644329947: 1, 2.065752691647981: 1, 2.0656848826649252: 1, 2.0645493506570722: 1, 2.0642658345883507: 1, 2.06331087247853: 1, 2.062717924975034: 1, 2.062417131143902: 1, 2.0618782197679986: 1, 2.061689051508139: 1, 2.061598581522951: 1, 2.060973721376955: 1, 2.060892252978155: 1, 2.0607412357611947: 1, 2.060558619060743: 1, 2.060509636884208: 1, 2.058299788168586: 1, 2.058019560348121: 1, 2.0575088713190475: 1, 2.0574411078379056: 1, 2.056053051275811: 1, 2.055857194952507: 1, 2.055596592315638: 1, 2.055326846079448: 1, 2.05491007469924: 1, 2.0546903079327965: 1, 2.053481072902449: 1, 2.0533471810086894: 1, 2.0532672802262515: 1, 2.052157122239194: 1, 2.0497507966109922: 1, 2.049393014288388: 1, 2.047198149730728: 1, 2.0450089305737116: 1, 2.044077147176048: 1, 2.043812760147792: 1, 2.0414321736267977: 1, 2.0396213068477715: 1, 2.039085158294201: 1, 2.0384311732470293: 1, 2.038374712529921: 1, 2.036971564240107: 1, 2.036757133752676: 1, 2.036678787971419873: 1, 2.036608405750115: 1, 2.0364357741780794: 1, 2.0353354023899133: 1, 2.0345527416958005: 1, 2.0341904955939727: 1, 2.0340529295217933: 1, 2.033878922961007: 1, 2.032979658822964: 1, 2.0325008209432225: 1, 2.031813196217849: 1, 2.0304019707172407: 1, 2.0297778420504837: 1, 2.0295176083680233: 1, 2.0291654033088573: 1, 2.029040879299825: 1, 2.02854240710421: 1, 2.024996965732206: 1, 2.024785863135362: 1, 2.0242458894400435: 1, 2.0238930662750727: 1, 2.0235349849174775: 1, 2.022012932698806: 1, 2.0198406180139803: 1, 2.019487273377021: 1, 2.0187436637371206: 1, 2.018491587585555: 1, 2.0152648685057923: 1, 2.0149729827572904: 1, 2.014073040568757: 1, 2.0136815705666864: 1, 2.0119526980596354: 1, 2.0108813478478686: 1, 2.010853966232222: 1, 2.01055906790962: 1, 2.0104064032083744: 1, 2.0091638172304633: 1, 2.0038961634765933: 1, 2.0028331742908105: 1, 1.997405392624418: 1, 1.9973750434062456: 1, 1.9967459227431381: 1, 1.996640030976124: 1, 1.9957615314680002: 1, 1.9940329445629041: 1, 1.9936571793528015: 1, 1.9926473484751341: 1, 1.9914723727171528: 1, 1.9907999207874791: 1, 1.989938111087468: 1, 1.9898228178642043: 1, 1.9890465629797702: 1, 1.9884524309132812: 1, 1.9880395180898915: 1, 1.9877827897601148: 1, 1.9869346512305477: 1, 1.9854719889917143: 1, 1.98542131715943: 1, 1.984481916951829: 1, 1.9843040280526671: 1, 1.9838964369436876: 1, 1.9828282345098704: 1, 1.981437589002762: 1, 1.9812497668962112: 1, 1.98016262670974022: 1, 1.9789735213750528: 1, 1.9788997600450318: 1, 1.978703343149872: 1, 1.9785363604701711: 1, 1.977048674779292: 1, 1.976813615370841: 1, 1.9758993490872654: 1, 1.9745327104281614: 1, 1.972830918985899: 1, 1.9721796424284819: 1, 1.972130492200015: 1, 1.971971166395153: 1, 1.9719155725759174: 1, 1.9718320127608073: 1, 1.9700332459767604: 1, 1.9696792576203563: 1, 1.9691459177978106: 1, 1.9679972738065206: 1, 1.9673347086090824: 1, 1.96385940241454: 1, 1.9630317241430792: 1, 1.9623197334467382: 1, 1.961850002766159: 1, 1.961640622218089: 1, 1.9585125391571603: 1, 1.958427791054711: 1, 1.9583983359121786: 1, 1.955981972558146: 1, 1.9556238683016536: 1, 1.9555986003044221: 1, 1.9520011524673964: 1, 1.9519275127432956: 1, 1.9508153292947374: 1, 1.9507009855495983: 1, 1.9497324209513667: 1, 1.9494951093012154: 1, 1.949206501442075: 1, 1.9486990783672256: 1, 1.9474604497902723: 1, 1.9473892310507124: 1, 1.9458429553678314: 1, 1.9452864475481104: 1, 1.945150383539207: 1, 1.9443142623139822: 1, 1.9440144051973696: 1, 1.9436295579473768: 1, 1.9423975025450013: 1, 1.941045303813344: 1, 1.9399461232708326: 1, 1.9392905016052788: 1, 1.938861642189371: 1, 1.9384804759514802: 1, 1.937419594908731: 1, 1.9369121436954058: 1, 1.9367224504591363: 1, 1.936182142088557: 1, 1.9356520284536969: 1, 1.9353345235851729: 1, 1.9351853799819672: 1, 1.934940155282154: 1, 1.9343395637235425: 1, 1.9340943163469562: 1, 1.9337293295251632: 1, 1.9332838955730127: 1, 1.9332325592657877: 1, 1.9321967764186259: 1, 1.9313543202265062: 1, 1.9299444112525985: 1, 1.9292676969052351: 1, 1.9289984135270761: 1, 1.9274476693158846: 1, 1.9271568803165708: 1, 1.9271358385453499: 1, 1.9265642389401751: 1, 1.9265175522133404: 1, 1.9264296516506247: 1, 1.9261222293405034: 1, 1.925350088666388: 1, 1.9247836952928652: 1, 1.923873135133368: 1, 1.9227872475941175: 1.

1, 1.9219353059501947: 1, 1.9214802520167653: 1, 1.921065352250757: 1, 1.921004686646917: 1, 1.920144714068998: 1, 1.9200940944320513: 1, 1.9196476225889567: 1, 1.9192585916966574: 1, 1.9188575779958865: 1, 1.916777649338157: 1, 1.9159680347094574: 1, 1.9157348027010743: 1, 1.9144975168775027: 1, 1.9143468320435644: 1, 1.9142703820042453: 1, 1.9142268882529976: 1, 1.913211769630741: 1, 1.910421260182473: 1, 1.9102746424514203: 1, 1.9100114215838113: 1, 1.908615036835476: 1, 1.9075525473562478: 1, 1.9068870122935966: 1, 1.9067589102800937: 1, 1.9065830973091205: 1, 1.9064569756677094: 1, 1.9063377421060175: 1, 1.9054358446465345: 1, 1.904914796673023: 1, 1.9044384431088301: 1, 1.9034931849666947: 1, 1.902038945018099: 1, 1.9013096761670105: 1, 1.900145107135992: 1, 1.8987874425974007: 1, 1.8984975278876195: 1, 1.8972868458151408: 1, 1.8968963803636816: 1, 1.896875935779009: 1, 1.8956175091980838: 1, 1.8928728771759566: 1, 1.8919181441433592: 1, 1.89134383893482: 1, 1.890536644225457: 1, 1.8899889572755688: 1, 1.8866683404613966: 1, 1.8863983660353683: 1, 1.886393560182599: 1, 1.8854301093377626: 1, 1.8849766633815674: 1, 1.8848954085490721: 1, 1.8845204946146186: 1, 1.8844610419722247: 1, 1.8842035825827457: 1, 1.8794954381469893: 1, 1.8786571246802661: 1, 1.878507239330427: 1, 1.8780489140017158: 1, 1.877984107071599: 1, 1.8772294233160374: 1, 1.8751380578199286: 1, 1.8749700769577926: 1, 1.8732007850442884: 1, 1.8728050069679796: 1, 1.8719749223601618: 1, 1.8707241930368785: 1, 1.870264758795799: 1, 1.8696781434912155: 1, 1.8692068817908856: 1, 1.869184102522399: 1, 1.8690679304475821: 1, 1.868881772227822: 1, 1.8686216834135458: 1, 1.8684963049177197: 1, 1.86842086848993: 1, 1.8667637874751781: 1, 1.8661419062381919: 1, 1.8655958708087694: 1, 1.864676139638582: 1, 1.8646182163250098: 1, 1.8639560746426669: 1, 1.863665592102353: 1, 1.862628223636743: 1, 1.8626123070428142: 1, 1.8622031795883427: 1, 1.8621188037368968: 1, 1.8607872065197553: 1, 1.8589407739416246: 1, 1.857728960750349: 1, 1.8566300644934248: 1, 1.856610680054881: 1, 1.8564884517107576: 1, 1.8562932222857287: 1, 1.8561496825312755: 1, 1.854351859516195: 1, 1.853510696559083: 1, 1.8531690153351403: 1, 1.8523672751134828: 1, 1.8517210219257587: 1, 1.851280445407622: 1, 1.851260980422921: 1, 1.8506763783764146: 1, 1.8493242231940423: 1, 1.8492772530888506: 1, 1.8461988895444412: 1, 1.8461426680917425: 1, 1.845399288131855: 1, 1.845214570502343: 1, 1.8449583277619466: 1, 1.8448714266594914: 1, 1.8444271563803523: 1, 1.8443852997645147: 1, 1.8433339788010672: 1, 1.8427055861509793: 1, 1.842192913445558: 1, 1.8415912449319984: 1, 1.841296302733661: 1, 1.8407243488907388: 1, 1.840096743987161: 1, 1.8393934614810117: 1, 1.8386943519066392: 1, 1.838561486137237: 1, 1.838169309741077: 1, 1.8375462033179177: 1, 1.8374286910518425: 1, 1.8371850677322392: 1, 1.8369045562689976: 1, 1.836734039373945: 1, 1.8366812619177952: 1, 1.836023976789336: 1, 1.835530022758302: 1, 1.8351535351916504: 1, 1.8344522955737923: 1, 1.8341496886872783: 1, 1.8341439125820804: 1, 1.8333454611079012: 1, 1.8333348854652494: 1, 1.8332937061283747: 1, 1.8332247430559705: 1, 1.8327427472853688: 1, 1.8305248744758698: 1, 1.8304706023065835: 1, 1.830250582302986: 1, 1.8301678519843898: 1, 1.8301298833665383: 1, 1.826642409854022: 1, 1.8261309189543846: 1, 1.8257479225450617: 1, 1.8253270496308618: 1, 1.8245846409993882: 1, 1.8245172530866636: 1, 1.824308435362128: 1, 1.8233652202601116: 1, 1.8233367301705825: 1, 1.8227503254151871: 1, 1.8213431759511336: 1, 1.8212631677250795: 1, 1.8201213615765104: 1, 1.819889453373469: 1, 1.8192611345591767: 1, 1.8187821234437471: 1, 1.8185432991997366: 1, 1.8182811275186286: 1, 1.8179736864701364: 1, 1.8178128818007433: 1, 1.817527704446308: 1, 1.817396990718957: 1, 1.817214491848182: 1, 1.8162220500627608: 1, 1.8159767837797804: 1, 1.8143326574667051: 1, 1.8138150813228577: 1, 1.8137239854795884: 1, 1.813670108581656: 1, 1.81344095300747: 1, 1.8134242578870854: 1, 1.8132037690221035: 1, 1.8125485810805924: 1, 1.8121777400851597: 1, 1.8119437912069625: 1, 1.811250816169141: 1, 1.8106204376824382: 1, 1.8098965079449973: 1, 1.80863364160565: 1, 1.806138126907383: 1, 1.8043150861212194: 1, 1.8041066816678468: 1, 1.8040728382210625: 1, 1.802777122889977: 1, 1.8024904562723596: 1, 1.8015338490637363: 1, 1.8013435472536923: 1, 1.8000548702940287: 1, 1.7997876018796632: 1, 1.7990853258960537: 1, 1.7961637038583438: 1, 1.7959705505965733: 1, 1.795795934553633: 1, 1.7950852629665464: 1, 1.7939101128817359: 1, 1.793003762876004: 1, 1.7921806409922583: 1, 1.792008303371778: 1, 1.7919816122870014: 1, 1.7918956807046458: 1, 1.7914685415606568: 1, 1.7905884968677541: 1, 1.7905814761423542: 1, 1.7901081943642474: 1, 1.7898956100391845: 1, 1.7896126151402139: 1, 1.7889042909757347: 1, 1.7882169178854739: 1, 1.7881041070762784: 1, 1.7878590809196864: 1, 1.787697610599675: 1, 1.7868726664254238: 1, 1.7862365153906052: 1, 1.7861721764590637: 1, 1.7858305831826486: 1, 1.7856623213701848: 1, 1.785629131357115: 1, 1.7840401065638245: 1, 1.7827175574022032: 1, 1.7822552001827607: 1, 1.782061059681963: 1, 1.7817220135059288: 1, 1.7812426826298773: 1, 1.7805927586399342: 1, 1.7804708220629641: 1, 1.780342989156824: 1, 1.780301212538898: 1, 1.7798495947095783: 1, 1.7796360172677592: 1, 1.7793483186856136: 1, 1.7777702655639864: 1, 1.777409523639064: 1, 1.7769464101968553: 1, 1.7764616592178397: 1, 1.7761932111529481: 1, 1.7756890498849347: 1, 1.7749901780085275: 1, 1.7742143978954772: 1, 1.774049937657236: 1, 1.7737316810128665: 1, 1.7734224456474645: 1, 1.7727768418137746: 1, 1.7725704090680894: 1, 1.7724116219876895: 1, 1.7723292251925808: 1, 1.7720894791988009: 1, 1.7720043336458646: 1, 1.7694645615804865: 1, 1.7685263163087248: 1, 1.767229377282268: 1, 1.7663490458589644: 1, 1.7660752991344988: 1, 1.7650736402421974: 1, 1.7645118896323961: 1, 1.7644351020157716: 1, 1.764305948523779: 1, 1.7636176150551883: 1, 1.7630584172340087: 1, 1.7630149887632853: 1, 1.76294137454581: 1, 1.7625324585152737: 1, 1.762314741298348: 1, 1.7617401265012151: 1, 1.7612228158637353: 1, 1.7610341152856432: 1, 1.7580985720243956: 1, 1.7580684143090353: 1, 1.7580542711561236: 1, 1.7579361685524486: 1, 1.7572224365593603: 1, 1.756237261720567: 1, 1.7553484051155792: 1, 1.7545309993471754: 1, 1.7541347421556126: 1, 1.7535530922092966: 1, 1.7526061336003376: 1, 1.7523167643523911: 1, 1.75210576891567: 1, 1.7506788787794734: 1, 1.7466558255482447: 1, 1.746325439117965: 1, 1.7442391340614016: 1, 1.7436828222543304: 1, 1.7435848072543865: 1, 1.7433810400539698: 1, 1.743347351883272: 1, 1.7432999021573419: 1, 1.743105396922665: 1, 1.742664786392197: 1, 1.7410210988060946: 1, 1.740400696366615: 1, 1.739766684160349: 1, 1.738417381754964: 1, 1.737804704184501: 1, 1.7375684880768798: 1, 1.7359515607669733: 1, 1.7356928039783939: 1, 1.73507429944289: 1, 1.7348025076778493: 1, 1.7347993283723826: 1, 1.7345596157952607: 1, 1.7343811589764995: 1, 1.73319241399519: 1

1. 1.7319498200742418: 1, 1.7317562783883327: 1, 1.7316304316724904: 1, 1.7314576598287472: 1, 1.7314100960658685: 1, 1.7307648179708945: 1, 1.7305823387186026: 1, 1.7277471940790936: 1, 1.727535168656007: 1, 1.7269047179632604: 1, 1.726816407786874: 1, 1.7252397549291416: 1, 1.7250340349824673: 1, 1.7248754569313678: 1, 1.7242151976276072: 1, 1.7237513474846933: 1, 1.7233759010496308: 1, 1.7233212252063157: 1, 1.7231354027465355: 1, 1.7228101477096647: 1, 1.721740890806861: 1, 1.7206632700541993: 1, 1.7199273939020618: 1, 1.7197672024605224: 1, 1.7194425607415755: 1, 1.7179237846698676: 1, 1.716400681659753: 1, 1.715367847582507: 1, 1.7153446088487307: 1, 1.715269464994764: 1, 1.7145209897607478: 1, 1.7143100136120804: 1, 1.7131412493471507: 1, 1.7131049160932366: 1, 1.712152476135376: 1, 1.711621868455627: 1, 1.7113371811635485: 1, 1.710918536374906: 1, 1.710712001912421: 1, 1.7091216474344135: 1, 1.7083461022090085: 1, 1.7082072572604086: 1, 1.7079359352404153: 1, 1.706742262598863: 1, 1.7066849013338687: 1, 1.7060019431557882: 1, 1.7059860463611896: 1, 1.7055778837015503: 1, 1.7053114474254676: 1, 1.70519839804698: 1, 1.7051405316689312: 1, 1.7050177162066535: 1, 1.7047831529197808: 1, 1.7045359037709613: 1, 1.7044900217277816: 1, 1.7044257783748369: 1, 1.704372027668232: 1, 1.70430225290934: 1, 1.7038334316364332: 1, 1.7037997499163824: 1, 1.7032644729800526: 1, 1.702361712845602: 1, 1.701360871349136: 1, 1.7009920639198273: 1, 1.7001936005513107: 1, 1.6984422769771457: 1, 1.698276008349121: 1, 1.6978703999741975: 1, 1.6967114915557147: 1, 1.6958504818629754: 1, 1.6956055778045158: 1, 1.6954396705839785: 1, 1.694417263747518: 1, 1.6942490387322147: 1, 1.6930439604321403: 1, 1.6923617495797476: 1, 1.6919704321065976: 1, 1.6914275295298375: 1, 1.6912061591747256: 1, 1.690653186949126: 1, 1.6901535408439743: 1, 1.6898038062565701: 1, 1.6895327469769557: 1, 1.689459489629548: 1, 1.6891919466327887: 1, 1.6884704451950137: 1, 1.6882597099650314: 1, 1.6881025656029915: 1, 1.6865055823805903: 1, 1.686460054866253: 1, 1.6858420642415315: 1, 1.6855108558756269: 1, 1.6852956720770316: 1, 1.684454412154072: 1, 1.6838682521106276: 1, 1.6834407737046626: 1, 1.6834180870981224: 1, 1.6820663120251438: 1, 1.6816372534111983: 1, 1.6816231778731061: 1, 1.6815562497293859: 1, 1.6813873356624924: 1, 1.6806463499695026: 1, 1.6804534956723323: 1, 1.680217397648041: 1, 1.6791953872676717: 1, 1.679093155008341: 1, 1.6789181511131708: 1, 1.678874766605477: 1, 1.678362363119782: 1, 1.67830282110963: 1, 1.6782233229687644: 1, 1.6780574110739415: 1, 1.678020379498335: 1, 1.677407357365921: 1, 1.6769096555951892: 1, 1.6762074854508877: 1, 1.6759922946669417: 1, 1.6746975389768992: 1, 1.674468163600697: 1, 1.6738254525495262: 1, 1.672474198353652: 1, 1.6724519307755659: 1, 1.6722229609520967: 1, 1.6721028429066664: 1, 1.6719469414991601: 1, 1.6712781285399367: 1, 1.6711629400426082: 1, 1.671027147152804: 1, 1.669992762720989: 1, 1.669740987027964: 1, 1.6691371528309884: 1, 1.6684202590964388: 1, 1.6675002961205292: 1, 1.665637077133527: 1, 1.6644822653660698: 1, 1.6639069139753309: 1, 1.6621674437390164: 1, 1.6608937739270009: 1, 1.660463775060586: 1, 1.6603781012485221: 1, 1.6593092443664157: 1, 1.6589031722416305: 1, 1.6587493218719322: 1, 1.6582023951691784: 1, 1.6581137702967192: 1, 1.6573418208929656: 1, 1.654913700949367: 1, 1.6544281518461337: 1, 1.654378632385737: 1, 1.6532180377510537: 1, 1.65310066726758: 1, 1.6520329378367347: 1, 1.6505128340533808: 1, 1.6500388905362267: 1, 1.649694985744454: 1, 1.6490273706910967: 1, 1.6478799938673192: 1, 1.6475478688781626: 1, 1.6445689861995547: 1, 1.644270860439028: 1, 1.6441419318337451: 1, 1.6433002644683457: 1, 1.6425639086084276: 1, 1.6393904300572049: 1, 1.638336647215633: 1, 1.6376514160585207: 1, 1.636553829739195: 1, 1.6361235579085758: 1, 1.6348723586938678: 1, 1.6341855891761152: 1, 1.6339651505927029: 1, 1.6333626443999685: 1, 1.6324652727134923: 1, 1.63236098064381: 1, 1.6310390392057859: 1, 1.6305915272799572: 1, 1.630459137897796: 1, 1.6299999522768924: 1, 1.6298804670541864: 1, 1.6297901628429718: 1, 1.6297183790746226: 1, 1.6294231051494323: 1, 1.6290654835154381: 1, 1.6289882843176737: 1, 1.6280084176422804: 1, 1.627714587737324: 1, 1.6273834496351074: 1, 1.6273695305534466: 1, 1.6273523812618973: 1, 1.6272406071704195: 1, 1.6270939881218724: 1, 1.6267055153491823: 1, 1.6264742224574913: 1, 1.6238426166103654: 1, 1.6234470213561307: 1, 1.623437972262684: 1, 1.6228755203821403: 1, 1.6225852841511508: 1, 1.6225550384787564: 1, 1.622550905916248: 1, 1.6223187137769286: 1, 1.6219729466996333: 1, 1.6204074144470657: 1, 1.620402584129259: 1, 1.620380743086347: 1, 1.6199923219076375: 1, 1.619750474727036: 1, 1.6192524024461559: 1, 1.6191206661332032: 1, 1.6178984104348497: 1, 1.617489149451727: 1, 1.6171299024157475: 1, 1.6170689604922017: 1, 1.6152384204406893: 1, 1.6150342540085256: 1, 1.61478520327468: 1, 1.61465766092431: 1, 1.6136530905263269: 1, 1.6135150156834484: 1, 1.6125099502968578: 1, 1.6123738020398255: 1, 1.6122625626311213: 1, 1.6121878459490946: 1, 1.611965932872882: 1, 1.6116681265162918: 1, 1.6109535611063335: 1, 1.6104590271717452: 1, 1.6102261833386398: 1, 1.6096601043431584: 1, 1.608840149291122: 1, 1.6084540899817195: 1, 1.6076376700300483: 1, 1.607501133443611: 1, 1.6069812684616758: 1, 1.6066319458454648: 1, 1.6066289122947806: 1, 1.6064289376505991: 1, 1.6058584286690656: 1, 1.605241288469715: 1, 1.6052329468346624: 1, 1.6049818887459948: 1, 1.6044746472909512: 1, 1.6043027562814711: 1, 1.6041096578135603: 1, 1.6031840678449794: 1, 1.6031224314245516: 1, 1.603103201750759: 1, 1.6028361907184776: 1, 1.6015016339885741: 1, 1.601233957779305: 1, 1.6001745625460917: 1, 1.599625038355824: 1, 1.5991072853408765: 1, 1.5981402689078532: 1, 1.5978892931128437: 1, 1.5969562269183244: 1, 1.5965356875517775: 1, 1.5963013124915886: 1, 1.5962597551310054: 1, 1.5946075726506161: 1, 1.5942590239021408: 1, 1.5941067557470807: 1, 1.5934869120390014: 1, 1.5926213950266295: 1, 1.5924076464025483: 1, 1.5923391092145855: 1, 1.5904082509744493: 1, 1.5887087334667682: 1, 1.5883813366733397: 1, 1.588298777056905: 1, 1.588143389276787: 1, 1.5878057636359155: 1, 1.587551826049132: 1, 1.5865858551226888: 1, 1.5864197642009938: 1, 1.586306709340724: 1, 1.5856178909883618: 1, 1.5847801572927294: 1, 1.5837236691069916: 1, 1.583695294323406: 1, 1.583582880014856: 1, 1.5829844994589286: 1, 1.579778720679005: 1, 1.5797469595838622: 1, 1.5795771595094856: 1, 1.5794141901817567: 1, 1.5791795097175279: 1, 1.579023504469901: 1, 1.5788648292970355: 1, 1.5775825850853478: 1, 1.5769154059033978: 1, 1.576767731329742: 1, 1.5765411298155039: 1, 1.576503741487129: 1, 1.5762871044466293: 1, 1.5747630009809097: 1, 1.5741684051892662: 1, 1.5733017616023655: 1, 1.5730751099878326: 1, 1.5729334669107005: 1, 1.5726753981205615: 1, 1.571920299449273: 1, 1.5715410419503695: 1, 1.57113617167110283: 1, 1.5711310118373766: 1, 1.5707018202720201: 1, 1.569681111363500005: 1

1, 1.5694137272726458: 1, 1.5691669729174946: 1, 1.5686262654369687: 1, 1.567400197011143: 1, 1.5668382773655058: 1, 1.5665642670701243: 1, 1.5665079400575757: 1, 1.56615290607739: 1, 1.5660553459160644: 1, 1.565979998441091: 1, 1.565892223781479: 1, 1.5638719312171387: 1, 1.5635419111688125: 1, 1.562699685603117: 1, 1.5626893066657106: 1, 1.5615747662958501: 1, 1.5604501347788238: 1, 1.55962166417459: 1, 1.5594279967057159: 1, 1.5585025042052494: 1, 1.558316501991127: 1, 1.557513784565237: 1, 1.5571300651081577: 1, 1.5557442438765332: 1, 1.554678420270656: 1, 1.553996695571701: 1, 1.5537102000344705: 1, 1.5536540292675103: 1, 1.553337865490402: 1, 1.5513286587945783: 1, 1.5512958439281768: 1, 1.5511157221424319: 1, 1.5496908220801346: 1, 1.5495851052819927: 1, 1.5494802952987203: 1, 1.5493836060749615: 1, 1.5492520993017518: 1, 1.5492387023446894: 1, 1.548973419443714: 1, 1.5480355907644814: 1, 1.5473867857943318: 1, 1.5470953233368738: 1, 1.5466452679592166: 1, 1.5465269435848006: 1, 1.5460966086877015: 1, 1.5456598109488504: 1, 1.5453606616891384: 1, 1.5452727282546055: 1, 1.545222699083097: 1, 1.5445942328463012: 1, 1.54433281135684: 1, 1.5439898001697827: 1, 1.5430503740468733: 1, 1.5430031532099768: 1, 1.5427735925139139: 1, 1.5426277494355751: 1, 1.5414772992265968: 1, 1.5402002358438993: 1, 1.5398447072877177: 1, 1.5393440769484654: 1, 1.537371823262328: 1, 1.5367815987110924: 1, 1.5365189809515867: 1, 1.5357807971586028: 1, 1.5355479662068978: 1, 1.5348528578414051: 1, 1.534819772068356: 1, 1.53434362222925: 1, 1.5337758216374997: 1, 1.5335332552946739: 1, 1.53336411288263: 1, 1.532650338973872: 1, 1.5313487960021088: 1, 1.529872398785102: 1, 1.5297723733421604: 1, 1.5295870865734453: 1, 1.5293093153376274: 1, 1.5287912001538546: 1, 1.5286196280407545: 1, 1.5281726676311547: 1, 1.528131077299067: 1, 1.5271632616209683: 1, 1.5270652349750193: 1, 1.5270614147092232: 1, 1.5270432970496446: 1, 1.5269233348948377: 1, 1.5269162215596346: 1, 1.5263616362967525: 1, 1.5259768496633475: 1, 1.5244918238581124: 1, 1.5231905286385368: 1, 1.522488185710959: 1, 1.5217889461930239: 1, 1.521786875101817: 1, 1.5211397894411816: 1, 1.5207864538173472: 1, 1.5204294664386717: 1, 1.5194885443551294: 1, 1.5187317323936123: 1, 1.5187034421971317: 1, 1.518602826286524: 1, 1.5183989323588387: 1, 1.5173760297811194: 1, 1.5173641460555802: 1, 1.516414580296199: 1, 1.5156416106284165: 1, 1.5153420960382114: 1, 1.5145443412891397: 1, 1.5143292935342463: 1, 1.5142761258703028: 1, 1.514272954427911: 1, 1.5136566373388531: 1, 1.513473244485213: 1, 1.5131022226676167: 1, 1.5112164195223594: 1, 1.5111749907633059: 1, 1.510056690745166: 1, 1.509342664360348: 1, 1.5087864652505063: 1, 1.5083354104996136: 1, 1.5082256399875529: 1, 1.5079080479461398: 1, 1.507288419667374: 1, 1.5061814840452894: 1, 1.5061675362845526: 1, 1.505752906266371: 1, 1.5051823399891877: 1, 1.5051428349756848: 1, 1.5046852825950108: 1, 1.5033331325494597: 1, 1.5022251248854466: 1, 1.502040526720157: 1, 1.501804491559941: 1, 1.501572892417165: 1, 1.5008607818704187: 1, 1.4995169090623153: 1, 1.498096078476314: 1, 1.4980012430269036: 1, 1.497040827395712: 1, 1.4963529701043026: 1, 1.4961262637469397: 1, 1.4960874274996754: 1, 1.4959999220418265: 1, 1.4959240567914134: 1, 1.4955728242331652: 1, 1.4953350944259998: 1, 1.4947839638729945: 1, 1.494176386127232: 1, 1.4932696735187356: 1, 1.4932562532521396: 1, 1.4929897879970442: 1, 1.4929194848646126: 1, 1.4929027840047524: 1, 1.4919437347904865: 1, 1.4918847517802272: 1, 1.4912997784057513: 1, 1.4909013555550903: 1, 1.490634101197902: 1, 1.490178961761264: 1, 1.4894247681176256: 1, 1.4886011349283168: 1, 1.488362505501771: 1, 1.4875812060694817: 1, 1.487245433666419: 1, 1.4865892962497294: 1, 1.4865306235821019: 1, 1.485495357386088: 1, 1.4850096846093621: 1, 1.4847735352966864: 1, 1.4846250592110533: 1, 1.4844599088836636: 1, 1.4840350482192006: 1, 1.4839097042272156: 1, 1.4836717999352897: 1, 1.4832928413240383: 1, 1.483129623248583: 1, 1.4823051675921652: 1, 1.4821769120875377: 1, 1.481847162177314: 1, 1.4814800597614022: 1, 1.4809200756018757: 1, 1.4808525043390677: 1, 1.4808442988059087: 1, 1.47999555569191237: 1, 1.4799328900381652: 1, 1.4797813966191502: 1, 1.4794124334467087: 1, 1.4793302454654347: 1, 1.4788968620425478: 1, 1.4787229584770567: 1, 1.4782364212721886: 1, 1.4782074988855594: 1, 1.4775822227135016: 1, 1.477524953338655: 1, 1.476415878220089: 1, 1.4757910896035211: 1, 1.4755673498267117: 1, 1.4753801684481465: 1, 1.4752586883627694: 1, 1.4745826075516562: 1, 1.4743387644363481: 1, 1.4735421084511904: 1, 1.473409437300402: 1, 1.4729187728425788: 1, 1.4727733595445047: 1, 1.4727569288096212: 1, 1.4725210660456092: 1, 1.4724370862558454: 1, 1.4722489855480239: 1, 1.4720729637162977: 1, 1.4712003552768562: 1, 1.4708516668777702: 1, 1.4699966848593475: 1, 1.4694053613821028: 1, 1.4693263186092607: 1, 1.4684762853926343: 1, 1.4682003990938692: 1, 1.467832593975552: 1, 1.4675126861791836: 1, 1.4665484404498066: 1, 1.465490959706367: 1, 1.46534882358284: 1, 1.4643766331757524: 1, 1.464369992425413: 1, 1.4633515620837507: 1, 1.4632846941488933: 1, 1.4631661146004031: 1, 1.4617718075681587: 1, 1.4609403813815514: 1, 1.4608459763156547: 1, 1.4606653089549142: 1, 1.460272372806849: 1, 1.4601091628239906: 1, 1.4600692067260166: 1, 1.4597953487285633: 1, 1.4583507783734286: 1, 1.4583104667400488: 1, 1.4581856960006527: 1, 1.4581002256468552: 1, 1.4580542543450885: 1, 1.4580183145871706: 1, 1.4580123730044399: 1, 1.4579717801769543: 1, 1.457783945586381: 1, 1.4573812109042463: 1, 1.4570067398439939: 1, 1.4569522366563814: 1, 1.4566313758356353: 1, 1.4563874694540062: 1, 1.4562416799615447: 1, 1.4557875480202238: 1, 1.4556940923781596: 1, 1.4556072765698203: 1, 1.4552324203974505: 1, 1.4546536549462195: 1, 1.4540725120823632: 1, 1.4539434329736125: 1, 1.4533850710906875: 1, 1.453308890109826: 1, 1.4526053615013395: 1, 1.4525422251386082: 1, 1.4522160810852807: 1, 1.4514106623962397: 1, 1.450412372483248: 1, 1.4503962658320886: 1, 1.4491230489418783: 1, 1.4490819569184523: 1, 1.4483492063108678: 1, 1.448001048619603: 1, 1.4476973696854658: 1, 1.4476961731015858: 1, 1.4474215452692045: 1, 1.4467212613692848: 1, 1.4459094834926316: 1, 1.445739850440621: 1, 1.4454089439715585: 1, 1.4452781700656439: 1, 1.445122864012716: 1, 1.44488398028971: 1, 1.4447819051210726: 1, 1.4441496903589668: 1, 1.4440505831146417: 1, 1.4435987345007308: 1, 1.4431040573640068: 1, 1.4427649920933132: 1, 1.4412691812985734: 1, 1.440236983285411: 1, 1.4395245709028768: 1, 1.43855751643331: 1, 1.4379277907832224: 1, 1.4371225635039024: 1, 1.4365099401895345: 1, 1.4364403026440342: 1, 1.4362820490457795: 1, 1.4357055334794724: 1, 1.435686733625181: 1, 1.4356741241574662: 1, 1.4347337018748718: 1, 1.4336784966473535: 1, 1.4335023948160157: 1, 1.433214077167489: 1, 1.4327138620232962: 1, 1.432679721114309: 1, 1.431605210371515: 1, 1.4315006161000432: 1, 1.4307717220212255: 1, 1.43017602725006275: 1, 1.43017602657024570: 1

1.45150000101090450: 1, 1.4501/1/220512500: 1, 1.4501/92/2300002/0: 1, 1.4294/0900/0040/0: 1,
1.4289617263560854: 1, 1.4285977553541143: 1, 1.428534381050434: 1, 1.4285305626870217: 1,
1.42814540049215: 1, 1.4277514614824076: 1, 1.4275540646589537: 1, 1.4271822931667226: 1,
1.426910755703546: 1, 1.4264329577107264: 1, 1.4260081791882409: 1, 1.4257561038363376: 1,
1.4251143651842197: 1, 1.42480936574423: 1, 1.424532086618686: 1, 1.424276041152622: 1,
1.4233805376677702: 1, 1.4233493685381446: 1, 1.423339951829175: 1, 1.4226718999052395: 1,
1.422613872275276: 1, 1.4224612744284133: 1, 1.4224523276532697: 1, 1.4222377122740462: 1,
1.4218182358486322: 1, 1.4217857190758896: 1, 1.4212909993823226: 1, 1.4212617696118075: 1,
1.4208926221671283: 1, 1.4207666429465673: 1, 1.42050278974807: 1, 1.4199589519771225: 1,
1.4199267812349046: 1, 1.418397308998814: 1, 1.4183924280872877: 1, 1.4182703365716163: 1,
1.4182358667060253: 1, 1.4177572077218699: 1, 1.417702320530867: 1, 1.4176436101926966: 1,
1.4175322877631351: 1, 1.4173366287577955: 1, 1.4170508950771634: 1, 1.4169639743987381: 1,
1.4163966570499635: 1, 1.415634246016398: 1, 1.415393373873838: 1, 1.4150645247410008: 1,
1.4148700244789054: 1, 1.4147795249653083: 1, 1.4147209817185604: 1, 1.414679887004117: 1,
1.4146748875720967: 1, 1.4145682927484675: 1, 1.4139988492902624: 1, 1.4136606127148401: 1,
1.4135435221505157: 1, 1.4134298862738541: 1, 1.4134127505086103: 1, 1.413128106668318: 1,
1.412499803860032: 1, 1.41116433476888308: 1, 1.4110441694328406: 1, 1.4109590555483627: 1,
1.4100649801761878: 1, 1.4097807913721556: 1, 1.409767540939298: 1, 1.4092706707524714: 1,
1.4077157193955658: 1, 1.4067105912786493: 1, 1.406533979250808: 1, 1.4064840723928593: 1,
1.406418535128741: 1, 1.4060749157149517: 1, 1.4059261306756137: 1, 1.4052147719096786: 1,
1.4049693498033664: 1, 1.4041800813333742: 1, 1.4041290417250802: 1, 1.4034341206240744: 1,
1.403350871706527: 1, 1.4032303577292853: 1, 1.4031027985216145: 1, 1.4023505161043341: 1,
1.4021672319693648: 1, 1.4016823445367252: 1, 1.4007365463556007: 1, 1.4000718445505678: 1,
1.3996786028110335: 1, 1.3993663477360936: 1, 1.3983968863542644: 1, 1.3964171022956366: 1,
1.3963342850453537: 1, 1.3957490330635205: 1, 1.3957116914849166: 1, 1.395633426176496: 1,
1.395013397488344: 1, 1.3949900817735734: 1, 1.3949581919182656: 1, 1.3939947806155857: 1,
1.393844066279866: 1, 1.3933131327564034: 1, 1.3928871253026356: 1, 1.3922835597833418: 1,
1.3920586081727473: 1, 1.3914598597280188: 1, 1.390848434806066: 1, 1.3903920331181467: 1,
1.3903015494615225: 1, 1.3896698129854423: 1, 1.3893149337372848: 1, 1.3892212286787955: 1,
1.388691337216141: 1, 1.3880197765737528: 1, 1.3879035148470809: 1, 1.3870141520479538: 1,
1.3868724425776415: 1, 1.3859774359620984: 1, 1.385903199732085: 1, 1.385825724801495: 1,
1.3857212968114758: 1, 1.3853278829881945: 1, 1.3831806186919442: 1, 1.3812047481462366: 1,
1.3790176294567305: 1, 1.3783000229756441: 1, 1.377253597988145: 1, 1.3757405829211045: 1,
1.3756212526230231: 1, 1.3750961762889122: 1, 1.375085657406888: 1, 1.374819876420657: 1,
1.3747104968628008: 1, 1.3745395660628823: 1, 1.3742971114011306: 1, 1.3738498655563822: 1,
1.3732031196733714: 1, 1.372560055526216: 1, 1.3712068566329283: 1, 1.3710151285915744: 1,
1.370700370766009: 1, 1.370653026950146: 1, 1.3703591464358602: 1, 1.37035009669908: 1,
1.3702459506116091: 1, 1.3701272834248928: 1, 1.3699500244850917: 1, 1.3698883821246772: 1,
1.3698431168635359: 1, 1.3695826853277238: 1, 1.3689334034699596: 1, 1.3675929140626706: 1,
1.3674623151100795: 1, 1.367060291916316454: 1, 1.3660955188463688: 1, 1.366050552896982: 1,
1.3648500350721138: 1, 1.3648426260137279: 1, 1.3647474762967402: 1, 1.364532303871279: 1,
1.3645213757097723: 1, 1.36416579822669: 1, 1.3619928493883526: 1, 1.361069654447394: 1,
1.3601159413370625: 1, 1.359486721564595: 1, 1.3592313068779738: 1, 1.358909306208345: 1,
1.3586112060392141: 1, 1.3584488063439577: 1, 1.3582651206429581: 1, 1.3578462735556531: 1,
1.3573237585327078: 1, 1.3566460805781: 1, 1.356640269187776: 1, 1.3566233611838796: 1,
1.3565478177612142: 1, 1.356520738971828: 1, 1.3562203878314556: 1, 1.3561509165043686: 1,
1.3560932276113227: 1, 1.3554755035195702: 1, 1.3553289098490053: 1, 1.3552270043893535: 1,
1.3545742508492544: 1, 1.3544524535929978: 1, 1.3542054478582763: 1, 1.354055423527869: 1,
1.3533897492386253: 1, 1.3517455004383183: 1, 1.3512548256089438: 1, 1.3503851368044144: 1,
1.349979798983317: 1, 1.3496243521668352: 1, 1.349003181905076: 1, 1.3482513013113733: 1,
1.3479554670033635: 1, 1.3477564362615224: 1, 1.3475376790532256: 1, 1.3472407307884158: 1,
1.3468879649510033: 1, 1.3459712416302982: 1, 1.3457404748452326: 1, 1.3456311519914959: 1,
1.3454751602646986: 1, 1.3437460967241688: 1, 1.3426585925911085: 1, 1.3425523326666307: 1,
1.342162532186421: 1, 1.342031658525051: 1, 1.3418310582225708: 1, 1.3418030819222877: 1,
1.3416205453640617: 1, 1.341414694296333: 1, 1.3413500911512088: 1, 1.3413164054251356: 1,
1.3409562495499505: 1, 1.3407055115089273: 1, 1.340413645658396: 1, 1.3403777019942287: 1,
1.3398361987129093: 1, 1.3394929331328407: 1, 1.339433091009097: 1, 1.339176856308709: 1,
1.3389074955524105: 1, 1.3382550684418717: 1, 1.3381265212754823: 1, 1.337999616997109: 1,
1.337449232631853: 1, 1.3374055643976246: 1, 1.336450346071222: 1, 1.3362159226001804: 1,
1.3353491764447485: 1, 1.334895050861158: 1, 1.334741210093198: 1, 1.3345666643953: 1,
1.3340446267876724: 1, 1.333955888082905: 1, 1.333863906367822: 1, 1.3328612883759574: 1,
1.3321464949802662: 1, 1.3317441910352923: 1, 1.3316053227244447: 1, 1.3314104255693384: 1,
1.3291059388751012: 1, 1.3290110704205107: 1, 1.3289655138258618: 1, 1.3289152172797236: 1,
1.3287394750926145: 1, 1.3285192495124372: 1, 1.3275409039511994: 1, 1.3274170450645886: 1,
1.3271281538232715: 1, 1.3267716681957402: 1, 1.3265271909920926: 1, 1.3264612074843987: 1,
1.3262423162303871: 1, 1.3261724446942826: 1, 1.3257126032468265: 1, 1.3249456895017284: 1,
1.3248243803857565: 1, 1.3246754629857769: 1, 1.3242653891572722: 1, 1.3238861113620488: 1,
1.3235337149649586: 1, 1.3231011229504042: 1, 1.3229680115534435: 1, 1.3227431721250638: 1,
1.3216643035476958: 1, 1.3213994611261057: 1, 1.3213828814263266: 1, 1.321113937653545: 1,
1.320574933154341: 1, 1.3202802918522054: 1, 1.3201983227743916: 1, 1.3199857455083877: 1,
1.3193424896590276: 1, 1.3185792655867128: 1, 1.318264275552986: 1, 1.317269603769885: 1,
1.3172463494066657: 1, 1.3161045722107176: 1, 1.3158969395920852: 1, 1.3156181512962506: 1,
1.3151914721854328: 1, 1.3150042702964542: 1, 1.3146969594008218: 1, 1.3143682079698602: 1,
1.3137697269316564: 1, 1.3137111083102921: 1, 1.313568135115769: 1, 1.3123784857421776: 1,
1.3121211017480097: 1, 1.3119791854577634: 1, 1.3119160020386498: 1, 1.311543094560873: 1,
1.311407990799667: 1, 1.3113251098479908: 1, 1.311315849622193: 1, 1.3109753596189018: 1,
1.3108174128821346: 1, 1.3100486598414673: 1, 1.3098755550928585: 1, 1.3093377306287608: 1,
1.3007500000000000: 1, 1.3007220400000000: 1, 1.3005570000000000: 1, 1.3002260000000000: 1

1.20169586151636/3: 1, 1.20139442963420/8: 1, 1.2008829112932424: 1, 1.2002619589589243: 1,
1.2000907714119504: 1, 1.1998056859115254: 1, 1.19979090342303: 1, 1.1985303183623122: 1,
1.1979853418806732: 1, 1.1974468773829652: 1, 1.1973482803301665: 1, 1.1972132891922154: 1,
1.1968407270887722: 1, 1.1963191421431822: 1, 1.196219883371793: 1, 1.1961083098085394: 1,
1.1953279855689496: 1, 1.1948922712446475: 1, 1.1944906801011912: 1, 1.194483252142622: 1,
1.1944135237724627: 1, 1.1938814005597327: 1, 1.1935954696191418: 1, 1.1933694458341257: 1,
1.1930650333580461: 1, 1.192877824370718: 1, 1.192666423927796: 1, 1.1916153393718105: 1,
1.191572812608876: 1, 1.191510458674654: 1, 1.191132000166294: 1, 1.1907970280348132: 1,
1.1907849903320482: 1, 1.1899245132819198: 1, 1.1898935062614964: 1, 1.1898921110074225: 1,
1.1897947148020227: 1, 1.1896357032360503: 1, 1.189458500838273: 1, 1.1894486189215907: 1,
1.1888271516089166: 1, 1.188754591540493: 1, 1.188435397201947: 1, 1.1883349147329216: 1,
1.188137456599545: 1, 1.1877501509571513: 1, 1.1876525910830271: 1, 1.1873730940959677: 1,
1.1872461967477679: 1, 1.1871385140211965: 1, 1.1861768421979473: 1, 1.186116550978382: 1,
1.1859315157366128: 1, 1.1859104756596843: 1, 1.1849123398371304: 1, 1.1843512517051673: 1,
1.1842495040209156: 1, 1.1840446563595417: 1, 1.183976278587018: 1, 1.183275827388268: 1,
1.18323397726417: 1, 1.1831333640496842: 1, 1.182757230258162: 1, 1.1826556899918172: 1,
1.1826026771942686: 1, 1.1817919821711784: 1, 1.1809391778462588: 1, 1.1808373544677497: 1,
1.1805347270232271: 1, 1.1803420843092156: 1, 1.1799717617826906: 1, 1.1799071197986526: 1,
1.1798598581143718: 1, 1.179772579670808: 1, 1.1794112505493892: 1, 1.1788680500285573: 1,
1.178793409382338: 1, 1.1784089325416829: 1, 1.178359968272686: 1, 1.1782211275664198: 1,
1.1780794696277486: 1, 1.1773688023818067: 1, 1.1772085207391059: 1, 1.1768366133593824: 1,
1.1766323512368402: 1, 1.1764585187282814: 1, 1.176298898784444: 1, 1.1759838081872789: 1,
1.1756693198309018: 1, 1.1754182967746094: 1, 1.1749216794592006: 1, 1.174228170388928: 1,
1.172757854803236: 1, 1.1722643611488892: 1, 1.1716650341283599: 1, 1.1710393006973872: 1,
1.1707099596579567: 1, 1.1706832800040423: 1, 1.1706705360806897: 1, 1.1706379348578104: 1,
1.1705754121071792: 1, 1.17039606672145: 1, 1.170090870156186: 1, 1.1700558284624938: 1,
1.1700449454317803: 1, 1.1696567642495554: 1, 1.169468880821712: 1, 1.1687537174557012: 1,
1.1686630747771636: 1, 1.1684617763752025: 1, 1.1682650075955743: 1, 1.1679833617660031: 1,
1.167473696920281: 1, 1.1670578693920945: 1, 1.1670316740409004: 1, 1.1669462599684204: 1,
1.1668826053278538: 1, 1.1666810814078783: 1, 1.1664121048272014: 1, 1.166004929705021: 1,
1.1658284976618958: 1, 1.1654086517530533: 1, 1.1644797579677202: 1, 1.164097020266983: 1,
1.16396610733579: 1, 1.1636024874337467: 1, 1.1626650606528097: 1, 1.1622084804585238: 1,
1.1619347162691682: 1, 1.1612540445768353: 1, 1.1611884056624822: 1, 1.1598313245489051: 1,
1.1592214033882846: 1, 1.1591735883988474: 1, 1.1587923509896092: 1, 1.15860183152908: 1,
1.1585549994653574: 1, 1.1584883569782711: 1, 1.1582594622151603: 1, 1.1575469508842005: 1,
1.157445661464171: 1, 1.1573722850510093: 1, 1.1568386459191482: 1, 1.1568080360714819: 1,
1.1559244943599079: 1, 1.1547281162660665: 1, 1.1535249136912127: 1, 1.1531544192424725: 1,
1.153073382718236: 1, 1.1530276689754582: 1, 1.152887268216757: 1, 1.1525693986483203: 1,
1.1524857975233478: 1, 1.1522151685106983: 1, 1.1521849304079073: 1, 1.1520550888235388: 1,
1.1519490564719168: 1, 1.1517075314607192: 1, 1.151649209918782: 1, 1.1509656958437275: 1,
1.1504455311677464: 1, 1.150094771585423: 1, 1.1500572421361481: 1, 1.1498572633550201: 1,
1.1489094939114526: 1, 1.1486951489036423: 1, 1.1481090623672883: 1, 1.1479653597115909: 1,
1.1476991393334555: 1, 1.1474109399474743: 1, 1.1471611661003407: 1, 1.1470506557918752: 1,
1.1465548687386866: 1, 1.1464884969424456: 1, 1.1464871182990133: 1, 1.1463077319168622: 1,
1.146058648370211: 1, 1.145935909497902: 1, 1.1452898555775022: 1, 1.1452569859210149: 1,
1.1452430091701407: 1, 1.1450886583044833: 1, 1.145080479604344: 1, 1.1446697471299063: 1,
1.144283591523552: 1, 1.1442365229568061: 1, 1.1429614283248957: 1, 1.1428745139034262: 1,
1.1427689469840199: 1, 1.1426614823134582: 1, 1.142660290418305: 1, 1.1422730825426943: 1,
1.1420804601371417: 1, 1.141486888831624: 1, 1.1407037738613997: 1, 1.1406787236977178: 1,
1.1404176974001703: 1, 1.1401811501982368: 1, 1.140163289815511: 1, 1.1401196817632386: 1,
1.1398620395531058: 1, 1.1397966992021942: 1, 1.13941347488994: 1, 1.1390311944467253: 1,
1.1388856090842736: 1, 1.1386369914509376: 1, 1.1380416239374778: 1, 1.137896730429408: 1,
1.1374609285784774: 1, 1.1374320169481238: 1, 1.137399509332197: 1, 1.1369073703475951: 1,
1.1368778934387125: 1, 1.1368267365312124: 1, 1.1363682994222541: 1, 1.1354726329176776: 1,
1.134931897420254: 1, 1.1342342491249617: 1, 1.1342290114037745: 1, 1.1340402154922375: 1,
1.1339299131189604: 1, 1.1331254166090892: 1, 1.1331225887523337: 1, 1.1314590017123054: 1,
1.1312711967027715: 1, 1.1310624392250916: 1, 1.1306676969002118: 1, 1.1303430134890458: 1,
1.1300235022342278: 1, 1.1299058293593403: 1, 1.1291383656669818: 1, 1.1291049439814644: 1,
1.1286419277549062: 1, 1.127674622621152: 1, 1.1276304233835173: 1, 1.1270761868965913: 1,
1.1268636623111787: 1, 1.126554406034046: 1, 1.1264884021173478: 1, 1.1262975511798483: 1,
1.125869947442468: 1, 1.125611801733308: 1, 1.1253762804638368: 1, 1.1251796993722134: 1,
1.1249393965188514: 1, 1.123811861806668: 1, 1.1237130818394834: 1, 1.1237069316097372: 1,
1.123561570444476: 1, 1.1234685684253942: 1, 1.1232577864028215: 1, 1.1223690075925465: 1,
1.12197346522498: 1, 1.1218644071972408: 1, 1.1217146671555376: 1, 1.1214910346510862: 1,
1.121313668427206: 1, 1.1204971341262395: 1, 1.1204290119609297: 1, 1.1202050248532478: 1,
1.1198632890936093: 1, 1.1195714991178747: 1, 1.1193301022902782: 1, 1.1185369314116609: 1,
1.1182699892831989: 1, 1.1181958364294662: 1, 1.1181592763520516: 1, 1.1181421971891392: 1,
1.1173532715361476: 1, 1.117260862193548: 1, 1.116460206109265: 1, 1.1164139095273475: 1,
1.116391720375285: 1, 1.1160516430127527: 1, 1.1157418585037004: 1, 1.1155654472780154: 1,
1.1148417625625153: 1, 1.1147627814101686: 1, 1.1145271153644034: 1, 1.1144681390443305: 1,
1.1142988045752535: 1, 1.1142925163352428: 1, 1.1140816295540157: 1, 1.1139669947098634: 1,
1.113481503935683: 1, 1.113278300232762: 1, 1.112923946965564: 1, 1.1128194268743912: 1,
1.111821056049556: 1, 1.1117406972692037: 1, 1.111583570987857: 1, 1.1113361161454223: 1,
1.110355318222297: 1, 1.1101321918217741: 1, 1.1099841265644808: 1, 1.1098639679667324: 1,
1.1096659661798776: 1, 1.1095576482274403: 1, 1.1094409129422778: 1, 1.109440600351926: 1,
1.109131504077583: 1, 1.1090254119705574: 1, 1.1083503536756112: 1, 1.1082576349314177: 1,
1.1081041625424182: 1, 1.107762944213331: 1, 1.1076463434937776: 1, 1.1071816311995428: 1,

1.1071749494828824: 1, 1.106281843094943: 1, 1.106045972881457: 1, 1.106000388493686: 1, 1.105983469459596: 1, 1.1055506737949596: 1, 1.1054626098776146: 1, 1.10536530749277: 1, 1.1052089796127436: 1, 1.1051403806821918: 1, 1.105096033265254: 1, 1.1050028973905839: 1, 1.1044396578379534: 1, 1.1041764959062998: 1, 1.104137290280741: 1, 1.1041327479501228: 1, 1.1035065060228437: 1, 1.1028738754899632: 1, 1.1027404324912957: 1, 1.1024536982886728: 1, 1.102448518712115: 1, 1.1022531801670639: 1, 1.1022254902415733: 1, 1.1019281954933142: 1, 1.1019207903095332: 1, 1.1012122624827: 1, 1.1007304228265284: 1, 1.1005798464855157: 1, 1.100462366032388: 1, 1.1001360251302565: 1, 1.0998013620886444: 1, 1.099733741336829: 1, 1.099556710256785: 1, 1.0995073728851779: 1, 1.0994099575180518: 1, 1.0992124612191492: 1, 1.098836863985164: 1, 1.0987564498165987: 1, 1.0983102551410366: 1, 1.0979052088100658: 1, 1.09771380620767: 1, 1.0974161972633556: 1, 1.097135878030609: 1, 1.0969779039801517: 1, 1.096409853571557: 1, 1.0960324691993346: 1, 1.095568451379593: 1, 1.0952410342890615: 1, 1.0947357351115619: 1, 1.0946943171702637: 1, 1.094475125392052: 1, 1.0942297359688837: 1, 1.093658866381323: 1, 1.093014393780361: 1, 1.0927766696496108: 1, 1.092718053145756: 1, 1.0923874637856017: 1, 1.0920777971647937: 1, 1.0916508739696438: 1, 1.0916222411509273: 1, 1.0908277548175436: 1, 1.090289791431611: 1, 1.090030818333158: 1, 1.088349175954131: 1, 1.0882590604260935: 1, 1.0882175186133687: 1, 1.0876833478461838: 1, 1.0876270882295258: 1, 1.0873160276385865: 1, 1.087059773863018: 1, 1.0868390811537467: 1, 1.0868201128020307: 1, 1.0866700459469116: 1, 1.0864385470820694: 1, 1.0862284467510832: 1, 1.0857006443494892: 1, 1.0844769016479943: 1, 1.0840626007789835: 1, 1.0840275427139132: 1, 1.0838476408696758: 1, 1.083741040283671: 1, 1.0836011852249972: 1, 1.0835487851520516: 1, 1.0833688529971217: 1, 1.083014859942118: 1, 1.0824920800540876: 1, 1.0823197125209942: 1, 1.0819903025302953: 1, 1.0818014392135846: 1, 1.081484853689472: 1, 1.0810640280737613: 1, 1.0805221495509931: 1, 1.0804758599503859: 1, 1.0803210656416462: 1, 1.0795349034080046: 1, 1.079154976940351: 1, 1.0789905261478523: 1, 1.0787911472075395: 1, 1.0787874398222475: 1, 1.078477189238918: 1, 1.0783597745472702: 1, 1.078316078084019: 1, 1.0783114907619218: 1, 1.077779628561338: 1, 1.077516094260529: 1, 1.077003062431866: 1, 1.0767331206821527: 1, 1.0762723807600347: 1, 1.0761455284269479: 1, 1.0752771660655362: 1, 1.07500706182329064: 1, 1.0750077056879035: 1, 1.0748099849843331: 1, 1.0746529484642022: 1, 1.0744682906933398: 1, 1.0744193487417824: 1, 1.0737688812765873: 1, 1.0735504863885015: 1, 1.0734956793611872: 1, 1.0733384565822757: 1, 1.0727473787458681: 1, 1.072169300402865: 1, 1.0720341790801564: 1, 1.071584683862922: 1, 1.0711851213221715: 1, 1.0711527445768099: 1, 1.0705856275473387: 1, 1.0705048203419651: 1, 1.070089682210415: 1, 1.0696810328306712: 1, 1.0694637358772412: 1, 1.06901388773019: 1, 1.069006663966687: 1, 1.068277781954673: 1, 1.0681435818475558: 1, 1.0677252758595956: 1, 1.0666208236641848: 1, 1.0659938327507075: 1, 1.065803170553617: 1, 1.065753254178471: 1, 1.0651985599531009: 1, 1.0651943123599867: 1, 1.0647056888313906: 1, 1.0645638175308454: 1, 1.063374935605193: 1, 1.0632908360170699: 1, 1.0632893317619958: 1, 1.0629559468571534: 1, 1.0627900722271306: 1, 1.062521634028485: 1, 1.0625128979436627: 1, 1.0624185241805069: 1, 1.0612840236882193: 1, 1.0606557020675575: 1, 1.0602040398974872: 1, 1.05988542901616: 1, 1.0595775393595424: 1, 1.059176231664901: 1, 1.0588323810440243: 1, 1.0586951594009901: 1, 1.0586650476862118: 1, 1.0582656914836464: 1, 1.0576822719821881: 1, 1.057245858645112: 1, 1.0560962980846744: 1, 1.0560882514106298: 1, 1.0559342504250995: 1, 1.0552747334287007: 1, 1.055128975839848: 1, 1.0549831024801735: 1, 1.0549047560144587: 1, 1.0547556958398534: 1, 1.0545171875912498: 1, 1.054067433777297: 1, 1.053984215798463: 1, 1.0537753070408695: 1, 1.0531399384003988: 1, 1.0527298360556343: 1, 1.0522389871332172: 1, 1.0520834564936532: 1, 1.0517387684640256: 1, 1.0511176197153396: 1, 1.0509282667924544: 1, 1.0506316532616178: 1, 1.0503963346021603: 1, 1.0502235558284752: 1, 1.0494429069249906: 1, 1.049360862657672: 1, 1.049226393309006: 1, 1.0491039464562877: 1, 1.048584643272003: 1, 1.0480751317322483: 1, 1.0479847332423986: 1, 1.0474305295489617: 1, 1.0471388113899576: 1, 1.0467954140362044: 1, 1.0464644398931087: 1, 1.0463860638958555: 1, 1.0462835170100495: 1, 1.046141893446391: 1, 1.0460829738477126: 1, 1.045905717273929: 1, 1.0459004032567218: 1, 1.045794749735322: 1, 1.045579526328469: 1, 1.0453367096977546: 1, 1.0452677434451165: 1, 1.0448341252800961: 1, 1.0447528758719213: 1, 1.0446599009768618: 1, 1.0446474217658217: 1, 1.0446026534434842: 1, 1.0444919523933844: 1, 1.0437707601502448: 1, 1.043732510379828: 1, 1.0433066714590695: 1, 1.0432031850399723: 1, 1.043140212582023: 1, 1.0430960535680687: 1, 1.043042276130835: 1, 1.0429808093546167: 1, 1.0425812874780933: 1, 1.042461969202796: 1, 1.0422382108021313: 1, 1.0420238361344043: 1, 1.0419135568032896: 1, 1.0418752542740861: 1, 1.0417758617539705: 1, 1.0415821094774964: 1, 1.041389525081936: 1, 1.0413872210406765: 1, 1.0411298179842594: 1, 1.0408007202599656: 1, 1.040695881334963: 1, 1.0401902901426257: 1, 1.0399982414177837: 1, 1.0396731739569984: 1, 1.0395685067998333: 1, 1.0394445020883687: 1, 1.0392683823828017: 1, 1.0391574086358417: 1, 1.039120540604806: 1, 1.0390464927965883: 1, 1.038896089283426: 1, 1.0388764597682216: 1, 1.0387120052154912: 1, 1.038648505264856: 1, 1.0385282605879533: 1, 1.0384014906392045: 1, 1.0380928504899876: 1, 1.0380799044668203: 1, 1.0377482488814898: 1, 1.037609636570626: 1, 1.0375438519369593: 1, 1.0375331982772096: 1, 1.0362727020090587: 1, 1.0361820835578983: 1, 1.036057250209153: 1, 1.035832710149142: 1, 1.0355552810663942: 1, 1.0350972637431066: 1, 1.0348213591854463: 1, 1.0347639081746234: 1, 1.0346239898817: 1, 1.0341469286821128: 1, 1.0333077774840786: 1, 1.0332297713663483: 1, 1.0329684081502672: 1, 1.032888835339159: 1, 1.0328412632930264: 1, 1.0327981051783035: 1, 1.0321930266001622: 1, 1.0320731091079494: 1, 1.0320208182518966: 1, 1.031654979199396: 1, 1.0315450157947403: 1, 1.0315353201685278: 1, 1.0315336845507934: 1, 1.0314452267638832: 1, 1.031411570140243: 1, 1.0307093653609367: 1, 1.0296536857943634: 1, 1.0296120824504476: 1, 1.0296108872835532: 1, 1.029568811783062: 1, 1.0284029135180315: 1, 1.0281878169536143: 1, 1.0277140923574075: 1, 1.026066439013442: 1, 1.0257110769339255: 1, 1.0255395028920091: 1, 1.025311850798369: 1, 1.0251755712115918: 1, 1.0251749387285716: 1, 1.0250706925503135: 1, 1.0250185185820877: 1, 1.0248102394411704: 1, 1.0246662233131332: 1, 1.0246159569416151: 1, 1.0244335619146847: 1, 1.0238708082465426: 1, 1.0238351391255462: 1, 1.0235365529833762: 1, 1.0235018123551045: 1, 1.0234765527197491: 1, 1.0234198757414965: 1, 1.0231381032210032: 1, 1.0229746404056272: 1,

1.0228589243362318: 1, 1.022740142279129: 1, 1.0223697537175387: 1, 1.0220049871156134: 1, 1.02192759233378: 1, 1.0217182728948382: 1, 1.0214461455202661: 1, 1.0212144093183402: 1, 1.0210735686419543: 1, 1.0210468252106781: 1, 1.0210435561409035: 1, 1.0210255639376395: 1, 1.0207633702522771: 1, 1.0204250289313106: 1, 1.0202191624165815: 1, 1.0199761718275433: 1, 1.0196204353001377: 1, 1.0194322414539254: 1, 1.0193424595621254: 1, 1.0192004455859125: 1, 1.0188112403894194: 1, 1.0187786224996769: 1, 1.0185991743845717: 1, 1.0181845730495107: 1, 1.018171581393811: 1, 1.0179671495260632: 1, 1.0179352046465155: 1, 1.0175627718923526: 1, 1.0175359740426801: 1, 1.0174925278037408: 1, 1.017445694586554: 1, 1.0171301696897095: 1, 1.0168399487463087: 1, 1.0164466515726425: 1, 1.0158787898248: 1, 1.015731968770863: 1, 1.0153544948525293: 1, 1.0144903335837483: 1, 1.0143499504373608: 1, 1.0143017523312268: 1, 1.0142758051258185: 1, 1.013806883628571: 1, 1.0135588539406664: 1, 1.0134139705622227: 1, 1.0129330413985285: 1, 1.0121117428757938: 1, 1.011650930165268: 1, 1.0115468342931584: 1, 1.0112118964517802: 1, 1.0111963933466028: 1, 1.0111305033604014: 1, 1.0109549935214428: 1, 1.0106251300092968: 1, 1.0106166597296906: 1, 1.0103855216489757: 1, 1.0100584114161322: 1, 1.0096847537053584: 1, 1.009085914073209: 1, 1.0088972148884736: 1, 1.0084900444271028: 1, 1.0084637266624041: 1, 1.0083001133067375: 1, 1.0079452118557057: 1, 1.0075368361197716: 1, 1.0073605850464962: 1, 1.00640949868979063: 1, 1.0063814818657018: 1, 1.0061296156966981: 1, 1.006091020862949: 1, 1.0060835273656152: 1, 1.0056029464898006: 1, 1.0048400894800646: 1, 1.0043342275390126: 1, 1.0043075863889055: 1, 1.004010358772622: 1, 1.0038119518262723: 1, 1.003711985660241: 1, 1.0035685123468037: 1, 1.0034501948330101: 1, 1.0033807662484366: 1, 1.0031964639890931: 1, 1.0028978139629992: 1, 1.0026371537884657: 1, 1.0021646944556: 1, 1.0020114899867565: 1, 1.0019872217220533: 1, 1.0017199774134868: 1, 1.0015458259341803: 1, 1.001481347340367: 1, 1.001083382743543: 1, 1.000952472416788: 1, 1.0008541522379848: 1, 1.000814297881758: 1, 1.000789767537746: 1, 1.0006918113349559: 1, 1.0004124219035184: 1, 1.000098802759871: 1, 1.0000587457918861: 1, 0.9996059636090701: 1, 0.9995674971302961: 1, 0.9983623243759868: 1, 0.998305244330117: 1, 0.9981574316487374: 1, 0.9978882019879923: 1, 0.997861974882878: 1, 0.9977754771417625: 1, 0.9977377836711029: 1, 0.9976239433956541: 1, 0.9975758886070593: 1, 0.9972042351629717: 1, 0.996797454476093: 1, 0.9966745781368386: 1, 0.9963364939206082: 1, 0.9959288717699363: 1, 0.9958140274963059: 1, 0.9957087471635679: 1, 0.9951353190214186: 1, 0.9951177980695375: 1, 0.9949687972523404: 1, 0.9949212954616955: 1, 0.9940651529574978: 1, 0.9939337931859723: 1, 0.9935582005987169: 1, 0.9933268153076554: 1, 0.9930515532598928: 1, 0.9927755559389172: 1, 0.992648942960233: 1, 0.9925120287729536: 1, 0.9922667573110053: 1, 0.9917272037374563: 1, 0.9915493318852002: 1, 0.9914675109459218: 1, 0.9912581412453986: 1, 0.9905360092890748: 1, 0.9904784297011735: 1, 0.9904170307935618: 1, 0.9904136616576569: 1, 0.9903302998639547: 1, 0.9901461517790497: 1, 0.9901326556037567: 1, 0.990038176756736: 1, 0.9898923250481013: 1, 0.9898144644342773: 1, 0.9895872421928373: 1, 0.9895478531242018: 1, 0.989425803072906: 1, 0.9892125500949576: 1, 0.9891791405974708: 1, 0.9885854305605383: 1, 0.9885202700522745: 1, 0.9882208955756575: 1, 0.9881012346741821: 1, 0.9879996413208013: 1, 0.9879590162834525: 1, 0.9879085300569762: 1, 0.9878761189795556: 1, 0.9877982200372979: 1, 0.9876035221040529: 1, 0.9872917955957332: 1, 0.9871664308733554: 1, 0.9870395900126829: 1, 0.9868161089671647: 1, 0.9868147167081088: 1, 0.985946238781788: 1, 0.9857750923599244: 1, 0.985759884109346: 1, 0.9856749715949179: 1, 0.985564956160417: 1, 0.9854688237193803: 1, 0.9854237723753271: 1, 0.9853862781539944: 1, 0.9849649566854645: 1, 0.9845979637499308: 1, 0.9844378473665524: 1, 0.9844259199223514: 1, 0.9843449823431139: 1, 0.9842590389878569: 1, 0.9837437780763164: 1, 0.9833251864579612: 1, 0.9829861576961589: 1, 0.982889053656594: 1, 0.9827530381001341: 1, 0.9823861054535817: 1, 0.9821118338371712: 1, 0.9820453775308641: 1, 0.9820360944819989: 1, 0.9818220832402627: 1, 0.98141737915799: 1, 0.9813329286348547: 1, 0.9810506179977353: 1, 0.9809738740112216: 1, 0.9808043096977882: 1, 0.9804295690919119: 1, 0.9802097073431331: 1, 0.9799965723153863: 1, 0.9799615191309442: 1, 0.9797580471925039: 1, 0.9792008981834902: 1, 0.9791055438145134: 1, 0.9790209083366301: 1, 0.9785843673289935: 1, 0.978557219868056: 1, 0.9785482205469895: 1, 0.9782327484644944: 1, 0.9781928010967783: 1, 0.9769990299899385: 1, 0.9767863290980783: 1, 0.9762312018091551: 1, 0.9757977357707174: 1, 0.9751608149397785: 1, 0.9751601318480089: 1, 0.9747020540085906: 1, 0.9746700162186891: 1, 0.9746555562089475: 1, 0.9745546682175926: 1, 0.9738756218067522: 1, 0.9738388046260837: 1, 0.9738247093265203: 1, 0.9736362131975809: 1, 0.9735097937283727: 1, 0.9733594185243806: 1, 0.973292966542085: 1, 0.9732915741286078: 1, 0.9731309735355194: 1, 0.973106143435083: 1, 0.9725506273606438: 1, 0.9721256022799875: 1, 0.9721239171301883: 1, 0.9720048609327969: 1, 0.9719878815087472: 1, 0.9719780061474329: 1, 0.9717111492234061: 1, 0.9715506772550256: 1, 0.971477338163394: 1, 0.9713286468467411: 1, 0.9713269013931173: 1, 0.9712010712578377: 1, 0.9710090948084886: 1, 0.9708057915114875: 1, 0.9700660267453143: 1, 0.9698647694999755: 1, 0.9697180419358129: 1, 0.9696898999304726: 1, 0.9692036135038087: 1, 0.9692003825498888: 1, 0.9691179415304759: 1, 0.9689725076238505: 1, 0.9689243048192131: 1, 0.9681204177410946: 1, 0.9673228081864158: 1, 0.9673118731569726: 1, 0.9673008628586641: 1, 0.966915539147607: 1, 0.9667171441551561: 1, 0.966486982469144: 1, 0.9663952963586745: 1, 0.9663706455442377: 1, 0.966358202028745: 1, 0.9662088053005753: 1, 0.966191175394962: 1, 0.9660503779355696: 1, 0.9660045044016401: 1, 0.9656395635946057: 1, 0.9652622010376652: 1, 0.9646125727689435: 1, 0.9645431074122149: 1, 0.9645028782485451: 1, 0.9644269355124339: 1, 0.9644022377201005: 1, 0.9642785588644414: 1, 0.9640613986569518: 1, 0.9639288814721292: 1, 0.9637964937524918: 1, 0.9636218329674971: 1, 0.9631975193956309: 1, 0.9630193315408889: 1, 0.9628590854143817: 1, 0.96203656292532: 1, 0.9619527868855765: 1, 0.9618226052470472: 1, 0.9614248245245032: 1, 0.9612826197962319: 1, 0.9612187770879013: 1, 0.9609289903835767: 1, 0.9608071306457557: 1, 0.9602792972917339: 1, 0.9601479261406959: 1, 0.9598464262295973: 1, 0.9597280215664045: 1, 0.9595893245881999: 1, 0.9595669413432648: 1, 0.9593329313130327: 1, 0.9590383653402773: 1, 0.9588198410483932: 1, 0.9583718992936251: 1, 0.9580288159175192: 1, 0.957958283229128: 1, 0.9578228341702275: 1, 0.9573160608502247: 1, 0.9572391980469107: 1, 0.9571898077762986: 1, 0.9571875755769931: 1, 0.9569617524153627: 1, 0.9568214790557017: 1, 0.9567896550434396: 1, 0.9565643837318285: 1, 0.9564887840207582: 1, 0.9563974785881384: 1,

0.9559308458861069: 1, 0.9556485370171227: 1, 0.9553564677880797: 1, 0.955012820359052: 1,
0.9547209229132371: 1, 0.9545872787789642: 1, 0.9545008668365538: 1, 0.9541929447869699: 1,
0.9537837038872308: 1, 0.9535518028127102: 1, 0.9533762153618907: 1, 0.9532455660135284: 1,
0.9531603640712909: 1, 0.9531586875453499: 1, 0.9530368067887546: 1, 0.9529949264949054: 1,
0.9528479206307118: 1, 0.9525520289623376: 1, 0.9524683288652607: 1, 0.9523479082674439: 1,
0.9519081609746808: 1, 0.9518541419819696: 1, 0.951453061306749: 1, 0.9511724652712933: 1,
0.9511720575754935: 1, 0.9511379780343225: 1, 0.951070832721057: 1, 0.9510456486537487: 1,
0.95039773782469: 1, 0.9499472544163308: 1, 0.9497906937324673: 1, 0.9496553649978311: 1,
0.9489920039202417: 1, 0.9484571661386556: 1, 0.9482485537725087: 1, 0.9481884722417528: 1,
0.9481800031586971: 1, 0.9480317424002458: 1, 0.9476871957530176: 1, 0.9476565883480234: 1,
0.9469418412974624: 1, 0.9469262692715631: 1, 0.9466705288145525: 1, 0.9464627033239825: 1,
0.9462794136110334: 1, 0.9461273562379944: 1, 0.9459211130745988: 1, 0.9458586451492988: 1,
0.9458551325045178: 1, 0.9456360550645652: 1, 0.9454533695269708: 1, 0.9453242063569479: 1,
0.9452641500605564: 1, 0.9451107903333689: 1, 0.9449167873370484: 1, 0.9448494011446941: 1,
0.9445240531807367: 1, 0.9445049894620575: 1, 0.9440987621170739: 1, 0.9438086961575083: 1,
0.943588513121462: 1, 0.9434025241229528: 1, 0.9433983366108711: 1, 0.943335101260305: 1,
0.9431546548632684: 1, 0.9429173278739347: 1, 0.9425514587595406: 1, 0.9416400458830115: 1,
0.940929863058689: 1, 0.9407002683250499: 1, 0.9405734616840643: 1, 0.9404899678917072: 1,
0.9404175411229868: 1, 0.9403694265201468: 1, 0.9403387984287571: 1, 0.9402431011952038: 1,
0.9399145456603489: 1, 0.9397538940934521: 1, 0.9395464334485921: 1, 0.9391555286918476: 1,
0.9390627256226565: 1, 0.9388467135972265: 1, 0.9386744374279828: 1, 0.938616807485223: 1,
0.9382278237445354: 1, 0.9379273835480603: 1, 0.9377738137178363: 1, 0.9375997916469089: 1,
0.9373938699975048: 1, 0.9373507975910848: 1, 0.9373096458924212: 1, 0.9372773700281822: 1,
0.9371320744063594: 1, 0.9368501869906668: 1, 0.9366933490845144: 1, 0.9364825934713585: 1,
0.9361787767232382: 1, 0.9361778287072123: 1, 0.935732475687758: 1, 0.9356240912473386: 1,
0.9355105504454104: 1, 0.9352386421303809: 1, 0.9350291464306905: 1, 0.934177687873788: 1,
0.9341035193915728: 1, 0.9333745305640206: 1, 0.9330167513614498: 1, 0.9325103225748171: 1,
0.9322722010742908: 1, 0.9321798457750037: 1, 0.9320555479637239: 1, 0.9318152392009731: 1,
0.9315306227391357: 1, 0.931355844055304: 1, 0.9310407764082675: 1, 0.9299844353092336: 1,
0.9298016532313764: 1, 0.9297632657420941: 1, 0.9296339143528154: 1, 0.9296028624951561: 1,
0.9295653760453074: 1, 0.9288613346100016: 1, 0.9286121598543091: 1, 0.9285074600555179: 1,
0.9284153538613179: 1, 0.9281558218040751: 1, 0.9281316680267182: 1, 0.9279981225833605: 1,
0.9278552492592479: 1, 0.927624371063767: 1, 0.9275238241983673: 1, 0.9275188175606011: 1,
0.9268905115130545: 1, 0.9265495252121652: 1, 0.9264863797768516: 1, 0.9262012813144419: 1,
0.9261562468767081: 1, 0.9257860408844686: 1, 0.9256104288513262: 1, 0.924856403735637: 1,
0.9248228627689787: 1, 0.9246415564678829: 1, 0.9245997920084706: 1, 0.924138632862328: 1,
0.9239351918244162: 1, 0.9237455199103346: 1, 0.923697408269803: 1, 0.9234905200404067: 1,
0.9234228747021042: 1, 0.9226762905340954: 1, 0.9225851503349111: 1, 0.9225676765359365: 1,
0.9216191470471788: 1, 0.9214823144489928: 1, 0.9214141997938422: 1, 0.9208135109920871: 1,
0.9208127690259622: 1, 0.9207244397561503: 1, 0.9206227931930475: 1, 0.9202596297312804: 1,
0.920131168712769: 1, 0.9198949992210727: 1, 0.9198445345394773: 1, 0.9193213281786546: 1,
0.9184122187802826: 1, 0.918285456781806: 1, 0.9181493780683085: 1, 0.9177320096986503: 1,
0.9177068615587539: 1, 0.9176751281773295: 1, 0.9176569460578268: 1, 0.9169861840850216: 1,
0.9167976433544868: 1, 0.9167047562038161: 1, 0.916514391751563: 1, 0.916308513240813: 1,
0.9162536237919136: 1, 0.9162354569412455: 1, 0.9159654547731433: 1, 0.9154881790987184: 1,
0.9151921577886356: 1, 0.9148225763048091: 1, 0.9146272692897026: 1, 0.9145597805880971: 1,
0.9142274998191406: 1, 0.9141635601045103: 1, 0.913921419634961: 1, 0.913777993282566: 1,
0.9134632398833941: 1, 0.9132887249351066: 1, 0.9126801690815104: 1, 0.912642428404583: 1,
0.9125329212527281: 1, 0.9124590992743905: 1, 0.9123981779062689: 1, 0.912286326148093: 1,
0.9117072115493523: 1, 0.91166597438217: 1, 0.9116465193491763: 1, 0.9116013948974159: 1,
0.9115342685583004: 1, 0.9114364142325235: 1, 0.9111504492776789: 1, 0.9110418917872154: 1,
0.9109841505066848: 1, 0.91070007187671: 1, 0.9105664537971146: 1, 0.9102139861762998: 1,
0.9101738231884763: 1, 0.9099770384871906: 1, 0.9097160183708948: 1, 0.9094471707476234: 1,
0.9093685285194976: 1, 0.909215648433751: 1, 0.9090168122325467: 1, 0.9088381308709824: 1,
0.9086937461525594: 1, 0.9086066706222584: 1, 0.9083411803061447: 1, 0.9082454093539513: 1,
0.9082045468710807: 1, 0.9073989996707543: 1, 0.9073357463190633: 1, 0.9072385537693748: 1,
0.9068806432161864: 1, 0.9068464709256842: 1, 0.9067083140118366: 1, 0.9065132121005168: 1,
0.90648550173928: 1, 0.9063495198524896: 1, 0.906229998209276: 1, 0.9061258759010127: 1,
0.9059027814135655: 1, 0.9057887285583457: 1, 0.905378862909252: 1, 0.9053049328776402: 1,
0.9051098347824209: 1, 0.9048878794861401: 1, 0.904795588586131: 1, 0.9046298433849853: 1,
0.9044959236995551: 1, 0.9043634250598551: 1, 0.9040890576380356: 1, 0.9039097369637716: 1,
0.9036366969279428: 1, 0.903281691326149: 1, 0.9028329491787619: 1, 0.902567375581289: 1,
0.9025376733013821: 1, 0.9025290676944363: 1, 0.9019952703206727: 1, 0.9019492706874386: 1,
0.901884322364215: 1, 0.9018468577163287: 1, 0.9017023155359265: 1, 0.9015148132449858: 1,
0.9013434211187191: 1, 0.9009351666130418: 1, 0.900658310919234: 1, 0.9006493978491947: 1,
0.9003547107256178: 1, 0.8999493629704616: 1, 0.8998204659606052: 1, 0.8997646181809369: 1,
0.8991734800395417: 1, 0.8990992969047662: 1, 0.8988406407915588: 1, 0.8987784715181119: 1,
0.8985560200908314: 1, 0.8984458869533447: 1, 0.8983783947782076: 1, 0.8983600443557781: 1,
0.8983364390368521: 1, 0.898216655352115: 1, 0.8981864531922454: 1, 0.8980543825113617: 1,
0.898024185927455: 1, 0.8979529434786788: 1, 0.8975029118029998: 1, 0.8970396398014159: 1,
0.8960773418512386: 1, 0.8958255735784967: 1, 0.8957405242058668: 1, 0.8956466981556898: 1,
0.8955977254354929: 1, 0.8951085349024299: 1, 0.8948043807973886: 1, 0.8943883010424726: 1,
0.8943873540772828: 1, 0.8943780159120149: 1, 0.8943163114158372: 1, 0.8942785255369518: 1,
0.8941136662387237: 1, 0.8932158887501545: 1, 0.8932053250715462: 1, 0.893127639660216: 1,
0.8930538527994116: 1, 0.8929092756597922: 1, 0.8928779471746389: 1, 0.8925671447385768: 1,
0.8925471212191083: 1, 0.892392925477097: 1, 0.8923663872206906: 1, 0.8923494995057712: 1,
0.8922053528286269: 1, 0.8920907469349265: 1, 0.8920095733745164: 1, 0.8915384155708457: 1,

0.8912715610679789: 1, 0.8908956437471613: 1, 0.890449954693224: 1, 0.8900007748129005: 1, 0.8898696622190198: 1, 0.889653297601085: 1, 0.8896024623858048: 1, 0.8892906675869506: 1, 0.8891341833915174: 1, 0.8891075575918692: 1, 0.8890946603129127: 1, 0.8886864134760278: 1, 0.8885779162227689: 1, 0.888329991170867: 1, 0.8882666742039795: 1, 0.8879493683008359: 1, 0.8879354532340822: 1, 0.8878815608635586: 1, 0.887877686325146: 1, 0.8875877478959922: 1, 0.8875261687046831: 1, 0.8871596070833337: 1, 0.88713828593054: 1, 0.8867892446020322: 1, 0.8860727564786873: 1, 0.8857802567836973: 1, 0.885630138043059: 1, 0.8853891160377904: 1, 0.8847196345074443: 1, 0.8839800600421892: 1, 0.8839664682830508: 1, 0.8836695715060117: 1, 0.8836325932243903: 1, 0.8835816713112941: 1, 0.8832322517632696: 1, 0.883143549975817: 1, 0.8829752256397507: 1, 0.8828283751827531: 1, 0.8825636076186614: 1, 0.882317851015338: 1, 0.8821083502830619: 1, 0.8819083598095523: 1, 0.8817971944617475: 1, 0.8816699912643629: 1, 0.8815487042116754: 1, 0.8813638766128227: 1, 0.8808411089843883: 1, 0.8801043048419988: 1, 0.8798982970257487: 1, 0.8794747786675075: 1, 0.8793987382788833: 1, 0.8793008380605748: 1, 0.8791470743614467: 1, 0.8790430336073642: 1, 0.8790335362798797: 1, 0.8786477795321113: 1, 0.8786374178167576: 1, 0.8785771140326504: 1, 0.8785324104425574: 1, 0.878315869803814: 1, 0.8781728114326558: 1, 0.8779758535387542: 1, 0.8778134318935489: 1, 0.8777947069362165: 1, 0.877757588312815: 1, 0.8776850147418903: 1, 0.8776773928261091: 1, 0.8774629831201223: 1, 0.8773416857792149: 1, 0.8773283603065931: 1, 0.8773068319124747: 1, 0.8773026725058402: 1, 0.8771301678131369: 1, 0.8768598949662046: 1, 0.876810381322005: 1, 0.8767536803142836: 1, 0.8766630663424294: 1, 0.876586333040771: 1, 0.8765683881252104: 1, 0.8764664286476564: 1, 0.8762615855598195: 1, 0.8762335315637932: 1, 0.8760859764487345: 1, 0.875613216877578: 1, 0.8755868622906251: 1, 0.8755767226736116: 1, 0.8753949678270134: 1, 0.8753105176985052: 1, 0.875062774918933: 1, 0.8750101524493344: 1, 0.8748630008109913: 1, 0.8746359818907337: 1, 0.8746275630682457: 1, 0.8743418539008856: 1, 0.8741744425166047: 1, 0.8740084226697218: 1, 0.8731907236996783: 1, 0.8727775407391271: 1, 0.8724011335571873: 1, 0.87239883456265: 1, 0.8718358567184554: 1, 0.8716051126141825: 1, 0.870863882425998: 1, 0.8707588219775841: 1, 0.87069574523139: 1, 0.8704559277806583: 1, 0.8701985067875755: 1, 0.8698883560158759: 1, 0.8695835894709133: 1, 0.8693915009907714: 1, 0.8691879378722079: 1, 0.8687130519602716: 1, 0.8684725739193521: 1, 0.8683042905140913: 1, 0.8682176871677482: 1, 0.8677201426876272: 1, 0.8675624698546276: 1, 0.8673633429047715: 1, 0.8670574763423698: 1, 0.8670152044170227: 1, 0.8665286824167175: 1, 0.8660992264344607: 1, 0.8658838361487284: 1, 0.865844243639508: 1, 0.8658402215985802: 1, 0.8652174463383319: 1, 0.8651979404942878: 1, 0.8651915060831844: 1, 0.8645453828352608: 1, 0.8644635927905688: 1, 0.8644378683759953: 1, 0.864186922711375: 1, 0.864035429724726: 1, 0.8637900351148827: 1, 0.8637898884964557: 1, 0.863780062445236: 1, 0.8637365210913015: 1, 0.863729066920086: 1, 0.8637123197922485: 1, 0.8633062178330909: 1, 0.8632791128051851: 1, 0.8631428025925428: 1, 0.8629077131462154: 1, 0.8625148007326173: 1, 0.862486692866219: 1, 0.8623000456839645: 1, 0.8622647717064578: 1, 0.8622491999128978: 1, 0.8619825319701099: 1, 0.8619490366831228: 1, 0.8618760347121532: 1, 0.8615329141808865: 1, 0.8613151954351419: 1, 0.8611411527843101: 1, 0.8609783081917214: 1, 0.8607984252906994: 1, 0.8606745425332556: 1, 0.8606440069568926: 1, 0.8606302476709833: 1, 0.8606069538624332: 1, 0.8602092888457945: 1, 0.8601189694938188: 1, 0.8599075550904989: 1, 0.8597005003934476: 1, 0.8595388466946848: 1, 0.8594941616674064: 1, 0.8593123972714147: 1, 0.8590248249733939: 1, 0.8589695375610014: 1, 0.8589607375805844: 1, 0.8589155141304469: 1, 0.8588272224877745: 1, 0.8586158164632449: 1, 0.8582849277788281: 1, 0.8579167767744643: 1, 0.8579157436715: 1, 0.8578315212544905: 1, 0.8577171093240947: 1, 0.857634732497382: 1, 0.8572848987537565: 1, 0.8572721471776211: 1, 0.8572541364695097: 1, 0.857228106480741: 1, 0.8570328263549539: 1, 0.8569461665564432: 1, 0.8560831574005832: 1, 0.855870143977205: 1, 0.8557536356484715: 1, 0.8553938579809044: 1, 0.8553391554544043: 1, 0.8549969861732046: 1, 0.8549765436948374: 1, 0.8546213915502883: 1, 0.8541125812172513: 1, 0.8540535911108349: 1, 0.8537673160235871: 1, 0.8534649599228448: 1, 0.8533121270660871: 1, 0.8529149821348527: 1, 0.852354090807825: 1, 0.8523484677241933: 1, 0.8522079156092066: 1, 0.8520418827532279: 1, 0.8520061460819106: 1, 0.851760269354948: 1, 0.8512794815399984: 1, 0.8512289545535433: 1, 0.8511984357828568: 1, 0.8509848892996361: 1, 0.8509091735171024: 1, 0.8507821339956573: 1, 0.8502977793049903: 1, 0.85023010821795: 1, 0.8500986265860753: 1, 0.8498514989982591: 1, 0.8497091294364646: 1, 0.849654147192788: 1, 0.849261590270514: 1, 0.8490779947398217: 1, 0.8489491358196628: 1, 0.8486635874691012: 1, 0.8484446623898299: 1, 0.8483993095741575: 1, 0.8482553523730728: 1, 0.8480604794409803: 1, 0.8477885473602653: 1, 0.847651388461547: 1, 0.847105592317888: 1, 0.8470906365620933: 1, 0.8464394947631284: 1, 0.8462664056800693: 1, 0.8460309903321138: 1, 0.8458820750022483: 1, 0.8458809125403145: 1, 0.8458054783383104: 1, 0.8457965620772132: 1, 0.8457775362251679: 1, 0.8455776457132417: 1, 0.8454812514365995: 1, 0.8452041787241086: 1, 0.8451800785389382: 1, 0.8446923120137693: 1, 0.844600534488499: 1, 0.8444213771570539: 1, 0.844350329999657: 1, 0.8443426621411467: 1, 0.8441093216204412: 1, 0.8438735685733793: 1, 0.8437776134224961: 1, 0.8435409273349778: 1, 0.8435302665234851: 1, 0.8434943593900719: 1, 0.8433793585476961: 1, 0.8431984799844848: 1, 0.8430036092715358: 1, 0.842857267782783: 1, 0.8427655949275109: 1, 0.8427095803188834: 1, 0.8426844847547355: 1, 0.842578163485138: 1, 0.8423522924393477: 1, 0.8423094529809737: 1, 0.842258441521354: 1, 0.842244662297546: 1, 0.8422200606182528: 1, 0.8421567483391819: 1, 0.8420124492484524: 1, 0.841843908961081: 1, 0.8417904087389465: 1, 0.8417743322995384: 1, 0.8414911085469409: 1, 0.8409135748386691: 1, 0.8407250712439667: 1, 0.8405190366522636: 1, 0.8401872788115909: 1, 0.839995923253905: 1, 0.8399214006047782: 1, 0.8395108380436421: 1, 0.8393279162696294: 1, 0.839196857220037: 1, 0.838823598853602: 1, 0.8387291569641968: 1, 0.8385830666295124: 1, 0.8384605540417368: 1, 0.838391851004582: 1, 0.838367961217377: 1, 0.8381667043528294: 1, 0.8381086938219287: 1, 0.8380105577328051: 1, 0.8375922709971891: 1, 0.8375070178148436: 1, 0.837382218304614: 1, 0.8373020655421978: 1, 0.8370293847650485: 1, 0.8368728526016448: 1, 0.8361209964168873: 1, 0.8357484695279981: 1, 0.8355914554746924: 1, 0.8353814033621757: 1, 0.835326970942904: 1, 0.8352602184559706: 1, 0.8351508567464226: 1, 0.8349786346673573: 1, 0.8346297407038056: 1, 0.8342523347004555: 1, 0.8340430096773204: 1, 0.8339982867704804: 1, 0.833558921274501: 1,

0.8334045740789469: 1, 0.8331576688113868: 1, 0.8331467326341259: 1, 0.8331381989399887: 1,
0.8330567816864766: 1, 0.8327112030116768: 1, 0.8326684881270464: 1, 0.8326253151968233: 1,
0.8324621183512431: 1, 0.8323803462495445: 1, 0.8319851283906603: 1, 0.8319776512352769: 1,
0.8319689695145976: 1, 0.8318863406791234: 1, 0.8318629644768551: 1, 0.8317857889590257: 1,
0.831286518165836: 1, 0.8312335783106622: 1, 0.8311637666716933: 1, 0.8310714443492626: 1,
0.8308263162904799: 1, 0.8308124655721553: 1, 0.8308076635707792: 1, 0.8305372060557115: 1,
0.830336633990238: 1, 0.8296160007637335: 1, 0.8295676784414594: 1, 0.8294493106252655: 1,
0.8290270638054625: 1, 0.8289669009582816: 1, 0.8288331367951766: 1, 0.8288240081306141: 1,
0.8287585235049396: 1, 0.8287193744133564: 1, 0.828572111874468: 1, 0.828244323334878: 1,
0.8281166397139338: 1, 0.8280173922128422: 1, 0.8279789032253133: 1, 0.8279284333672242: 1,
0.8277016552681502: 1, 0.8272549924344862: 1, 0.8271615876044106: 1, 0.8271129526810207: 1,
0.827018278322469: 1, 0.8269570967787951: 1, 0.8265666839328089: 1, 0.8261021215358605: 1,
0.8260555511190592: 1, 0.8258887544800152: 1, 0.8256096998207075: 1, 0.8253838491404011: 1,
0.825340141222171: 1, 0.8251246923588821: 1, 0.8251120873107444: 1, 0.8251083558038882: 1,
0.8250065457638126: 1, 0.8248448247235117: 1, 0.8248351193348913: 1, 0.8247757073023274: 1,
0.824753968001816: 1, 0.8247292441320044: 1, 0.8246039497870805: 1, 0.8245334980999177: 1,
0.8243194386179301: 1, 0.8237790717472764: 1, 0.8236486882067247: 1, 0.8234979129817724: 1,
0.82347687431854: 1, 0.8231211369354268: 1, 0.8228886858564088: 1, 0.8228383243369793: 1,
0.8227799016160606: 1, 0.8225812376963308: 1, 0.8225218839937456: 1, 0.8224639885410466: 1,
0.8224458527762173: 1, 0.8219163791609996: 1, 0.8217772763641442: 1, 0.821613991656195: 1,
0.8215673163844286: 1, 0.8214746882197177: 1, 0.8213293638104757: 1, 0.8212805524303405: 1,
0.8212028352492831: 1, 0.8211694925925194: 1, 0.8211353686309354: 1, 0.8210134331448438: 1,
0.8207116675882724: 1, 0.8205997827808723: 1, 0.8205469393461058: 1, 0.8204934462590742: 1,
0.820333476998438: 1, 0.8202044520495146: 1, 0.8201914703741302: 1, 0.8201736617646345: 1,
0.8199099986185334: 1, 0.8199099809208786: 1, 0.8197627141221684: 1, 0.819524430836309: 1,
0.8193640580697809: 1, 0.8192420132080457: 1, 0.8190003050062881: 1, 0.8188076246288166: 1,
0.8187977776709703: 1, 0.8186681851172981: 1, 0.8186670758609922: 1, 0.8184528339814332: 1,
0.8183811012506194: 1, 0.8181963850134504: 1, 0.8177119373804421: 1, 0.8173478454356914: 1,
0.8173189637468831: 1, 0.8171562477364148: 1, 0.8171085007555784: 1, 0.8170685304950415: 1,
0.8169480421217807: 1, 0.8167962340230599: 1, 0.8165408958882462: 1, 0.8163680341383086: 1,
0.8161151815327474: 1, 0.8159285390302424: 1, 0.8157349075662552: 1, 0.8156608949329539: 1,
0.8155758283160779: 1, 0.8154854502710367: 1, 0.81525165798785: 1, 0.815283230785113: 1,
0.8150626858064082: 1, 0.8150494051490329: 1, 0.8149859214248864: 1, 0.8149045353719024: 1,
0.8146837963076434: 1, 0.8145645985153964: 1, 0.814511695197281: 1, 0.8142412469033897: 1,
0.813963268475903: 1, 0.813926385299912: 1, 0.8138970256381134: 1, 0.8137582331006542: 1,
0.8135841211608249: 1, 0.8135401003506784: 1, 0.8133464176776903: 1, 0.8132780860359237: 1,
0.8130007925596265: 1, 0.8129604712977483: 1, 0.8129349778029029: 1, 0.8127822256955123: 1,
0.812662629945723: 1, 0.8121781541078283: 1, 0.8117968615690674: 1, 0.8117467391299835: 1,
0.8117004173869623: 1, 0.8114787269557716: 1, 0.8113421061931908: 1, 0.8113075163933169: 1,
0.8109881419923665: 1, 0.8108767804917607: 1, 0.8108462341341889: 1, 0.8107600795174821: 1,
0.8106777680090891: 1, 0.8105381640604381: 1, 0.8102281668424688: 1, 0.8100069767176294: 1,
0.8091374489996457: 1, 0.8090938727009573: 1, 0.8090936947895806: 1, 0.8088283689523789: 1,
0.8087246105818886: 1, 0.80866992235994779: 1, 0.8086624537815172: 1, 0.8083691300292615: 1,
0.8079130149753135: 1, 0.8078359627624718: 1, 0.8075250164319254: 1, 0.807520816521634: 1,
0.8073263221196669: 1, 0.8073017303097642: 1, 0.8069585480977348: 1, 0.8068427160632251: 1,
0.8067381707984926: 1, 0.806737648802368: 1, 0.8066500728586186: 1, 0.8066497118905614: 1,
0.8065402547946632: 1, 0.80638034761319: 1, 0.8062833703524868: 1, 0.8060549333936752: 1,
0.8055223365994556: 1, 0.8051057284560735: 1, 0.804925274275501: 1, 0.8046703393871655: 1,
0.8046241287497378: 1, 0.804507820350409: 1, 0.8041966918494838: 1, 0.8041899022959365: 1,
0.8039495514210822: 1, 0.8037023123664715: 1, 0.8035098433999784: 1, 0.8035067044954397: 1,
0.8033104302647188: 1, 0.8032938866860191: 1, 0.8031774843831934: 1, 0.8031749844972597: 1,
0.8030548495295003: 1, 0.8028495158336864: 1, 0.8027978583986677: 1, 0.8027085380201653: 1,
0.8026241300424934: 1, 0.8025127599506423: 1, 0.8024766619383057: 1, 0.8021954047048124: 1,
0.8019688445236979: 1, 0.8019659526222436: 1, 0.801903661010682: 1, 0.8012421957567508: 1,
0.800707773961518: 1, 0.8002754260128343: 1, 0.8001275911623232: 1, 0.8000320140930726: 1,
0.799795212937455: 1, 0.7994562781358044: 1, 0.7990870393451929: 1, 0.7986918900425997: 1,
0.7985277195066639: 1, 0.7984426378565971: 1, 0.7984033794036899: 1, 0.7981904178037823: 1,
0.7980056617247853: 1, 0.7979264681881473: 1, 0.7976270367254376: 1, 0.7973763703293774: 1,
0.7970126959735298: 1, 0.7969298621251002: 1, 0.7969101159121531: 1, 0.796860148857517: 1,
0.7968086840543209: 1, 0.7967496657418289: 1, 0.7966515376621655: 1, 0.796625094657317: 1,
0.7964966266869653: 1, 0.7964661627490998: 1, 0.7962031448499995: 1, 0.7961441301458022: 1,
0.7959504818931143: 1, 0.7957386718399749: 1, 0.7956894840241631: 1, 0.7954542069026951: 1,
0.7954056218838285: 1, 0.7953791881519346: 1, 0.7953042763073015: 1, 0.7953024794110989: 1,
0.7950561278940498: 1, 0.7949942344507585: 1, 0.7948792909629865: 1, 0.7947825428642334: 1,
0.7944677318861977: 1, 0.7940378322973934: 1, 0.79401068213746: 1, 0.7936842706553862: 1,
0.793524562968385: 1, 0.7934842695855515: 1, 0.7933782481019065: 1, 0.7932907248622509: 1,
0.7929820284416679: 1, 0.7929160578768705: 1, 0.7922870082017199: 1, 0.7912546479420586: 1,
0.791158116824046: 1, 0.7910356181310904: 1, 0.790830108710012: 1, 0.7908245468218046: 1,
0.7907972492031216: 1, 0.7906159297515065: 1, 0.7905624978087313: 1, 0.7905487753300218: 1,
0.7897236607298671: 1, 0.7895963566116967: 1, 0.7894667488975163: 1, 0.7894087718083627: 1,
0.7892790766648352: 1, 0.7892547231764201: 1, 0.7891835584654441: 1, 0.7890353564088683: 1,
0.7889247056917854: 1, 0.7887638632063185: 1, 0.7885799810396664: 1, 0.7881786511547132: 1,
0.7878640515728266: 1, 0.7875865813309909: 1, 0.7874778440945212: 1, 0.7873868661053559: 1,
0.7872327031442026: 1, 0.7871285705756319: 1, 0.7870390602051595: 1, 0.7867021855145941: 1,
0.786659592315707: 1, 0.7863960025196038: 1, 0.7862944700400709: 1, 0.7860920075809501: 1,
0.785993027029748: 1, 0.7859903956265677: 1, 0.785930996695704: 1, 0.7859061533613088: 1,
0.7857855114168317: 1, 0.7856725887105686: 1, 0.7855760868056729: 1, 0.78553507724387: 1,

0.7855267041281082: 1, 0.7849538463293482: 1, 0.784661151791158: 1, 0.7843085070012317: 1,
0.7842757376433094: 1, 0.7841682611048925: 1, 0.7838636124363839: 1, 0.7836136544562122: 1,
0.7835883867819281: 1, 0.7834781371160663: 1, 0.7832506363635191: 1, 0.7832325734982836: 1,
0.7831720074163911: 1, 0.7829158620744613: 1, 0.7826396916883374: 1, 0.7826381430557421: 1,
0.7826369514246018: 1, 0.7825777085663431: 1, 0.7821231042576385: 1, 0.7819892367212354: 1,
0.7818222965533669: 1, 0.7814337669183037: 1, 0.781288390975042: 1, 0.7811992030524981: 1,
0.7811568967258724: 1, 0.7811048512561386: 1, 0.7809466418123552: 1, 0.7808416263252618: 1,
0.7808143917001018: 1, 0.7807311885121399: 1, 0.7805262367309921: 1, 0.7803008179446868: 1,
0.7800216028998461: 1, 0.7795885400055375: 1, 0.7793853426459434: 1, 0.7793833003793025: 1,
0.7789442419580961: 1, 0.7785304852470206: 1, 0.7782586411905084: 1, 0.7780265529343479: 1,
0.7778724244608466: 1, 0.7778377504416303: 1, 0.7773990131621668: 1, 0.7773926805330138: 1,
0.7772388260528965: 1, 0.7770055916883867: 1, 0.7768995702369373: 1, 0.7763283509332928: 1,
0.77549191596252462: 1, 0.7752646443740201: 1, 0.775130199789986: 1, 0.7750507393409698: 1,
0.7750268204739755: 1, 0.7749079340662186: 1, 0.7745764356511565: 1, 0.7742010981243839: 1,
0.7740151128188314: 1, 0.774003735735088: 1, 0.7739664448074957: 1, 0.7739003814138437: 1,
0.7738796109214581: 1, 0.7738187788495574: 1, 0.7734163750533408: 1, 0.7734159030184111: 1,
0.7731030598330724: 1, 0.773048530670321: 1, 0.7730403355759579: 1, 0.7727037398772222: 1,
0.7726229474693813: 1, 0.7725215449169403: 1, 0.7722874096264896: 1, 0.7721821342261505: 1,
0.7721527122501683: 1, 0.7713250311246583: 1, 0.7712505739712452: 1, 0.7711955575632164: 1,
0.7711177658400749: 1, 0.7709840096592504: 1, 0.7708679930945814: 1, 0.7707005715074473: 1,
0.770270929555291: 1, 0.7698936404727079: 1, 0.7698664688220958: 1, 0.7698111726060072: 1,
0.7692449685669508: 1, 0.769239938287671: 1, 0.7691701732700389: 1, 0.7691141534932386: 1,
0.7690936487241492: 1, 0.7688609502359111: 1, 0.7684084543289735: 1, 0.7683857050282996: 1,
0.7682398083890186: 1, 0.7681733666818399: 1, 0.7681480750058277: 1, 0.7678570460912023: 1,
0.7675156458860646: 1, 0.7674844418275825: 1, 0.7674505337952484: 1, 0.7672774709137123: 1,
0.7670120221752098: 1, 0.7668865621525531: 1, 0.7668736382710308: 1, 0.7667856310240688: 1,
0.7667287545617552: 1, 0.7666406507703205: 1, 0.7665631475230408: 1, 0.7665373352254404: 1,
0.766010794830203: 1, 0.7658901564872033: 1, 0.76583156091294: 1, 0.7658186902073074: 1,
0.765571191171184: 1, 0.7655469689339681: 1, 0.7653971767347993: 1, 0.7653823161120534: 1,
0.7653410849986493: 1, 0.7652181736919385: 1, 0.7649199860293406: 1, 0.7648803746567198: 1,
0.7645861534433006: 1, 0.7645826634546098: 1, 0.7644285080455914: 1, 0.7643198808899611: 1,
0.7643046269808045: 1, 0.7642938462663084: 1, 0.7640116928338315: 1, 0.7638438025153587: 1,
0.7634538119581714: 1, 0.7632943360192682: 1, 0.7632006876224725: 1, 0.7629232749180583: 1,
0.7628307630197592: 1, 0.7627189838613085: 1, 0.7623172255986164: 1, 0.7623133712373559: 1,
0.76212528011289: 1, 0.7620685250324248: 1, 0.7617489087622498: 1, 0.7617376526422459: 1,
0.7616833229253817: 1, 0.7616612978426802: 1, 0.7616407418812275: 1, 0.7615497560210014: 1,
0.7615319421784948: 1, 0.7614002203717404: 1, 0.7613098386786049: 1, 0.7610461205762383: 1,
0.7609791128251738: 1, 0.7608652386342831: 1, 0.7606501354041665: 1, 0.7603604212740128: 1,
0.7601377217572886: 1, 0.7601219504602634: 1, 0.760119123809702: 1, 0.7600670162418534: 1,
0.7594802947009982: 1, 0.7592365233736971: 1, 0.7591391898594273: 1, 0.7591196632203439: 1,
0.7590918246611409: 1, 0.7589141811594888: 1, 0.7588731980926156: 1, 0.7585883665502327: 1,
0.7584473382129756: 1, 0.7584458483019071: 1, 0.7582037536152839: 1, 0.7581766472794624: 1,
0.7581027038581042: 1, 0.7580588598847926: 1, 0.7578775300218275: 1, 0.757578449972862: 1,
0.7572681504694204: 1, 0.757102532509304: 1, 0.7570324908244592: 1, 0.7564947178390322: 1,
0.7562895265328486: 1, 0.7562816081679712: 1, 0.7561422370783623: 1, 0.7560428150528501: 1,
0.7559155652455766: 1, 0.7559028191280869: 1, 0.7557453183826364: 1, 0.7556600072534276: 1,
0.7552783543137154: 1, 0.7551828406492097: 1, 0.7551678287999718: 1, 0.7549588549934876: 1,
0.7548754866685392: 1, 0.7544213723018777: 1, 0.7544105554222117: 1, 0.7540405029424682: 1,
0.7540137277531346: 1, 0.7539748884499294: 1, 0.7537980664570657: 1, 0.7537964466502326: 1,
0.753471264765544: 1, 0.7532115469674857: 1, 0.7531983645597018: 1, 0.7531930530250837: 1,
0.753181024004668: 1, 0.7531654626928408: 1, 0.7529124245289598: 1, 0.7525680735071785: 1,
0.7524176505801007: 1, 0.7521929573070725: 1, 0.752187639885172: 1, 0.7521843389819582: 1,
0.7520078454049504: 1, 0.7519858707079945: 1, 0.7512810687469228: 1, 0.7511408686149994: 1,
0.7510126965762531: 1, 0.7509804621230965: 1, 0.7509223391122839: 1, 0.7507943354118883: 1,
0.7507038632779395: 1, 0.7506800179716948: 1, 0.7505683257625632: 1, 0.750331788889162: 1,
0.7502775157699324: 1, 0.7495848233522363: 1, 0.7494784757583013: 1, 0.7494413776594496: 1,
0.7489216363614778: 1, 0.7488602859448212: 1, 0.748852666795286: 1, 0.7486123985813767: 1,
0.7484180728342468: 1, 0.7484083098358482: 1, 0.7482151489538194: 1, 0.748098745878362: 1,
0.7478699720434687: 1, 0.7478191165009642: 1, 0.7478094413357178: 1, 0.7477624258406841: 1,
0.7477296242564072: 1, 0.7477249185279167: 1, 0.7476226856794357: 1, 0.7475672164070358: 1,
0.7474564029549393: 1, 0.7473049077068327: 1, 0.7470119035727468: 1, 0.7468904123650794: 1,
0.7468159579236121: 1, 0.7467901678426108: 1, 0.7467842482859846: 1, 0.7467401154440463: 1,
0.7465219792632829: 1, 0.7463733008282918: 1, 0.7461954849454402: 1, 0.746049044079911: 1,
0.745982430651796: 1, 0.7458377998225896: 1, 0.7457330051083652: 1, 0.7456979745727981: 1,
0.7455049519392264: 1, 0.7455039792045733: 1, 0.7454875993908006: 1, 0.7453617966064144: 1,
0.7453046312366222: 1, 0.7450392616062426: 1, 0.7448910143869321: 1, 0.7447258205736301: 1,
0.7446771523576328: 1, 0.7446419293971603: 1, 0.74461867210227: 1, 0.7442427054212006: 1,
0.7441120844816961: 1, 0.744106789745921: 1, 0.7438761044481137: 1, 0.7438161847119168: 1,
0.7434611822680477: 1, 0.7434055442938294: 1, 0.743337335821047: 1, 0.7431968005052002: 1,
0.7427654233584396: 1, 0.7425910343880826: 1, 0.7421790259208623: 1, 0.7420027150381469: 1,
0.7419665532519072: 1, 0.7416693833092111: 1, 0.7413871736802962: 1, 0.7411737829464793: 1,
0.740805578899578: 1, 0.7407917745053512: 1, 0.7407556367276331: 1, 0.740727091113097: 1,
0.740635023737319: 1, 0.7403506302178812: 1, 0.7400423366343432: 1, 0.7400029544181929: 1,
0.7399556921353735: 1, 0.7397782451674572: 1, 0.7397681086274127: 1, 0.7397644588371979: 1,
0.7396950967006058: 1, 0.739496078391342: 1, 0.7394299154791617: 1, 0.739365906112446: 1,
0.7389007165673903: 1, 0.7388309576145783: 1, 0.7388072550763995: 1, 0.7387785145973369: 1,
0.7385277959052025: 1, 0.7383828964291772: 1, 0.7383038359870798: 1, 0.7381737667448718: 1,

0.738077913891227: 1, 0.7380152052768256: 1, 0.7378323182888707: 1, 0.7378172439242967: 1, 0.7377207719501041: 1, 0.7375718338348161: 1, 0.7375282958216991: 1, 0.7372759690144581: 1, 0.736902912286058: 1, 0.7368356590901884: 1, 0.7367034352227346: 1, 0.7366243281332925: 1, 0.7365558644430616: 1, 0.7365514758737439: 1, 0.7365510780974522: 1, 0.7364343813956482: 1, 0.7363955355863927: 1, 0.736331558287702: 1, 0.7361403952231952: 1, 0.736009106557513: 1, 0.7359987082610498: 1, 0.7357369863001342: 1, 0.7354561622773816: 1, 0.7352414675697566: 1, 0.7351789500815472: 1, 0.7350837188678583: 1, 0.7348600170789635: 1, 0.7348304582694419: 1, 0.7347380690996335: 1, 0.7346514317839874: 1, 0.7344740176470866: 1, 0.7343569896117734: 1, 0.7342420370247068: 1, 0.7342293003003642: 1, 0.734209107619323: 1, 0.7342005168578131: 1, 0.7338914447019559: 1, 0.7334435051214298: 1, 0.7334069992728736: 1, 0.7329289798075214: 1, 0.7328325994680714: 1, 0.732756514674054: 1, 0.7325943898207161: 1, 0.7325871553414846: 1, 0.7323331275340605: 1, 0.7321915548024382: 1, 0.7320947006654287: 1, 0.7319437192588366: 1, 0.7318908625525511: 1, 0.7317914886207317: 1, 0.7315188520686141: 1, 0.7315168163054029: 1, 0.7314200214223456: 1, 0.7312279518274128: 1, 0.7311880624515419: 1, 0.7310189534789077: 1, 0.7309380975782559: 1, 0.7309098799607725: 1, 0.7308837519899509: 1, 0.7307555486065621: 1, 0.7302906570013133: 1, 0.730186385832289: 1, 0.7298211349596535: 1, 0.7297062914350766: 1, 0.7296096888149994: 1, 0.7295308750133075: 1, 0.729291870806533: 1, 0.7292768343590885: 1, 0.7292350566013125: 1, 0.7292097023994928: 1, 0.7290515232753523: 1, 0.7289604512701832: 1, 0.7288832907669351: 1, 0.7286372927810749: 1, 0.7281024485530024: 1, 0.7280645657122712: 1, 0.7279985850051138: 1, 0.7277974110638575: 1, 0.7277805970230734: 1, 0.7275330954133407: 1, 0.7271982965129223: 1, 0.727064798789154: 1, 0.7270249449333522: 1, 0.7269874219004657: 1, 0.7268535836967521: 1, 0.7267833316355443: 1, 0.726646998178093: 1, 0.7261962909698865: 1, 0.7261064889554647: 1, 0.7259298807387438: 1, 0.7258825034446706: 1, 0.7257924265194443: 1, 0.7257369331888259: 1, 0.7256986111485991: 1, 0.72564543092245: 1, 0.7256129878593972: 1, 0.7254405488212425: 1, 0.7252453389322597: 1, 0.7251588185434773: 1, 0.7251294291654621: 1, 0.7248596971615191: 1, 0.7245295843787195: 1, 0.7244894419042214: 1, 0.7242939611341999: 1, 0.7242508576488055: 1, 0.7241658949885753: 1, 0.723586341186824: 1, 0.7235385578382328: 1, 0.723456202411712: 1, 0.7233594467787633: 1, 0.7233202016343253: 1, 0.7231908353127514: 1, 0.723134934092898: 1, 0.7230025491813306: 1, 0.7229480169877244: 1, 0.7227684031800498: 1, 0.7224109894496362: 1, 0.7223072079674612: 1, 0.7220354537825576: 1, 0.7219199556280308: 1, 0.7217822931647786: 1, 0.721454843517789: 1, 0.7209603837973917: 1, 0.7209603360585473: 1, 0.7209031757643063: 1, 0.7208765828930411: 1, 0.7208571687386328: 1, 0.7208274175134695: 1, 0.7207381994628361: 1, 0.720666044651612: 1, 0.7206511000654712: 1, 0.7206214211741362: 1, 0.7206141581097519: 1, 0.720568824874391: 1, 0.7205481838268248: 1, 0.7204337389205822: 1, 0.7201734043110944: 1, 0.7198155755515785: 1, 0.7196315100519801: 1, 0.7195478312729038: 1, 0.7194530526562971: 1, 0.7194170985267148: 1, 0.7193796497713613: 1, 0.7193495346339414: 1, 0.7193005993681397: 1, 0.7192896210021112: 1, 0.7190045832185931: 1, 0.7187480953452406: 1, 0.7186858676621847: 1, 0.7186705520220129: 1, 0.7185889865743356: 1, 0.7183083266367304: 1, 0.7182871558740115: 1, 0.7181712574622329: 1, 0.7180541951251759: 1, 0.7180275687949641: 1, 0.718010127438763: 1, 0.7179479638530442: 1, 0.7178860964597894: 1, 0.7178654032396137: 1, 0.7178448717756338: 1, 0.717823275359281: 1, 0.7175996935010557: 1, 0.7174571795625779: 1, 0.7174478894523968: 1, 0.7172595378727878: 1, 0.7171505094889016: 1, 0.716380450629438: 1, 0.7161746616138142: 1, 0.716139294337948: 1, 0.7160685608510936: 1, 0.7160641090603088: 1, 0.7159712537455807: 1, 0.7159539428613618: 1, 0.715423589657862: 1, 0.7152773182953918: 1, 0.7151876346210216: 1, 0.7150801181328525: 1, 0.7148880285478367: 1, 0.7147075237253349: 1, 0.7146838211830423: 1, 0.7145762038575233: 1, 0.7145046630307492: 1, 0.714430564437688: 1, 0.7142353546610511: 1, 0.7136226483280929: 1, 0.7133463269223517: 1, 0.7133133773503294: 1, 0.7132675521286694: 1, 0.7132487464114169: 1, 0.7128662060092793: 1, 0.7128410375076839: 1, 0.7124343248970135: 1, 0.7121783863404866: 1, 0.7120452504306546: 1, 0.712024612779736: 1, 0.7118960000534532: 1, 0.7117269376414028: 1, 0.711607136810674: 1, 0.7114576441479714: 1, 0.7114448379376384: 1, 0.711126102528833: 1, 0.7110528968706706: 1, 0.7109180548257965: 1, 0.710765641926536: 1, 0.7107630008691297: 1, 0.7107083708180397: 1, 0.7100770733812943: 1, 0.7098604157192021: 1, 0.7097520391655254: 1, 0.709496235691005: 1, 0.7094155720368435: 1, 0.7093353129695179: 1, 0.7092695505678596: 1, 0.7091207525303256: 1, 0.7091105614477071: 1, 0.7090597851486463: 1, 0.7090238361896419: 1, 0.7088942810478609: 1, 0.708854960175293: 1, 0.7088039841006522: 1, 0.7087310843085901: 1, 0.7087310722697654: 1, 0.7083206822685902: 1, 0.7082982785443858: 1, 0.7082229745862285: 1, 0.7081616911281738: 1, 0.7077143751870194: 1, 0.7074413130926642: 1, 0.7074245758619583: 1, 0.7071524065665019: 1, 0.7067791008151778: 1, 0.7067423703731411: 1, 0.7067239576482158: 1, 0.7064364619031693: 1, 0.7064162616246477: 1, 0.7061996417761806: 1, 0.706199485416009: 1, 0.7061704271945299: 1, 0.7058275561097264: 1, 0.7056014401519203: 1, 0.7055573955845595: 1, 0.70551984140766: 1, 0.7054708066510577: 1, 0.7052623005796979: 1, 0.7051383641329875: 1, 0.7050507996990925: 1, 0.7049570418865526: 1, 0.7049249380241999: 1, 0.7046729074143346: 1, 0.7046682692382755: 1, 0.7046622136310846: 1, 0.7046311412254375: 1, 0.7046231710139715: 1, 0.7044489150278475: 1, 0.7043683146068904: 1, 0.704296862578619: 1, 0.7042666635667884: 1, 0.7042273378626334: 1, 0.7041912088855273: 1, 0.7041082626944257: 1, 0.7039612755031208: 1, 0.7039122676341507: 1, 0.703824678774254: 1, 0.7037436362210594: 1, 0.703714566726965: 1, 0.703624421818524: 1, 0.7034678153243564: 1, 0.7032772402942292: 1, 0.7031731826885839: 1, 0.7031553375283892: 1, 0.7030601783110464: 1, 0.7028338331038348: 1, 0.702767323930844: 1, 0.7026573202861224: 1, 0.7025175170134408: 1, 0.702517376703373: 1, 0.7024862785602393: 1, 0.7024699655931183: 1, 0.7024511247305136: 1, 0.7024212318518802: 1, 0.7024038511746145: 1, 0.7023974707752685: 1, 0.7022972701875482: 1, 0.7022896014991421: 1, 0.702132285121976: 1, 0.702094157841311: 1, 0.7020327307559489: 1, 0.7019928745286964: 1, 0.7018112863812268: 1, 0.7018092313098515: 1, 0.7017347645654715: 1, 0.7014135194169846: 1, 0.7013805101273881: 1, 0.701329449142841: 1, 0.7012613500777892: 1, 0.701137248215287: 1, 0.7009628796349028: 1, 0.7007424122636728: 1, 0.7006260017763318: 1, 0.7005575631691419: 1, 0.7002343133787337: 1, 0.7002224942435525: 1, 0.7001983249358258: 1, 0.699986659606108: 1, 0.6995844950806863: 1, 0.6992097344032933: 1, 0.6991240072043515: 1,

0.6988162032039023: 1, 0.6987189180235488: 1, 0.6984751994233198: 1, 0.6984612827935194: 1, 0.6981414488986081: 1, 0.6971955931520581: 1, 0.6971132002694105: 1, 0.6969688814434081: 1, 0.6969322902839827: 1, 0.6969192419488075: 1, 0.696591289117174: 1, 0.6964978759568251: 1, 0.6964732101290051: 1, 0.6963779984195657: 1, 0.696006277957312: 1, 0.6956498746649751: 1, 0.6954000886708304: 1, 0.6953622186941179: 1, 0.69532032246788: 1, 0.6951432390492189: 1, 0.6947554364796457: 1, 0.6946846229924235: 1, 0.6946543419634208: 1, 0.6945644472591839: 1, 0.6943754441217419: 1, 0.6943328886602542: 1, 0.6943276329161802: 1, 0.6942809311012994: 1, 0.6941970820929639: 1, 0.6936754829213725: 1, 0.693583883957743: 1, 0.6934813549765394: 1, 0.693284384874717: 1, 0.6932377922019404: 1, 0.6931331614395625: 1, 0.6931170862951417: 1, 0.6928873818769885: 1, 0.6925717009491464: 1, 0.6925547627585364: 1, 0.6923056366544457: 1, 0.6922573407517709: 1, 0.692196906426232: 1, 0.6918484902569342: 1, 0.6918453587916411: 1, 0.6917802628438029: 1, 0.6917459765163237: 1, 0.6914600453033514: 1, 0.6913915671719196: 1, 0.6912883263196837: 1, 0.6911444611828524: 1, 0.6910417233395245: 1, 0.6907996505880476: 1, 0.6907430359981273: 1, 0.6904955995018942: 1, 0.6902374450731984: 1, 0.6902223787943854: 1, 0.6895793832543718: 1, 0.6892486405886257: 1, 0.6889280048310983: 1, 0.6887602435231096: 1, 0.6886385018273088: 1, 0.6883300028439491: 1, 0.6881451673811989: 1, 0.6880587323310517: 1, 0.6880575478162608: 1, 0.6878896595027448: 1, 0.6877268263040162: 1, 0.6876829707693883: 1, 0.687516317607538: 1, 0.6872994950240415: 1, 0.687234635579237: 1, 0.6872080296638506: 1, 0.6871692930272538: 1, 0.6871028340499437: 1, 0.6869178210606582: 1, 0.6866470951846537: 1, 0.6863995317161908: 1, 0.6859238600065469: 1, 0.6854305526923088: 1, 0.6852830924177419: 1, 0.6852013603870712: 1, 0.6844925081692427: 1, 0.6841906131785513: 1, 0.6840470636498743: 1, 0.6837570415789433: 1, 0.6836481859654966: 1, 0.6836246938478117: 1, 0.6834140049742904: 1, 0.6833911852183654: 1, 0.6833422916494813: 1, 0.6833010421787381: 1, 0.6832662620397126: 1, 0.683170834369843: 1, 0.6831607857939016: 1, 0.6830406633344108: 1, 0.6829676797231958: 1, 0.6827857008083239: 1, 0.6827408955334112: 1, 0.6826305165726521: 1, 0.6825362721706879: 1, 0.6825123058791239: 1, 0.6823621937257824: 1, 0.6823174450433527: 1, 0.6822805818544234: 1, 0.6822316385240337: 1, 0.6822214429328393: 1, 0.6820726023375762: 1, 0.6817956587049199: 1, 0.6817315133329913: 1, 0.6816837218397722: 1, 0.6815996353619835: 1, 0.6815302756165013: 1, 0.6814532775178184: 1, 0.6814075300686832: 1, 0.6810507263089396: 1, 0.680905280577011: 1, 0.6808519203071132: 1, 0.6805990692731592: 1, 0.6804997542437725: 1, 0.6803478020844745: 1, 0.6803445884583839: 1, 0.6801648245458018: 1, 0.6798698310090449: 1, 0.6798466796387059: 1, 0.6798159179195863: 1, 0.6797271098231047: 1, 0.6796771288644108: 1, 0.6795514090046498: 1, 0.6794658793697583: 1, 0.6793278609989721: 1, 0.6792660739766067: 1, 0.6789698950330286: 1, 0.6788362537962769: 1, 0.6787413006194956: 1, 0.6784593635956772: 1, 0.6782643143082899: 1, 0.6782356455104135: 1, 0.6780250192415879: 1, 0.677995327763375: 1, 0.6779893406122073: 1, 0.6779787691255518: 1, 0.6779730186896371: 1, 0.6778445650007974: 1, 0.6778254311339105: 1, 0.6777713593444079: 1, 0.6777221059062026: 1, 0.677507967736217: 1, 0.6773886757296853: 1, 0.6773741357930326: 1, 0.6771082207530112: 1, 0.67767737541746436: 1, 0.6765240799197338: 1, 0.6762189752104173: 1, 0.6758596702625002: 1, 0.675776760581175: 1, 0.6753792688833179: 1, 0.6753763315796465: 1, 0.6753615218424716: 1, 0.6752634246272913: 1, 0.6751706914932953: 1, 0.6751184810840605: 1, 0.6749705008150181: 1, 0.674879468741938: 1, 0.6746734985265986: 1, 0.6745196155345105: 1, 0.6744723323122404: 1, 0.6739426220462649: 1, 0.6738528047246584: 1, 0.673830539610264: 1, 0.6737048912989007: 1, 0.673522429587584: 1, 0.6731876108113054: 1, 0.6731849397383026: 1, 0.673172210891725: 1, 0.67312182221724: 1, 0.6731064514293379: 1, 0.6730528543130294: 1, 0.6729551295465456: 1, 0.672379978187195: 1, 0.6722075129307236: 1, 0.6721830860000874: 1, 0.6721675000584882: 1, 0.6720516360152095: 1, 0.6719180150258616: 1, 0.6718343332287815: 1, 0.6718272951533214: 1, 0.6717276864050014: 1, 0.6716437826219566: 1, 0.6714691370093486: 1, 0.6713863961433024: 1, 0.6709206989581751: 1, 0.6706076702314736: 1, 0.6703284635837587: 1, 0.6702554272516837: 1, 0.6701093307837169: 1, 0.6700042972990295: 1, 0.6697673345240605: 1, 0.6697211758145203: 1, 0.6696164471317148: 1, 0.6694694520436743: 1, 0.6691449791258416: 1, 0.6686289981092989: 1, 0.6683549419252888: 1, 0.668329559916993: 1, 0.6682035049667083: 1, 0.6681164096625649: 1, 0.6680575750927085: 1, 0.6676800658479415: 1, 0.6676667943634363: 1, 0.6672288599444405: 1, 0.6671394739676244: 1, 0.6667535146914584: 1, 0.6666801436260142: 1, 0.6664755531895584: 1, 0.6663966336017875: 1, 0.6663946065116941: 1, 0.6662398990088721: 1, 0.6661044610468679: 1, 0.6659794970340944: 1, 0.6658976552856457: 1, 0.6657467213417438: 1, 0.6657147009556688: 1, 0.6656590316027613: 1, 0.6656276041791422: 1, 0.665486541147148: 1, 0.6654786432171041: 1, 0.6654030472265859: 1, 0.6652839143987678: 1, 0.6652607337457899: 1, 0.6649653182327734: 1, 0.664546339936237: 1, 0.664370460604647: 1, 0.6643253361993245: 1, 0.6642907604506062: 1, 0.6642222316983764: 1, 0.6641215357814255: 1, 0.6640221549226997: 1, 0.6638943387355769: 1, 0.6637141611848403: 1, 0.6636436993960954: 1, 0.6635982315714394: 1, 0.6635848075153582: 1, 0.6631622071920286: 1, 0.6631257385150571: 1, 0.6631051447007095: 1, 0.6626216551776049: 1, 0.6625759203707955: 1, 0.662508710294443: 1, 0.6622926848836794: 1, 0.6622740288719868: 1, 0.6621613242145201: 1, 0.6617845455041583: 1, 0.6614357530467125: 1, 0.6612944031437743: 1, 0.6611128736551005: 1, 0.6610537855501601: 1, 0.6609946053712452: 1, 0.6609596873435606: 1, 0.6609412143627449: 1, 0.6608129626626711: 1, 0.6605484571623136: 1, 0.660320520362046: 1, 0.6600881588539118: 1, 0.6600548050283664: 1, 0.6600127927148566: 1, 0.6599014220874319: 1, 0.6598801870054888: 1, 0.659818840523639: 1, 0.6596818471620278: 1, 0.6596268701089606: 1, 0.6594885404365121: 1, 0.6589947195261227: 1, 0.6588277675900048: 1, 0.6587410310069277: 1, 0.6586812426948271: 1, 0.6585332778667583: 1, 0.6584966432601532: 1, 0.6584372803704027: 1, 0.6583799539490152: 1, 0.6583378419861817: 1, 0.6582404799350119: 1, 0.6578964077783093: 1, 0.6576091723101527: 1, 0.6576046644058606: 1, 0.657534329083788: 1, 0.6575138469167237: 1, 0.6573318474087515: 1, 0.6570092830648171: 1, 0.6569031480103787: 1, 0.65665949466488673: 1, 0.6566439656246251: 1, 0.6564638687853541: 1, 0.6564124772623687: 1, 0.656145290351774: 1, 0.6560658007599456: 1, 0.6558277297189347: 1, 0.6554032370227894: 1, 0.6553617772242613: 1, 0.6553521946207358: 1, 0.6553275572727015: 1, 0.6551777080923994: 1, 0.65512110055676: 1, 0.6551008902777022: 1, 0.6550025373207661: 1, 0.6545326376244537: 1, 0.654419665063227: 1, 0.6544022534365078: 1, 0.654305516831419: 1,

0.6542485830751961: 1, 0.6541937077750605: 1, 0.6540856240349412: 1, 0.653819954631507: 1,
0.6536897106117594: 1, 0.6536073085334573: 1, 0.6535689874168809: 1, 0.6533516998740347: 1,
0.6533356315883945: 1, 0.6532330600078055: 1, 0.6530040488353981: 1, 0.652851360424455: 1,
0.6528434757089105: 1, 0.6526652107502102: 1, 0.6526009032364437: 1, 0.6525388146140342: 1,
0.6523629628536058: 1, 0.6523095447128836: 1, 0.6522692526249305: 1, 0.6521034835905157: 1,
0.6520154275414849: 1, 0.6519485675277392: 1, 0.6519404400664526: 1, 0.6518099949854432: 1,
0.6516945962972822: 1, 0.6516853137914278: 1, 0.6516039823727994: 1, 0.6515270415085831: 1,
0.6513245598703306: 1, 0.6513122782980262: 1, 0.6512816719982186: 1, 0.6512061221125007: 1,
0.6510516743932332: 1, 0.6509660429774419: 1, 0.6508626030430282: 1, 0.6507604707689894: 1,
0.6503300112353373: 1, 0.650294648639991: 1, 0.6502531375392119: 1, 0.6502266220838866: 1,
0.649985766558988: 1, 0.6498931037997536: 1, 0.6498230259954507: 1, 0.6498217671279948: 1,
0.6495369240142541: 1, 0.6492175771206555: 1, 0.6490258500234785: 1, 0.6490226008703053: 1,
0.6489415903467343: 1, 0.6489081307672575: 1, 0.6488967694110706: 1, 0.6487075472314556: 1,
0.6484833134468627: 1, 0.64846824695118: 1, 0.6483750861009129: 1, 0.6479386485085423: 1,
0.6479061458396498: 1, 0.6477377642555002: 1, 0.6475623456375186: 1, 0.6474638869075805: 1,
0.6473580092413256: 1, 0.6473402158667302: 1, 0.6470105571812937: 1, 0.6466132782416801: 1,
0.646593327971071: 1, 0.6465570877671655: 1, 0.6465148955998143: 1, 0.6461513817521295: 1,
0.6461095079019513: 1, 0.6460823379916913: 1, 0.6456053592647449: 1, 0.6453907589506137: 1,
0.6453493035843577: 1, 0.6453407794914775: 1, 0.6451728906654227: 1, 0.6450684861075915: 1,
0.6449672458575193: 1, 0.6448401491478174: 1, 0.6447722774008608: 1, 0.6442606474442701: 1,
0.6442469365373742: 1, 0.6442080358568502: 1, 0.6441963939330663: 1, 0.6441551427207947: 1,
0.64414218265919: 1, 0.644132284976989: 1, 0.644014410182757: 1, 0.6438721565987643: 1,
0.6438523857142697: 1, 0.6437787124469562: 1, 0.6437166307302812: 1, 0.6436262741731972: 1,
0.6433554403702746: 1, 0.6432411230330107: 1, 0.6432329361706631: 1, 0.6432217610722274: 1,
0.6429761645418102: 1, 0.6429245531479373: 1, 0.6427524908856588: 1, 0.64270655328626: 1,
0.642675305335712: 1, 0.6426705292641335: 1, 0.6425558571208781: 1, 0.6425378931192419: 1,
0.6425002775438063: 1, 0.6424963723135751: 1, 0.6423598538764898: 1, 0.6422677792252486: 1,
0.6422033848591792: 1, 0.6421935712635687: 1, 0.6421320694345031: 1, 0.6420867795647132: 1,
0.6418596487179612: 1, 0.6418554120790159: 1, 0.6418060077975157: 1, 0.6416778564311649: 1,
0.6416620577193646: 1, 0.6414234680798526: 1, 0.6412919976050204: 1, 0.6410690806870291: 1,
0.6410664668531627: 1, 0.6410128513255205: 1, 0.6408789468629656: 1, 0.6406286439581442: 1,
0.6404139065794578: 1, 0.6400575115508341: 1, 0.6399689641487583: 1, 0.6399687942107363: 1,
0.6399624187489074: 1, 0.639873223182747: 1, 0.6397987789508965: 1, 0.6397742742726213: 1,
0.6393337997500538: 1, 0.639110396106265: 1, 0.6389548663215341: 1, 0.6387659885084362: 1,
0.6387317887758387: 1, 0.6384853513479912: 1, 0.6383073795670016: 1, 0.6381920954550089: 1,
0.6379294854841062: 1, 0.6378962853206495: 1, 0.6378412223271098: 1, 0.6373692868748506: 1,
0.6372484229220382: 1, 0.6370078070751604: 1, 0.6369763886483468: 1, 0.6366277089839244: 1,
0.6366258868590118: 1, 0.6365600324516494: 1, 0.6365252780236909: 1, 0.6364643610034755: 1,
0.6364620883230059: 1, 0.6363472439122795: 1, 0.6362786733365815: 1, 0.6362029255509996: 1,
0.636164386457984: 1, 0.6361443667472741: 1, 0.6360488100613857: 1, 0.6356224037769634: 1,
0.6355248646705521: 1, 0.6355238197365238: 1, 0.6354206052907082: 1, 0.6352852555113305: 1,
0.6351504781790054: 1, 0.6349523793206451: 1, 0.634944565201322: 1, 0.6347653963359156: 1,
0.6345365735332967: 1, 0.6345355065827627: 1, 0.6344958631054849: 1, 0.634490138639285: 1,
0.6344045635874977: 1, 0.6340969988583383: 1, 0.6339452690764893: 1, 0.6339225792255666: 1,
0.6337923256109037: 1, 0.6336132228412603: 1, 0.6335692502354868: 1, 0.633454090845305: 1,
0.6334240196785538: 1, 0.633394529218562: 1, 0.6332195037610342: 1, 0.6331858371450619: 1,
0.633157544107616: 1, 0.6331325639591325: 1, 0.6331023334445149: 1, 0.6330872226793478: 1,
0.6330637946964754: 1, 0.6330542651369346: 1, 0.6329714032935531: 1, 0.6328971662435523: 1,
0.6327713076275867: 1, 0.6327149023825067: 1, 0.6327145031951995: 1, 0.632622510522898: 1,
0.6325830970147966: 1, 0.6324423364530051: 1, 0.63231121715106583: 1, 0.6322671466553462: 1,
0.632138869945793: 1, 0.6320898267515637: 1, 0.6319839129876215: 1, 0.6318717381478215: 1,
0.6313332474574911: 1, 0.6309976940680688: 1, 0.6308955162462392: 1, 0.6308218152858523: 1,
0.6307729366669382: 1, 0.6306959588824201: 1, 0.6305611014245825: 1, 0.6304401406626957: 1,
0.6304061499249516: 1, 0.6303745071485114: 1, 0.630109829351983: 1, 0.6300743410182694: 1,
0.6300715470455014: 1, 0.6300454382908668: 1, 0.6299912786358323: 1, 0.6299368092548613: 1,
0.6297991316297059: 1, 0.6297662081453079: 1, 0.6296077563062562: 1, 0.6294644003391907: 1,
0.6294318430136201: 1, 0.629291333497992: 1, 0.6291995758415063: 1, 0.6290419204880832: 1,
0.6285153566623768: 1, 0.6284439330178945: 1, 0.6282306340403585: 1, 0.628093861537024: 1,
0.6277930902397393: 1, 0.6277186359049519: 1, 0.6276819578857897: 1, 0.6275309675495039: 1,
0.62736064788688: 1, 0.6272778251885468: 1, 0.6272200677388784: 1, 0.6272003690264727: 1,
0.6271700679631277: 1, 0.6271421547078923: 1, 0.6270057165148495: 1, 0.6265816628222662: 1,
0.6265785134234388: 1, 0.6265379341725693: 1, 0.6264264588547535: 1, 0.6263631184435845: 1,
0.6263601380366475: 1, 0.6260530224339617: 1, 0.6259449933717116: 1, 0.6257957638929758: 1,
0.6257796179806352: 1, 0.6257006157344736: 1, 0.625648120619261: 1, 0.6255280896033656: 1,
0.6254925435563465: 1, 0.6251686854017751: 1, 0.6249582171847365: 1, 0.6248699135988235: 1,
0.6248568216823182: 1, 0.6247970013170036: 1, 0.6247745279024631: 1, 0.6247475314125401: 1,
0.6247298804222925: 1, 0.6247170408930521: 1, 0.6245107979700452: 1, 0.6243101238124179: 1,
0.6242752343888052: 1, 0.6242674859474365: 1, 0.6241905587990965: 1, 0.6241897325440933: 1,
0.6241605900405915: 1, 0.6241201207503652: 1, 0.6240927549995046: 1, 0.6240623490902826: 1,
0.6240590806704173: 1, 0.6240571168018525: 1, 0.6238562974390495: 1, 0.6238144786846725: 1,
0.6236793838561167: 1, 0.6235209269050135: 1, 0.6234811488184678: 1, 0.6233785228289438: 1,
0.6229291518866257: 1, 0.6227326305766678: 1, 0.6223116130753006: 1, 0.6220668456104138: 1,
0.6219097805871192: 1, 0.6214511544499792: 1, 0.6214193152009628: 1, 0.6213679173189199: 1,
0.6213657661846606: 1, 0.6213282567883482: 1, 0.6212099684327499: 1, 0.6210363365122464: 1,
0.6207391610818849: 1, 0.6207201213645325: 1, 0.620681314185625: 1, 0.6205068272035497: 1,
0.6204368879950135: 1, 0.6203771929915028: 1, 0.6201345935691759: 1, 0.6201314542265334: 1,
0.6199534377694034: 1, 0.6199304815864946: 1, 0.6198241055856263: 1, 0.6196196485988134: 1.

0.6194493907648204: 1, 0.6191442976680075: 1, 0.6190056117719169: 1, 0.6188398365219032: 1,
0.618792955725152: 1, 0.6186927351926462: 1, 0.618627217465033: 1, 0.6186135074696124: 1,
0.6183753916069643: 1, 0.6183637725916306: 1, 0.6181360491100559: 1, 0.618052805509305: 1,
0.6179290793655655: 1, 0.6178518486138366: 1, 0.6177591709098197: 1, 0.6176870851083659: 1,
0.6176208544746237: 1, 0.6175893292783088: 1, 0.6174428312856101: 1, 0.6172990990496285: 1,
0.6172556183115755: 1, 0.6172529698909862: 1, 0.6172055490326942: 1, 0.6168447737376113: 1,
0.6166737118680407: 1, 0.6164923553214097: 1, 0.6161804835569521: 1, 0.6161275335064773: 1,
0.6159333835215863: 1, 0.615838868243389: 1, 0.6157139745418806: 1, 0.615712475522927: 1,
0.6157011108750408: 1, 0.6156697328281051: 1, 0.6155496458664123: 1, 0.6155191141542697: 1,
0.6154763378920388: 1, 0.6154327686615744: 1, 0.6153212118607583: 1, 0.6153147721902309: 1,
0.6152733953263777: 1, 0.6152393377368963: 1, 0.6149558069443344: 1, 0.6147160743440216: 1,
0.6146940646261989: 1, 0.6144677524699952: 1, 0.6144640508451523: 1, 0.6144157149089579: 1,
0.6144027129178914: 1, 0.614165274506616: 1, 0.6141431411539727: 1, 0.6141166809737005: 1,
0.6139756299113349: 1, 0.6139296523583204: 1, 0.6139187969222835: 1, 0.6137902602035984: 1,
0.6137060867325889: 1, 0.6136173819773654: 1, 0.6135945255283842: 1, 0.6133649529701682: 1,
0.6133558598238888: 1, 0.6133161290810518: 1, 0.6132207535541371: 1, 0.6131869435972485: 1,
0.613100161673674: 1, 0.6129793513769364: 1, 0.6129773813892151: 1, 0.6128698080019976: 1,
0.6128228348984321: 1, 0.6126763130688899: 1, 0.6125810964246098: 1, 0.6125156403563917: 1,
0.6124985626516555: 1, 0.612329473177278: 1, 0.6123233644922809: 1, 0.6122739724367461: 1,
0.6122681720201978: 1, 0.6122316412815078: 1, 0.6122086686639898: 1, 0.6120561219926697: 1,
0.6120493382623502: 1, 0.6120248783318406: 1, 0.6119778161754458: 1, 0.6119201676192354: 1,
0.6118731058809276: 1, 0.6117601285741403: 1, 0.6115404614169583: 1, 0.6112908225803376: 1,
0.6112656024027638: 1, 0.6111654929886855: 1, 0.6111246744055986: 1, 0.6110455982645905: 1,
0.6109790094531546: 1, 0.6108858904276819: 1, 0.610758235442995: 1, 0.6107123460358721: 1,
0.6105656467642165: 1, 0.6105557839989585: 1, 0.6105048097350961: 1, 0.6105029431907413: 1,
0.6104627289850663: 1, 0.6101847379869556: 1, 0.6101261888772295: 1, 0.6100384229074526: 1,
0.6100016870952533: 1, 0.6096729686172356: 1, 0.6095688306789911: 1, 0.6095279466793074: 1,
0.6092196374260925: 1, 0.6092107135692477: 1, 0.6091982966839825: 1, 0.6091819270864057: 1,
0.6090537846010425: 1, 0.6085765915235323: 1, 0.6085749157395137: 1, 0.6085667247599775: 1,
0.6085493686747658: 1, 0.60848910465624: 1, 0.6082101812781119: 1, 0.6081362756269262: 1,
0.608016270307346: 1, 0.6078554771286896: 1, 0.6075403622467166: 1, 0.607313706740005: 1,
0.607028316033227: 1, 0.6068418527614113: 1, 0.6068204045257181: 1, 0.6068200272381714: 1,
0.6067511632812648: 1, 0.6067190088858194: 1, 0.6065685406222783: 1, 0.606538026054125: 1,
0.6064345211539411: 1, 0.6064272115421161: 1, 0.6060972714526807: 1, 0.6059567666791053: 1,
0.6058019634421644: 1, 0.6057666680178375: 1, 0.6056500844163157: 1, 0.6056100690255659: 1,
0.6054545435642473: 1, 0.6053727142923768: 1, 0.6053690150431693: 1, 0.6051916149594184: 1,
0.6051793696851676: 1, 0.6050212326297264: 1, 0.6049295492393586: 1, 0.6047581962686582: 1,
0.6047195529541836: 1, 0.6045546829927156: 1, 0.6044864414431381: 1, 0.6043895630039338: 1,
0.6043288146242173: 1, 0.6043024968914007: 1, 0.6042924555676725: 1, 0.6041739277133701: 1,
0.6040082727099995: 1, 0.6037120255383704: 1, 0.6036728409524214: 1, 0.6034930373353266: 1,
0.6034677248346848: 1, 0.6032179454923985: 1, 0.6030968989200918: 1, 0.6029578188419082: 1,
0.6029532099285504: 1, 0.6026643427010954: 1, 0.602441161605511: 1, 0.602349162016908: 1,
0.6023303891969196: 1, 0.6020617106899061: 1, 0.602019913790339: 1, 0.6020130808288603: 1,
0.6019158369096851: 1, 0.6018936053729793: 1, 0.6017577360474907: 1, 0.6017468912510349: 1,
0.6016125526868481: 1, 0.6012440717647823: 1, 0.6010868776493732: 1, 0.6009727825870063: 1,
0.6008661182638468: 1, 0.6008186871853877: 1, 0.6006932784120957: 1, 0.6006770109383138: 1,
0.600539854648714: 1, 0.6005079904422608: 1, 0.600311218758566: 1, 0.6001628275233473: 1,
0.6001371417081053: 1, 0.5998552141981959: 1, 0.59966567557765553: 1, 0.5995305427446396: 1,
0.5995151987252277: 1, 0.5994568588665441: 1, 0.5993149961822272: 1, 0.5992121677327592: 1,
0.5991894704410411: 1, 0.5991804795205288: 1, 0.5990516433988786: 1, 0.5990292090122417: 1,
0.5990118775120727: 1, 0.5989036903181576: 1, 0.5987570739879435: 1, 0.5987198189178066: 1,
0.5986832727121122: 1, 0.5986292103851953: 1, 0.5986055651217559: 1, 0.5985769396017274: 1,
0.598529044377752: 1, 0.5984726736795506: 1, 0.5984714661439758: 1, 0.5981309456604084: 1,
0.5981186788332268: 1, 0.5980504310754331: 1, 0.5980178562030282: 1, 0.5979450228612021: 1,
0.5979324347056567: 1, 0.597830106278106: 1, 0.5974164058525071: 1, 0.5973348555046379: 1,
0.5972861600913482: 1, 0.5972686705811978: 1, 0.5972208421462969: 1, 0.5968969709617677: 1,
0.5968841038249597: 1, 0.596858394159479: 1, 0.5967972097716523: 1, 0.5965502821122559: 1,
0.5964211798098602: 1, 0.5962978407323735: 1, 0.5960650540783762: 1, 0.5960402454684883: 1,
0.5959160065142622: 1, 0.5958169799630795: 1, 0.5954318134079037: 1, 0.5953573348326796: 1,
0.5953043268239153: 1, 0.595110269928483: 1, 0.5950940210064977: 1, 0.594950005206071: 1,
0.594840040802652: 1, 0.5946641027524031: 1, 0.594560773002953: 1, 0.5944966121958202: 1,
0.5944276584494788: 1, 0.5942980816423489: 1, 0.5940409366005569: 1, 0.593910756010477: 1,
0.5938093127917092: 1, 0.5937891589580342: 1, 0.5936943609974888: 1, 0.5936914586849764: 1,
0.5935025973843188: 1, 0.5933185602388945: 1, 0.5932533828606555: 1, 0.5930919354680608: 1,
0.5930053094594695: 1, 0.5929956705533618: 1, 0.5927869878793696: 1, 0.5927229216875357: 1,
0.5924892116258674: 1, 0.5923261619595354: 1, 0.5922129355033997: 1, 0.5921493195438617: 1,
0.5920855339376923: 1, 0.592007551107896: 1, 0.591938650536949: 1, 0.5918621422484365: 1,
0.5917708524410784: 1, 0.5916266829634745: 1, 0.5915915377164649: 1, 0.5914650278821804: 1,
0.5914452195861393: 1, 0.5912614658683942: 1, 0.5912600905144741: 1, 0.5907384203312724: 1,
0.5906517236425589: 1, 0.590260720332369: 1, 0.5902029755442473: 1, 0.5899014185824502: 1,
0.5898406288480101: 1, 0.5898014437618196: 1, 0.5897336605587753: 1, 0.5896819119747951: 1,
0.5896302048796257: 1, 0.589596457085928: 1, 0.5894796190605374: 1, 0.5893693989305847: 1,
0.5893243752178002: 1, 0.5891856713630278: 1, 0.5890006466938698: 1, 0.5888976722177754: 1,
0.5886843863561505: 1, 0.5884240814256274: 1, 0.5880708600445516: 1, 0.5880692705546804: 1,
0.5880334379843231: 1, 0.5879989026204754: 1, 0.5879812305392765: 1, 0.587885576977448: 1,
0.587785395441627: 1, 0.5877498727841578: 1, 0.5875480675028147: 1, 0.5874438473378698: 1,
0.587395357995205: 1, 0.5872275600976333: 1, 0.5870915996869968: 1, 0.5870064681559393: 1.

0.5867575693920547: 1, 0.5865691778857949: 1, 0.5864991261765645: 1, 0.5862177659674545: 1, 0.5861953750932056: 1, 0.5861342859018597: 1, 0.5860212276055077: 1, 0.5859559887118581: 1, 0.585751802400169: 1, 0.5856509396808318: 1, 0.5855939610055538: 1, 0.5855599860451672: 1, 0.5855023904713547: 1, 0.585315220936524: 1, 0.5852365444801879: 1, 0.5850824830572658: 1, 0.5848967719854151: 1, 0.5848056013245546: 1, 0.5847787982517659: 1, 0.5846097965880986: 1, 0.584433140334869: 1, 0.584092612795743: 1, 0.5840810160120953: 1, 0.5840110301209016: 1, 0.583889657154981: 1, 0.5838502813559535: 1, 0.5838324895204106: 1, 0.5837172246126671: 1, 0.5836894360019533: 1, 0.5836595895027515: 1, 0.5832859000173233: 1, 0.5831047937724398: 1, 0.5830819335249984: 1, 0.5830592736094232: 1, 0.582967987240196: 1, 0.5828972329943076: 1, 0.5826779497242167: 1, 0.5823546239317707: 1, 0.5822763713600005: 1, 0.5821323081071665: 1, 0.5821025312516943: 1, 0.5820741455157895: 1, 0.5817631852217116: 1, 0.5816842331554903: 1, 0.5815993222845317: 1, 0.5815351914065688: 1, 0.5813714074663574: 1, 0.5813568775581042: 1, 0.581291669997537: 1, 0.5812904146616307: 1, 0.58127956346257: 1, 0.5810455015128898: 1, 0.5808488228609353: 1, 0.5807967888184067: 1, 0.5807183933493962: 1, 0.5803454776471944: 1, 0.5803039518537721: 1, 0.5796925010482156: 1, 0.5796777346053122: 1, 0.5796647147404856: 1, 0.5794472585453027: 1, 0.5793996612063986: 1, 0.5793815571343033: 1, 0.5792357652981802: 1, 0.5789904448900163: 1, 0.5785550894748926: 1, 0.578538855234133: 1, 0.578523544589931: 1, 0.5785135910927169: 1, 0.5783121117142652: 1, 0.5782682804868992: 1, 0.5781234090712737: 1, 0.5777248538148456: 1, 0.5776217533495133: 1, 0.577299165894078: 1, 0.5772888558151026: 1, 0.5772383425178769: 1, 0.5772334059898847: 1, 0.5771708274009533: 1, 0.5771527159352887: 1, 0.5770170441044975: 1, 0.5765646862116769: 1, 0.5764590079140565: 1, 0.5764170821602997: 1, 0.576371011772901: 1, 0.576350594119451: 1, 0.5763424867445366: 1, 0.5763108572047378: 1, 0.5762844921335721: 1, 0.5762576664422647: 1, 0.5759814010206892: 1, 0.575937841491555: 1, 0.575923725866999: 1, 0.5756687093641712: 1, 0.5755750083440516: 1, 0.5754286642983472: 1, 0.5753681715600053: 1, 0.5751766782851392: 1, 0.5750163108366413: 1, 0.5748478889713786: 1, 0.574840380005906: 1, 0.5747460587524008: 1, 0.5746559591966593: 1, 0.5746159120404433: 1, 0.5745008508381687: 1, 0.5743535854774702: 1, 0.5742455205471015: 1, 0.5741777711765369: 1, 0.5741056023304593: 1, 0.5739797138382223: 1, 0.5739192214761726: 1, 0.5738933352821455: 1, 0.5738617768408147: 1, 0.5738567258328633: 1, 0.5735701470451788: 1, 0.5735367464478991: 1, 0.5734719448231359: 1, 0.5733592285389688: 1, 0.5733523646571737: 1, 0.5732085845029321: 1, 0.5731770550364872: 1, 0.5731533970463273: 1, 0.5730444145549082: 1, 0.5729627768387492: 1, 0.5729317529788128: 1, 0.5729293917042694: 1, 0.5724807172757705: 1, 0.5722556037538036: 1, 0.5722181693695277: 1, 0.572167046764208: 1, 0.5718127857658711: 1, 0.5715675530572544: 1, 0.5715481348506191: 1, 0.5714386901127797: 1, 0.5713215017909478: 1, 0.5713115298559779: 1, 0.5711392525034656: 1, 0.5711323488253868: 1, 0.5710985937509024: 1, 0.571087040005115: 1, 0.5710693757107311: 1, 0.5710498736236025: 1, 0.5708507204052776: 1, 0.5707151233061172: 1, 0.5706852079150663: 1, 0.5706541086744978: 1, 0.5705968469494108: 1, 0.5705684318132698: 1, 0.5705346551976102: 1, 0.5705196007104949: 1, 0.570339089738732: 1, 0.570186221361726: 1, 0.5701849165859785: 1, 0.5701451571195001: 1, 0.5701070328395175: 1, 0.570007391739392: 1, 0.5696981635752456: 1, 0.5696873075322374: 1, 0.5696544334906465: 1, 0.5696265821527944: 1, 0.5696147147941077: 1, 0.5696102474341455: 1, 0.5695987875864931: 1, 0.5695540156074076: 1, 0.5694988305187563: 1, 0.5694903884748456: 1, 0.5694668118938051: 1, 0.5694292206287912: 1, 0.5693944804142824: 1, 0.5690604275085993: 1, 0.5690208180392408: 1, 0.568949034105335: 1, 0.5688853452049083: 1, 0.5687159695837503: 1, 0.568581066950966: 1, 0.5685682351308678: 1, 0.5685133882289769: 1, 0.5682798893945705: 1, 0.5681461731609987: 1, 0.5681375145285755: 1, 0.5680932096445049: 1, 0.5680251321936008: 1, 0.5680177285732945: 1, 0.5679715173874671: 1, 0.5679061404085372: 1, 0.5679042713344855: 1, 0.5675787317562417: 1, 0.5673684281900547: 1, 0.5673590077064585: 1, 0.567323911167363: 1, 0.5673144347306198: 1, 0.5672426230921034: 1, 0.5672313960600629: 1, 0.5670966316868192: 1, 0.5670467106868038: 1, 0.5669697811709288: 1, 0.5669673111838138: 1, 0.5668426608646469: 1, 0.5667537183911989: 1, 0.5667292959650487: 1, 0.5666925433545339: 1, 0.5666719225797787: 1, 0.5665596172440295: 1, 0.5665379651851165: 1, 0.5665370263836026: 1, 0.5664912460170548: 1, 0.5664001805649753: 1, 0.5663267628572166: 1, 0.5658833850224947: 1, 0.5658423101790363: 1, 0.5656180295460752: 1, 0.5655678292069464: 1, 0.5654148915693311: 1, 0.5653816353901651: 1, 0.5653269024681792: 1, 0.565288967507018: 1, 0.5652042827586119: 1, 0.5650733333904306: 1, 0.5648692579912246: 1, 0.5648344823372222: 1, 0.5641318957919913: 1, 0.5640562665218806: 1, 0.5639577912568545: 1, 0.5633302274472147: 1, 0.5633087503020698: 1, 0.5632471026476116: 1, 0.5630907650181401: 1, 0.5630884064388514: 1, 0.5629375642200165: 1, 0.562828142287693: 1, 0.5626599716390607: 1, 0.5625170815827161: 1, 0.5624692567674413: 1, 0.5624443380373476: 1, 0.5623700654233179: 1, 0.562179162180142: 1, 0.5618103388871856: 1, 0.5617816606997817: 1, 0.5617245883765978: 1, 0.5613242618497752: 1, 0.561165290218185: 1, 0.5611414306072583: 1, 0.5609403492172574: 1, 0.560922946207493: 1, 0.5607727299848642: 1, 0.5607673425488329: 1, 0.5607481792588938: 1, 0.5607454850512527: 1, 0.5606379247700957: 1, 0.5606289545960768: 1, 0.5606003531415631: 1, 0.5604138021381333: 1, 0.5602395545474381: 1, 0.5601626669923752: 1, 0.5599805753486491: 1, 0.5599643297443501: 1, 0.5599385749391783: 1, 0.5599273315525872: 1, 0.5598380535593251: 1, 0.5598006487005223: 1, 0.5595770773246258: 1, 0.5595408835414369: 1, 0.5594997025598364: 1, 0.559476125334184: 1, 0.5594280348710171: 1, 0.5593574689106138: 1, 0.5592763032984689: 1, 0.5591649068939055: 1, 0.5591607730756053: 1, 0.5591174142188091: 1, 0.5590070465349726: 1, 0.5589717859364138: 1, 0.5588076726483888: 1, 0.5586939174471444: 1, 0.5586630303593719: 1, 0.5583412846266483: 1, 0.5582049935079691: 1, 0.5582013847124013: 1, 0.5581239313118945: 1, 0.5580963395195883: 1, 0.5580726020711314: 1, 0.5580001067469733: 1, 0.557958846916126: 1, 0.5579495606335848: 1, 0.5578725593433327: 1, 0.5578060181715843: 1, 0.5574859851515839: 1, 0.5574611731973997: 1, 0.5573676854257262: 1, 0.557265966918941: 1, 0.5572356739173155: 1, 0.5571906255304284: 1, 0.5571700709510702: 1, 0.5570336080887607: 1, 0.5568858641133112: 1, 0.5568746283324454: 1, 0.5568557313719241: 1, 0.5567223588273257: 1, 0.5567036929883774: 1, 0.5566268512849333: 1, 0.5564756497944785: 1, 0.5563266900920386: 1, 0.5562908832597492: 1, 0.5562766227001108: 1, 0.5561933298919635: 1, 0.5561280556537616: 1, 0.5555172424810096: 1, 0.5554861320937763: 1,

..... 1, 0.5550120000000000: 1, 0.5550121210100000: 1, 0.5550120012000000: 1,
0.5554657969061091: 1, 0.5553716010629932: 1, 0.5553662954824474: 1, 0.5552759486126478: 1,
0.5552129612874389: 1, 0.5549105808815051: 1, 0.5549099379768812: 1, 0.5548586700140448: 1,
0.554835421241138: 1, 0.5547623172316721: 1, 0.554731279956376: 1, 0.5545527944424626: 1,
0.5543539238250748: 1, 0.5543148960441778: 1, 0.5542331692039988: 1, 0.5541179865712018: 1,
0.5538564755884677: 1, 0.5537812070547242: 1, 0.5537709085405583: 1, 0.5536836732035854: 1,
0.553565219562529: 1, 0.553511491395726: 1, 0.5533416357987478: 1, 0.5533148457503511: 1,
0.5532164455738362: 1, 0.5531298457182852: 1, 0.5531234143897027: 1, 0.5527060002180908: 1,
0.5526325360663762: 1, 0.5525752777058418: 1, 0.5525063778881864: 1, 0.5524405348278425: 1,
0.5522271058435658: 1, 0.5520621651425786: 1, 0.5518794423591414: 1, 0.5518653573045548: 1,
0.5518044130446716: 1, 0.5517328288736996: 1, 0.551633665011809: 1, 0.551387457826005: 1,
0.551317465022459: 1, 0.5513130869536501: 1, 0.5512197599690993: 1, 0.5509812670565852: 1,
0.5509574597469219: 1, 0.5509177519140246: 1, 0.5509000885703693: 1, 0.5508136239370981: 1,
0.5507946968243015: 1, 0.5507852912439526: 1, 0.5507420510755703: 1, 0.5507324003636258: 1,
0.5506445168909069: 1, 0.5506102226196403: 1, 0.5505585120100827: 1, 0.5505284109331137: 1,
0.550521165097863: 1, 0.5504691949133812: 1, 0.5504155565624578: 1, 0.5502336535226929: 1,
0.5500137416036692: 1, 0.549986047574409: 1, 0.5498651479177782: 1, 0.5496571878647658: 1,
0.5495993758103351: 1, 0.549589530901144: 1, 0.5495067499942055: 1, 0.5493797312366712: 1,
0.549253609085396: 1, 0.5490310205951755: 1, 0.5490163923440012: 1, 0.5490054132623126: 1,
0.5489982094149675: 1, 0.5489555189226041: 1, 0.548936041173972: 1, 0.548858842261477: 1,
0.5488380342820617: 1, 0.5487006936889454: 1, 0.5486756307253846: 1, 0.5485792965599466: 1,
0.5485422279765485: 1, 0.54851011632613: 1, 0.5483400317363404: 1, 0.5482104251514313: 1,
0.5480423886332412: 1, 0.5479308238586134: 1, 0.547874335468458: 1, 0.54780955568426: 1,
0.5477609378247248: 1, 0.5476158679788308: 1, 0.5476056459592776: 1, 0.5475531034362476: 1,
0.5475012879103895: 1, 0.5474607023636735: 1, 0.5473797670536532: 1, 0.5473125289841883: 1,
0.5472412309057855: 1, 0.5471792865336356: 1, 0.547107733603933: 1, 0.5470999606115703: 1,
0.5470615818158129: 1, 0.547042783127387: 1, 0.5469542221014096: 1, 0.5468584011755371: 1,
0.5467445087824522: 1, 0.5466505149250365: 1, 0.5466340480631273: 1, 0.5465836828228033: 1,
0.5465309003033627: 1, 0.5464175390413716: 1, 0.5463620971863278: 1, 0.5463175880063917: 1,
0.5462681308413817: 1, 0.5462220364440147: 1, 0.5459162172715356: 1, 0.5454784810533274: 1,
0.5454375848301208: 1, 0.5449728778842747: 1, 0.5448893325869442: 1, 0.544735201834667: 1,
0.5446605538703823: 1, 0.5446300283656241: 1, 0.5446183356612176: 1, 0.5445410617553004: 1,
0.5441600445274384: 1, 0.544070699250108: 1, 0.5439404633210987: 1, 0.543879718947647: 1,
0.5436815334434892: 1, 0.543649870293565: 1, 0.5435921450676666: 1, 0.5433084021009944: 1,
0.5432625137449957: 1, 0.5432217886115599: 1, 0.5432149098736038: 1, 0.5429857610151562: 1,
0.5429422312926444: 1, 0.542802147781588: 1, 0.5427977787928953: 1, 0.542797268862816: 1,
0.5427718174652092: 1, 0.542735871240039: 1, 0.5427305670824417: 1, 0.5427136049702109: 1,
0.5426492958828978: 1, 0.5426106353296078: 1, 0.542600889560486: 1, 0.542490151225744: 1,
0.5423285295575923: 1, 0.5419268972346978: 1, 0.5418760047994013: 1, 0.5417005585336173: 1,
0.5416666207643184: 1, 0.5412771435370713: 1, 0.5412629907802863: 1, 0.5412475287872163: 1,
0.541182981565253: 1, 0.5411742867688715: 1, 0.5409498800495458: 1, 0.5405664376074665: 1,
0.5405301960374275: 1, 0.5404446997643609: 1, 0.5403612040044983: 1, 0.5403220401059765: 1,
0.5402029263453062: 1, 0.5401959709866071: 1, 0.5401732491409126: 1, 0.5401140405252934: 1,
0.5400085555386271: 1, 0.5398665922484492: 1, 0.53986539655569317: 1, 0.5397369455915794: 1,
0.5397211229164183: 1, 0.5396963279700726: 1, 0.5395453642794332: 1, 0.5395357540628274: 1,
0.5394007814895635: 1, 0.5392807840207103: 1, 0.5391060690004984: 1, 0.5390260452658004: 1,
0.5390131760913196: 1, 0.5389452379206491: 1, 0.5389138530282155: 1, 0.5388087149571942: 1,
0.538515201459635: 1, 0.5385142225101036: 1, 0.5384501546400982: 1, 0.5384458595454653: 1,
0.5384094977289113: 1, 0.5383582386378561: 1, 0.5383232227978969: 1, 0.538312612662517: 1,
0.5382100223369986: 1, 0.5380906479558032: 1, 0.5380880201770608: 1, 0.5380728455638132: 1,
0.5378760832427835: 1, 0.5378346280144561: 1, 0.5378149715742343: 1, 0.5377537861629843: 1,
0.537564704537613: 1, 0.5375175004157754: 1, 0.537274737344682: 1, 0.5372103027346752: 1,
0.5370863272457606: 1, 0.5370023300477724: 1, 0.5369556414763974: 1, 0.5365778477575732: 1,
0.5365661416248311: 1, 0.5365589026768662: 1, 0.5363018374199432: 1, 0.5362258988613837: 1,
0.536047510483523: 1, 0.5360433995463314: 1, 0.5359948316850676: 1, 0.5359125289421065: 1,
0.5359038950647138: 1, 0.5358749843420497: 1, 0.5358229233282662: 1, 0.5356809055470617: 1,
0.535549215393702: 1, 0.5355402868431458: 1, 0.5353422851354762: 1, 0.5351316650652105: 1,
0.5348461073085076: 1, 0.5348264338715839: 1, 0.5344624306576515: 1, 0.5343802943058633: 1,
0.5343464657542438: 1, 0.5343180177890119: 1, 0.5341769159288765: 1, 0.5338944798001192: 1,
0.5337212103710657: 1, 0.5336773686328653: 1, 0.533552887630596: 1, 0.5331908801074828: 1,
0.5327675394443186: 1, 0.5327089447548948: 1, 0.5326648812796135: 1, 0.5325061309583723: 1,
0.5324380019281888: 1, 0.5322248003542392: 1, 0.5321830390209449: 1, 0.5320730863403962: 1,
0.5320573544100089: 1, 0.531759499310048: 1, 0.5314992459564273: 1, 0.5314768870419578: 1,
0.531314913602231: 1, 0.5312019691977492: 1, 0.5310463612583826: 1, 0.5309710739890016: 1,
0.5307166355090586: 1, 0.5305801419700127: 1, 0.5305685567169994: 1, 0.5303905244567397: 1,
0.5301850453682945: 1, 0.5301504653797391: 1, 0.5300515581648627: 1, 0.52992841326507: 1,
0.529889592741063: 1, 0.529723052332074: 1, 0.5295234310705692: 1, 0.5294576661520328: 1,
0.5294184857891024: 1, 0.5293269408100467: 1, 0.5293201113251395: 1, 0.5293048920992512: 1,
0.5292892441955799: 1, 0.5291883946813889: 1, 0.5291428290843156: 1, 0.5290503795963797: 1,
0.5290363517609868: 1, 0.5286505530762641: 1, 0.5285912091202054: 1, 0.5285816342285985: 1,
0.5285666964056259: 1, 0.5285229393156163: 1, 0.5284696727282356: 1, 0.5284613232499653: 1,
0.5283670382852682: 1, 0.5283410614623357: 1, 0.5282913880096505: 1, 0.5282860083361923: 1,
0.5279498374079759: 1, 0.5276749543629452: 1, 0.5275542868720396: 1, 0.527511770398423: 1,
0.5274607396800948: 1, 0.5274022912229537: 1, 0.527187309756269: 1, 0.5271564676139119: 1,
0.5270855231199685: 1, 0.5270012042751776: 1, 0.526979487421615: 1, 0.5269254564363767: 1,
0.5269151019870035: 1, 0.526864203312276: 1, 0.5268394704924964: 1, 0.5268187845791908: 1,
0.5268052902309767: 1, 0.5266488840327559: 1, 0.5264973089408068: 1, 0.5263914716305144: 1,
0.5260300754243171: 1, 0.5259284272215304: 1, 0.5258926352716321: 1, 0.5257510606826817: 1

0.5257402159360195: 1, 0.525691590211917: 1, 0.525551471385345: 1, 0.5255067577769243: 1, 0.5254810417497148: 1, 0.5254684321153895: 1, 0.5254167718927698: 1, 0.5253685913069837: 1, 0.5253278721579796: 1, 0.5253261027344929: 1, 0.5251636425672557: 1, 0.52501373613573: 1, 0.5249517119135942: 1, 0.5249439217864559: 1, 0.5247697182546351: 1, 0.5247629472193337: 1, 0.5246951034842073: 1, 0.5246574716085269: 1, 0.5246348035120831: 1, 0.524529496556606: 1, 0.5245000985150905: 1, 0.5242859690640742: 1, 0.524271295841041: 1, 0.5242709592529303: 1, 0.5242343024611049: 1, 0.5241060472272334: 1, 0.5240850336708859: 1, 0.5239377164855286: 1, 0.5235847368685018: 1, 0.523548989016534: 1, 0.5233578533154053: 1, 0.5233444794922464: 1, 0.5231627407677262: 1, 0.5229449478492775: 1, 0.5229113018693962: 1, 0.5228041644134385: 1, 0.5226951165045358: 1, 0.5226553641281384: 1, 0.5225753847662769: 1, 0.522541495854393: 1, 0.5224263113047862: 1, 0.5223572713874546: 1, 0.5222845871226731: 1, 0.5221124609215305: 1, 0.5220307911726358: 1, 0.5220126406681175: 1, 0.5216185555764763: 1, 0.5215808725685668: 1, 0.5213950639772065: 1, 0.521248308333488: 1, 0.5212093677364259: 1, 0.5211884510397063: 1, 0.5211614859315734: 1, 0.5210737798192715: 1, 0.5208770055241554: 1, 0.5207892718520697: 1, 0.520761207855815: 1, 0.5207576332047968: 1, 0.5207241817489779: 1, 0.5207206121453015: 1, 0.5206922140051629: 1, 0.5206450492401866: 1, 0.5205328707836857: 1, 0.5205041781886491: 1, 0.5205016945821649: 1, 0.5203972514779008: 1, 0.520256706757729: 1, 0.520145093613882: 1, 0.5200583513087466: 1, 0.519976744550592: 1, 0.5199632217077257: 1, 0.5199164761044824: 1, 0.519725693337025: 1, 0.5196953900177581: 1, 0.519662288640851: 1, 0.5196408838280193: 1, 0.519193590963667: 1, 0.5191358751757714: 1, 0.5190012967386873: 1, 0.5189679677877249: 1, 0.5189044844558027: 1, 0.5188907838749116: 1, 0.5188896675107914: 1, 0.5188894390782652: 1, 0.518809689006364: 1, 0.5187031751466107: 1, 0.5185440046966745: 1, 0.5183752064794982: 1, 0.5183704269628026: 1, 0.5183567537396029: 1, 0.5183525100321773: 1, 0.518229873003859: 1, 0.5181113094731835: 1, 0.5180766068344754: 1, 0.5180035882877538: 1, 0.5179501377851997: 1, 0.5178828851444324: 1, 0.5178630766046531: 1, 0.5178170796240847: 1, 0.5177967444219993: 1, 0.5176189602943286: 1, 0.5176032710013159: 1, 0.5175330200374525: 1, 0.5174636334636361: 1, 0.5174297976345559: 1, 0.5173907321199317: 1, 0.5173366245779291: 1, 0.5172022224899426: 1, 0.5171354217694841: 1, 0.5170744419047748: 1, 0.5169641653977384: 1, 0.5169629446474844: 1, 0.5169463017403346: 1, 0.5169299348056012: 1, 0.516922169354589: 1, 0.516912891031861: 1, 0.516710129137563: 1, 0.5166359173590163: 1, 0.5165930603167694: 1, 0.5165821536250197: 1, 0.5165126066687433: 1, 0.5163833728938962: 1, 0.5163505870308246: 1, 0.516329457260035: 1, 0.5162962228063276: 1, 0.5162610435035561: 1, 0.5161874379279346: 1, 0.5161728354329684: 1, 0.5161558495532439: 1, 0.5161447658064257: 1, 0.5160665317953677: 1, 0.5159741918736784: 1, 0.5159627576949426: 1, 0.5159469634953104: 1, 0.5159463885210486: 1, 0.5158870826194785: 1, 0.5157461300341076: 1, 0.5156207364659866: 1, 0.5155474025023337: 1, 0.5154518414880142: 1, 0.51541976191442: 1, 0.5149531093137681: 1, 0.5149082254077559: 1, 0.5146509215071582: 1, 0.5145887255206248: 1, 0.5145858799996234: 1, 0.5144252807342976: 1, 0.5144217338783851: 1, 0.5143951240540428: 1, 0.5143313451786098: 1, 0.5141510355903478: 1, 0.5141258330496631: 1, 0.5140439773804579: 1, 0.5140430204826982: 1, 0.5139481759686175: 1, 0.5138581152234265: 1, 0.5138012235839231: 1, 0.5137809813555365: 1, 0.5136728344669442: 1, 0.5135310899629784: 1, 0.5135276484301847: 1, 0.5134092093972656: 1, 0.5133624755603599: 1, 0.5130316750284105: 1, 0.5130135930256883: 1, 0.5126574277048824: 1, 0.5124764881280574: 1, 0.5124718851959019: 1, 0.5123070163987209: 1, 0.5121633417485649: 1, 0.5121198515693695: 1, 0.5120137449703381: 1, 0.5119651947008073: 1, 0.5119489422538369: 1, 0.5119389511807055: 1, 0.5119115096697369: 1, 0.511905107354671: 1, 0.5118401849762929: 1, 0.5118373014051807: 1, 0.5117606082816684: 1, 0.5117502382502708: 1, 0.5116294703418391: 1, 0.5114656318158308: 1, 0.5114133270435429: 1, 0.5113153776874041: 1, 0.5111662207196337: 1, 0.511085569975089: 1, 0.5109386638607201: 1, 0.5108933113319697: 1, 0.5108059382289775: 1, 0.5107651445266189: 1, 0.5107573762300196: 1, 0.510657195805856: 1, 0.5104470424302345: 1, 0.5104324890251654: 1, 0.5104281116114918: 1, 0.5104269789173813: 1, 0.5104108501115295: 1, 0.5101588318847015: 1, 0.5101462415974112: 1, 0.5101451430214251: 1, 0.5099601734006193: 1, 0.5099333252784196: 1, 0.5098315211877382: 1, 0.5097184171622618: 1, 0.5097105858639402: 1, 0.5095165338512773: 1, 0.50946038396752: 1, 0.5094469001926648: 1, 0.5094464179161513: 1, 0.5090802896604111: 1, 0.5087055634626413: 1, 0.5085704613589807: 1, 0.5084615994055839: 1, 0.5084355846658407: 1, 0.5084052041656538: 1, 0.5083704134844914: 1, 0.5083634098561326: 1, 0.5082899955580059: 1, 0.5082621617666753: 1, 0.5081617565504396: 1, 0.508007262097557: 1, 0.5078719798762963: 1, 0.5078013888899534: 1, 0.5077451132260483: 1, 0.5077074675601382: 1, 0.507706092147476: 1, 0.5076257127704472: 1, 0.5075891185093934: 1, 0.5075256004861474: 1, 0.5074132281311862: 1, 0.5073254572997895: 1, 0.5070355457750017: 1, 0.5069695749028408: 1, 0.5069364302133473: 1, 0.5068982077883306: 1, 0.5068868573023136: 1, 0.5067826698134413: 1, 0.5067515889252842: 1, 0.506743691333948: 1, 0.506647431380892: 1, 0.5066318907735464: 1, 0.50654876466293: 1, 0.5065419378413055: 1, 0.50623648879185: 1, 0.5060721702719272: 1, 0.5059873803401059: 1, 0.5057971435705856: 1, 0.5057685311159734: 1, 0.5056401231411451: 1, 0.5056019405795857: 1, 0.5055890739558768: 1, 0.5053219865940901: 1, 0.505283216171509: 1, 0.5052436320689341: 1, 0.5050978582456837: 1, 0.5050491105889402: 1, 0.5047088622204193: 1, 0.5044743120802355: 1, 0.5041848009217231: 1, 0.5039582064152073: 1, 0.5038274187107796: 1, 0.5037747521558811: 1, 0.5037170053445498: 1, 0.5036179694373792: 1, 0.5035994941808065: 1, 0.5035642890308881: 1, 0.5035565817829453: 1, 0.5035101826150516: 1, 0.5034665776100599: 1, 0.5032807146208251: 1, 0.5031075210200321: 1, 0.5030670197637219: 1, 0.5029913262566678: 1, 0.502775668863538: 1, 0.5027202443678852: 1, 0.5026874778329601: 1, 0.5026297930318199: 1, 0.5025099960980349: 1, 0.5022162908416631: 1, 0.5021713354648882: 1, 0.5021331850788301: 1, 0.5020958614420419: 1, 0.5020349349143214: 1, 0.5020284992860297: 1, 0.5020238000002197: 1, 0.5019021781010572: 1, 0.5018913563721662: 1, 0.5018237802707676: 1, 0.501635064576546: 1, 0.5016301542667085: 1, 0.5015669399926671: 1, 0.5014483636459585: 1, 0.5012530346136056: 1, 0.5012465031096758: 1, 0.5010639888330766: 1, 0.5008394858530396: 1, 0.5008211384481455: 1, 0.5007298118650929: 1, 0.5005820917348809: 1, 0.500577376808716: 1, 0.5005700546377932: 1, 0.5005200070762735: 1, 0.500509246040626: 1, 0.5003113166509812: 1, 0.500302853916716: 1, 0.5000918955087081: 1, 0.5000723636189291: 1

0.49997296754944526: 1, 0.499737013803087: 1, 0.4996877919752469: 1, 0.49965965053354244: 1, 0.4996085566519909: 1, 0.49952731822756163: 1, 0.49947324876433535: 1, 0.4992910095816602: 1, 0.49928847647749436: 1, 0.499234984009683: 1, 0.4991375986397505: 1, 0.498962417202708: 1, 0.49861462960257696: 1, 0.49845071135547936: 1, 0.4984207285898168: 1, 0.4982261109331387: 1, 0.49791412445107336: 1, 0.49780637053149596: 1, 0.49779837657022863: 1, 0.4977471663659918: 1, 0.49773794989764747: 1, 0.4977260526799012: 1, 0.497718737727929: 1, 0.49755097502926293: 1, 0.49747556164731466: 1, 0.49739417737727987: 1, 0.49738234851626917: 1, 0.49737243011443205: 1, 0.4973315197581014: 1, 0.49730167677123716: 1, 0.49728328135850103: 1, 0.4972504305813098: 1, 0.49669442611242054: 1, 0.4965895865443336: 1, 0.49649629474333107: 1, 0.49647380388368534: 1, 0.4964109503283283: 1, 0.49635771314589966: 1, 0.4963244810357661: 1, 0.49631654361246075: 1, 0.495995421160195: 1, 0.49597509738878: 1, 0.49582612655187397: 1, 0.4957594418456954: 1, 0.4956466993485238: 1, 0.4955406339272652: 1, 0.4955116351142297: 1, 0.49549646154376276: 1, 0.49547783487065555: 1, 0.4954050986997972: 1, 0.4953640141626472: 1, 0.49524238460706577: 1, 0.4950756357605971: 1, 0.4950066875209833: 1, 0.4947237488514685: 1, 0.49455459147283926: 1, 0.49451404994959286: 1, 0.4944197485368136: 1, 0.49417849779483547: 1, 0.4941741095169933: 1, 0.494080725442796: 1, 0.4938209438209685: 1, 0.4937410095023291: 1, 0.49373868911485513: 1, 0.49373376107743316: 1, 0.4935651918120072: 1, 0.49343556147546: 1, 0.49341662541964737: 1, 0.49336759634835936: 1, 0.49319386880317756: 1, 0.4930873552894463: 1, 0.49304821232530555: 1, 0.49299002991897944: 1, 0.4929698606269358: 1, 0.4929602873610949: 1, 0.4929407239170125: 1, 0.49281254207713443: 1, 0.4927900323869108: 1, 0.4924485581375531: 1, 0.4922813656118602: 1, 0.4922260167694914: 1, 0.4920722968383075: 1, 0.4920063635914035: 1, 0.4919573457071288: 1, 0.4919455914692488: 1, 0.4918664073777433: 1, 0.4918206277509299: 1, 0.49177952821420773: 1, 0.4917270599714476: 1, 0.4917217880289118: 1, 0.49155841693071106: 1, 0.49149448123256373: 1, 0.4914908791306618: 1, 0.4914510851246068: 1, 0.49144971547103633: 1, 0.49144970866967636: 1, 0.491425146391468: 1, 0.4913370714914235: 1, 0.49131644413480596: 1, 0.4912537762098966: 1, 0.4912023545128774: 1, 0.4909531296907811: 1, 0.4909404493595106: 1, 0.4908335329940169: 1, 0.4906802217479671: 1, 0.4905667014918394: 1, 0.4905451396584799: 1, 0.49052530899886765: 1, 0.4903464072007964: 1, 0.4902075717921738: 1, 0.4901075091837408: 1, 0.4900992712171874: 1, 0.49005212422585726: 1, 0.4899477936421551: 1, 0.48976185718599424: 1, 0.4897513040466869: 1, 0.4895845369041214: 1, 0.48955937585801645: 1, 0.48938260657610066: 1, 0.48909954539210004: 1, 0.48903704341337845: 1, 0.4889671648037155: 1, 0.4889509228513118: 1, 0.4889433397534027: 1, 0.48885564137328835: 1, 0.48878315272127565: 1, 0.4886646452278643: 1, 0.4886263532625554: 1, 0.48860851563770685: 1, 0.48854295679653703: 1, 0.4884525288103882: 1, 0.48843801202402026: 1, 0.4883741749658158: 1, 0.4883008724854994: 1, 0.4881794324052363: 1, 0.4881702968353034: 1, 0.4881343984615945: 1, 0.4880836969671273: 1, 0.48798953259522077: 1, 0.48795511368296784: 1, 0.4879503269878662: 1, 0.48794140697999344: 1, 0.48782204927063805: 1, 0.4877744218207539: 1, 0.48777440435590425: 1, 0.48776898494886217: 1, 0.48749939250470053: 1, 0.4874991094965387: 1, 0.4872775696062417: 1, 0.48699129204125624: 1, 0.4869734172502636: 1, 0.48694702212094976: 1, 0.4869275840247677: 1, 0.48691235466326016: 1, 0.48670820031596906: 1, 0.4866588423427596: 1, 0.48664805288213636: 1, 0.4865819442120027: 1, 0.4863201449507166: 1, 0.486314719860755: 1, 0.4861593005728751: 1, 0.48612837235157297: 1, 0.48607106678617534: 1, 0.4860552494783322: 1, 0.48596809564249627: 1, 0.4859364833690894: 1, 0.4858333583919417: 1, 0.48579100998939195: 1, 0.4857265380305011: 1, 0.48569590546735575: 1, 0.4855840604894083: 1, 0.48553450851114777: 1, 0.4854954647875183: 1, 0.485475773004522: 1, 0.48545768606822637: 1, 0.48540886407229306: 1, 0.4853706689062465: 1, 0.4852178497216382: 1, 0.48517492468952694: 1, 0.48504506503209904: 1, 0.4850401438132666: 1, 0.4849933817705405: 1, 0.4849024142336565: 1, 0.48484704831569375: 1, 0.4846820570441112: 1, 0.4846705994902655: 1, 0.4846701829705057: 1, 0.4843720688894674: 1, 0.48426637857162647: 1, 0.4841636018355255: 1, 0.4841401698120102: 1, 0.4839146153054317: 1, 0.4838445289832172: 1, 0.4838048327276481: 1, 0.4837762259544661: 1, 0.4837758894585706: 1, 0.4836660951607793: 1, 0.48352631376928074: 1, 0.4833739902363152: 1, 0.48328362435360617: 1, 0.4832765147288114: 1, 0.4830915236995214: 1, 0.4830882949659416: 1, 0.48307676910409797: 1, 0.4829348158936449: 1, 0.48288951653421025: 1, 0.4827655096461152: 1, 0.48269310359644196: 1, 0.48260922979094173: 1, 0.48260770518765234: 1, 0.48249166435514873: 1, 0.4824284755114715: 1, 0.4824270217424926: 1, 0.4823992143652235: 1, 0.4823717674361948: 1, 0.4822790369419572: 1, 0.4822624072630628: 1, 0.4822454554519966: 1, 0.48221346775621693: 1, 0.48208102246770185: 1, 0.48207145250182515: 1, 0.4818709838163077: 1, 0.4818159078218426: 1, 0.48180679978675683: 1, 0.48171818125335153: 1, 0.4817153613952759: 1, 0.4816049080777888: 1, 0.48116836522412343: 1, 0.48111827465989654: 1, 0.4810629676260327: 1, 0.48100161487299486: 1, 0.48098832691104143: 1, 0.48096048625657256: 1, 0.4807480240940099: 1, 0.4806338408506303: 1, 0.48060606079773177: 1, 0.48060340145638214: 1, 0.48058012307254516: 1, 0.4804830850350592: 1, 0.4804765566461708: 1, 0.48043358684852555: 1, 0.48030923399392356: 1, 0.48030865571456455: 1, 0.48029108314532665: 1, 0.48023878155352717: 1, 0.4802193994643846: 1, 0.4800425000033965: 1, 0.48001080878893665: 1, 0.4799815202592872: 1, 0.4799793152577502: 1, 0.47997369312422933: 1, 0.4799009545898038: 1, 0.47981216341328126: 1, 0.4796906171562856: 1, 0.4796544231912312: 1, 0.4794804552379501: 1, 0.47946351842463336: 1, 0.47920126593955364: 1, 0.47910264257752483: 1, 0.47903538491082664: 1, 0.4790028050416477: 1, 0.4789428018312073: 1, 0.4788790064592525: 1, 0.4787718004190178: 1, 0.4787181586273327: 1, 0.47871776134069854: 1, 0.4786802927218481: 1, 0.478486887490044: 1, 0.4784262225470088: 1, 0.4783577614956022: 1, 0.47826033858815525: 1, 0.4781707429604762: 1, 0.4780178957638017: 1, 0.477787403860664607: 1, 0.4776285119228112: 1, 0.4776020862933641: 1, 0.4775404441084315: 1, 0.4774881899425886: 1, 0.477390576131569: 1, 0.47730544911895706: 1, 0.47721390072834685: 1, 0.4771945186543893: 1, 0.4769801745996665: 1, 0.476667405285525377: 1, 0.47664035560480256: 1, 0.4763105206309468: 1, 0.47625337340085294: 1, 0.4761781529704757: 1, 0.47609920139491063: 1, 0.4760506932690855: 1, 0.4757955486221659: 1, 0.47563138797147014: 1, 0.4756179541903646: 1, 0.4755925701668775: 1, 0.47554141106226533: 1, 0.4754023234817656: 1, 0.4752051054594028: 1, 0.47519870213980533: 1, 0.47517407792348965: 1, 0.4750532631811111: 1, 0.4749078931144777: 1, 0.47489544880788737: 1, 0.4747500523815395: 1, 0.4747254792706431: 1, 0.4746897650825703: 1, 0.47464006828021: 1, 0.47442050020528527: 1, 0.4743842164223367: 1

0.42828912993802111: 1, 0.42/9601818121421: 1, 0.42/6641/1315/8416: 1, 0.42/658600836230: 1, 0.4276579766694282: 1, 0.4275888777293462: 1, 0.42754819405372646: 1, 0.4275151722188448: 1, 0.4274851221562626: 1, 0.427471946006842: 1, 0.42746798879175096: 1, 0.4273921060879037: 1, 0.42738210693889894: 1, 0.4273745979106301: 1, 0.42735452521510126: 1, 0.42732259301475184: 1, 0.42721776736270006: 1, 0.42712471766917187: 1, 0.4271176653087187: 1, 0.42708644712474675: 1, 0.42703002049625166: 1, 0.42700481056144335: 1, 0.4269524646456806: 1, 0.42677669871596763: 1, 0.42665151706426235: 1, 0.42664154629420004: 1, 0.42644641440430536: 1, 0.42633690076832415: 1, 0.42626528144816445: 1, 0.42618871088008536: 1, 0.42617120898297195: 1, 0.42616990052619075: 1, 0.42596444826073776: 1, 0.42586601609549957: 1, 0.4258570517279724: 1, 0.4258257676889669: 1, 0.42579459364559763: 1, 0.4257843462379319: 1, 0.425757865851002: 1, 0.425638801878189: 1, 0.42559021243244105: 1, 0.4255120457461665: 1, 0.4255091558348302: 1, 0.4254645733487703: 1, 0.4254611277406204: 1, 0.42537106398180413: 1, 0.4253597702464514: 1, 0.4253132826685363: 1, 0.4252676724492585: 1, 0.4251525153357905: 1, 0.42512941041841784: 1, 0.42505161460728186: 1, 0.4250163859871935: 1, 0.4250140924157716: 1, 0.42500830449499133: 1, 0.42494868107672534: 1, 0.42485728917536636: 1, 0.42480027742186344: 1, 0.42475074532379065: 1, 0.42468088936942866: 1, 0.4246651347690576: 1, 0.4245949961518463: 1, 0.42447980596971063: 1, 0.4244599920142554: 1, 0.42437892922882875: 1, 0.42415846151556846: 1, 0.424156183352231: 1, 0.4241101008100576: 1, 0.42398775791696386: 1, 0.4239528612792914: 1, 0.4239520336480116: 1, 0.42390595555133626: 1, 0.4238702940062209: 1, 0.42382112431511965: 1, 0.42377456609399544: 1, 0.42375877203650625: 1, 0.42375672004200504: 1, 0.4236747083927246: 1, 0.4235689174849951: 1, 0.42355742097498605: 1, 0.4235535295549467: 1, 0.4233724042652902: 1, 0.42331918695197324: 1, 0.42330394661922494: 1, 0.4232361479792146: 1, 0.423137613233214: 1, 0.4227681796455372: 1, 0.4227522611091134: 1, 0.4227393733641912: 1, 0.42256213388235686: 1, 0.4225032367477604: 1, 0.4224787150552964: 1, 0.4223688861303984: 1, 0.42234646040681895: 1, 0.4223397628350529: 1, 0.42231159026789866: 1, 0.42229117899449403: 1, 0.42227741125095813: 1, 0.4222261783510246: 1, 0.42217201398926246: 1, 0.4219910906470881: 1, 0.4219795073098133: 1, 0.4218090552110668: 1, 0.4217788796635422: 1, 0.4217563197147468: 1, 0.4217447003217487: 1, 0.421737944580937: 1, 0.42126008891753447: 1, 0.4212157976026133: 1, 0.4210981073739629: 1, 0.4210580402430416: 1, 0.42093796752036466: 1, 0.4209111597644103: 1, 0.4209019178675391: 1, 0.4208803754361462: 1, 0.42080627949322247: 1, 0.4207799705429385: 1, 0.4206636700473779: 1, 0.4206039966819542: 1, 0.4204062892496278: 1, 0.4201987181441237: 1, 0.42001011765869023: 1, 0.419994065615785: 1, 0.4197692216955524: 1, 0.4196112910189282: 1, 0.419592867260788: 1, 0.41947006751844834: 1, 0.4194342686760088: 1, 0.41939956601653716: 1, 0.4192895074631716: 1, 0.41918443563519403: 1, 0.4190857692099589: 1, 0.4190150944883923: 1, 0.41901500461998376: 1, 0.4189617702282582: 1, 0.4188902081064376: 1, 0.41878839571708665: 1, 0.418613118301118: 1, 0.418545006540757: 1, 0.41853908033359677: 1, 0.418490768569482: 1, 0.4184816298900216: 1, 0.418472241124832: 1, 0.4182706597178076: 1, 0.4181212029598009: 1, 0.41804562100444864: 1, 0.41797178135477336: 1, 0.4176209580047101: 1, 0.41754623603022273: 1, 0.4174786439878951: 1, 0.41742859640195784: 1, 0.4174144008934135: 1, 0.4173838011092901: 1, 0.4173703006339854: 1, 0.41734286601656656: 1, 0.41725627124516557: 1, 0.41724734303860583: 1, 0.417150715122834: 1, 0.4171177776808242: 1, 0.41709591073326463: 1, 0.4170885098290235: 1, 0.4170778154371301: 1, 0.4170490798660475: 1, 0.4168822869950865: 1, 0.41678613560999483: 1, 0.4166628376789521: 1, 0.41657095836576546: 1, 0.41649510455290684: 1, 0.41647943162724355: 1, 0.4164491010525283: 1, 0.4163272887139848: 1, 0.4161915001139955: 1, 0.41600379760134293: 1, 0.4159750605735709: 1, 0.41596488393246034: 1, 0.41589359525128156: 1, 0.41583080677375733: 1, 0.4158216155860447: 1, 0.41575890045254166: 1, 0.41575177529001894: 1, 0.4157302089054332: 1, 0.4156633144255457: 1, 0.41545483176212256: 1, 0.4153965467990522: 1, 0.4153788092928933: 1, 0.41534547034565517: 1, 0.4153119977444425: 1, 0.41523262426568075: 1, 0.4151939595552727: 1, 0.4151052685116383: 1, 0.41499840132359933: 1, 0.41499051847180435: 1, 0.41498975509951125: 1, 0.41489681173301357: 1, 0.4148382880069012: 1, 0.41483456021999493: 1, 0.41466447472657697: 1, 0.4145051348737947: 1, 0.4143382262376444: 1, 0.41430846228684487: 1, 0.4142536636992677: 1, 0.4142439772495701: 1, 0.414239324739113: 1, 0.41419670631097943: 1, 0.4140563604673297: 1, 0.4139227664892626: 1, 0.4138594051046321: 1, 0.4138466249334245: 1, 0.41381022253417343: 1, 0.4137768439953933: 1, 0.4136664161120405: 1, 0.41360349077167924: 1, 0.4135759129651473: 1, 0.41354305728531093: 1, 0.4133568028986591: 1, 0.41334369370179935: 1, 0.41321076563559545: 1, 0.41319528221241547: 1, 0.41310979121332053: 1, 0.41294348837076517: 1, 0.4129100929975272: 1, 0.41283597010496453: 1, 0.4128174511902006: 1, 0.41278131772663496: 1, 0.4127702563507457: 1, 0.41269664251234756: 1, 0.41262749058503523: 1, 0.4126050189012216: 1, 0.4126038651506497: 1, 0.4124392577434858: 1, 0.4123907221840245: 1, 0.41236737521912914: 1, 0.4122595029205121: 1, 0.4122526278770182: 1, 0.41223863662092985: 1, 0.41223733180709676: 1, 0.4121884708474323: 1, 0.412187261171193694: 1, 0.41218186557726816: 1, 0.4121243484724938: 1, 0.4120013289593981: 1, 0.4119935104739739: 1, 0.41198836046457493: 1, 0.4119438268457907: 1, 0.41193742737488487: 1, 0.41188313254878245: 1, 0.411875488163703: 1, 0.4118567513962294: 1, 0.41184710471244124: 1, 0.411832571119149: 1, 0.41181882047217616: 1, 0.41172736610940297: 1, 0.41167716817078154: 1, 0.4114952351153195: 1, 0.4114162281909133: 1, 0.4110259412119957: 1, 0.4110014677788902: 1, 0.41092478932035176: 1, 0.41090840384853056: 1, 0.4108777330949637: 1, 0.41087506420618625: 1, 0.41085496136964206: 1, 0.4108123883523933: 1, 0.41080824499215346: 1, 0.4108042987402877: 1, 0.41076743381252223: 1, 0.4106106709632455: 1, 0.410360004050433: 1, 0.41026056893173185: 1, 0.4101531742733642: 1, 0.4100928061974683: 1, 0.4100906666687728: 1, 0.41006148895474515: 1, 0.410033440317522: 1, 0.4100177347640162: 1, 0.41001406293372583: 1, 0.409999609366591: 1, 0.40996563693988936: 1, 0.40994470796464283: 1, 0.4099248982937443: 1, 0.4097765742533436: 1, 0.4097745815438457: 1, 0.4096501864594226: 1, 0.40963569398372857: 1, 0.40945493353183465: 1, 0.4093645989332723: 1, 0.40933929412763825: 1, 0.40928385855649824: 1, 0.4092496479896377: 1, 0.409111109252089: 1, 0.40900186866703825: 1, 0.40892834200648054: 1, 0.4088779185878683: 1, 0.4087065163328647: 1, 0.40858575269635: 1, 0.4085736218234882: 1, 0.4085628371720313: 1, 0.4084190936341116: 1, 0.4083540671425332: 1, 0.4083105194035305: 1, 0.4082396502554626: 1, 0.40815538005059343: 1, 0.40812605689398074: 1, 0.4078672268256462: 1, 0.4078557801006313: 1, 0.40769193152327754: 1, 0.40760796336528976: 1, 0.4074885083240866: 1,

0.4074164507706879: 1, 0.40741500800482056: 1, 0.4073981145577491: 1, 0.40726438477225896: 1,
0.4070359129739308: 1, 0.4070358205942985: 1, 0.4070345817546493: 1, 0.4069733540593871: 1,
0.40695169343649207: 1, 0.4069470315253474: 1, 0.4069056944387653: 1, 0.406822950329579: 1,
0.4068163108800361: 1, 0.4067875698481924: 1, 0.4066811880178063: 1, 0.4066362554988929: 1,
0.40661962109546534: 1, 0.4066026059819931: 1, 0.4065007929233011: 1, 0.40645779279085886: 1,
0.406328689291071: 1, 0.40629860537732987: 1, 0.40597528722018883: 1, 0.4059304415127026: 1,
0.40565712249724034: 1, 0.4056181293267765: 1, 0.4056009470931012: 1, 0.4055613817353841: 1,
0.40551660367413916: 1, 0.4054692194757009: 1, 0.40537274948186125: 1, 0.405299996356584: 1,
0.40529406958820513: 1, 0.40522368739535125: 1, 0.40521520925140897: 1, 0.40521080834817563: 1,
0.4051750717074462: 1, 0.4050940626000836: 1, 0.4050688848946511: 1, 0.405020435902129: 1,
0.40498919103348: 1, 0.40493226741786226: 1, 0.4049082566697333: 1, 0.4048483716132497: 1,
0.4047988258546308: 1, 0.4047393463904499: 1, 0.40471742692517315: 1, 0.404694684773944: 1,
0.4046781692296747: 1, 0.4045595919324763: 1, 0.40453738999982813: 1, 0.40449023474381424: 1,
0.4044254784874249: 1, 0.4043356551487039: 1, 0.4043138697706798: 1, 0.4042518512552133: 1,
0.40423367791060577: 1, 0.4042009241346341: 1, 0.40419588313155375: 1, 0.40416209311292367: 1,
0.4041619142157832: 1, 0.4041104511677293: 1, 0.40401541600611474: 1, 0.4039295226010282: 1,
0.40382116376688143: 1, 0.4037573198271088: 1, 0.4037178967899832: 1, 0.40364150343930016: 1,
0.4033936070130111: 1, 0.40326668377150476: 1, 0.40316822572755096: 1, 0.40312453163572426: 1,
0.4031112524910268: 1, 0.4031101588917092: 1, 0.4030797333533099: 1, 0.40306910952504577: 1,
0.4030558256634085: 1, 0.4030516184075803: 1, 0.40283176636144385: 1, 0.40279633884909566: 1,
0.40258156743664963: 1, 0.40251327933466446: 1, 0.40249430026275: 1, 0.40228627209836637: 1,
0.4022735700865752: 1, 0.40223315071068017: 1, 0.40218563607701924: 1, 0.402043320239276: 1,
0.4020370280089847: 1, 0.40203013406361154: 1, 0.40199896390247697: 1, 0.4019463594922182: 1,
0.40184097951557224: 1, 0.40177394273482975: 1, 0.4017627824990371: 1, 0.40171085913307963: 1,
0.4016443657000626: 1, 0.4015991529987401: 1, 0.4014627097815784: 1, 0.40127584334202165: 1,
0.40112210147154537: 1, 0.40111027579183445: 1, 0.4011096653004836: 1, 0.4011003054279725: 1,
0.4010223586012356: 1, 0.40101420644347086: 1, 0.4009689030412952: 1, 0.400960067570248: 1,
0.40083761143155155: 1, 0.4007802710602173: 1, 0.4007041176309489: 1, 0.4006495387327456: 1,
0.40064643106894554: 1, 0.4006053102815202: 1, 0.4005821507917179: 1, 0.4005335465541064: 1,
0.4004834594708065: 1, 0.4004166139254523: 1, 0.4004002609863554: 1, 0.40036064824791845: 1,
0.4002994535458664: 1, 0.40028429919402586: 1, 0.4002547077768986: 1, 0.4002307451432176: 1,
0.40020899201447446: 1, 0.40015982042324405: 1, 0.40014360128201176: 1, 0.4001171175482332: 1,
0.4000567817283477: 1, 0.40004204326916687: 1, 0.40003946133658425: 1, 0.40003887727463555: 1,
0.40002817669540097: 1, 0.4000034179145848: 1, 0.39987416229104766: 1, 0.3998636323110556: 1,
0.3998403500113348: 1, 0.39979245289681786: 1, 0.39975615768924183: 1, 0.39965977131046987: 1,
0.3995522709110396: 1, 0.399544044049669: 1, 0.3994202346169717: 1, 0.39934354881315964: 1,
0.39926678841581187: 1, 0.3991648605541206: 1, 0.3990505365079675: 1, 0.3989488368181097: 1,
0.3988821715750993: 1, 0.3987752613320236: 1, 0.39870191898278007: 1, 0.3986671298899861: 1,
0.39857236037523464: 1, 0.3985632624363422: 1, 0.39853993394694187: 1, 0.3984941134824276: 1,
0.3984513844237421: 1, 0.39831737819267155: 1, 0.3982638274481645: 1, 0.3982157626214661: 1,
0.39819323546790314: 1, 0.39807596712826887: 1, 0.39802117138266646: 1, 0.3979952600262764: 1,
0.39795521282246377: 1, 0.3978072632243031: 1, 0.39761831084751936: 1, 0.39761657771470876: 1,
0.3975769773159897: 1, 0.39751160825687176: 1, 0.39745103378164937: 1, 0.3972599452030682: 1,
0.397157319110128: 1, 0.3970837884901771: 1, 0.39707476144075127: 1, 0.39704600233901133: 1,
0.39703020646169146: 1, 0.3970275777270582: 1, 0.39701825369555754: 1, 0.3969791375921533: 1,
0.3968389121261112: 1, 0.3968308237382101: 1, 0.39676813343631157: 1, 0.39674582764475935: 1,
0.3967080092649629: 1, 0.39665263268754947: 1, 0.39661774637438113: 1, 0.3966133464256756: 1,
0.3965752433677846: 1, 0.39654448372188555: 1, 0.3965392736283463: 1, 0.39651915823757183: 1,
0.3964945169830396: 1, 0.3964827312895193: 1, 0.39647378152576085: 1, 0.39646928674327037: 1,
0.39636150135550957: 1, 0.39617279044779585: 1, 0.3960548091635762: 1, 0.3959897587721352: 1,
0.39597205286943604: 1, 0.39591258698678805: 1, 0.3958989073802082: 1, 0.3958532420885013: 1,
0.395838427736457: 1, 0.39582782183119025: 1, 0.39573307060425006: 1, 0.3957098044814203: 1,
0.39541601727873155: 1, 0.39540745591646: 1, 0.39537304184637323: 1, 0.3952904875782589: 1,
0.3951935574813909: 1, 0.3951438230547583: 1, 0.395113039386722: 1, 0.39496472339674776: 1,
0.39482593829129636: 1, 0.39481956742259844: 1, 0.39480737358736007: 1, 0.39474867732682684: 1,
0.39463727535432835: 1, 0.39463132175770915: 1, 0.39460267619862854: 1, 0.39459479853198165: 1,
0.3945887453575259: 1, 0.3945525256133096: 1, 0.39453839827770537: 1, 0.3944897376548879: 1,
0.394486674063525: 1, 0.3944136565512669: 1, 0.3941239427832408: 1, 0.3940750393750704: 1,
0.3940744470655893: 1, 0.3940740185404511: 1, 0.3940698904200345: 1, 0.39403804311743884: 1,
0.3940074687876539: 1, 0.39384634409358776: 1, 0.3936058665197766: 1, 0.3934672899634568: 1,
0.39337123545924263: 1, 0.3932738607647361: 1, 0.3930816184562998: 1, 0.39306743261133315: 1,
0.3929871127095095: 1, 0.3929115373230798: 1, 0.392895057151486: 1, 0.39285988780166586: 1,
0.3927954490753721: 1, 0.392731717854873: 1, 0.3926445309023121: 1, 0.39258035333133817: 1,
0.392575239350778: 1, 0.3924142287320031: 1, 0.39237356688346137: 1, 0.39236800213869144: 1,
0.39231761814398614: 1, 0.3922845469379872: 1, 0.3922790762309029: 1, 0.3922647423061378: 1,
0.39226380511775183: 1, 0.3921685270153576: 1, 0.3921132711838365: 1, 0.3920973977850995: 1,
0.3920767487056017: 1, 0.3919963655782545: 1, 0.3918756398104346: 1, 0.3917383304611148: 1,
0.3917256543793099: 1, 0.3916201311726452: 1, 0.39155989565905425: 1, 0.39149133518152585: 1,
0.3914571021637851: 1, 0.3914233297109212: 1, 0.3914118905785066: 1, 0.3913878066330429: 1,
0.3913398776896506: 1, 0.39129607834236635: 1, 0.3912107260896654: 1, 0.39119215081813175: 1,
0.39111905140069597: 1, 0.3911123798716938: 1, 0.39106215069667966: 1, 0.39100583028757896: 1,
0.3909637657744999: 1, 0.39092352636461636: 1, 0.3909002479141017: 1, 0.39076246717349766: 1,
0.3906282606052287: 1, 0.3906172112990343: 1, 0.3905243314088769: 1, 0.3904763510370182: 1,
0.3904370944008357: 1, 0.39016222574441006: 1, 0.39015746827331854: 1, 0.3901211687970663: 1,
0.38994252514287486: 1, 0.3897950737112133: 1, 0.38979427000276873: 1, 0.3896987314695375: 1,
0.38969727168411056: 1, 0.38968141376849197: 1, 0.3895129547852183: 1, 0.3894763694535919: 1,
0.3893330327578694: 1, 0.3893060863413314: 1, 0.3892985258168905: 1, 0.38927405519388697: 1,

0.389225046144989: 1, 0.3892109727263429: 1, 0.3891514762528486: 1, 0.3891309655438872: 1,
0.38911254344073454: 1, 0.3889825738945412: 1, 0.3888736727067899: 1, 0.3888423609563823: 1,
0.3888071988493775: 1, 0.3888008300423598: 1, 0.3887843062857439: 1, 0.3887702766173827: 1,
0.3886543450696633: 1, 0.38864038271767787: 1, 0.38855445910437986: 1, 0.38837584708562467: 1,
0.38828928895787007: 1, 0.3882094996401833: 1, 0.3881904867568917: 1, 0.3880033099330553: 1,
0.3878735700143894: 1, 0.387871024194897: 1, 0.3878449657614964: 1, 0.38772762754581924: 1,
0.38763988468682886: 1, 0.38761348237814036: 1, 0.38757281196048793: 1, 0.3874423790295463: 1,
0.3873765605959396: 1, 0.3873296747494905: 1, 0.3873168934484248: 1, 0.3871931305198951: 1,
0.38709499340923553: 1, 0.38698685709804514: 1, 0.3868528166184099: 1, 0.3868491497615289: 1,
0.38678327957632586: 1, 0.38673087589774696: 1, 0.38660732560429817: 1, 0.3863767158142528: 1,
0.3863408838218808: 1, 0.38605776929943714: 1, 0.3860391657944761: 1, 0.38602858773767784: 1,
0.38601465141672503: 1, 0.385882619899535: 1, 0.385743054610294: 1, 0.3856089030027787: 1,
0.38558424733071706: 1, 0.3855465157116555: 1, 0.3855120492140175: 1, 0.38551045485780816: 1,
0.3855043722389858: 1, 0.3854549579189527: 1, 0.38535174104772807: 1, 0.3853247559633958: 1,
0.3852282687955781: 1, 0.3851890218327255: 1, 0.38517598561386446: 1, 0.3849806732308075: 1,
0.384927466179548: 1, 0.3848524502418899: 1, 0.3847755455591011: 1, 0.3847426565502115: 1,
0.38471302092311493: 1, 0.38466424945873684: 1, 0.3846362271264012: 1, 0.38461556327654367: 1,
0.38461057430821877: 1, 0.3845660220165788: 1, 0.38456554007408433: 1, 0.3845521130162523: 1,
0.38449905169628196: 1, 0.38449810468778695: 1, 0.38445122103077906: 1, 0.384377665638576: 1,
0.38431343142897667: 1, 0.3843025171295314: 1, 0.3842589161193235: 1, 0.3841961490155456: 1,
0.38417508550483115: 1, 0.3841090713049783: 1, 0.3840989559422457: 1, 0.38404523578755523: 1,
0.38403155927262256: 1, 0.38399590080763435: 1, 0.3838643814020361: 1, 0.3838419487616004: 1,
0.3837973049686222: 1, 0.3837461832263791: 1, 0.3837047176656214: 1, 0.3836440590856212: 1,
0.38361534613611087: 1, 0.383613521871347: 1, 0.38355202179448394: 1, 0.38348730763556244: 1,
0.3833900250234674: 1, 0.3833524072819835: 1, 0.3833213045075074: 1, 0.3832928752388677: 1,
0.3830143907519055: 1, 0.3829235407288649: 1, 0.3829086996218949: 1, 0.3828055165245159: 1,
0.38279259748346617: 1, 0.382781845838844: 1, 0.38270368921915754: 1, 0.38260355948067376: 1,
0.38258597757468926: 1, 0.38255141507367824: 1, 0.3825324825433907: 1, 0.38251911424055973: 1,
0.38249872229173565: 1, 0.3824776738070293: 1, 0.38246250157392536: 1, 0.38244251089750847: 1,
0.382418925759306: 1, 0.3823825259576112: 1, 0.38235071853595426: 1, 0.38232891360657556: 1,
0.38224527272204945: 1, 0.38215144369099463: 1, 0.38212532591739035: 1, 0.3820797416731895: 1,
0.3820496993752166: 1, 0.38195355616737636: 1, 0.3819148105297043: 1, 0.38190750676334617: 1,
0.3819052145022087: 1, 0.3818810621533844: 1, 0.3817900315829061: 1, 0.3817730727348999: 1,
0.38171318450403824: 1, 0.3816672330105085: 1, 0.3816486914787739: 1, 0.3816158088862836: 1,
0.3813962546903855: 1, 0.3813353709969713: 1, 0.3812501028687194: 1, 0.3811890852409321: 1,
0.3811754398347885: 1, 0.38098134721317256: 1, 0.38097296414524817: 1, 0.3809654915020502: 1,
0.38093703024016456: 1, 0.38092816357970893: 1, 0.3808711996052028: 1, 0.3807929570675254: 1,
0.38067473294470294: 1, 0.380501460310798: 1, 0.3803291248622309: 1, 0.3802949718665692: 1,
0.3802223395830194: 1, 0.38022071303474037: 1, 0.3801207182216956: 1, 0.3800693881592319: 1,
0.37988412111292075: 1, 0.3798309521080959: 1, 0.3796405315413941: 1, 0.37956754841134077: 1,
0.3795598316101719: 1, 0.37949674088712737: 1, 0.3794935697724166: 1, 0.37939569858580036: 1,
0.3793520055901015: 1, 0.3793052311111233: 1, 0.3792977048677312: 1, 0.3792692254550465: 1,
0.37921770919758824: 1, 0.3792147068877966: 1, 0.37912194864300397: 1, 0.3790407244142297: 1,
0.37903855462545294: 1, 0.37893788279276847: 1, 0.3788204277315011: 1, 0.3788165351076996: 1,
0.37879144745136256: 1, 0.3786389997292005: 1, 0.37863280397046256: 1, 0.3785678656660693: 1,
0.3785037505336779: 1, 0.3784867785644112: 1, 0.3784375523911514: 1, 0.3784106872626119: 1,
0.3783778064039301: 1, 0.378182033512014: 1, 0.3781245514383593: 1, 0.37801602924405653: 1,
0.3779110266213596: 1, 0.37790139924263644: 1, 0.3778091082766196: 1, 0.37759239866435024: 1,
0.37758481539284555: 1, 0.3775736053774658: 1, 0.37750782608069416: 1, 0.3774023716685768: 1,
0.377395965624329: 1, 0.37737137791245057: 1, 0.3772630568631136: 1, 0.3771396172300421: 1,
0.37698176562607405: 1, 0.37682469415623804: 1, 0.37679041840136424: 1, 0.37659534271929024: 1,
0.37658682222097434: 1, 0.3765219700704565: 1, 0.3764899810974075: 1, 0.37646010749599085: 1,
0.37635686635943494: 1, 0.37614154183348136: 1, 0.37610554374523697: 1, 0.3760871416191892: 1,
0.376065562486598: 1, 0.37598885204022475: 1, 0.3759659588947034: 1, 0.3758963286848639: 1,
0.3758921643103433: 1, 0.3757853367480995: 1, 0.3756927272097677: 1, 0.375569323738315: 1,
0.3755343060372678: 1, 0.37539353603512304: 1, 0.3753769809158029: 1, 0.37527345628212966: 1,
0.37525682936631427: 1, 0.37522858495343586: 1, 0.3751780525497353: 1, 0.37514516280079135: 1,
0.3751131169037065: 1, 0.3750929436649251: 1, 0.37505462590739985: 1, 0.3750256791293053: 1,
0.3749801222463922: 1, 0.37492595820985736: 1, 0.37488964104373157: 1, 0.3748511079759002: 1,
0.37481525860148074: 1, 0.3748140605180015: 1, 0.37476880164891463: 1, 0.37460550195985365: 1,
0.37452438690854345: 1, 0.37447227180903897: 1, 0.3744389282607083: 1, 0.3744174462638636: 1,
0.37440382424622725: 1, 0.37440098291716634: 1, 0.3743458508186338: 1, 0.3742965583897595: 1,
0.3742913467696046: 1, 0.3742228966953737: 1, 0.37418169944334034: 1, 0.37417802341349565: 1,
0.37415671341076845: 1, 0.3741464201761622: 1, 0.3740546840920499: 1, 0.3740174155618324: 1,
0.3738617080138422: 1, 0.3738363914190431: 1, 0.37376386971635117: 1, 0.37373216366282674: 1,
0.3736831953976755: 1, 0.373569032206725: 1, 0.373566165280229: 1, 0.3735614315431955: 1,
0.37350661204294444: 1, 0.3734613981738998: 1, 0.3734582367535001: 1, 0.3733902422055021: 1,
0.3732828356553912: 1, 0.37325116608381387: 1, 0.37319705905227407: 1, 0.37315860142633084: 1,
0.37310616331213486: 1, 0.37309241883371896: 1, 0.3730874277191371: 1, 0.37285320762645924: 1,
0.3728427385781426: 1, 0.37269008655373576: 1, 0.37267126040925924: 1, 0.37255175122421297: 1,
0.37246203453641125: 1, 0.3723474886480044: 1, 0.3722991537401537: 1, 0.3722416418653505: 1,
0.37218931564886004: 1, 0.3721409199536791: 1, 0.37210653860077225: 1, 0.3720868277666877: 1,
0.372078726899545: 1, 0.3720218984384681: 1, 0.3720016203847158: 1, 0.3719306271698159: 1,
0.3719180701746094: 1, 0.37180919341691837: 1, 0.37168400913444566: 1, 0.37164623330365376: 1,
0.371642741818778: 1, 0.3716394169646252: 1, 0.3716349656807831: 1, 0.37150757628570336: 1,
0.371463205952372: 1, 0.37139586399919106: 1, 0.3713330552363899: 1, 0.37131497651972967: 1,
0.3712254766712203: 1, 0.37118268764659945: 1, 0.37102447747320916: 1, 0.3709162795352434: 1,

0.3708974121198712: 1, 0.3708778245544788: 1, 0.3708608097875482: 1, 0.37077297810111165: 1,
0.3703902750960768: 1, 0.37036110010306433: 1, 0.37027207363954395: 1, 0.3702439294589804: 1,
0.37020851871676264: 1, 0.3702038641098766: 1, 0.3701192054120188: 1, 0.3699574891502402: 1,
0.3699104775145792: 1, 0.36985625072119266: 1, 0.3698124770244094: 1, 0.36978757697441417: 1,
0.3697507526466745: 1, 0.3697051563463219: 1, 0.3695614311733478: 1, 0.3694795589336799: 1,
0.36945938324147887: 1, 0.3694010502340814: 1, 0.3693982990687748: 1, 0.3693529776171181: 1,
0.369291295228338: 1, 0.3692091997114302: 1, 0.36904754235469933: 1, 0.36901498385667425: 1,
0.36900609281144225: 1, 0.3689909975296744: 1, 0.3688436086206728: 1, 0.3687176375212009: 1,
0.36865325262954823: 1, 0.36861903512071037: 1, 0.3686187975327501: 1, 0.3685929684707417: 1,
0.3685572479541199: 1, 0.3684511651477231: 1, 0.3683674854252797: 1, 0.368271217566155: 1,
0.36826312697505614: 1, 0.36823909542351074: 1, 0.3682094333824995: 1, 0.3681680182089463: 1,
0.36816587607837303: 1, 0.3681073510540893: 1, 0.3679720581525549: 1, 0.3679540880053245: 1,
0.36784076827859713: 1, 0.3678308132537641: 1, 0.3677910600988562: 1, 0.3674198296939324: 1,
0.3673086835314431: 1, 0.367281606224956: 1, 0.367238051199238: 1, 0.3672045712217947: 1,
0.367180359769793: 1, 0.3671499119560256: 1, 0.3671302628121634: 1, 0.366942851534989: 1,
0.366889832708135: 1, 0.366811098766405: 1, 0.36679742494488826: 1, 0.3667062517626279: 1,
0.36670093087404515: 1, 0.3666850156575259: 1, 0.36657773636950847: 1, 0.36656103844078586: 1,
0.36652127550393443: 1, 0.36648066761437553: 1, 0.36647628045661795: 1, 0.36645688387758146: 1,
0.36645244537480487: 1, 0.3663524881812937: 1, 0.3663182550468108: 1, 0.3662225542497252: 1,
0.36612848093626965: 1, 0.366083534735302: 1, 0.36601718320532967: 1, 0.36599146992144055: 1,
0.3659887463397796: 1, 0.3659823901280977: 1, 0.36597133859749764: 1, 0.3659629886991042: 1,
0.36589969636988784: 1, 0.3658477933987609: 1, 0.3656923914802051: 1, 0.36562582888196804: 1,
0.3656007156329815: 1, 0.3655840231935575: 1, 0.36546671157486826: 1, 0.3654115209246913: 1,
0.3652031265700472: 1, 0.365179519385088: 1, 0.36508105116872436: 1, 0.3650771247097316: 1,
0.364853024702735: 1, 0.36464255427768955: 1, 0.3646211386288511: 1, 0.364604763707872: 1,
0.364515875152578: 1, 0.3644823981459619: 1, 0.36442278087042507: 1, 0.36441884072436864: 1,
0.3643765129349126: 1, 0.36431161865763734: 1, 0.36426043111217205: 1, 0.3642583326205165: 1,
0.3642054497391642: 1, 0.3641726971372903: 1, 0.36402653213691055: 1, 0.3640200246218755: 1,
0.36398636490076547: 1, 0.3639515134127325: 1, 0.36371640877520217: 1, 0.3636646535875814: 1,
0.3635913741673838: 1, 0.3635618561900641: 1, 0.3634089272190318: 1, 0.3633582008121687: 1,
0.36335464754113594: 1, 0.3633434680599736: 1, 0.36332747350471645: 1, 0.3632870869054494: 1,
0.36323989285684766: 1, 0.3632393429744892: 1, 0.36323276532407295: 1, 0.3631665426103387: 1,
0.3630035346494442: 1, 0.36293614326854345: 1, 0.36274626060771736: 1, 0.36273150519599556: 1,
0.3626273520080222: 1, 0.3626232549401927: 1, 0.36261219700535235: 1, 0.3626083269105147: 1,
0.3624907655498092: 1, 0.3624730610634613: 1, 0.36247195573685925: 1, 0.3623055399750924: 1,
0.3623019411943605: 1, 0.3622740298264585: 1, 0.36218747544022967: 1, 0.36217113687192254: 1,
0.3621525665972046: 1, 0.36213978442605765: 1, 0.3620085616766247: 1, 0.36199507008304405: 1,
0.36197064429617404: 1, 0.3619014691189381: 1, 0.36188334703034003: 1, 0.36186309534326566: 1,
0.3618243851962313: 1, 0.36176646569845927: 1, 0.36176042802782354: 1, 0.3616889340350715: 1,
0.3616481642890334: 1, 0.36164479684374395: 1, 0.3616411713817404: 1, 0.36161084484361045: 1,
0.36161069139439683: 1, 0.36150783444781337: 1, 0.36144038432940817: 1, 0.3614125750447184: 1,
0.3613433276712379: 1, 0.3612678397540175: 1, 0.3612278158218272: 1, 0.3611424746812917: 1,
0.36102061787248346: 1, 0.3609244611138207: 1, 0.36089831543274076: 1, 0.36088698733366575: 1,
0.3608740163358787: 1, 0.36085505156307063: 1, 0.36083493829016094: 1, 0.3608034134225341: 1,
0.36077288552193376: 1, 0.36069498640989547: 1, 0.3605957051747616: 1, 0.36039665537819304: 1,
0.36037035888408553: 1, 0.3603580279143222: 1, 0.36025527979432925: 1, 0.36024695121495287: 1,
0.3601503790352229: 1, 0.3601474202292768: 1, 0.3601019905183915: 1, 0.3600782462603101: 1,
0.360059002217232: 1, 0.36001754301803623: 1, 0.35997164724614233: 1, 0.35995617331079865: 1,
0.35989225313593737: 1, 0.35986284624203496: 1, 0.3597727848758887: 1, 0.3596092845327434: 1,
0.35953063404182384: 1, 0.3595090358594465: 1, 0.35928477636620254: 1, 0.3592168626804715: 1,
0.3592021758770231: 1, 0.35919379699199694: 1, 0.35914387140975484: 1, 0.35910740489708265: 1,
0.3591030528167006: 1, 0.35904001343533115: 1, 0.35894823877321336: 1, 0.35889895278404066: 1,
0.35888471000528727: 1, 0.35885838446949114: 1, 0.35881445399729606: 1, 0.3587968317098815: 1,
0.3587164419020792: 1, 0.3587094981150716: 1, 0.35870012123574113: 1, 0.3585483461021845: 1,
0.3585356351798705: 1, 0.35851034800419634: 1, 0.3584855528681648: 1, 0.35846908092367724: 1,
0.3584333163887414: 1, 0.3584243677537149: 1, 0.3583867004607942: 1, 0.3582424073050335: 1,
0.3582005881752853: 1, 0.35818723082664133: 1, 0.35815912787426263: 1, 0.35813381137661005: 1,
0.3580217851263103: 1, 0.35802061834587945: 1, 0.35801420987592486: 1, 0.35796992269237016: 1,
0.35788616359613457: 1, 0.357873754482356: 1, 0.3578085030791861: 1, 0.3577648784570509: 1,
0.35774131510044455: 1, 0.3577090060329451: 1, 0.3576829225536293: 1, 0.3576085644452171: 1,
0.35747311797391024: 1, 0.35740166320361516: 1, 0.3573457214111298: 1, 0.35726745439727464: 1,
0.35721170479371517: 1, 0.35713869248645863: 1, 0.3569657160502992: 1, 0.3569328052472194: 1,
0.3568616464286127: 1, 0.35683105555471184: 1, 0.3567463625619795: 1, 0.35663615932233084: 1,
0.3565479365748768: 1, 0.35652064985336707: 1, 0.35652033648341924: 1, 0.35649285696270644: 1,
0.35648246088796365: 1, 0.3564789218052262: 1, 0.35642051875384195: 1, 0.35641933652533503: 1,
0.3564054997510976: 1, 0.35635939302697156: 1, 0.35627515638202: 1, 0.35622856842728423: 1,
0.3562180925762047: 1, 0.35617938308774383: 1, 0.35611466815527815: 1, 0.3561070568961635: 1,
0.35601480613558345: 1, 0.3559969598056004: 1, 0.3559884320572294: 1, 0.3557981125399493: 1,
0.35577951338212527: 1, 0.35573635428896827: 1, 0.3557123674871728: 1, 0.3557084083527519: 1,
0.3557024246556032: 1, 0.3556234436656203: 1, 0.35562331743518355: 1, 0.35558250170703126: 1,
0.355562241224963: 1, 0.3555071391728976: 1, 0.35546654615284573: 1, 0.3554578414883744: 1,
0.35544912751845636: 1, 0.35544489083620734: 1, 0.355403901917728: 1, 0.3552660687016747: 1,
0.35525173499355095: 1, 0.35520791294301013: 1, 0.35512949692040485: 1, 0.35509153645624886: 1,
0.35504523028863877: 1, 0.3549574057892195: 1, 0.3549409427778136: 1, 0.35493494766434147: 1,
0.35492995434109825: 1, 0.3549022915655061: 1, 0.35489421762132367: 1, 0.3548840597218563: 1,
0.35481809457878216: 1, 0.35475832722236195: 1, 0.35462565126563816: 1, 0.3546058138932408: 1,
0.3545641336170444: 1, 0.35455143823644863: 1, 0.35448099802013633: 1, 0.35443040018004884: 1,

0.3543639081482466: 1, 0.35425580165562287: 1, 0.3542550525604534: 1, 0.35418300749552145: 1,
0.3541747905485257: 1, 0.3541469280916437: 1, 0.35411952245727446: 1, 0.3540474995184343: 1,
0.3539924206284579: 1, 0.3539795818150918: 1, 0.3538830327621727: 1, 0.3537386547677845: 1,
0.3537200318251239: 1, 0.35370292311749657: 1, 0.35353014702431157: 1, 0.3534570068548739: 1,
0.3534103675907862: 1, 0.3533881486718828: 1, 0.35335147378618725: 1, 0.35334945224046715: 1,
0.35333596382860794: 1, 0.35331229127737485: 1, 0.3532931814691086: 1, 0.3532180511752956: 1,
0.35313367484978236: 1, 0.3530571852891105: 1, 0.35297345531576246: 1, 0.35295880744710345: 1,
0.3529536062186477: 1, 0.3529179919818698: 1, 0.35290921579425855: 1, 0.3528921807239492: 1,
0.35280206519891444: 1, 0.3527684598830179: 1, 0.3526766495533337: 1, 0.3526713795086773: 1,
0.3526247752131265: 1, 0.35260286172449545: 1, 0.3525447002611757: 1, 0.3523651742131679: 1,
0.35230688289164297: 1, 0.3522826555324852: 1, 0.3522580316850081: 1, 0.35225483014089043: 1,
0.35204124879018484: 1, 0.35185699786073305: 1, 0.3518087011104111: 1, 0.35178874776986685: 1,
0.3517815363309271: 1, 0.3517806765487475: 1, 0.35166102770049623: 1, 0.351570039099136: 1,
0.3515080652390468: 1, 0.35145495482917943: 1, 0.3513821098085818: 1, 0.35131625429046426: 1,
0.35130163663811453: 1, 0.35128211605506643: 1, 0.35109270101691115: 1, 0.35101213508606843: 1,
0.3509913395788734: 1, 0.35092997251349617: 1, 0.3508490361318858: 1, 0.35084896285443395: 1,
0.3508454431062036: 1, 0.35069129662168463: 1, 0.35067192675297004: 1, 0.3506602512132363: 1,
0.3506474177090185: 1, 0.35055819858471876: 1, 0.3505250537432408: 1, 0.35042450456564056: 1,
0.350420004182791: 1, 0.3503831067463173: 1, 0.3502795937965538: 1, 0.3502479067833296: 1,
0.3502416240928608: 1, 0.35018191742432025: 1, 0.35016369918025836: 1, 0.35004031815556635: 1,
0.3499708436992841: 1, 0.3499621544936726: 1, 0.34971053022295273: 1, 0.3496914617296255: 1,
0.3496880868236122: 1, 0.349665245917093: 1, 0.34965425387204646: 1, 0.34946019302097986: 1,
0.3494493394613628: 1, 0.34944823126538727: 1, 0.34928988138711603: 1, 0.34928537282843214: 1,
0.3492539299941981: 1, 0.3492299865764641: 1, 0.34916844071440056: 1, 0.34911072084280287: 1,
0.34910352474316714: 1, 0.34907965301989863: 1, 0.3490565154590917: 1, 0.349041225435756: 1,
0.34894623327996294: 1, 0.3489371484699561: 1, 0.3489271960294623: 1, 0.34885529599276344: 1,
0.34874474094836594: 1, 0.3487401974791822: 1, 0.34868099082544307: 1, 0.34866967426746215: 1,
0.3485936679301049: 1, 0.3485270236086261: 1, 0.34848900798186133: 1, 0.3484528738068053: 1,
0.3484180375626433: 1, 0.3483907060196556: 1, 0.34834947931286847: 1, 0.34830557502138076: 1,
0.3482872369777623: 1, 0.3481969055539909: 1, 0.3481367880941834: 1, 0.34811609381999303: 1,
0.3480689898190627: 1, 0.3480325517403741: 1, 0.34796815022252026: 1, 0.3479352885214685: 1,
0.3479302718203738: 1, 0.34790013429163097: 1, 0.3478527562156401: 1, 0.3478479476976329: 1,
0.34777097829649006: 1, 0.34763921775490403: 1, 0.3475969041125952: 1, 0.3475844264366677: 1,
0.3475463018945404: 1, 0.3474604190065128: 1, 0.3474580915255947: 1, 0.3473976768437531: 1,
0.3473900303268315: 1, 0.34733317896075094: 1, 0.3472636453039707: 1, 0.34726261822174287: 1,
0.347244945476417: 1, 0.34718786431744875: 1, 0.34711088016705083: 1, 0.34709754550714034: 1,
0.34706267143050934: 1, 0.34697635007510075: 1, 0.3468134228205981: 1, 0.3467223481914747: 1,
0.34670814979058595: 1, 0.34670245865059907: 1, 0.34666469404667805: 1, 0.346588750654995: 1,
0.346553273137964: 1, 0.3465519946766344: 1, 0.3465272212191432: 1, 0.3465213468438236: 1,
0.34640811560590457: 1, 0.3460768422268647: 1, 0.3460474095565635: 1, 0.34604520846233244: 1,
0.3460431777360167: 1, 0.34599100250552195: 1, 0.3459769360392525: 1, 0.34593891176456076: 1,
0.3459367897694428: 1, 0.3459309449163695: 1, 0.3457439087524268: 1, 0.3457119211008467: 1,
0.3456416315984187: 1, 0.34562313740877143: 1, 0.3456126263726946: 1, 0.34559882204728937: 1,
0.34557333159923176: 1, 0.3455508123680331: 1, 0.3454873497093839: 1, 0.34546773469992637: 1,
0.3454572668379027: 1, 0.34543681423689365: 1, 0.3453581844148619: 1, 0.34534387459336935: 1,
0.34532050187884117: 1, 0.34519159795727916: 1, 0.3451745323209711: 1, 0.3450776725787045: 1,
0.345073013815514: 1, 0.3450449284176584: 1, 0.3450366641016849: 1, 0.3450297413949735: 1,
0.3449268741224283: 1, 0.34490922223785936: 1, 0.34488418543573185: 1, 0.3448212010210471: 1,
0.34481345056587187: 1, 0.34468741198050334: 1, 0.34456951368527744: 1, 0.34456928690431887: 1,
0.3445426957028322: 1, 0.34453508637204505: 1, 0.3445178104477002: 1, 0.3444606543796794: 1,
0.3444417705156781: 1, 0.34441378243411197: 1, 0.34441069081059256: 1, 0.34436538854875165: 1,
0.3443490813245335: 1, 0.3442967870325798: 1, 0.34423501352314245: 1, 0.34422611807047565: 1,
0.3442080565723823: 1, 0.3442080421086314: 1, 0.3441899150785628: 1, 0.34418958525129256: 1,
0.344168516066364: 1, 0.3441494049486406: 1, 0.3441494048117106: 1, 0.34412583878609115: 1,
0.34403185364342315: 1, 0.344027510265952: 1, 0.34401675627541783: 1, 0.3439829683973255: 1,
0.34392816110864977: 1, 0.34383931721420724: 1, 0.343828651318792: 1, 0.343771414351722: 1,
0.34376316118160943: 1, 0.34369089493949756: 1, 0.34348783405781996: 1, 0.3432879166026258: 1,
0.3432713805151651: 1, 0.3432521908497758: 1, 0.3431950355410692: 1, 0.34310012419654823: 1,
0.34309741685661976: 1, 0.34304903186545904: 1, 0.34300842651872115: 1, 0.3429433332390445: 1,
0.3429318588032773: 1, 0.34290476606324755: 1, 0.342831670335523: 1, 0.3427701464034885: 1,
0.3427548289547774: 1, 0.34270514030367744: 1, 0.342660187923763: 1, 0.34252143939662055: 1,
0.3424723417448085: 1, 0.34246607561953446: 1, 0.3424206170469366: 1, 0.3423623394725616: 1,
0.34232685706638377: 1, 0.3422276754945942: 1, 0.3421983785581351: 1, 0.342127610026429: 1,
0.34209052866142975: 1, 0.3420709175443482: 1, 0.3420512606649254: 1, 0.34204592129350747: 1,
0.3420120405584069: 1, 0.34180208926404776: 1, 0.3417378788740509: 1, 0.3417286735977897: 1,
0.3416869151385367: 1, 0.34165894537708896: 1, 0.341609057670538: 1, 0.34148384764094575: 1,
0.3414450687588544: 1, 0.3414300791959484: 1, 0.3414159851999889: 1, 0.3413666694415124: 1,
0.3413530687332635: 1, 0.3413298327442907: 1, 0.34128558623371447: 1, 0.341245278298041: 1,
0.34117247169636744: 1, 0.3411665480256161: 1, 0.341150143355469: 1, 0.34113190060211923: 1,
0.341123662274584: 1, 0.34108302334080765: 1, 0.34101568291742046: 1, 0.3409824243170767: 1,
0.3409651545023008: 1, 0.34089493962819735: 1, 0.3408607526994772: 1, 0.3408596130136006: 1,
0.3408571019022347: 1, 0.34080224403155934: 1, 0.34071047429377865: 1, 0.3406711049936236: 1,
0.3406339617405926: 1, 0.34057862446698717: 1, 0.34055810944122666: 1, 0.3404858658358978: 1,
0.3404051515180335: 1, 0.3403817830902373: 1, 0.3403277842969283: 1, 0.3401578555364563: 1,
0.34009729397882627: 1, 0.3400263191669191: 1, 0.3399742787904505: 1, 0.3398677137921928: 1,
0.3398426376214875: 1, 0.3397300507550202: 1, 0.33966189427823446: 1, 0.3396439233465307: 1,
0.33956184904771625: 1, 0.3394567227068238: 1, 0.3392892414233328: 1, 0.3392855970751734: 1,

0.3392574285085798: 1, 0.33924313656136323: 1, 0.33916724461548453: 1, 0.3390592210407211: 1, 0.33899243340845014: 1, 0.33896343287528335: 1, 0.3389566591869311: 1, 0.3388687296672466: 1, 0.3388648003333395: 1, 0.3388425808981985: 1, 0.3387585681313322: 1, 0.3386852599966046: 1, 0.33868464862793995: 1, 0.3385908534394479: 1, 0.3385288645209924: 1, 0.33848793440224667: 1, 0.33830069056970247: 1, 0.33814355664087814: 1, 0.3380828331030632: 1, 0.33804201816294255: 1, 0.33802561712990997: 1, 0.33800167181696944: 1, 0.3378477313288617: 1, 0.33784354789245014: 1, 0.3377942882392089: 1, 0.33768307974882283: 1, 0.33767689112052496: 1, 0.3376618318814537: 1, 0.3376420793400259: 1, 0.337630050328747: 1, 0.3376101841692032: 1, 0.3375873184696237: 1, 0.33749865465186374: 1, 0.33747396769626176: 1, 0.337450744510107: 1, 0.3371623171034425: 1, 0.3371348765609842: 1, 0.33702332306394633: 1, 0.33682672859138013: 1, 0.3367871337778916: 1, 0.33670859948161563: 1, 0.3366986151894242: 1, 0.33657975693272446: 1, 0.3365516340461762: 1, 0.33652581627068606: 1, 0.3364221476801442: 1, 0.336382755830174: 1, 0.33627203189591953: 1, 0.33619120466857044: 1, 0.3361835038465847: 1, 0.3361645543403573: 1, 0.3361136630225029: 1, 0.3360054141123092: 1, 0.33595290927697047: 1, 0.33573202687470827: 1, 0.3357208879410757: 1, 0.3356890406998752: 1, 0.3356345801659244: 1, 0.3356056061368688: 1, 0.3355735450477476: 1, 0.3355306325764722: 1, 0.3355103995905425: 1, 0.33534994390630873: 1, 0.3352387657360417: 1, 0.33520333748698916: 1, 0.335193021137718: 1, 0.33518167475503385: 1, 0.3350970689590608: 1, 0.3349465253294481: 1, 0.3349360909164128: 1, 0.33488006709992413: 1, 0.3348726572357957: 1, 0.3348644487006875: 1, 0.33482035955784595: 1, 0.3347880596614469: 1, 0.33475091156781495: 1, 0.33465088621664113: 1, 0.33462531814029756: 1, 0.3345686047331948: 1, 0.33432084999671663: 1, 0.3342137912527779: 1, 0.3341699173156103: 1, 0.3341390297340056: 1, 0.33410242297171183: 1, 0.334099417800608: 1, 0.33409623845504544: 1, 0.3340623915011212: 1, 0.334035066306098: 1, 0.33393216870876125: 1, 0.3339210502728638: 1, 0.33389196776049557: 1, 0.33385556614208184: 1, 0.33378861970869: 1, 0.33358727570577384: 1, 0.3335789704956101: 1, 0.3335574618134279: 1, 0.33354396650265944: 1, 0.33348889983879476: 1, 0.3334565060974492: 1, 0.33333055348948204: 1, 0.3333172772165292: 1, 0.33321181312479226: 1, 0.3329957596441738: 1, 0.3329254580481765: 1, 0.33292017189460404: 1, 0.3328318682345624: 1, 0.33269391456131187: 1, 0.33264213579350255: 1, 0.33257623411000364: 1, 0.332503620177865: 1, 0.3324931587752833: 1, 0.3324590286233589: 1, 0.33243061431091103: 1, 0.33237590778027504: 1, 0.3323252317232623: 1, 0.33230632032740864: 1, 0.33217853603732783: 1, 0.33205895330322077: 1, 0.33202137681755134: 1, 0.331968527376119: 1, 0.3319366617475735: 1, 0.3319351912928139: 1, 0.3319303843051563: 1, 0.33185696753855826: 1, 0.33169359398136583: 1, 0.33166797264980147: 1, 0.3315911146562997: 1, 0.33147609482033297: 1, 0.331317121635587: 1, 0.3313088245049225: 1, 0.3311929814445721: 1, 0.331145673242326: 1, 0.33112223090198856: 1, 0.33108066210726006: 1, 0.33107468567875736: 1, 0.3310551274807519: 1, 0.33081950660518133: 1, 0.3307820575151261: 1, 0.3307318070792144: 1, 0.3307108651118166: 1, 0.33062060187944725: 1, 0.330525828155976: 1, 0.3304896487806013: 1, 0.3303964027891912: 1, 0.33038921326989473: 1, 0.33038889942192895: 1, 0.33034087974619475: 1, 0.33024699826174336: 1, 0.33021252795244316: 1, 0.3301644413284728: 1, 0.3301198558815075: 1, 0.3300327097576506: 1, 0.3299024163824959: 1, 0.3298076104792295: 1, 0.32962677173258853: 1, 0.32961811125110074: 1, 0.3296168807179097: 1, 0.32961279067870686: 1, 0.32946819111999154: 1, 0.3294571473569355: 1, 0.32939734127861636: 1, 0.3293500862704792: 1, 0.32929879001656315: 1, 0.32927061456188894: 1, 0.3292369726578147: 1, 0.3290459420751324: 1, 0.32900474076107455: 1, 0.32899070671870406: 1, 0.32897423775984214: 1, 0.3288722842172772: 1, 0.32882152098330997: 1, 0.32869725564485053: 1, 0.328616008989266: 1, 0.3285387950823973: 1, 0.3284146613945566: 1, 0.32824771916765494: 1, 0.32824260171832853: 1, 0.3282207776902684: 1, 0.3281973284571782: 1, 0.3281673213220046: 1, 0.3281181675771206: 1, 0.3281094535923099: 1, 0.32806995137910844: 1, 0.3280430491148166: 1, 0.3279790005096244: 1, 0.32796138542681086: 1, 0.32794235770612873: 1, 0.32789539166157816: 1, 0.3278746618526845: 1, 0.32781541594372676: 1, 0.3278130636802546: 1, 0.3276753032353518: 1, 0.32764534816845137: 1, 0.3276336037401781: 1, 0.32753036246185835: 1, 0.32750126866038304: 1, 0.3274822794125641: 1, 0.3274131132080471: 1, 0.32740851822252626: 1, 0.3273786905189282: 1, 0.32736049434386333: 1, 0.3273003545759975: 1, 0.3272550172289466: 1, 0.3272474763449001: 1, 0.32718153172760295: 1, 0.3271563949849026: 1, 0.32714616399502916: 1, 0.32710486690320467: 1, 0.32708900868637386: 1, 0.327079976651084: 1, 0.3270246369789305: 1, 0.3269305565065282: 1, 0.3269124684103499: 1, 0.32689610898580024: 1, 0.32689252665650076: 1, 0.3268839277933027: 1, 0.32683593933816285: 1, 0.32681909528713804: 1, 0.3267617510523232: 1, 0.3266284339079875: 1, 0.3266159665747361: 1, 0.326555160163954366: 1, 0.32654892192935786: 1, 0.3264976662659914: 1, 0.32645180219764813: 1, 0.3264396855975032: 1, 0.32628295943901126: 1, 0.3262708100906401: 1, 0.3262589379878911: 1, 0.3261216719486943: 1, 0.3261061618157186: 1, 0.32609471088156133: 1, 0.32604495852714555: 1, 0.3259546881824613: 1, 0.32594717626065295: 1, 0.32589713665095255: 1, 0.3258860883668855: 1, 0.3258646969501301: 1, 0.32577412632896585: 1, 0.3257238330472706: 1, 0.3257172568125338: 1, 0.325697633679325: 1, 0.3256601036255385: 1, 0.32563965224634894: 1, 0.32563489872763285: 1, 0.3255963048221109: 1, 0.32557471871077154: 1, 0.32544860132095: 1, 0.3254261760975767: 1, 0.32539993672540146: 1, 0.3252562423071415: 1, 0.32519663795765597: 1, 0.3251111315115826: 1, 0.325056182146108137: 1, 0.32500575067519727: 1, 0.3249447800227571: 1, 0.32489992785813937: 1, 0.324841328026389: 1, 0.3248285583356406: 1, 0.32482315971598363: 1, 0.3248083850226377: 1, 0.32479385800836535: 1, 0.3247839474421613: 1, 0.32473364184281583: 1, 0.3246881107999286: 1, 0.3246409311687411: 1, 0.32460451495984466: 1, 0.3245930327125166: 1, 0.32450484105756205: 1, 0.32445572255599636: 1, 0.32438561542583727: 1, 0.3243506951590849: 1, 0.32434438265427623: 1, 0.3243217081318509: 1, 0.3243118517814441: 1, 0.32429427602555255: 1, 0.324283737956116174: 1, 0.3242265297126695: 1, 0.32409402163870626: 1, 0.3239293775501652: 1, 0.3239127516189627: 1, 0.32388903863641877: 1, 0.32368602546753644: 1, 0.323632342342536: 1, 0.3235744074648918: 1, 0.3235302744486013: 1, 0.3235023316804336: 1, 0.3234902131730689: 1, 0.3234833963498585: 1, 0.3233404243175248: 1, 0.32325493153763814: 1, 0.3231958343215175: 1, 0.3231607410644934: 1, 0.32278223122598934: 1, 0.322926003381009: 1, 0.32284689842789815: 1, 0.3227844624666006: 1, 0.322730640964184: 1, 0.3227101877103748: 1, 0.32268365773919094: 1, 0.32265327979108593: 1, 0.32244769900568054: 1, 0.3224451110414491: 1, 0.3223959607011656: 1, 0.3223425824343871: 1, 0.3222995100776637: 1, 0.3222839335190051: 1, 0.3221878886299794: 1,

0.32214340420733545: 1, 0.3220553968603947: 1, 0.321954162303459: 1, 0.3219370975914458: 1,
0.3219236135516032: 1, 0.3218849883559207: 1, 0.3217695012306473: 1, 0.32174537237436734: 1,
0.3216515739810883: 1, 0.3215684682757833: 1, 0.3215126844376092: 1, 0.3214948444849646: 1,
0.32146531433436554: 1, 0.3214550156887816: 1, 0.32139163859410014: 1, 0.3213670921881466: 1,
0.3213139352252477: 1, 0.32130747893047257: 1, 0.3212330217050732: 1, 0.3212160038061985: 1,
0.32118168800228575: 1, 0.3211795187635164: 1, 0.3211648180680423: 1, 0.3211357220142586: 1,
0.3211260282984228: 1, 0.32110359876187156: 1, 0.3210055745622621: 1, 0.3209459040912958: 1,
0.3209120632479981: 1, 0.3209071990291527: 1, 0.3208567356648013: 1, 0.32080806489247293: 1,
0.32072198097046845: 1, 0.32046253079155584: 1, 0.32044472637847027: 1, 0.3204107336030128: 1,
0.32030895468699916: 1, 0.32026342045885425: 1, 0.3202097844906479: 1, 0.3201622763616961: 1,
0.32012654325877843: 1, 0.3200962245350834: 1, 0.32004336922985505: 1, 0.31999493634727294: 1,
0.3199754193531998: 1, 0.31996509987081057: 1, 0.3199609246452877: 1, 0.31995710666332755: 1,
0.3199434958482822: 1, 0.31991505342080767: 1, 0.3199060865597885: 1, 0.31989452259004164: 1,
0.3198576711750915: 1, 0.3198399594974816: 1, 0.31972411309400867: 1, 0.31964881069153134: 1,
0.31953814102024286: 1, 0.3195347338840198: 1, 0.3194796767013663: 1, 0.31947155499991464: 1,
0.31945558225911036: 1, 0.3193957552979474: 1, 0.3193178414318775: 1, 0.31931305060089643: 1,
0.31925712486772856: 1, 0.3192534121581027: 1, 0.3192151823109037: 1, 0.3191938200659395: 1,
0.3191769281182719: 1, 0.31912892960594785: 1, 0.31911273298076387: 1, 0.31909024337880265: 1,
0.3190316041500801: 1, 0.31899454036113034: 1, 0.31898924406513146: 1, 0.3189704813060315: 1,
0.31895453682008196: 1, 0.3189202317576201: 1, 0.3188912263587521: 1, 0.31886712597604094: 1,
0.31882732307314604: 1, 0.3187909752702826: 1, 0.3187678741162311: 1, 0.31874866240452626: 1,
0.31871023343512167: 1, 0.3186620135741185: 1, 0.31863549869240854: 1, 0.31858437299381065: 1,
0.3185806828496214: 1, 0.31845904885658627: 1, 0.3184287543835059: 1, 0.3184048515715969: 1,
0.31839508354116103: 1, 0.3183823518553512: 1, 0.31831616737306456: 1, 0.3182965397554192: 1,
0.31828309659973014: 1, 0.31824333988561676: 1, 0.31822059729620567: 1, 0.3182189832027611: 1,
0.31820142365001164: 1, 0.31817684217752235: 1, 0.31813527726929436: 1, 0.3181086638954143: 1,
0.31809175115197846: 1, 0.31803064219571375: 1, 0.31802719462116: 1, 0.3180156036074991: 1,
0.3180056213092442: 1, 0.317973646497418: 1, 0.31783884499220233: 1, 0.3177523261678499: 1,
0.31759023831093613: 1, 0.3174774213983788: 1, 0.31745818921741736: 1, 0.3174109574355822: 1,
0.317390903357074145: 1, 0.3172808758176114: 1, 0.3172506709511303: 1, 0.3171535616911542: 1,
0.31709595818666003: 1, 0.3170886774927662: 1, 0.31707365287506806: 1, 0.3170304512356399: 1,
0.31702140528255085: 1, 0.3169535284323919: 1, 0.31695288402019894: 1, 0.31694891780306944: 1,
0.31685013454515354: 1, 0.316840046132204: 1, 0.31683340264056986: 1, 0.31682748341232764: 1,
0.3168220064160368: 1, 0.31680620920772024: 1, 0.3167769421273395: 1, 0.31671911450800216: 1,
0.3166830943650664: 1, 0.31666595445743173: 1, 0.31664167078590116: 1, 0.31663919223527864: 1,
0.3166078999443979: 1, 0.3166009702556854: 1, 0.31659042544510974: 1, 0.31657444986968014: 1,
0.31656628197956627: 1, 0.31656146512063615: 1, 0.3165460498464174: 1, 0.31649445174348756: 1,
0.31643822727214554: 1, 0.3163738105874059: 1, 0.3163645494266918: 1, 0.3163630773864217: 1,
0.3163292248437448: 1, 0.3162984334770986: 1, 0.3162960256512335: 1, 0.3162257047901397: 1,
0.31616926816434343: 1, 0.3161490735566249: 1, 0.31607108499695785: 1, 0.31593537995646936: 1,
0.31585794934868794: 1, 0.3158459389114288: 1, 0.3158194916376953: 1, 0.31574821733534786: 1,
0.31572465020884316: 1, 0.3156886788680414: 1, 0.31564032179489776: 1, 0.3156368088154732: 1,
0.3155928639153167: 1, 0.31558554581157394: 1, 0.315548665892559: 1, 0.3155334913223829: 1,
0.31551400084653664: 1, 0.3155129296429184: 1, 0.31530234600617787: 1, 0.31531826731828666: 1,
0.3152682090988769: 1, 0.31526573452428175: 1, 0.3152323528643195: 1, 0.3152247128955365: 1,
0.3151777110444621: 1, 0.31513017221229855: 1, 0.31511738388105115: 1, 0.3150525949040037: 1,
0.31502671058587484: 1, 0.31501759008505786: 1, 0.3149765636969176: 1, 0.3149400073195558: 1,
0.3148879182432271: 1, 0.31486995201973367: 1, 0.31486433360837274: 1, 0.3148187604112096: 1,
0.31472828348623033: 1, 0.31469893595239995: 1, 0.31467580307546: 1, 0.3146330539819126: 1,
0.3146114197696893: 1, 0.3145489277211916: 1, 0.31452762990422756: 1, 0.31452510533526284: 1,
0.3145161424111544: 1, 0.31451331448261444: 1, 0.31448168589549585: 1, 0.31447999337342825: 1,
0.3144744608941794: 1, 0.314421013255994: 1, 0.3144015343170383: 1, 0.314382147885835: 1,
0.3143310190434347: 1, 0.31433079273202114: 1, 0.31432236060686064: 1, 0.31424717849850975: 1,
0.31418301323641973: 1, 0.3141578468489803: 1, 0.3141075085007571: 1, 0.31406573208657057: 1,
0.31398653720626146: 1, 0.31394202991702247: 1, 0.31392424418510034: 1, 0.3138918137782335: 1,
0.3138397685417089: 1, 0.31381484241103724: 1, 0.31372114339237706: 1, 0.3136880955390203: 1,
0.3136591531677407: 1, 0.3136069797502783: 1, 0.31358414388043987: 1, 0.3134317850326499: 1,
0.31332487729856484: 1, 0.3132990112129071: 1, 0.3132828419960845: 1, 0.31316347852074383: 1,
0.3131171365277361: 1, 0.31309854116271824: 1, 0.3130877635199312: 1, 0.31302927344420794: 1,
0.3130248507952652: 1, 0.3129522793581263: 1, 0.3129420191928811: 1, 0.3129390644099939: 1,
0.31283136490422975: 1, 0.31282145662208916: 1, 0.3128154851185973: 1, 0.3126724471181054: 1,
0.3126680308498922: 1, 0.3126207498626062: 1, 0.31259930093550653: 1, 0.31247381102968624: 1,
0.3124588789495402: 1, 0.3124321512929062: 1, 0.3123119997947973: 1, 0.3122334795841245: 1,
0.31223111636150475: 1, 0.31218332688296846: 1, 0.3121549630447896: 1, 0.3120596457319181: 1,
0.3120594625555406: 1, 0.31195275135930617: 1, 0.3119247989363126: 1, 0.31177090159492993: 1,
0.3117463070408171: 1, 0.31173712728569963: 1, 0.31172445499863344: 1, 0.31166291472142904: 1,
0.3116244870887759: 1, 0.3116139936508439: 1, 0.3115400749549386: 1, 0.31150854977122056: 1,
0.3113120823481053: 1, 0.31128670128356445: 1, 0.31126415753792125: 1, 0.31121911866474533: 1,
0.31108543421845414: 1, 0.31108219104731977: 1, 0.31099756602187273: 1, 0.31099407258770373: 1,
0.31091957972937273: 1, 0.31090376660391905: 1, 0.3108827975982133: 1, 0.3108395517116326: 1,
0.31079658364205337: 1, 0.3107836588618463: 1, 0.3106955035920229: 1, 0.3106163938301801: 1,
0.31052876911424726: 1, 0.3105217029744531: 1, 0.31051369231994386: 1, 0.3104435609476138: 1,
0.3104041490376204: 1, 0.3103674033745626: 1, 0.3103221429942029: 1, 0.31031298190649803: 1,
0.31026361731021773: 1, 0.3101397698003379: 1, 0.3101272905123364: 1, 0.31010783428355526: 1,
0.3101033949114706: 1, 0.31010204807341474: 1, 0.3100948755180672: 1, 0.31000297721963205: 1,
0.30999100794762763: 1, 0.3099823803705679: 1, 0.309969485371975: 1, 0.3099541271788753: 1,
0.30988557984813997: 1, 0.30986897313339024: 1, 0.3098420157918052: 1, 0.30979900633805746: 1,

0.309781525870667: 1, 0.3097732404940459: 1, 0.309595841937875: 1, 0.30957413467293793: 1, 0.3095295825740602: 1, 0.3094928899750074: 1, 0.3094774181197482: 1, 0.30939178241530285: 1, 0.30937542391301925: 1, 0.30934233646351805: 1, 0.30932596575678806: 1, 0.30927243146228367: 1, 0.3091465567793831: 1, 0.30914050751252026: 1, 0.3091324375618123: 1, 0.30906127008083967: 1, 0.30898854060639974: 1, 0.3089740257479754: 1, 0.30896964126205007: 1, 0.3089527957571472: 1, 0.30890931460356214: 1, 0.30885880928754916: 1, 0.30882588118344767: 1, 0.30876777643542075: 1, 0.308708180671967: 1, 0.3085509958349: 1, 0.30841271355198463: 1, 0.3083802476872094: 1, 0.3083646272886275: 1, 0.3083577209221496: 1, 0.3083006243803558: 1, 0.3081517940449146: 1, 0.30809055057060397: 1, 0.30806395950330084: 1, 0.308003578788059: 1, 0.30794974484981036: 1, 0.3078697412156939: 1, 0.3078150014747994: 1, 0.30780086152518854: 1, 0.3077496926958415: 1, 0.30772191267321797: 1, 0.3074752657324302: 1, 0.30723906104744747: 1, 0.30716986242162425: 1, 0.30716451518751664: 1, 0.30712284147944635: 1, 0.3071096559700264: 1, 0.3070730104802413: 1, 0.30705270956441616: 1, 0.3070241095129371: 1, 0.3069981192366608: 1, 0.30698622540226056: 1, 0.30697878891775715: 1, 0.3068901539234341: 1, 0.30679728794344585: 1, 0.30678984610844995: 1, 0.30672107869707255: 1, 0.30660615027604293: 1, 0.30659679388415384: 1, 0.30654950632765665: 1, 0.3065490632360654: 1, 0.30647201891293063: 1, 0.306437082533311: 1, 0.3064166222062514: 1, 0.3063855697779285: 1, 0.3063169235276328: 1, 0.3062465100669178: 1, 0.3061885309869136: 1, 0.30617411200743544: 1, 0.30617322612041153: 1, 0.3061065311275228: 1, 0.3060846378783173: 1, 0.3060568340045113: 1, 0.3060525441194069: 1, 0.30603837901167114: 1, 0.3060216600252315: 1, 0.30601191377569564: 1, 0.3060101786862877: 1, 0.30593528116967955: 1, 0.3058946586931228: 1, 0.3058801798708918: 1, 0.3058760925927595: 1, 0.305819766528383: 1, 0.3057905352694708: 1, 0.30571310247666733: 1, 0.3056443010409115: 1, 0.3055869703162265: 1, 0.3054986773291576: 1, 0.3054589515045918: 1, 0.3054452857479459: 1, 0.30543752968433263: 1, 0.30541834987769106: 1, 0.3054101679554167: 1, 0.3053719220042827: 1, 0.30536421676754183: 1, 0.30534875734060285: 1, 0.30533590633556923: 1, 0.3053282929501773: 1, 0.30522119725732677: 1, 0.305215199994911: 1, 0.30515908180610407: 1, 0.30502442623835035: 1, 0.30498718803410785: 1, 0.3049483062293593: 1, 0.3049312536563975: 1, 0.30493103044353875: 1, 0.30485957892313836: 1, 0.3048427489185867: 1, 0.3046817352290759: 1, 0.3046734900042766: 1, 0.30460981871304627: 1, 0.3045468402994104: 1, 0.30450627463512636: 1, 0.30444158740211713: 1, 0.30435292874942216: 1, 0.30431306335101865: 1, 0.30429279653075847: 1, 0.3042371789859092: 1, 0.3041359887016597: 1, 0.3041155095477508: 1, 0.30406790987511473: 1, 0.30400635716853325: 1, 0.303933710027105: 1, 0.3039156809986273: 1, 0.30379083392328204: 1, 0.3037479767182975: 1, 0.3036041107608844: 1, 0.30359991736112635: 1, 0.303593615475086: 1, 0.30355547981064596: 1, 0.30352192349565316: 1, 0.3034620716624391: 1, 0.3034053545211093: 1, 0.30336774351185947: 1, 0.30332201106759815: 1, 0.30316991188497444: 1, 0.303168375805611: 1, 0.3031214146106588: 1, 0.30301862782554456: 1, 0.3029623075369035: 1, 0.30290301335689873: 1, 0.30280793137704004: 1, 0.302803358947673: 1, 0.30279089508241114: 1, 0.30268884115515315: 1, 0.3026762072105924: 1, 0.30265134942310573: 1, 0.3026204445335234: 1, 0.3026087756198067: 1, 0.30257044595946336: 1, 0.3024467192848739: 1, 0.30241799815479387: 1, 0.30239732118245494: 1, 0.3023964837411624: 1, 0.30233856969519063: 1, 0.3023324737025656: 1, 0.3023236429392937: 1, 0.3023114590555009: 1, 0.3023016674729113: 1, 0.30228562067976594: 1, 0.3022646101379427: 1, 0.30225875121344153: 1, 0.3022353529311786: 1, 0.3022341965504362: 1, 0.30223233747868034: 1, 0.3022231310886483: 1, 0.30218968939270374: 1, 0.30211014726412694: 1, 0.3021056072566549: 1, 0.3020796964207111: 1, 0.3020466632352996: 1, 0.3020214389292645: 1, 0.3019981710623889: 1, 0.30198217057562204: 1, 0.3019700486716859: 1, 0.30193246227554793: 1, 0.30190925469225754: 1, 0.30189265324731646: 1, 0.3018817211979162: 1, 0.30185530143074807: 1, 0.301849634212687: 1, 0.3018463432814155: 1, 0.30174683425431786: 1, 0.30169940594837574: 1, 0.3016843872486414: 1, 0.30166866311237783: 1, 0.30153947027150596: 1, 0.3015051801744755: 1, 0.30147116801916674: 1, 0.30141258226857315: 1, 0.30138341734763546: 1, 0.3013579537318437: 1, 0.3013524685477342: 1, 0.3012787817726055: 1, 0.3012646655176871: 1, 0.3012456646562941: 1, 0.3012221110526494: 1, 0.3012089367071499: 1, 0.30120196694806056: 1, 0.3011417470970235: 1, 0.3010915145062987: 1, 0.3010695718311695: 1, 0.30103617059533855: 1, 0.3009241971029156: 1, 0.3009219584941823: 1, 0.30083227933350076: 1, 0.30079742843639395: 1, 0.30073925256596074: 1, 0.30069482289168653: 1, 0.30066209849837694: 1, 0.3006391207237931: 1, 0.30062211118405635: 1, 0.30058971520371897: 1, 0.30056202616588196: 1, 0.30054537832810946: 1, 0.3004592985370525: 1, 0.30040676580020076: 1, 0.3003317917717972: 1, 0.3002797008893468: 1, 0.3001739143633371: 1, 0.30016007540915945: 1, 0.30013820878996783: 1, 0.3001323339574018: 1, 0.30012228158993565: 1, 0.30004906912210966: 1, 0.2998354658325644: 1, 0.29983282829704766: 1, 0.2998175452647327: 1, 0.29979726346470986: 1, 0.2997954938277566: 1, 0.2996155411093507: 1, 0.2995753555480405: 1, 0.2994624271861805: 1, 0.29945710643596507: 1, 0.29944441830471713: 1, 0.29937133347831046: 1, 0.2992460169729287: 1, 0.2991829002798969: 1, 0.2990986199249312: 1, 0.29907947794624445: 1, 0.2990181865423728: 1, 0.2989016108593037: 1, 0.2988942225520346: 1, 0.2988646131309075: 1, 0.29885619101822747: 1, 0.29881566391425757: 1, 0.2988027114697824: 1, 0.29869963661558274: 1, 0.2986795106122343: 1, 0.2986677740341799: 1, 0.2986350481681999: 1, 0.29858462163020566: 1, 0.2985618188196668: 1, 0.29853088159831753: 1, 0.29845435711197815: 1, 0.2983480438125409: 1, 0.2983324576428016: 1, 0.29811397833285264: 1, 0.29802335757759146: 1, 0.297999680539881: 1, 0.29798329922702327: 1, 0.2979668411915816: 1, 0.29792244618278196: 1, 0.2978934818645814: 1, 0.2978835413449011: 1, 0.29786503575960344: 1, 0.2978054946794965: 1, 0.2977695655240002: 1, 0.29767940184903674: 1, 0.29767657247707063: 1, 0.2976732218693911: 1, 0.29753504294678434: 1, 0.2974473547335347: 1, 0.2974090944084548: 1, 0.29739604741503456: 1, 0.2973949485459663: 1, 0.2973110137751014: 1, 0.2972964506083467: 1, 0.29707565212936443: 1, 0.2970395693851107: 1, 0.2970169968320977: 1, 0.296994843489811: 1, 0.2969439646265368: 1, 0.2968753091681512: 1, 0.2968334338014414: 1, 0.2967444978659463: 1, 0.2967251047068153: 1, 0.29666524655016285: 1, 0.2966145912779883: 1, 0.29653786289126105: 1, 0.2965219950978374: 1, 0.29647665966778497: 1, 0.2964358283631853: 1, 0.2964121220635971: 1, 0.29639037482480646: 1, 0.296379460422174: 1, 0.2963704907878239: 1, 0.2963503762255255: 1, 0.29627635153340165: 1, 0.29624128322764576: 1, 0.29623144143364727: 1, 0.2961948496744446: 1, 0.2961899657075032: 1, 0.29616279630738035: 1, 0.2961538110276553: 1, 0.2961324623316881: 1, 0.29611617086744413: 1, 0.2960819906361962: 1,

0.29607337532316275: 1, 0.2959519445517183: 1, 0.2959309823599181: 1, 0.2958997970401928: 1, 0.29588968092469475: 1, 0.29584700291156935: 1, 0.29580429561974386: 1, 0.2958039341677219: 1, 0.29575091050280794: 1, 0.2957214758022794: 1, 0.2957039853606435: 1, 0.2956818984831134: 1, 0.29566971473720055: 1, 0.2956693693005515: 1, 0.2956681369125068: 1, 0.2956567017004007: 1, 0.2956527930507731: 1, 0.29564555739245457: 1, 0.29562924176759553: 1, 0.29562120060700786: 1, 0.2955811648302651: 1, 0.2955430303600877: 1, 0.2955349016924808: 1, 0.29553016475206173: 1, 0.2954912840003045: 1, 0.29548738469300656: 1, 0.2954674403743654: 1, 0.29543598237056345: 1, 0.2954179485832659: 1, 0.29538566574140335: 1, 0.2953757309135258: 1, 0.2953505975934682: 1, 0.2953478811454789: 1, 0.29534170558464506: 1, 0.2953245936930127: 1, 0.2952853673546575: 1, 0.2952739241900293: 1, 0.2951445594247596: 1, 0.2950892997481196: 1, 0.29504737518827384: 1, 0.29504721227134134: 1, 0.2950251866738969: 1, 0.2949640978542022: 1, 0.2949539323777554: 1, 0.2949143244253354: 1, 0.2949031327366585: 1, 0.2948968443600035: 1, 0.2948866656207114: 1, 0.2948487800572997: 1, 0.2948179273574776: 1, 0.2947523860340348: 1, 0.29472723291495967: 1, 0.294718777286851: 1, 0.2947144796448544: 1, 0.29463101063252717: 1, 0.2945641147501146: 1, 0.2945440596741912: 1, 0.29451491719827355: 1, 0.2945121209694879: 1, 0.2944952658380175: 1, 0.29446120129557574: 1, 0.29443527423211596: 1, 0.2944023968487618: 1, 0.294322442767894: 1, 0.29425884805962227: 1, 0.2941569495820774: 1, 0.2941063571834071: 1, 0.2940684416192491: 1, 0.29406157665744836: 1, 0.29405632055484626: 1, 0.29402083319607003: 1, 0.29401481577619687: 1, 0.2939926033837977: 1, 0.29397511044161695: 1, 0.2939723446455322: 1, 0.29377587723992094: 1, 0.2937442893135471: 1, 0.29373082057365385: 1, 0.2937126796701089: 1, 0.2937115671028246: 1, 0.29368325310632315: 1, 0.2935642591237521: 1, 0.293542429421324: 1, 0.29348708936087015: 1, 0.29346492175595446: 1, 0.2934529651226623: 1, 0.2933774020485719: 1, 0.29334380633721346: 1, 0.29333589842904606: 1, 0.2933081575030871: 1, 0.29325126066585927: 1, 0.2931948952794324: 1, 0.29315897722179085: 1, 0.2931455841196568: 1, 0.29313899975111973: 1, 0.29305641597130105: 1, 0.2930373631892715: 1, 0.2930174883111023: 1, 0.29298233373346017: 1, 0.2929675333023559: 1, 0.29296224622773276: 1, 0.29275019090078214: 1, 0.29274746405242263: 1, 0.2927236874862654: 1, 0.2926208669608456: 1, 0.2926120472447657: 1, 0.2925946056049809: 1, 0.2925823043414353: 1, 0.29258024694834134: 1, 0.29256581449190544: 1, 0.29254767486213973: 1, 0.2924778573167813: 1, 0.2923848893772648: 1, 0.29226036172444714: 1, 0.29210310597655265: 1, 0.2920644301721163: 1, 0.29202566407535696: 1, 0.2920219832484329: 1, 0.29201554079698394: 1, 0.2919962678365155: 1, 0.29195514882948714: 1, 0.29188627296219666: 1, 0.2918811996474449: 1, 0.2918302852009498: 1, 0.29180308265021526: 1, 0.2917714301708592: 1, 0.29175861760855537: 1, 0.29171600196314035: 1, 0.291697707286471: 1, 0.29168277116954744: 1, 0.29167751442154044: 1, 0.29166385944407774: 1, 0.2915967080360938: 1, 0.2915565429601071: 1, 0.29150945061667255: 1, 0.29149606297591196: 1, 0.2914388247859611: 1, 0.29136278682886046: 1, 0.29119057088918154: 1, 0.2911863034503396: 1, 0.29105595014746355: 1, 0.29100185497201286: 1, 0.29098162712892695: 1, 0.29092976979372465: 1, 0.29087740608535906: 1, 0.2908715887597327: 1, 0.29084414998770597: 1, 0.2907678897131003: 1, 0.290762416017257: 1, 0.29065503357429495: 1, 0.29056641558416474: 1, 0.29046800347439417: 1, 0.29045883112318255: 1, 0.2903704977236629: 1, 0.29037017074494337: 1, 0.2903649649919489: 1, 0.2903421290783789: 1, 0.2903140247040663: 1, 0.2902859792738041: 1, 0.2901515594284694: 1, 0.29009433106868: 1, 0.2900936519538265: 1, 0.2899925812242762: 1, 0.28998601928071477: 1, 0.28996584235541: 1, 0.2898772004116372: 1, 0.28987489764663926: 1, 0.2898281002040237: 1, 0.28973786920842: 1, 0.2896923349174311: 1, 0.28952475246535303: 1, 0.2894139770280496: 1, 0.2893601255921314: 1, 0.2893539541439253: 1, 0.28927923682235834: 1, 0.28927746649860714: 1, 0.28917864365671014: 1, 0.2891490624711395: 1, 0.289098797963831503: 1, 0.2890959132207145: 1, 0.2890914220886759: 1, 0.2890851986495041: 1, 0.2889440553033486: 1, 0.2887700133088819: 1, 0.2887500068439336: 1, 0.2887499230504245: 1, 0.2886213544734623: 1, 0.2885676985145421: 1, 0.2885469788609023: 1, 0.2884757938687279: 1, 0.2884519882837516: 1, 0.28845029489324675: 1, 0.2884437149956206: 1, 0.28841168010391804: 1, 0.2883765629206238: 1, 0.28834574268989194: 1, 0.28830123665655427: 1, 0.28826971287558906: 1, 0.2882576195792811: 1, 0.2882527909904225: 1, 0.28823587249830557: 1, 0.28795018176950854: 1, 0.287855687824482: 1, 0.2877812334969229: 1, 0.28778041586517644: 1, 0.28778017971596775: 1, 0.28774635797728354: 1, 0.28771986539150146: 1, 0.2876913718029253: 1, 0.2876035646498018: 1, 0.28759953977305913: 1, 0.2875691197526791: 1, 0.2875513552611411: 1, 0.2875036161661295: 1, 0.28744160056204976: 1, 0.28735966356724874: 1, 0.2872883466934206: 1, 0.287245106268187: 1, 0.2872221807594831: 1, 0.2871830920224451: 1, 0.2871367078614813: 1, 0.2870125374634878: 1, 0.28699050526872594: 1, 0.28696628384832207: 1, 0.2869480134698028: 1, 0.2869420345834923: 1, 0.2869049624091802: 1, 0.2868467909437889: 1, 0.28679028367012777: 1, 0.2867662889971403: 1, 0.2867458782540262: 1, 0.2867341024476155: 1, 0.28666838326648125: 1, 0.28660643227493154: 1, 0.28660611185354945: 1, 0.28653063161541126: 1, 0.28651000137166494: 1, 0.28642858390105475: 1, 0.28632246715244464: 1, 0.28630667619635797: 1, 0.28630653072096995: 1, 0.2862233743226652: 1, 0.28621195110581676: 1, 0.2861900610754445: 1, 0.2861837283181481: 1, 0.28618266740567333: 1, 0.28611760967151756: 1, 0.2860760414942204: 1, 0.2860629938588967: 1, 0.2860482329388135: 1, 0.2860400660171403: 1, 0.2860156095249637: 1, 0.285984271463372: 1, 0.28585054219298545: 1, 0.2857752287187723: 1, 0.2857494596734672: 1, 0.28574656067373144: 1, 0.28571964973376573: 1, 0.28568712910977817: 1, 0.28555589067617937: 1, 0.2854592480855864: 1, 0.2854157535518001: 1, 0.2854079026611731: 1, 0.2853807492056531: 1, 0.285351875969924: 1, 0.2852466558963833: 1, 0.2852211570646646: 1, 0.2851850952758055: 1, 0.28517799702666463: 1, 0.28517700903838256: 1, 0.2851505205626274: 1, 0.2851377246408265: 1, 0.2851364150030736: 1, 0.2851194375414978: 1, 0.285102280031315: 1, 0.28509324656216883: 1, 0.28508879071592225: 1, 0.2850840886656602: 1, 0.2850069027826228: 1, 0.2849098619842711: 1, 0.28485835233219226: 1, 0.2847954325719694: 1, 0.28478979952481936: 1, 0.28475262061632267: 1, 0.2846900024549954: 1, 0.28466408842837604: 1, 0.28465497158346525: 1, 0.28462059969750053: 1, 0.2844917935271588: 1, 0.28447020736049466: 1, 0.2844340081336484: 1, 0.28440509976454365: 1, 0.2843899545137585: 1, 0.28437980368403104: 1, 0.2841943584133098: 1, 0.28410890043690673: 1, 0.2840849083706988: 1, 0.2840758182858243: 1, 0.2840563203151032: 1, 0.28405120175861776: 1, 0.2840412879721367: 1, 0.2840359903826955: 1, 0.28400593708015315: 1, 0.2839476440154161: 1, 0.28386149246058184: 1, 0.2838419120560097: 1, 0.28381913253787205: 1, 0.2838113601255188: 1,

0.2837936126368375: 1, 0.2837722699586206: 1, 0.2837535861018489: 1, 0.28375151493886236: 1, 0.2837213587267874: 1, 0.28371141528056854: 1, 0.28370764334782467: 1, 0.2836378841334523: 1, 0.28363656341296484: 1, 0.2836350256836176: 1, 0.2835532328212558: 1, 0.2834307550622225: 1, 0.28341656326836573: 1, 0.2834065940383245: 1, 0.2833740727980162: 1, 0.2833644621213528: 1, 0.283313560653084: 1, 0.28330380864553795: 1, 0.2832847377016154: 1, 0.28323955676473234: 1, 0.2831550824725917: 1, 0.28312773801849245: 1, 0.28311147557001687: 1, 0.28308495150722396: 1, 0.2830741769273602: 1, 0.2830559896732863: 1, 0.2830192159686897: 1, 0.2829850856884721: 1, 0.2829348790434406: 1, 0.2828241623463364: 1, 0.2827967630880059: 1, 0.28278714401836424: 1, 0.28270798391426366: 1, 0.2826900366559182: 1, 0.28264044240544645: 1, 0.2825744675959916: 1, 0.2825648534485248: 1, 0.2825436319465575: 1, 0.2824242079069631: 1, 0.2823636742004825: 1, 0.2823033080448177: 1, 0.28222082140965615: 1, 0.2822100262820928: 1, 0.28220808513635015: 1, 0.2822010746523387: 1, 0.2821961227254733: 1, 0.28216785424165475: 1, 0.2821609176248366: 1, 0.2821417366299705: 1, 0.2821028027532596: 1, 0.2820716831186763: 1, 0.2820605728361605: 1, 0.28204247878951233: 1, 0.2820024516047156: 1, 0.28199601269324054: 1, 0.28199352956548396: 1, 0.28198300311484137: 1, 0.281810017123827: 1, 0.2818059490123954: 1, 0.28173756267628125: 1, 0.28172206376489023: 1, 0.28170853497117043: 1, 0.28157803354794414: 1, 0.28148675062498885: 1, 0.2814863986656108: 1, 0.2814566145591406: 1, 0.28144919915681943: 1, 0.28138971526589485: 1, 0.2813257058623546: 1, 0.28131206634724004: 1, 0.2813004296457855: 1, 0.28128298902289645: 1, 0.2812743987363263: 1, 0.28125680610040615: 1, 0.28120603680737793: 1, 0.2811884492421055: 1, 0.28112902706517645: 1, 0.28112366982088716: 1, 0.2811105631571138: 1, 0.28108559787452714: 1, 0.28098472268731806: 1, 0.2809749156126401: 1, 0.280965300497118: 1, 0.28094456458576766: 1, 0.280901194266622: 1, 0.2808984032724803: 1, 0.28084951188880863: 1, 0.2808376600885977: 1, 0.28074101674018254: 1, 0.28071600184425244: 1, 0.2807140260165331: 1, 0.2806889411107977: 1, 0.2806325578859928: 1, 0.2805904995680131: 1, 0.28058278343144516: 1, 0.2805804702311599: 1, 0.28049940975858695: 1, 0.2804648741830559: 1, 0.28039953172283244: 1, 0.28037274252562633: 1, 0.2803691291478941: 1, 0.2802324507580221: 1, 0.2799659074679361: 1, 0.2799176466534149: 1, 0.27990618527388955: 1, 0.27987158765807435: 1, 0.27986313170862986: 1, 0.2797813960548996: 1, 0.27972454574663747: 1, 0.2797000288454242: 1, 0.2796864722139487: 1, 0.27964437769752165: 1, 0.27963368991601817: 1, 0.27961377548867195: 1, 0.27955871233392404: 1, 0.2795231690917036: 1, 0.2794728098963487: 1, 0.2794712558158976: 1, 0.2793994973315377: 1, 0.2793361914368444: 1, 0.279320242891759: 1, 0.2792613941706177: 1, 0.2792503643840066: 1, 0.2792358613151606: 1, 0.2790957263608568: 1, 0.2790773052149445: 1, 0.27897427573120687: 1, 0.27892131745971094: 1, 0.2788721973017483: 1, 0.27886097890996675: 1, 0.27883768315883145: 1, 0.2787472953873016: 1, 0.27874661398365314: 1, 0.2787331593268106: 1, 0.2787308073887119: 1, 0.27872385614567396: 1, 0.2787078586010876: 1, 0.27861829663831883: 1, 0.27854628072777454: 1, 0.27845284770498957: 1, 0.27843125604728813: 1, 0.27840300295283366: 1, 0.2783512589374506: 1, 0.2783088067106927: 1, 0.2783070516616333: 1, 0.2782776276406044: 1, 0.27827531262690897: 1, 0.27826738292146946: 1, 0.27826162323545117: 1, 0.2782611989322748: 1, 0.27825185195506097: 1, 0.27824533077492286: 1, 0.2782163617047034: 1, 0.27814513595477847: 1, 0.2780640270545291: 1, 0.2779874329141763: 1, 0.277966924420205: 1, 0.27789582734931595: 1, 0.27785219115178167: 1, 0.27784073388651787: 1, 0.27782680706273827: 1, 0.277792661090391: 1, 0.27777813678597796: 1, 0.2777715265698867: 1, 0.27768872487230245: 1, 0.27759515334720014: 1, 0.27758477720812447: 1, 0.2775495093422838: 1, 0.2775360231952974: 1, 0.27752947305748316: 1, 0.27743732883761335: 1, 0.27740147037050367: 1, 0.27738102365524625: 1, 0.27734846536076235: 1, 0.2773474046581553: 1, 0.277294729744002: 1, 0.2771871307140332: 1, 0.2771381986478225: 1, 0.2771351136434751: 1, 0.2770434429931507: 1, 0.2770373271622975: 1, 0.2770018465168769: 1, 0.2769968619147244: 1, 0.2769897299009755: 1, 0.27694673494993954: 1, 0.2769178064480087: 1, 0.27691032771830676: 1, 0.2769075464477726: 1, 0.2768835369595775: 1, 0.2768797110774718: 1, 0.27687789322996503: 1, 0.2768633465263467: 1, 0.27684187689671197: 1, 0.27684078409091945: 1, 0.2768307677662554: 1, 0.27676112929246127: 1, 0.27671535212443166: 1, 0.276705688136773: 1, 0.2766970970941022: 1, 0.27668448068129287: 1, 0.2766723963999434: 1, 0.27666074488988984: 1, 0.27655791969310084: 1, 0.2765280135475348: 1, 0.27649182602187117: 1, 0.27647901308426037: 1, 0.27647445273514965: 1, 0.2764452336063075: 1, 0.2764154865927784: 1, 0.27640179344594723: 1, 0.27634611798759967: 1, 0.27631697627590024: 1, 0.2762131757771991: 1, 0.27619989143760243: 1, 0.2761213209918608: 1, 0.276108951436635: 1, 0.27608116665225124: 1, 0.27606568073445176: 1, 0.2760543879224302: 1, 0.27603766948911396: 1, 0.27590257501478643: 1, 0.2758981244166104: 1, 0.27589702576382436: 1, 0.2758875270766346: 1, 0.27588217273211707: 1, 0.27586457532480646: 1, 0.2758527271478041: 1, 0.2757509982000368: 1, 0.27569463687365536: 1, 0.2756606949358817: 1, 0.27562696844716394: 1, 0.2755712019324394: 1, 0.2755705631742869: 1, 0.2755056999087104: 1, 0.27547386728724305: 1, 0.2753977920495628: 1, 0.2753555537137768: 1, 0.27532309726065185: 1, 0.2752941906805551: 1, 0.27518985996208384: 1, 0.2751125110931566: 1, 0.27510077464362725: 1, 0.27508665310800073: 1, 0.27505725616961046: 1, 0.2750542868617291: 1, 0.27504086399595706: 1, 0.27497882852684324: 1, 0.27493061734263385: 1, 0.27482268922636327: 1, 0.2745774236285978: 1, 0.27441409247995546: 1, 0.2743985956026088: 1, 0.27439350680156327: 1, 0.27438516015209097: 1, 0.27437483320478906: 1, 0.2743729590185148: 1, 0.2743435417339629: 1, 0.27432022209237333: 1, 0.27431331413141014: 1, 0.27429000799035247: 1, 0.2741519259525263: 1, 0.2741391658258446: 1, 0.27413778158957675: 1, 0.2741273183243622: 1, 0.274101269210581: 1, 0.2740586406935185: 1, 0.273983614128793: 1, 0.2739722038038825: 1, 0.273949178540725: 1, 0.2739100307367963: 1, 0.27388542318790077: 1, 0.2738835566808701: 1, 0.2738557243161377: 1, 0.2738380532782128: 1, 0.2738079502845003: 1, 0.2738070098951516: 1, 0.27377182650711607: 1, 0.27376344973838673: 1, 0.273733137309915: 1, 0.2737196335195679: 1, 0.2736362688627342: 1, 0.27350332780391684: 1, 0.2734853876894274: 1, 0.27346162867080404: 1, 0.27334551165858995: 1, 0.27321780406770213: 1, 0.2732164180573677: 1, 0.2731740673136943: 1, 0.273088625343163: 1, 0.2730146563678586: 1, 0.27289108932510286: 1, 0.2728824455188934: 1, 0.2728675794071407: 1, 0.272841808458289: 1, 0.27275363417680776: 1, 0.2727101242700704: 1, 0.27268190821506577: 1, 0.27267265020202464: 1, 0.2726392356359635: 1, 0.272396876026939: 1, 0.27250826166391934: 1, 0.27248329553658057: 1, 0.2724093268316856: 1, 0.272396876026939: 1, 0.27238930565513586: 1, 0.2723806670399791: 1, 0.2723619972129673: 1, 0.27234253449351153: 1.

0.2722755863882044: 1, 0.2722557153177145: 1, 0.2722552684915824: 1, 0.2722024372517811: 1,
0.27219685250039255: 1, 0.272189560353138: 1, 0.27217920663232265: 1, 0.27213022248268537: 1,
0.2721046884920922: 1, 0.27209947276167357: 1, 0.27209827044070883: 1, 0.27206178907460626: 1,
0.27198625111602814: 1, 0.2719546807359969: 1, 0.27192859261362545: 1, 0.2719074631931746: 1,
0.27190320420568476: 1, 0.27186857227644884: 1, 0.27186338167955404: 1, 0.2718490498383204: 1,
0.27183472339559256: 1, 0.27180389533871363: 1, 0.27176012479263384: 1, 0.27175922000877983: 1,
0.2717523305837875: 1, 0.27168672112153774: 1, 0.2716183832626583: 1, 0.2715974097907308: 1,
0.27153929515839553: 1, 0.2715169130913396: 1, 0.2715029790703341: 1, 0.27150009505753986: 1,
0.2714338734196393: 1, 0.2713734708546989: 1, 0.27135680248510546: 1, 0.27130910285299625: 1,
0.27130158423822165: 1, 0.2712718038021286: 1, 0.27121497285255924: 1, 0.2711498639213667: 1,
0.2711276931691799: 1, 0.27104883882434905: 1, 0.2710067185016794: 1, 0.2709379909881582: 1,
0.27093550209058237: 1, 0.27091356725897653: 1, 0.2708976539417115: 1, 0.270892764138213: 1,
0.2708818657891216: 1, 0.27081636209884763: 1, 0.2707643819697361: 1, 0.2706916072806158: 1,
0.27065726250203376: 1, 0.2706504902862693: 1, 0.2706304978941478: 1, 0.2705936215070937: 1,
0.27058073353630524: 1, 0.270527794743964: 1, 0.27052625226253973: 1, 0.270440236618798: 1,
0.2702125843503599: 1, 0.2701265375118249: 1, 0.270070624645582: 1, 0.2700509292468445: 1,
0.27004611932104533: 1, 0.27003552039238055: 1, 0.2699708867816614: 1, 0.26991982238868534: 1,
0.2699064481666966: 1, 0.26989972731311723: 1, 0.26987018519376926: 1, 0.26987008546237357: 1,
0.2698523784783537: 1, 0.2698286689869201: 1, 0.2698231524663404: 1, 0.2697702158066329: 1,
0.26962795166961084: 1, 0.2696159070981458: 1, 0.26960496844632703: 1, 0.2695972369202962: 1,
0.2695876361541455: 1, 0.2694927489368764: 1, 0.2694312121033861: 1, 0.2694225156873696: 1,
0.2694215713184568: 1, 0.26941323656543864: 1, 0.26938618441244927: 1, 0.2693382476709733: 1,
0.26930596163417614: 1, 0.2692656078988689: 1, 0.2692111482850429: 1, 0.2691742145880306: 1,
0.26916163548531263: 1, 0.26912375271844036: 1, 0.2690892763540221: 1, 0.26906327623234155: 1,
0.2690582637038014: 1, 0.26905245244571563: 1, 0.2690513206501353: 1, 0.2690335633263589: 1,
0.2690070421754383: 1, 0.26898570295312424: 1, 0.2689797409437966: 1, 0.26891632941748095: 1,
0.268886559649528: 1, 0.26869255650299634: 1, 0.26857753731426726: 1, 0.26853771356811557: 1,
0.2685245399448777: 1, 0.26850993699608255: 1, 0.268417103706352: 1, 0.26840156668861875: 1,
0.26838471910131256: 1, 0.2682882187008555: 1, 0.2682544184520739: 1, 0.2682522164145135: 1,
0.26821341611261534: 1, 0.26818947828244316: 1, 0.26816072059347645: 1, 0.26802541803352214: 1,
0.26799929920339716: 1, 0.26799561508235403: 1, 0.26794681485378463: 1, 0.2679393076937295: 1,
0.26769779687434536: 1, 0.2676639636112595: 1, 0.2676112669976886: 1, 0.26756339601684515: 1,
0.26754123959161: 1, 0.26747147996224346: 1, 0.26745429982200764: 1, 0.2674040756457183: 1,
0.2673998030005101: 1, 0.2673311134117103: 1, 0.26731008476743817: 1, 0.2673077385420106: 1,
0.2673014830474968: 1, 0.26725475374108554: 1, 0.26720719570507523: 1, 0.2671953491665091: 1,
0.26719316521534825: 1, 0.26718473117007: 1, 0.2671639230499623: 1, 0.2671420823245398: 1,
0.26713862392267035: 1, 0.2671007825853339: 1, 0.2670179986714048: 1, 0.2669927876010665: 1,
0.2669684251520524: 1, 0.26696197682375233: 1, 0.26696097173465116: 1, 0.26690629788345666: 1,
0.2668616970780674: 1, 0.2668154447064217: 1, 0.26679834706846356: 1, 0.26678593471648226: 1,
0.2667501420483838: 1, 0.26674396303876463: 1, 0.2667256757210815: 1, 0.26671527636071224: 1,
0.26669689866717405: 1, 0.2666595605449359: 1, 0.26659140043283663: 1, 0.266585334115079: 1,
0.2665667785545153: 1, 0.26650747258017254: 1, 0.26647257900941157: 1, 0.2664431730614163: 1,
0.2664008686764155: 1, 0.2664004223902294: 1, 0.2663401916708177: 1, 0.26633623603434686: 1,
0.2663292713484169: 1, 0.2663048938060968: 1, 0.2662893911855342: 1, 0.26618130266362905: 1,
0.2661761301769415: 1, 0.2661752994296976: 1, 0.2660762285549547: 1, 0.2660639336075151: 1,
0.2660578506832181: 1, 0.26604197175607164: 1, 0.26597706076452343: 1, 0.26597269056845413: 1,
0.2659526421101087: 1, 0.26591569429778394: 1, 0.2659070430555973: 1, 0.26590185442901365: 1,
0.26588184039285107: 1, 0.2658793372542873: 1, 0.26579322530519534: 1, 0.2657785192930564: 1,
0.26576140006953797: 1, 0.26571878172917013: 1, 0.2656962544005404: 1, 0.26563980884367233: 1,
0.26562294233639: 1, 0.2655902469187066: 1, 0.2655409145563294: 1, 0.26549574103111023: 1,
0.26543623254584325: 1, 0.26542780963905555: 1, 0.26535138168649924: 1, 0.26526342163483707: 1,
0.2652405568738627: 1, 0.26511935204032594: 1, 0.2650197701862606: 1, 0.26496407691116464: 1,
0.2649329249914474: 1, 0.2649292388650339: 1, 0.2648934750165409: 1, 0.26484495350355597: 1,
0.2648283315573406: 1, 0.26477037937708103: 1, 0.2647667226894221: 1, 0.264614431188512: 1,
0.26458339228226396: 1, 0.2645713668344415: 1, 0.2645431262255254: 1, 0.2644981549691747: 1,
0.26446963619101505: 1, 0.26440866942953856: 1, 0.26438079366520517: 1, 0.2643377213988114: 1,
0.2642656030671146: 1, 0.2642096318650822: 1, 0.26415972483768113: 1, 0.2641436593614298: 1,
0.26412704259639674: 1, 0.26411329712998166: 1, 0.2640763075675993: 1, 0.26407490118686516: 1,
0.2639035334334939: 1, 0.2638315134288733: 1, 0.2637641778094975: 1, 0.26370525255823735: 1,
0.2636866719181475: 1, 0.2636622291757668: 1, 0.2635895752446264: 1, 0.26354580600023747: 1,
0.26352938721851454: 1, 0.2634701384656905: 1, 0.26339920494131247: 1, 0.2633912039596522: 1,
0.26325605016472586: 1, 0.2631292150044542: 1, 0.2630678395449054: 1, 0.2630503238427674: 1,
0.26302714619861073: 1, 0.26300593638528064: 1, 0.26288836537621213: 1, 0.2628720529822015: 1,
0.2628262221332568: 1, 0.2627969587660578: 1, 0.26276001265394633: 1, 0.2627165885819889: 1,
0.26257672205764987: 1, 0.26256837350189816: 1, 0.2625442830953379: 1, 0.2624645022882964: 1,
0.26246270738813926: 1, 0.2624030863664722: 1, 0.262376489350816: 1, 0.26236026971574145: 1,
0.26235928395830455: 1, 0.26230669224636183: 1, 0.26228858995022863: 1, 0.26223133109182617: 1,
0.26223023054455924: 1, 0.26219376146526974: 1, 0.2621908461773462: 1, 0.26217741403075195: 1,
0.26215407716432987: 1, 0.262147662266639: 1, 0.2621436987882671: 1, 0.2621431632195804: 1,
0.26212740652327743: 1, 0.262105203833761: 1, 0.26206037987331343: 1, 0.26204377448239036: 1,
0.2620223408488375: 1, 0.26200430290297366: 1, 0.26199711269689935: 1, 0.2618864043262901: 1,
0.26188405848044854: 1, 0.26182609551564245: 1, 0.2617985922461353: 1, 0.2617462584450415: 1,
0.26164451934924154: 1, 0.2616276056170883: 1, 0.26159279311326605: 1, 0.2615883630299232: 1,
0.26158719728473495: 1, 0.26146081489123074: 1, 0.2614531880889116: 1, 0.2614236190932554: 1,
0.2614102457197948: 1, 0.2613726519320374: 1, 0.2613422727848861: 1, 0.2612287047148021: 1,
0.2611751185495991: 1, 0.2611350593761552: 1, 0.26112391668092266: 1, 0.2610861728931934: 1,
0.26102922226814224: 1. 0.2609777665681426: 1. 0.26088874760736336: 1. 0.2608573992047278: 1.

0.26080938673695914: 1, 0.26079039704255247: 1, 0.2607437156397261: 1, 0.2607048430182624: 1, 0.260689269249437: 1, 0.26068004332863404: 1, 0.26062114013203097: 1, 0.2606131955628007: 1, 0.2605761086957256: 1, 0.26055508364650487: 1, 0.26041878784568856: 1, 0.2604016970173511: 1, 0.26035109119359506: 1, 0.26030698502046107: 1, 0.2602906061405695: 1, 0.26022197529412694: 1, 0.2601401785532981: 1, 0.2599716811856047: 1, 0.2599535413981232: 1, 0.25994098749109795: 1, 0.2599268690353995: 1, 0.25980493953511324: 1, 0.2597431510896589: 1, 0.259735288167698: 1, 0.2596453441022335: 1, 0.25963761500985894: 1, 0.25962762607047873: 1, 0.25962586650480185: 1, 0.2596068946666326: 1, 0.259544048163: 1, 0.2595291041449112: 1, 0.25952457042967847: 1, 0.2594741181111181: 1, 0.2594225692732378: 1, 0.25935317907712646: 1, 0.2593491768957889: 1, 0.259340372009089: 1, 0.25930905388162356: 1, 0.25921325753216967: 1, 0.2591655697997157: 1, 0.2591144602103198: 1, 0.25908202452758916: 1, 0.2590187397147521: 1, 0.258905799971216: 1, 0.2589745664317578: 1, 0.2589440738045179: 1, 0.2589067352926461: 1, 0.2589052370556113: 1, 0.2589013550320225: 1, 0.2588848795156428: 1, 0.25883104887292857: 1, 0.2588053426172939: 1, 0.25878263724359474: 1, 0.2587733270020228: 1, 0.2587534310180884: 1, 0.2587216611727242: 1, 0.2587040244530163: 1, 0.25866786146759013: 1, 0.25866716141072493: 1, 0.2586467898617186: 1, 0.258632624402898: 1, 0.25860122318575307: 1, 0.2585645880845311: 1, 0.25855667631566415: 1, 0.2584550748192498: 1, 0.2583841468293119: 1, 0.25831781612350757: 1, 0.2582816050701142: 1, 0.25827439899642973: 1, 0.25827323971211147: 1, 0.25818468726960553: 1, 0.2581762767642462: 1, 0.2581542680877959: 1, 0.2581541008570465: 1, 0.2581054210043513: 1, 0.2579847132919395: 1, 0.2579133250679647: 1, 0.25790442570094935: 1, 0.2579020805960695: 1, 0.25789916073066216: 1, 0.2578585922859743: 1, 0.25782923131174196: 1, 0.25782513663946277: 1, 0.2576978978736706: 1, 0.25764535777149145: 1, 0.25761570360112623: 1, 0.25760978583712896: 1, 0.2575887091199848: 1, 0.2575678365234525: 1, 0.25744053333626177: 1, 0.25742336207775823: 1, 0.2574165045602595: 1, 0.2574079586136304: 1, 0.25739809937749586: 1, 0.25728969906770205: 1, 0.25728595268022675: 1, 0.2572825970631047: 1, 0.25724673620211697: 1, 0.2572319122102686: 1, 0.2571515050464892: 1, 0.25715040136838063: 1, 0.25710811116460675: 1, 0.25701669702119384: 1, 0.2570057069840744: 1, 0.2569603923231736: 1, 0.25695823728814937: 1, 0.25690347589888324: 1, 0.2568699551187159: 1, 0.25682563868506436: 1, 0.2567730690562611: 1, 0.25675543284252783: 1, 0.25665882596814593: 1, 0.2566277618180864: 1, 0.25662181400709216: 1, 0.25654651902493397: 1, 0.25652286336943836: 1, 0.25652061399474385: 1, 0.25651907294048554: 1, 0.25647228267248384: 1, 0.25645927200453167: 1, 0.25638982389677134: 1, 0.2563839559321081: 1, 0.25633079960499605: 1, 0.2562331142966153: 1, 0.25623126061623536: 1, 0.2561411899863094: 1, 0.256091241510356: 1, 0.256043591929467: 1, 0.2559870874339131: 1, 0.25592202842478345: 1, 0.2558542809345796: 1, 0.25584871215093613: 1, 0.2557771244302571: 1, 0.25573274087563613: 1, 0.25569415269810714: 1, 0.25567292173959427: 1, 0.25564662625438966: 1, 0.25564074648042096: 1, 0.2556383322336731: 1, 0.25563747743572035: 1, 0.25553658925135136: 1, 0.255503631721164: 1, 0.25543774198663904: 1, 0.25543367281264073: 1, 0.2554284301007484: 1, 0.2554112283605198: 1, 0.2553979561806793: 1, 0.2553857175113499: 1, 0.2552900339225965: 1, 0.2552654955134294: 1, 0.2552156584849596: 1, 0.25521280525837187: 1, 0.25520542505576477: 1, 0.25514131450473726: 1, 0.25512839601401316: 1, 0.2551177800892057: 1, 0.2551164344697046: 1, 0.2551043030141485: 1, 0.25510164086471165: 1, 0.2550932422263516: 1, 0.2550659165300596: 1, 0.25505227747705017: 1, 0.25504359631265305: 1, 0.2550306526678922: 1, 0.2550270278022614: 1, 0.25502317742432784: 1, 0.25498398206743633: 1, 0.25498230177852044: 1, 0.254951304928756: 1, 0.25494711338831977: 1, 0.25486636007530483: 1, 0.25486564106698497: 1, 0.2548327675199072: 1, 0.2548005386995779: 1, 0.2547941892717091: 1, 0.25473422296778664: 1, 0.25470800368969265: 1, 0.25468160691010006: 1, 0.25467601857623573: 1, 0.25461981396056915: 1, 0.25459192018200955: 1, 0.25454771875557947: 1, 0.254527438615611: 1, 0.25447022122035406: 1, 0.2544170494424983: 1, 0.25438546563267034: 1, 0.25423740195502664: 1, 0.2542160807748198: 1, 0.25416900936079134: 1, 0.2541064601577848: 1, 0.2540413597396692: 1, 0.25399951970974866: 1, 0.2539413939241273: 1, 0.2539226364074208: 1, 0.25391521456422533: 1, 0.253906595808991: 1, 0.2538873415243586: 1, 0.25384151559420526: 1, 0.2537563975037881: 1, 0.25368992013857855: 1, 0.25365750741313997: 1, 0.2536528269884833: 1, 0.2536265819053686: 1, 0.2536195288902919: 1, 0.25358693734265325: 1, 0.2535449114856241: 1, 0.25353566779224707: 1, 0.25350464453710175: 1, 0.25340000696640713: 1, 0.2533971434765748: 1, 0.25335875666003554: 1, 0.2533376180047344: 1, 0.2532836020684317: 1, 0.2532545653378004: 1, 0.25323487634817043: 1, 0.2532228707254252: 1, 0.2532026561413978: 1, 0.2531637339348121: 1, 0.25313779470649916: 1, 0.253118244395925: 1, 0.25307647106313547: 1, 0.25304490510835603: 1, 0.2530290074102188: 1, 0.2530214388028613: 1, 0.2530206736076903: 1, 0.252984638682149: 1, 0.252941733344056: 1, 0.25293990630565943: 1, 0.25289737603467194: 1, 0.2528900586112847: 1, 0.2528848964996972: 1, 0.252859794315528: 1, 0.2528523190256157: 1, 0.25284331877106014: 1, 0.2528187641569907: 1, 0.25279853757704873: 1, 0.2527427128056273: 1, 0.2526426471155212: 1, 0.2526188665177291: 1, 0.2525511097463345: 1, 0.25243933514682265: 1, 0.2524167612710663: 1, 0.2523354682730637: 1, 0.2523256566266548: 1, 0.25230078343671114: 1, 0.2522648651544252: 1, 0.252245945935488093: 1, 0.2522247733679892: 1, 0.252185113988044: 1, 0.2521515883379652: 1, 0.2521207894695802: 1, 0.2521033271563914: 1, 0.25200367065562984: 1, 0.2519877422241706: 1, 0.2519742194047013: 1, 0.2519655392333409: 1, 0.2519185537925233: 1, 0.2519064488248821: 1, 0.2518707562588189: 1, 0.25174570106010297: 1, 0.25171300322938206: 1, 0.2516950437108015: 1, 0.2516828113105024: 1, 0.2516625525664393: 1, 0.2515196907257986: 1, 0.25150544182082296: 1, 0.25149507706434426: 1, 0.25145305136134016: 1, 0.25139391964496144: 1, 0.25138908306697855: 1, 0.251377532071578: 1, 0.25135596507064384: 1, 0.251301001425642: 1, 0.25129979047150536: 1, 0.25127072984636173: 1, 0.25126635694361676: 1, 0.2512437793019082: 1, 0.2512405643295043: 1, 0.2512028477053339: 1, 0.2511992383633295: 1, 0.25117419590389345: 1, 0.25115651259621186: 1, 0.25112611153061054: 1, 0.25100436561716644: 1, 0.2510029344380103: 1, 0.2509864433820388: 1, 0.2508871052729841: 1, 0.2508661998922267: 1, 0.25086409958196243: 1, 0.2508493628045801: 1, 0.25082273002836275: 1, 0.25078032761252533: 1, 0.2507461880964035: 1, 0.25073458879377836: 1, 0.2507186653158587: 1, 0.2507175364122684: 1, 0.2507095644742464: 1, 0.25066510085064964: 1, 0.25066504991552946: 1, 0.2506404999580801: 1, 0.25060717286104156: 1, 0.25060652478479845: 1, 0.2505981281464848: 1, 0.2505335319393352: 1, 0.2505271064289498: 1, 0.25049666178299235: 1, 0.2504412988613795: 1, 0.2504206505210579: 1.

0.2503729631477475: 1, 0.25036153966561253: 1, 0.2503348529690464: 1, 0.2503089175438443: 1, 0.25029310283944045: 1, 0.250292636981511: 1, 0.25026097374137996: 1, 0.2502131745258008: 1, 0.2501522621967453: 1, 0.25013362931534666: 1, 0.25011359569165154: 1, 0.25008555881723565: 1, 0.24999721648557474: 1, 0.24997243666545718: 1, 0.2499077533383203: 1, 0.24983243272195926: 1, 0.24981968065801133: 1, 0.24981819100260302: 1, 0.24980869611784126: 1, 0.2498011214971489: 1, 0.24972615450280958: 1, 0.24970822549145116: 1, 0.24969731823705948: 1, 0.24968918027610162: 1, 0.24966488747449048: 1, 0.24961821525184172: 1, 0.24961269953146653: 1, 0.24960944468928417: 1, 0.2495982578689101: 1, 0.24959617284300692: 1, 0.2495255906138602: 1, 0.24950183967847092: 1, 0.2494849756485879: 1, 0.249381288737184: 1, 0.24936814182553596: 1, 0.24935904560605113: 1, 0.24929821774025254: 1, 0.2492333114309936: 1, 0.24921135167702332: 1, 0.24918569175223937: 1, 0.24918497319391322: 1, 0.249094191372317: 1, 0.24905489993064342: 1, 0.24901603261316355: 1, 0.2490015817796392: 1, 0.24892218701870772: 1, 0.24890514617513604: 1, 0.24882487947800788: 1, 0.24881541215057842: 1, 0.248772069962443: 1, 0.2487646690033137: 1, 0.24875345705033008: 1, 0.24870742014094385: 1, 0.24869729299750934: 1, 0.2486242053481887: 1, 0.24861724715266043: 1, 0.2485885156270175: 1, 0.24856662805385193: 1, 0.24851887224484265: 1, 0.24849150951503213: 1, 0.24843860020319866: 1, 0.24843652743752728: 1, 0.24841835377401125: 1, 0.24840643284181765: 1, 0.2483946936498385: 1, 0.24836549901347316: 1, 0.24833319681530291: 1, 0.24830667223736494: 1, 0.2482240697252686: 1, 0.248199586678341: 1, 0.2481472588682838: 1, 0.24812724060570263: 1, 0.24807414019484486: 1, 0.24805044258299236: 1, 0.24804515131595348: 1, 0.24803292363175422: 1, 0.24799455161199524: 1, 0.2479221377940323: 1, 0.24788973628924077: 1, 0.2478288256240726: 1, 0.2478225823251575: 1, 0.2478200408753958: 1, 0.2478001711126481: 1, 0.2477930845543624: 1, 0.24775483519987174: 1, 0.24772312678933261: 1, 0.24771697405463142: 1, 0.24770211409633988: 1, 0.2476005394027285: 1, 0.24754551915622167: 1, 0.24744204039627193: 1, 0.2474319967637356: 1, 0.2474301695005836: 1, 0.2473571060998112: 1, 0.24733266461742562: 1, 0.2473309108178398: 1, 0.2473043085859805: 1, 0.24727356703358572: 1, 0.24726798838070024: 1, 0.24721653891095147: 1, 0.24718320423014029: 1, 0.24715767897042618: 1, 0.2470842508498739: 1, 0.24707073801513774: 1, 0.24706145368872867: 1, 0.24704574879433447: 1, 0.24700866433053423: 1, 0.246987153404781: 1, 0.2469565465879056: 1, 0.24694056128930747: 1, 0.24688907130677448: 1, 0.24683593555494765: 1, 0.24681967755989898: 1, 0.2468150184070893: 1, 0.24675571075124805: 1, 0.24673692471558514: 1, 0.2467082193745063: 1, 0.2467052254366714: 1, 0.2466175974646497: 1, 0.24660236173042652: 1, 0.24656838286435895: 1, 0.2465486254094112: 1, 0.2465412272299649: 1, 0.24653609107375507: 1, 0.24649500870232363: 1, 0.24643804889025372: 1, 0.24642677638724345: 1, 0.24639483503152923: 1, 0.24638908376779878: 1, 0.2463732640325395: 1, 0.2462740218208191: 1, 0.24626196228560662: 1, 0.24622275018398262: 1, 0.2462017008035603: 1, 0.24619833155165147: 1, 0.24617730735291043: 1, 0.24616105715305256: 1, 0.24612982135796882: 1, 0.2461013984712501: 1, 0.24605619986834273: 1, 0.2460528220645567: 1, 0.24604984488569384: 1, 0.24603546870776558: 1, 0.24597370446702016: 1, 0.24595512486516838: 1, 0.2459390736401665: 1, 0.2459147163273943: 1, 0.2457932212766789: 1, 0.24575644179731596: 1, 0.2457271356045548: 1, 0.24571487504697098: 1, 0.24571008639204966: 1, 0.24565111892836441: 1, 0.24562473666597498: 1, 0.24561850643377764: 1, 0.24558769972681732: 1, 0.24556880894375474: 1, 0.24556034045656244: 1, 0.24555883047239976: 1, 0.24555073554089082: 1, 0.2455383263257108: 1, 0.2454981407643836: 1, 0.24545786052379884: 1, 0.24544224315815397: 1, 0.245404619565377: 1, 0.24538429073290302: 1, 0.24535636493328708: 1, 0.24534785137159676: 1, 0.24531020205884457: 1, 0.24529706456387537: 1, 0.2452492282393045: 1, 0.2452058750003381: 1, 0.24519762441141163: 1, 0.24516929463250192: 1, 0.2450708922692565: 1, 0.24503208181000333: 1, 0.24501987934696373: 1, 0.2450098320948734: 1, 0.2450093789153267: 1, 0.24497982958185757: 1, 0.24497650072176774: 1, 0.2448943947577361: 1, 0.2448883054668572: 1, 0.2448737279427598: 1, 0.24486425491851427: 1, 0.2448295179793353: 1, 0.2447433566049027: 1, 0.24467956760658752: 1, 0.24466502871692614: 1, 0.24465072239274183: 1, 0.24461989341286663: 1, 0.24461612926783066: 1, 0.24455696452533746: 1, 0.24454343022250025: 1, 0.24453698763856502: 1, 0.24452420664084445: 1, 0.24450905878728219: 1, 0.2445015063036472: 1, 0.24448422569383965: 1, 0.24444746765065903: 1, 0.24441884492607052: 1, 0.2444081545542634: 1, 0.24434938148783508: 1, 0.2443410488974802: 1, 0.2443312939113923: 1, 0.2442768438765335: 1, 0.24424588434639735: 1, 0.24423177648055416: 1, 0.2442003868625287: 1, 0.24419203151547075: 1, 0.24418259798734956: 1, 0.24417521140510565: 1, 0.24413661088265823: 1, 0.24413349718640878: 1, 0.24411262871569975: 1, 0.24410363484160535: 1, 0.24399706895199175: 1, 0.24396214271070235: 1, 0.24395039238248628: 1, 0.2438605674368781: 1, 0.2438499929282912: 1, 0.2438285508317605: 1, 0.243820533825345: 1, 0.24380385533846768: 1, 0.2437569874560913: 1, 0.24375362416409174: 1, 0.24372989691715605: 1, 0.24372440270238233: 1, 0.24368251358272208: 1, 0.24367277083456232: 1, 0.24356987538635502: 1, 0.24353957800347745: 1, 0.24349641133707992: 1, 0.24349109322346585: 1, 0.24344193510473652: 1, 0.24333120151619883: 1, 0.24333025440356135: 1, 0.2433267820647715: 1, 0.24331208729485845: 1, 0.2432683209987047: 1, 0.2432607552403424: 1, 0.2432458942179154: 1, 0.2432348416558653: 1, 0.24318634938057668: 1, 0.24315963384519593: 1, 0.24314097281005775: 1, 0.24311409485268695: 1, 0.24309370770010633: 1, 0.24300926786779165: 1, 0.24290265709906134: 1, 0.24282523175070378: 1, 0.2427920520293233: 1, 0.2427870253501351: 1, 0.24278543936611754: 1, 0.24274261561881244: 1, 0.24274183598543161: 1, 0.2427319406351695: 1, 0.24266085468621393: 1, 0.24265233141788073: 1, 0.24264425614997798: 1, 0.242594958995346: 1, 0.24254553837774412: 1, 0.24254476751322848: 1, 0.2425276087060293: 1, 0.24245884155964098: 1, 0.24242384859036345: 1, 0.24241915301714534: 1, 0.24239754802458202: 1, 0.24233032693750992: 1, 0.2423289514197039: 1, 0.24230991664146267: 1, 0.24230259209561478: 1, 0.24221269236997606: 1, 0.2421591069681148: 1, 0.2421556066921516: 1, 0.2421424443127246: 1, 0.24213568938452187: 1, 0.2421065014658522: 1, 0.24203366628788398: 1, 0.2420139977488202: 1, 0.24186722930542523: 1, 0.24183368389621188: 1, 0.2418126485660752: 1, 0.2417520592719768: 1, 0.2415147009100682: 1, 0.24149628073444265: 1, 0.24146517113402285: 1, 0.24143057080395217: 1, 0.24134554472012737: 1, 0.24131365218375356: 1, 0.2412308049906846: 1, 0.24112105279529625: 1, 0.2410308984211829: 1, 0.24099249403357945: 1, 0.24097050127696462: 1, 0.24093826864319084: 1, 0.24092175271985608: 1, 0.2408853060659618: 1, 0.2408808193273155: 1, 0.24083339630766892: 1, 0.24080634275163249: 1, 0.24079123553344597: 1, 0.24077018272081346: 1, 0.2406366276525699: 1, 0.24057511249730384: 1, 0.24056967321049197: 1, 0.24052861882292081: 1, 0.240518892961971: 1

0.240494996262127: 1, 0.24048403034679167: 1, 0.24043298258495843: 1, 0.24043245212721065: 1, 0.24041188533435298: 1, 0.2403179978528137: 1, 0.24031473336893072: 1, 0.2402845781352522: 1, 0.24027788743374223: 1, 0.24027356640658834: 1, 0.24015689129576118: 1, 0.240109706825665: 1, 0.24006726830267938: 1, 0.23997212834668166: 1, 0.23996332349000526: 1, 0.23995239760435436: 1, 0.23990643970085404: 1, 0.23986295348855585: 1, 0.2398154774073315: 1, 0.23976251857300687: 1, 0.23971056741777716: 1, 0.2397090117376444: 1, 0.23970161967168252: 1, 0.23966443614451596: 1, 0.2396621040266749: 1, 0.2396500755548153: 1, 0.23960964284883912: 1, 0.23953474537134625: 1, 0.2395327944988517: 1, 0.23950902885483352: 1, 0.2395085138379687: 1, 0.23946237899215242: 1, 0.2394400951569404: 1, 0.23942633320287082: 1, 0.2392703947669512: 1, 0.23926596852269386: 1, 0.2392581257139968: 1, 0.23917172403557868: 1, 0.23913618261033326: 1, 0.23910972038782188: 1, 0.23910947523019271: 1, 0.23907922539720156: 1, 0.23907228479735837: 1, 0.23897530379115903: 1, 0.2388774379158603: 1, 0.238840775928744: 1, 0.23878731686474405: 1, 0.23875004237865896: 1, 0.23874690029663154: 1, 0.23869908804883858: 1, 0.2386921504141108: 1, 0.2386135927882305: 1, 0.23858868006144007: 1, 0.23853617213129127: 1, 0.2385130688579657: 1, 0.23849325203804464: 1, 0.23848874320925198: 1, 0.23848218303920884: 1, 0.23847482042986234: 1, 0.2384644324934942: 1, 0.23841574770006083: 1, 0.23841243412331786: 1, 0.23840052942294246: 1, 0.23835811913534843: 1, 0.23835046091978465: 1, 0.23830586107753582: 1, 0.23829426325365574: 1, 0.2382649051913173: 1, 0.23814835953547545: 1, 0.23814352147922946: 1, 0.23813366549821746: 1, 0.23805141584340095: 1, 0.23803902977081537: 1, 0.23797424539527282: 1, 0.23796384763551692: 1, 0.2378829795978958: 1, 0.237874847598934: 1, 0.2378500990220231: 1, 0.2377983970712481: 1, 0.2377620586094064: 1, 0.23776010825912597: 1, 0.23775367657819207: 1, 0.23772132426147816: 1, 0.2376746215088365: 1, 0.23765445945725217: 1, 0.2376469028723529: 1, 0.2376425382646057: 1, 0.23763749318831673: 1, 0.23762638360011626: 1, 0.23753558850954662: 1, 0.23751234525798973: 1, 0.23751037002523048: 1, 0.2374964729140441: 1, 0.23745766185251072: 1, 0.23744667551854334: 1, 0.23727525507292394: 1, 0.23727332289494452: 1, 0.2372575321904169: 1, 0.2372334672154181: 1, 0.23722489475635744: 1, 0.2372072557461744: 1, 0.2371916663022372: 1, 0.2371691349226151: 1, 0.23713672338882127: 1, 0.23711091610423804: 1, 0.2370822910119476: 1, 0.23689678073421191: 1, 0.2368951441021266: 1, 0.23688265019594607: 1, 0.23687373764426636: 1, 0.23687076621099504: 1, 0.2368515013274548: 1, 0.23684779496606864: 1, 0.2368178418491103: 1, 0.23679505215683944: 1, 0.23679000256022983: 1, 0.2367889345598854: 1, 0.23676419263480616: 1, 0.23666392607454878: 1, 0.23663330751068934: 1, 0.2365876296366378: 1, 0.23658058101239088: 1, 0.23657856834841282: 1, 0.23657343593970898: 1, 0.23656122104884134: 1, 0.23655814913370285: 1, 0.23650969721459528: 1, 0.2364811587389228: 1, 0.2364416258341024: 1, 0.23640140110362554: 1, 0.23639423613228228: 1, 0.23639285255776027: 1, 0.23639261244984935: 1, 0.23638268620902564: 1, 0.23636277267016872: 1, 0.23634463530622163: 1, 0.23624716949471009: 1, 0.23623279234760344: 1, 0.23620500548966683: 1, 0.23620268313311746: 1, 0.23615635543859434: 1, 0.2361456082555723: 1, 0.23614047052880532: 1, 0.23610098995734494: 1, 0.2360941080907394: 1, 0.23605299300703492: 1, 0.23597939682009775: 1, 0.2359395038491428: 1, 0.23593872198090288: 1, 0.23591994154372245: 1, 0.23582831780887836: 1, 0.23582662997293505: 1, 0.23580534254226376: 1, 0.23575912633606372: 1, 0.23572429182034163: 1, 0.23572019231923497: 1, 0.2357130360021209: 1, 0.23563098152469097: 1, 0.23559656549164854: 1, 0.23558761259379857: 1, 0.23557286195465557: 1, 0.23557043346847634: 1, 0.2355451595936141: 1, 0.23547601119424716: 1, 0.2354195136134924: 1, 0.23538745462921778: 1, 0.23535866065160743: 1, 0.2353384367390571: 1, 0.2353306547484875: 1, 0.2352753185027526: 1, 0.23520649353133918: 1, 0.2351593409886149: 1, 0.23512286134692212: 1, 0.23510996346311452: 1, 0.23506318596689735: 1, 0.23506248027755772: 1, 0.2350596369932722: 1, 0.23502982793340668: 1, 0.23501117934855154: 1, 0.234961712006308: 1, 0.23492500684766127: 1, 0.2348225654506699: 1, 0.2347954038873546: 1, 0.23477900411899483: 1, 0.2347138451065456: 1, 0.23470041299768166: 1, 0.23462541147916716: 1, 0.23459708683102334: 1, 0.2345605903612236: 1, 0.23452808778855638: 1, 0.23448113264942833: 1, 0.234434349304341253: 1, 0.23443519238520882: 1, 0.23437423007705152: 1, 0.234362322020008: 1, 0.23433340214367746: 1, 0.23423519964985273: 1, 0.23417985255277907: 1, 0.23414372846057535: 1, 0.23412340412054775: 1, 0.2340796981866383: 1, 0.2340518941659574: 1, 0.23403664116690745: 1, 0.2339680129780744: 1, 0.23390811486116111: 1, 0.23388796687641844: 1, 0.23387580722021462: 1, 0.2338547969898868: 1, 0.233845933208179: 1, 0.23379386592001278: 1, 0.23376800410043663: 1, 0.23375990356692344: 1, 0.23375902522704253: 1, 0.2337503229222035: 1, 0.23373745067551863: 1, 0.23369545462260022: 1, 0.23368549076976006: 1, 0.2336584940080742: 1, 0.23364772146440654: 1, 0.23360898284071424: 1, 0.23351790849178486: 1, 0.2334656899015104: 1, 0.23344122826188546: 1, 0.23343022224390672: 1, 0.23341242208282065: 1, 0.23340473056887595: 1, 0.23339886377732733: 1, 0.233337470167924165: 1, 0.2333360730327798: 1, 0.23322628487464403: 1, 0.2332030482597248: 1, 0.23317461414404578: 1, 0.23316355091308627: 1, 0.23314299509090655: 1, 0.23308727572761426: 1, 0.23303254604898063: 1, 0.23301089399715208: 1, 0.23300208023668614: 1, 0.23297722630895465: 1, 0.23295412802662693: 1, 0.23294711222047618: 1, 0.2328999251390967: 1, 0.23288274237512918: 1, 0.23288237283744778: 1, 0.23284448447592726: 1, 0.23284373542437106: 1, 0.23282764493371705: 1, 0.23281635099453105: 1, 0.23274092966678514: 1, 0.23270779084640225: 1, 0.23265880059214347: 1, 0.2326127490208729: 1, 0.23257789369265322: 1, 0.23257270413350892: 1, 0.23254975483671045: 1, 0.23254622838218791: 1, 0.23253585414330552: 1, 0.2324771327719375: 1, 0.2324518350267096: 1, 0.2324424764534299: 1, 0.23240076705657653: 1, 0.23239576723770053: 1, 0.2323702098509691: 1, 0.23227295081756838: 1, 0.23226564860962481: 1, 0.2322025768317443: 1, 0.23220184345986045: 1, 0.23214104399005456: 1, 0.23213728200870118: 1, 0.23204108775251586: 1, 0.2320090345982619: 1, 0.23199259241305623: 1, 0.2319894069459666: 1, 0.2319373666449579: 1, 0.23187116772008481: 1, 0.23186634863388766: 1, 0.23185625390424333: 1, 0.23185475234033007: 1, 0.23169837312968045: 1, 0.23168286670901042: 1, 0.23164466073425094: 1, 0.23158567955488107: 1, 0.23158408287915583: 1, 0.23154349262648471: 1, 0.23152777853038545: 1, 0.2315168617338536: 1, 0.23147565185610738: 1, 0.23146175327127472: 1, 0.23139963451268158: 1, 0.2313987725527127: 1, 0.23139852245621628: 1, 0.23137581422364856: 1, 0.23136751100229275: 1, 0.2313412056204741: 1, 0.2313302516872091: 1, 0.23131848939100955: 1, 0.23126822617284543: 1, 0.23125603779818057: 1, 0.23120964087696583: 1, 0.23111404205252986: 1, 0.2310832408303533: 1, 0.23107319697262088: 1, 0.23103392827532845: 1, 0.2310318428178975: 1, 0.23098292710615163: 1, 0.23098205111610751: 1, 0.23096763053089117: 1, 0.230989001153182736: 1

0.23085761220206663: 1, 0.23083940320712618: 1, 0.2307607499559137: 1, 0.23071667093148795: 1, 0.23067676076274626: 1, 0.23065880956916573: 1, 0.2306204714777699: 1, 0.23059333537072274: 1, 0.23059282647496968: 1, 0.2305872258569679: 1, 0.23058238226898184: 1, 0.23057792097621072: 1, 0.23056285572548155: 1, 0.23056033033328616: 1, 0.2305379245768982: 1, 0.2305332264877321: 1, 0.23045190951272332: 1, 0.2304426339596876: 1, 0.23039990439156316: 1, 0.23037158580590386: 1, 0.23036759232979553: 1, 0.2303588375710012: 1, 0.23034857619027163: 1, 0.23030778931487547: 1, 0.2303066344201654: 1, 0.23027661008929745: 1, 0.23026945608807928: 1, 0.2302586705709797: 1, 0.23024789056102152: 1, 0.23018392480415392: 1, 0.23017584453223444: 1, 0.23017571869050113: 1, 0.2301659026012026: 1, 0.23015128008697147: 1, 0.2301419772821107: 1, 0.2301355218759467: 1, 0.23010744028339988: 1, 0.23010374079371065: 1, 0.23009794574719772: 1, 0.23009781794390521: 1, 0.23009301555186362: 1, 0.2300868119339746: 1, 0.23004590606767022: 1, 0.2300221107309378: 1, 0.2300198268520765: 1, 0.2299929384841583: 1, 0.22998130164775865: 1, 0.22992947572153263: 1, 0.22988276635092295: 1, 0.2298358422157743: 1, 0.2297881400553559: 1, 0.22978802634036827: 1, 0.22976773679856569: 1, 0.22970023251825153: 1, 0.2296614163425698: 1, 0.22964413513195697: 1, 0.22961739196808634: 1, 0.22960002682486633: 1, 0.22952994586099068: 1, 0.22951204526893365: 1, 0.22950343160141318: 1, 0.22945715325040375: 1, 0.2294237590448386: 1, 0.2294089678040921: 1, 0.22934491344767244: 1, 0.2293431797379056: 1, 0.2292964051008186: 1, 0.22929615713101936: 1, 0.22927969502297463: 1, 0.22924702975660588: 1, 0.22924359728799887: 1, 0.22916286010501113: 1, 0.2291186621312115: 1, 0.22908400616184427: 1, 0.22906658168537675: 1, 0.22899532586100324: 1, 0.22898663784091444: 1, 0.22898294848916528: 1, 0.22895172623976118: 1, 0.2289463176482928: 1, 0.22891326046676602: 1, 0.22889369397410778: 1, 0.2288253105405718: 1, 0.22887033182000566: 1, 0.22882455156321632: 1, 0.22880328847195958: 1, 0.2287932445378828: 1, 0.22873529428442838: 1, 0.22871200997923538: 1, 0.22869579386440847: 1, 0.22864848262353205: 1, 0.22853342463400386: 1, 0.22851652551088592: 1, 0.22847538862358605: 1, 0.22846959063211575: 1, 0.22845427307734056: 1, 0.2284049864540624: 1, 0.22837460448509875: 1, 0.22832660165270557: 1, 0.2283185108515757: 1, 0.22831624228582: 1, 0.2283039039032985: 1, 0.2282764885152651: 1, 0.22825655529399708: 1, 0.2282434243865097: 1, 0.2282356577984842: 1, 0.228233904446563: 1, 0.22821792778743305: 1, 0.2282148686060257: 1, 0.22821094954982885: 1, 0.22814939569130907: 1, 0.22814307230058525: 1, 0.22810474127009853: 1, 0.22809914553254299: 1, 0.22801279964218896: 1, 0.22787647190494928: 1, 0.22784165661800107: 1, 0.2278187355499536: 1, 0.22780887577750497: 1, 0.22776369877035008: 1, 0.22775742110347325: 1, 0.22774852734884213: 1, 0.2277414083218666: 1, 0.2276888307037215: 1, 0.22762829256321615: 1, 0.22754930028570555: 1, 0.2275366104203496: 1, 0.22750943235644747: 1, 0.22744656928643167: 1, 0.22743385844534333: 1, 0.22742466011491222: 1, 0.22741690268187145: 1, 0.22741385536225492: 1, 0.2274035031671796: 1, 0.22734375397105122: 1, 0.22733805349829464: 1, 0.22732923089515414: 1, 0.22731648084324985: 1, 0.22730183869824952: 1, 0.22728149263709946: 1, 0.2272724290870167: 1, 0.22727240678280913: 1, 0.2272205714429576: 1, 0.2271940602610519: 1, 0.22719400156181344: 1, 0.22719014854773795: 1, 0.22714333667810602: 1, 0.22708857091615708: 1, 0.2270004420576146: 1, 0.2269797985463096: 1, 0.22696505506850384: 1, 0.22695760571416912: 1, 0.2269568289335085: 1, 0.22686342866969836: 1, 0.22685647048334673: 1, 0.22685264402775487: 1, 0.2268339370274253: 1, 0.22680503816575961: 1, 0.22677606258728192: 1, 0.22673973647229043: 1, 0.22672900605758115: 1, 0.22672169401006145: 1, 0.22670801491152667: 1, 0.22669300268381826: 1, 0.22661228837654562: 1, 0.22657649343292763: 1, 0.2265602946214568: 1, 0.22652551511767982: 1, 0.226525291964518: 1, 0.2265155863840905: 1, 0.22650208522542423: 1, 0.22648682141363996: 1, 0.2264771078998738: 1, 0.22646928260729318: 1, 0.22643273552110527: 1, 0.22642806308429816: 1, 0.2263751127640206: 1, 0.22636531593098028: 1, 0.22628921276711308: 1, 0.2262373632588452: 1, 0.2261452058022219: 1, 0.2261445590455824: 1, 0.2260146959582494: 1, 0.22598668055818777: 1, 0.22597543647575213: 1, 0.22596734421576947: 1, 0.22592204030245225: 1, 0.22591037662061234: 1, 0.22590055766961406: 1, 0.22589091850116996: 1, 0.22588683285758682: 1, 0.22587823543693167: 1, 0.22585635569777396: 1, 0.22578119134942626: 1, 0.22570254151674082: 1, 0.2256795764218154: 1, 0.22566853120819583: 1, 0.2256596347448877: 1, 0.2256480429983364: 1, 0.22562704587629706: 1, 0.22561682229933422: 1, 0.22561086074182884: 1, 0.225606611611754: 1, 0.2255219400892873: 1, 0.2255043326292156: 1, 0.22547841487263107: 1, 0.22546509865472683: 1, 0.2254567107051869: 1, 0.22537086870023118: 1, 0.22534752730154364: 1, 0.22532605413450207: 1, 0.2252999158142235: 1, 0.2252737921158637: 1, 0.2252347665315957: 1, 0.2252301099290232: 1, 0.22513601557377344: 1, 0.22512002312067306: 1, 0.22511234288694365: 1, 0.22510233211555167: 1, 0.22500590361074185: 1, 0.2249661940420276: 1, 0.22494614369811491: 1, 0.22482383088095068: 1, 0.22481917863933734: 1, 0.22481726399068988: 1, 0.2248035420085579: 1, 0.224761174997212: 1, 0.22473301182184263: 1, 0.22469814875974778: 1, 0.22468976167382168: 1, 0.22462187457131755: 1, 0.22458759012833615: 1, 0.22456248041081708: 1, 0.2245271464243296: 1, 0.22447141044489807: 1, 0.2244696363895604: 1, 0.22446853938203262: 1, 0.2244567083682746: 1, 0.22441075429713792: 1, 0.22438034894632303: 1, 0.22433464964199068: 1, 0.22425308000833968: 1, 0.22424576475779015: 1, 0.22424440610871268: 1, 0.22423880664262208: 1, 0.2241950072547213: 1, 0.2241920500893715: 1, 0.22419192353463113: 1, 0.22417678312438669: 1, 0.22402919871112834: 1, 0.2240223085771812: 1, 0.22400873466889498: 1, 0.22396350962975803: 1, 0.22393587326399128: 1, 0.2239120137017089: 1, 0.22385314439073895: 1, 0.22384569645912034: 1, 0.22374380124851886: 1, 0.2237420080736214: 1, 0.22370973773472974: 1, 0.22368115849843456: 1, 0.2236595438503713: 1, 0.2236527602526697: 1, 0.22360242614055204: 1, 0.22357671624110995: 1, 0.22341174984647585: 1, 0.22340766195554387: 1, 0.22340287452624802: 1, 0.22340021640794225: 1, 0.22337029144046208: 1, 0.22330268691539565: 1, 0.22325491640204337: 1, 0.22324498890941682: 1, 0.22323605723573495: 1, 0.22319428366996022: 1, 0.22318737423470134: 1, 0.22314203902455879: 1, 0.22312394126507176: 1, 0.2230415098351388: 1, 0.222958598510491166: 1, 0.22298433645901383: 1, 0.22297690439504853: 1, 0.22295704005028097: 1, 0.22295368603398025: 1, 0.22290822164469903: 1, 0.22289952538323463: 1, 0.22285888113402946: 1, 0.22283945055743945: 1, 0.2228348593277502: 1, 0.22280509875505852: 1, 0.22274475993684642: 1, 0.22274030202892992: 1, 0.22273157630826643: 1, 0.22271539530174495: 1, 0.2227072701440379: 1, 0.22269350113923564: 1, 0.2226245492369651: 1, 0.22260626420603985: 1, 0.2225624651344372: 1, 0.2225449410337179: 1, 0.2225329056247712: 1, 0.22251535383961674: 1, 0.2225009303094415: 1, 0.22249889435558082: 1, 0.22240220615000516: 1, 0.2224155000207027712: 1, 0.22240000100000001: 1, 0.22239910000000001: 1

0.22238939962829193: 1, 0.22238750595536588: 1, 0.22235547301651623: 1, 0.22231087785705897: 1, 0.22226514880039466: 1, 0.22224647673529332: 1, 0.22223560434374223: 1, 0.22221653583052592: 1, 0.22212061670613584: 1, 0.22212023159153585: 1, 0.22206877167838138: 1, 0.2220359698418771: 1, 0.22200976349367574: 1, 0.22200877069710642: 1, 0.2219542260993681: 1, 0.22195179508380858: 1, 0.2219084366598452: 1, 0.2218604653478468: 1, 0.2218491894174303: 1, 0.22181542173928517: 1, 0.2217888643130559: 1, 0.22175627117053714: 1, 0.22174214953443078: 1, 0.2217258906739145: 1, 0.22166753676529083: 1, 0.22162699510924658: 1, 0.22162670214090271: 1, 0.221601786822951: 1, 0.2215727200089315: 1, 0.2215556913889627: 1, 0.2215370180881926: 1, 0.2215322135290205: 1, 0.2215296098537973: 1, 0.221509281646849: 1, 0.2214882885505806: 1, 0.22148690764828316: 1, 0.22141075614034333: 1, 0.22140468416279505: 1, 0.22136430525999695: 1, 0.2213553545263525: 1, 0.22134565065055184: 1, 0.22134554101281226: 1, 0.22130554917237638: 1, 0.2212758173000222: 1, 0.22126941365081296: 1, 0.2212645110761922: 1, 0.22123045447472287: 1, 0.22122193963279047: 1, 0.22121957961885003: 1, 0.22121821046822285: 1, 0.2211999379479688: 1, 0.2211385325591429: 1, 0.22113689277186396: 1, 0.2211287286278803: 1, 0.22110130922520924: 1, 0.22107953020212437: 1, 0.22105561405594823: 1, 0.2210526779413415: 1, 0.2210515386388344: 1, 0.2210271011161033: 1, 0.2210204429063591: 1, 0.22101848821702097: 1, 0.22101035854781423: 1, 0.22100401483813795: 1, 0.220969392573851: 1, 0.22094178775860795: 1, 0.2209164642950475: 1, 0.22089847504134116: 1, 0.22085481230543846: 1, 0.22084024848740647: 1, 0.22082325170497388: 1, 0.22077608644476734: 1, 0.22076798847476145: 1, 0.22076327428459064: 1, 0.22073085645165613: 1, 0.22066979061971007: 1, 0.22063242822378315: 1, 0.22057249018646408: 1, 0.22057157402851907: 1, 0.2205683907439048: 1, 0.22054837913268338: 1, 0.22051295107921026: 1, 0.22051216635130444: 1, 0.2205112942580741: 1, 0.2205022193969295: 1, 0.220482634880591: 1, 0.22048221980071803: 1, 0.22042813209803025: 1, 0.22041170887905656: 1, 0.22038703952022387: 1, 0.22038634968108975: 1, 0.2203679087203957: 1, 0.2203414165706939: 1, 0.22032975389863754: 1, 0.22032192699910916: 1, 0.22028649322294627: 1, 0.22024714791760291: 1, 0.2202258965054329: 1, 0.2202127980333146: 1, 0.22020373619813108: 1, 0.22019892090970214: 1, 0.2201922592519633: 1, 0.22018379608732683: 1, 0.22017983487378381: 1, 0.2201684644138625: 1, 0.2201326959423525: 1, 0.2200727691668483: 1, 0.2200596180806328: 1, 0.2200378898534115: 1, 0.22001370518510205: 1, 0.22000638037354023: 1, 0.21998470612620158: 1, 0.2199125896176995: 1, 0.2199121619826534: 1, 0.2199060357436851: 1, 0.21984822140750326: 1, 0.21982876904597418: 1, 0.2197927227742679: 1, 0.2197778448060602: 1, 0.2197612212548529: 1, 0.21971909179283536: 1, 0.2196454295535641: 1, 0.2196433575688473: 1, 0.21963713609018196: 1, 0.21959250509294337: 1, 0.21957538156718104: 1, 0.219526875689117: 1, 0.21952078198472577: 1, 0.2194986028945563: 1, 0.21940727196186166: 1, 0.21939046332776627: 1, 0.21937818134407266: 1, 0.21936333728206386: 1, 0.2193566269653912: 1, 0.21933570872646824: 1, 0.21931190203659418: 1, 0.219259439827717: 1, 0.219240624194292: 1, 0.2192357916838298: 1, 0.21920846244190328: 1, 0.21918369606051263: 1, 0.21906098866127277: 1, 0.21904803563112554: 1, 0.21903691581128598: 1, 0.21903274038189924: 1, 0.21899311556476084: 1, 0.2189683248257382: 1, 0.21889819609038835: 1, 0.21887377362153668: 1, 0.21885364595581613: 1, 0.2188327369733273: 1, 0.21880222603390986: 1, 0.2186671083341653: 1, 0.21865543802299625: 1, 0.21864704223673884: 1, 0.21862212370319006: 1, 0.2186086054494859: 1, 0.21856760129841085: 1, 0.2185443731872634: 1, 0.21854361062915117: 1, 0.2185141652337225: 1, 0.21850771213104642: 1, 0.21846234428008504: 1, 0.21842407234939223: 1, 0.21839978711665545: 1, 0.21839680232190092: 1, 0.2183932471854214: 1, 0.21838991092214735: 1, 0.21837816231647092: 1, 0.2183222782681531: 1, 0.21829773713297498: 1, 0.21828801905357473: 1, 0.21821639422440658: 1, 0.2182052510014557: 1, 0.21819534927518164: 1, 0.21819057054272356: 1, 0.2181640592441454: 1, 0.21815865881851432: 1, 0.2181153504915606: 1, 0.21809031804454188: 1, 0.21807610908613512: 1, 0.21805947757073543: 1, 0.2180532899011291: 1, 0.21804982782384533: 1, 0.21803645161597157: 1, 0.21799278333017133: 1, 0.21798080466861902: 1, 0.2179712265578357: 1, 0.21796872635335438: 1, 0.21795028292864846: 1, 0.21794722506938752: 1, 0.2179405103559401: 1, 0.21786849412089226: 1, 0.21785768224918936: 1, 0.21784882996769606: 1, 0.2178454891191009: 1, 0.2178413546789358: 1, 0.217793301721056: 1, 0.21778103143196884: 1, 0.2177407328001574: 1, 0.21767996214477278: 1, 0.2176142700955667: 1, 0.21757291635659196: 1, 0.21754487694118263: 1, 0.21750046869069595: 1, 0.2174832862228139: 1, 0.21747829650582962: 1, 0.2174707769561596: 1, 0.21745742156182804: 1, 0.21742859309519347: 1, 0.2174142663704814: 1, 0.21741107049078265: 1, 0.21717450934363222: 1, 0.21717428798052024: 1, 0.21716247656469975: 1, 0.21715697270579892: 1, 0.2171518605843874: 1, 0.21714130363582398: 1, 0.21713037301591454: 1, 0.21712866483390228: 1, 0.21709913124331193: 1, 0.2170975936041163: 1, 0.21706942049920247: 1, 0.21706239108515024: 1, 0.21701695095913784: 1, 0.21699557012892598: 1, 0.21694208634453407: 1, 0.2169225331709213: 1, 0.2169162507604728: 1, 0.2168975798166613: 1, 0.21686136599363895: 1, 0.21685312150715538: 1, 0.21681601863010574: 1, 0.2167760476180781: 1, 0.21675488019490444: 1, 0.21675423981602193: 1, 0.2167448234075486: 1, 0.21672218368448581: 1, 0.21671982293181397: 1, 0.21670262453212044: 1, 0.2166885637471021: 1, 0.21668297528421385: 1, 0.21666897323359902: 1, 0.21666084694160775: 1, 0.2166204376686326: 1, 0.21661502848555364: 1, 0.21660366911850168: 1, 0.21657752866006275: 1, 0.21655836827867758: 1, 0.2165240176840219: 1, 0.21652388177996895: 1, 0.2165093818569839: 1, 0.21644423838137195: 1, 0.21642550618155387: 1, 0.2164071353199205: 1, 0.2163544215320854: 1, 0.21632254160389452: 1, 0.21629906376264163: 1, 0.21627929415255173: 1, 0.21625819092377513: 1, 0.21617558095241637: 1, 0.21613819303204798: 1, 0.2160786517592942: 1, 0.21607151357857024: 1, 0.216064803803832: 1, 0.21605561729175807: 1, 0.21605230710945045: 1, 0.21604670381702684: 1, 0.21604242469298224: 1, 0.21604177519627177: 1, 0.21603308997607923: 1, 0.21602669736972593: 1, 0.21601668854088935: 1, 0.2159944623127515: 1, 0.21596856017460367: 1, 0.21593161819281717: 1, 0.21592529131094623: 1, 0.21589366222372286: 1, 0.21589293186344038: 1, 0.2158612841322189: 1, 0.21585134102152606: 1, 0.21580137489513587: 1, 0.21577120952813134: 1, 0.21574881907924265: 1, 0.21567149427876922: 1, 0.21565302679501408: 1, 0.21564440366779447: 1, 0.21562536752995537: 1, 0.2156250320782921: 1, 0.21562262997761386: 1, 0.21561506926427682: 1, 0.2156089117055921: 1, 0.2156071590893783: 1, 0.21558705086543162: 1, 0.21557051200021182: 1, 0.21556644033644187: 1, 0.21551842119675005: 1, 0.21549276378472582: 1, 0.2154878414003494: 1, 0.2154859054016457: 1, 0.21543358854050337: 1, 0.21539154410715405: 1, 0.21535451015947957: 1, 0.2153127747087507: 1, 0.21526294564201193: 1, 0.215264738293004667: 1, 0.21524711004200272: 1, 0.21524160605923200: 1

0.20/0656153395/6/6: 1, 0.20/058939281649/6: 1, 0.20/0296/535304534: 1, 0.20/009258695/130/: 1,
0.20698185275494418: 1, 0.20697992415703692: 1, 0.20690137902241315: 1, 0.20683484264137042: 1,
0.2068018448055623: 1, 0.2067583208598003: 1, 0.20674520273083546: 1, 0.2067334692770454: 1,
0.2067221454552601: 1, 0.2067174712912212: 1, 0.20671418739834843: 1, 0.20669302773852258: 1,
0.20669174544238691: 1, 0.20666707577836857: 1, 0.20664921099545844: 1, 0.20660181327677263: 1,
0.20657539323379195: 1, 0.2065607870597572: 1, 0.20656036452389437: 1, 0.20655028714357834: 1,
0.2065283143267023: 1, 0.20651246422642716: 1, 0.2064829664594369: 1, 0.20643893154922002: 1,
0.20636304588731316: 1, 0.20633425719087797: 1, 0.20631162672452588: 1, 0.20630751409986828: 1,
0.2062848760539769: 1, 0.20627404218291082: 1, 0.206255925016194: 1, 0.20621023871147723: 1,
0.20620870973698177: 1, 0.20614878051588859: 1, 0.20613952578125017: 1, 0.20610546916838338: 1,
0.20607948357909292: 1, 0.2060690731358653: 1, 0.20593953781688487: 1, 0.20582653966167622: 1,
0.20582288229139378: 1, 0.20575602761142048: 1, 0.20567445087907327: 1, 0.2056376428502133: 1,
0.20562236191742594: 1, 0.2056073176361948: 1, 0.20559623258082624: 1, 0.20555001402911968: 1,
0.20552894547348607: 1, 0.20552777096515507: 1, 0.20550462784203713: 1, 0.205503203464638: 1,
0.20549834853004698: 1, 0.2054916086666077: 1, 0.2054860447952473: 1, 0.20547889048991205: 1,
0.2054748018598475: 1, 0.20542305005304518: 1, 0.2054167906073803: 1, 0.20531544195602322: 1,
0.20529326428484665: 1, 0.20526799036668614: 1, 0.2052564837803831: 1, 0.2052423054767183: 1,
0.20522561405392256: 1, 0.20519998017426552: 1, 0.20519164249940067: 1, 0.20518589891709435: 1,
0.20512882463763918: 1, 0.2050882715876405: 1, 0.2050176304527136: 1, 0.2050074520158658: 1,
0.20500165277703145: 1, 0.204994275687421: 1, 0.20495717012635636: 1, 0.2049551127590658: 1,
0.20495412926696246: 1, 0.20492468438480435: 1, 0.2049123135430258: 1, 0.20490663772214263: 1,
0.20490280340850509: 1, 0.2048849340876261: 1, 0.20487853671759643: 1, 0.2048734024555919: 1,
0.20486522964818846: 1, 0.20477602167602654: 1, 0.20477102451944618: 1, 0.20474214356691195: 1,
0.2047007819398616: 1, 0.20468019611171992: 1, 0.20466668292032192: 1, 0.20464958148942547: 1,
0.2046434311893176: 1, 0.20463247075828372: 1, 0.2045586823679492: 1, 0.2044999522249655: 1,
0.20442460806337953: 1, 0.20437956119046483: 1, 0.20437758721195098: 1, 0.20437081060828283: 1,
0.204365753963962: 1, 0.2043350041669201: 1, 0.20432277199510515: 1, 0.20429949606167583: 1,
0.20429676393678192: 1, 0.20424421933099907: 1, 0.20424254391726246: 1, 0.20423688296920262: 1,
0.20419609439882144: 1, 0.20417771041831992: 1, 0.20417563827948101: 1, 0.20416434004461184: 1,
0.20412586548299794: 1, 0.20410276238020153: 1, 0.2040901245614616: 1, 0.2040568548548058: 1,
0.20403451882490822: 1, 0.20403142494660265: 1, 0.20402403216110654: 1, 0.20397658278634487: 1,
0.2039693817947183: 1, 0.2039480416649681: 1, 0.20389496380309066: 1, 0.20388968982180117: 1,
0.2038696870534862: 1, 0.20385999951425127: 1, 0.203838489839767: 1, 0.2038240688960515: 1,
0.2038196127206265: 1, 0.20379125638866585: 1, 0.2037833569015369: 1, 0.2037666890872744: 1,
0.20374806652296992: 1, 0.20370092515899277: 1, 0.20368784060380052: 1, 0.20366713369717304: 1,
0.20366356482144662: 1, 0.2035726240225554: 1, 0.20356415863672142: 1, 0.20352726842316865: 1,
0.20350487635901937: 1, 0.20348666820290864: 1, 0.20345727799757932: 1, 0.20344732020307968: 1,
0.20341173174396676: 1, 0.20338572142796973: 1, 0.2033726535288834: 1, 0.20337168528819877: 1,
0.20331859265203572: 1, 0.20328443434096055: 1, 0.20326190815791573: 1, 0.20325262365554592: 1,
0.20321044737655053: 1, 0.20320153102799135: 1, 0.20319229503167519: 1, 0.2031805332145373: 1,
0.2031460032120206: 1, 0.20314492705866397: 1, 0.20313633710634008: 1, 0.2030950327716369: 1,
0.20309121214992074: 1, 0.2030829361569124: 1, 0.20308182465301652: 1, 0.2030732124753642: 1,
0.2030678181862798: 1, 0.2030567016629028: 1, 0.2030269948140773: 1, 0.20302266087292464: 1,
0.20300422648768401: 1, 0.20294065251801813: 1, 0.2029359896218041: 1, 0.20291344509547274: 1,
0.20290024100505757: 1, 0.20289711683357803: 1, 0.20284882741593788: 1, 0.20281505917713413: 1,
0.20276901227147945: 1, 0.2027241688962595: 1, 0.20271995941641807: 1, 0.20269689042477437: 1,
0.20268903157845: 1, 0.20268368189186867: 1, 0.202565438228353: 1, 0.2025599844907506: 1,
0.20255620653527934: 1, 0.2025496691805061: 1, 0.20254414519822966: 1, 0.2025361798433691: 1,
0.20253005888723954: 1, 0.20251187416912755: 1, 0.2024479662823926: 1, 0.20241166371384928: 1,
0.2023965770561511: 1, 0.2023915417560507: 1, 0.20239048383171532: 1, 0.20230332553718408: 1,
0.2022937872764079: 1, 0.20224005292951958: 1, 0.20221145682358302: 1, 0.20220802983694705: 1,
0.20219245548126177: 1, 0.20219170733019354: 1, 0.20216365644579173: 1, 0.20216187834071353: 1,
0.20215575910398853: 1, 0.20212033298512183: 1, 0.20211168729240006: 1, 0.20206629826660122: 1,
0.2020527770027194: 1, 0.2020494545536005: 1, 0.2019225251923335: 1, 0.20191055012837228: 1,
0.20190929802802218: 1, 0.20185736594382978: 1, 0.20184975814134518: 1, 0.20182009362931397: 1,
0.20179422152140908: 1, 0.20173688432500564: 1, 0.2016981156907535: 1, 0.20169092525511825: 1,
0.20168146281863225: 1, 0.20168084658715474: 1, 0.20162892587614278: 1, 0.2015999689727908: 1,
0.20157170015237205: 1, 0.20155027986803442: 1, 0.20151411748541379: 1, 0.2014928073554601: 1,
0.20139534908705703: 1, 0.20139269071362534: 1, 0.20136810714741543: 1, 0.20136291391405214: 1,
0.2013440680684113: 1, 0.20130617320727315: 1, 0.20124714993632026: 1, 0.20122064493916234: 1,
0.20120433580742006: 1, 0.2011209365803309: 1, 0.2011127494619548: 1, 0.20110521232194714: 1,
0.20110260564134858: 1, 0.20109940709702745: 1, 0.20106564858663714: 1, 0.20100436291679838: 1,
0.20100278822214013: 1, 0.2009904198981696: 1, 0.20089051442985278: 1, 0.2008570579206271: 1,
0.20083547267907376: 1, 0.20082506717976098: 1, 0.20077167963656162: 1, 0.20075285061832404: 1,
0.2007280112925264: 1, 0.20069411707018647: 1, 0.20067749385548983: 1, 0.2006637840093477: 1,
0.2006162235657966: 1, 0.2005808849113263: 1, 0.20055570431938652: 1, 0.20055045198797078: 1,
0.20046650398620264: 1, 0.20042800716940237: 1, 0.20039639526829847: 1, 0.20035475584781995: 1,
0.2003356804873157: 1, 0.20031586758953465: 1, 0.20031084467213145: 1, 0.20026190605619185: 1,
0.20025340163153488: 1, 0.20015358785979723: 1, 0.20014515782041278: 1, 0.20014355430068387: 1,
0.20008010631748385: 1, 0.2000296927596033: 1, 0.20000945274087667: 1, 0.19998725924536523: 1,
0.19997447079130257: 1, 0.1999597047031555: 1, 0.1999500455292122: 1, 0.19989467219880136: 1,
0.19986666623777047: 1, 0.19986636950510572: 1, 0.19985382255780815: 1, 0.19981601278009564: 1,
0.199774362925564: 1, 0.19976166996680705: 1, 0.19975838083555011: 1, 0.199710486157014: 1,
0.19970349677755264: 1, 0.19969656380473064: 1, 0.199688771217254: 1, 0.1996767683300437: 1,
0.199654593548422: 1, 0.19956287062820657: 1, 0.19956203613043824: 1, 0.19956003444701562: 1,
0.1995083181714531: 1, 0.19946518651443218: 1, 0.1994515663400655: 1, 0.19942456785533078: 1,
0.1994094836685943: 1, 0.19940520478323984: 1, 0.1992930330626827: 1, 0.19927772574126565: 1,

0.1992707170182791: 1, 0.19927062929083325: 1, 0.1992671986778351: 1, 0.19920110150156586: 1,
0.19918973314929067: 1, 0.1991633699035842: 1, 0.19915458485610513: 1, 0.1991519543479917: 1,
0.19912729634366494: 1, 0.19908715371753574: 1, 0.1990473280392344: 1, 0.19902600833605016: 1,
0.19898493384745686: 1, 0.1989630815776882: 1, 0.19883207258180813: 1, 0.19882582254596154: 1,
0.19880303082447137: 1, 0.19878852970718108: 1, 0.19873710329866026: 1, 0.19873228062835727: 1,
0.1987178421139102: 1, 0.1987058466379531: 1, 0.1987012930134124: 1, 0.19869024006549305: 1,
0.1986869897494731: 1, 0.1986846347258469: 1, 0.19865811739835354: 1, 0.1986549296617003: 1,
0.19864239955782226: 1, 0.1986338211472027: 1, 0.1986042221392604: 1, 0.1985968730617595: 1,
0.19859352614872716: 1, 0.19856683681550885: 1, 0.19855872120512696: 1, 0.1985288126589532: 1,
0.19846320151621843: 1, 0.1984488145795941: 1, 0.1984378325155444: 1, 0.19842186471602197: 1,
0.19840655010992161: 1, 0.19837324343078463: 1, 0.1983428476560654: 1, 0.1983292839495851: 1,
0.19831446344099762: 1, 0.19831176328831135: 1, 0.19830043470760095: 1, 0.19821929463566598: 1,
0.19820521000907326: 1, 0.19816121935511705: 1, 0.19814275739079068: 1, 0.19813456512944266: 1,
0.1981345566196462: 1, 0.19812663527742708: 1, 0.19811979362826085: 1, 0.1980964473765811: 1,
0.19803821229705112: 1, 0.19803268352152384: 1, 0.19802023429318347: 1, 0.1979899487229681: 1,
0.1979464304341129: 1, 0.19791322554354887: 1, 0.19787373197237662: 1, 0.1978491441087345: 1,
0.1978461607912263: 1, 0.19781887784139693: 1, 0.19781231354401735: 1, 0.1978069768058771: 1,
0.19778007276726695: 1, 0.1977528537287901: 1, 0.197694698927177: 1, 0.19769409919176448: 1,
0.19767010251189748: 1, 0.19763451930912107: 1, 0.19762278150746881: 1, 0.19761161831751228: 1,
0.19757455888276412: 1, 0.1975672222539357: 1, 0.19741592054815307: 1, 0.19736163460948997: 1,
0.19732371992342804: 1, 0.19729673356846836: 1, 0.19729417954343798: 1, 0.19729210094777355: 1,
0.19728611194819462: 1, 0.19727798177825548: 1, 0.19726550173098698: 1, 0.19722717644251586: 1,
0.19721997849474238: 1, 0.19721099477222023: 1, 0.19717293827450247: 1, 0.1971319052992847: 1,
0.19709490033783897: 1, 0.19709475045896346: 1, 0.1970283235007476: 1, 0.19697473942181587: 1,
0.19697147189608832: 1, 0.19696988676688712: 1, 0.1969696638217424: 1, 0.19691694135511845: 1,
0.19687466129671766: 1, 0.19682737821816093: 1, 0.1968165682794356: 1, 0.19678843858821524: 1,
0.19675697443250814: 1, 0.19674423694765866: 1, 0.1967266871117437: 1, 0.19672420391554596: 1,
0.1967064576372597: 1, 0.19666424314591108: 1, 0.19665827329730493: 1, 0.19662481048144545: 1,
0.1966129642220922: 1, 0.1965966008011006: 1, 0.19657405578054646: 1, 0.19656863333525187: 1,
0.1965474865892249: 1, 0.19654748203007794: 1, 0.19654689200701633: 1, 0.19654498716354354: 1,
0.1965011117118974: 1, 0.19649175738713126: 1, 0.19647359307664358: 1, 0.19645427816038533: 1,
0.19645261889689059: 1, 0.1964517607210074: 1, 0.19644428528133698: 1, 0.19643717675161687: 1,
0.19641174879661016: 1, 0.19640397888333522: 1, 0.19637664102139912: 1, 0.19636969644188798: 1,
0.19635125794385877: 1, 0.19633187960577347: 1, 0.19632663785438678: 1, 0.19632274544729106: 1,
0.19630980185507635: 1, 0.19629993040433497: 1, 0.19629924584481606: 1, 0.19623970084139383: 1,
0.1962195583431921: 1, 0.19619459483494953: 1, 0.19618865374544361: 1, 0.19617516642498764: 1,
0.19617138576070095: 1, 0.19614026662326003: 1, 0.19611908624701624: 1, 0.19607615531838152: 1,
0.1960731561100316: 1, 0.1960430036734963: 1, 0.19599028767329728: 1, 0.1959688555396372: 1,
0.19592802293403203: 1, 0.19592244055690358: 1, 0.19591091460805032: 1, 0.19589046703261806: 1,
0.1958844875883753: 1, 0.1958705400708261: 1, 0.19586838605777562: 1, 0.19578498133311056: 1,
0.19573189285369727: 1, 0.19571429117054018: 1, 0.195693340745484: 1, 0.19562844851844266: 1,
0.19562802522099226: 1, 0.19561655936669947: 1, 0.19561226098898218: 1, 0.1956010615335158: 1,
0.19558487409086905: 1, 0.19557855504037008: 1, 0.1955706226202115: 1, 0.19554640610598797: 1,
0.19553333577507406: 1, 0.19550621150417025: 1, 0.19549553426457397: 1, 0.19542193608402764: 1,
0.19542158730207443: 1, 0.19541929313352396: 1, 0.19541917639627937: 1, 0.19541712106670886: 1,
0.19541133123518206: 1, 0.19539221173779786: 1, 0.1953838681722759: 1, 0.19538361802350848: 1,
0.19535404359353353: 1, 0.19535391878348338: 1, 0.1953430530706214: 1, 0.1953398291093191: 1,
0.1952775019278086: 1, 0.1952657497019245: 1, 0.19526457654273519: 1, 0.19526201810508426: 1,
0.1952492112209734: 1, 0.19521802888226028: 1, 0.19520781722407352: 1, 0.19520305377529673: 1,
0.1951382557873361: 1, 0.1951061632889437: 1, 0.195093217311892: 1, 0.19509282946963846: 1,
0.1950772494589969: 1, 0.19506553704048296: 1, 0.19504123238708224: 1, 0.19499350739820287: 1,
0.19498077375551398: 1, 0.19497352857312797: 1, 0.19495154037224607: 1, 0.19494818461947266: 1,
0.19491476953915476: 1, 0.19490999619218674: 1, 0.19488699617538163: 1, 0.1948850710239606: 1,
0.1947915630448769: 1, 0.19478916755620715: 1, 0.19475048883410326: 1, 0.19474925605768292: 1,
0.19466660844364345: 1, 0.19465720413746135: 1, 0.1946431404173851: 1, 0.1946391895262319: 1,
0.19456695983099756: 1, 0.19454939079029213: 1, 0.19454795026708532: 1, 0.19450090466461728: 1,
0.19449697420691697: 1, 0.1944847923493144: 1, 0.19442850729884414: 1, 0.19436301035002773: 1,
0.19435922347483656: 1, 0.19434335779414622: 1, 0.19430533285685714: 1, 0.19428525632894272: 1,
0.19426612399707519: 1, 0.19424980631211458: 1, 0.19424485600292088: 1, 0.19423841352904064: 1,
0.19423297385585298: 1, 0.1941857323882648: 1, 0.19416845565108698: 1, 0.19414645767734268: 1,
0.19414049634149333: 1, 0.1941232979340152: 1, 0.1941181656967328: 1, 0.19410408483945876: 1,
0.1940916110536721: 1, 0.19408598391918927: 1, 0.1940597031571631: 1, 0.1940370895212567: 1,
0.1939804978867149: 1, 0.1939711327668472: 1, 0.1939356465173018: 1, 0.1939232973617848: 1,
0.1939108459061367: 1, 0.1938863827338363: 1, 0.1938851349135403: 1, 0.19387493831567365: 1,
0.1938366070914644: 1, 0.1938190514085692: 1, 0.19380018278697372: 1, 0.19371627739535593: 1,
0.193661110875853: 1, 0.19365513264871412: 1, 0.19363048696068946: 1, 0.19362258914822697: 1,
0.19359352479630546: 1, 0.1935758628536763: 1, 0.1935756963569109: 1, 0.19356371935780317: 1,
0.1935512785751868: 1, 0.19351670913631702: 1, 0.19350532223798167: 1, 0.19346808307277863: 1,
0.19346258805501676: 1, 0.19345501151366587: 1, 0.193421885432627: 1, 0.19340219737800382: 1,
0.1933657255921567: 1, 0.19336069533838715: 1, 0.19334468035909755: 1, 0.19332202715492422: 1,
0.1932881603357604: 1, 0.19327794086603836: 1, 0.19321344075029323: 1, 0.19320361376299405: 1,
0.1932018394708011: 1, 0.1931737486857214: 1, 0.19315988985593635: 1, 0.19315363907009275: 1,
0.19308482111492384: 1, 0.19307646276434842: 1, 0.19306892280436624: 1, 0.1930580984903632: 1,
0.19301263873703567: 1, 0.19298949976184296: 1, 0.1929733759537462: 1, 0.19295220856667417: 1,
0.19295205638544896: 1, 0.19294875394872366: 1, 0.19294842313065877: 1, 0.1929406009653356: 1,
0.19292223497684774: 1, 0.19292153087834144: 1, 0.1929198435212915: 1, 0.192893156187525: 1,
0.19288415819803956: 1, 0.1928756470451301: 1, 0.19280499093657905: 1, 0.1927491811227584: 1,

0.19267786980088647: 1, 0.1926589206944247: 1, 0.19263729765482035: 1, 0.19262364235803517: 1,
0.19261612583502194: 1, 0.1926105640416599: 1, 0.19260353500859534: 1, 0.1925889760422327: 1,
0.19251199203696429: 1, 0.19248413882414095: 1, 0.1924783810967112: 1, 0.19243242458011633: 1,
0.1923926540522043: 1, 0.19233617816444337: 1, 0.19231799162796906: 1, 0.19226205521373485: 1,
0.1922202700320314: 1, 0.19219292118858697: 1, 0.1921407761079705: 1, 0.1920478955808723: 1,
0.19203826583912245: 1, 0.1920162942313121: 1, 0.19194552114805116: 1, 0.1919330251328867: 1,
0.1919327600419123: 1, 0.19192289940131035: 1, 0.19185013389449018: 1, 0.1918319328882815: 1,
0.191818722107838: 1, 0.19180576789631218: 1, 0.1917807486481348: 1, 0.191766793036325: 1,
0.19172758333267778: 1, 0.19171835605389645: 1, 0.19166178968209552: 1, 0.19165639836514697: 1,
0.19163194884222318: 1, 0.1916202653832199: 1, 0.19156017871715197: 1, 0.19152678918400395: 1,
0.19151268957521012: 1, 0.19150558252644403: 1, 0.19149712391934698: 1, 0.19149420539982312: 1,
0.19149162083622134: 1, 0.19148253262246512: 1, 0.1914712375488502: 1, 0.19146153685062145: 1,
0.19144855618282783: 1, 0.19143077622241747: 1, 0.19142270457432908: 1, 0.1913885040415595: 1,
0.1913455728025285: 1, 0.19131389202895346: 1, 0.19131156176713993: 1, 0.19130218693373804: 1,
0.19128512208827395: 1, 0.19127060776610613: 1, 0.19122560144442313: 1, 0.1911940477929839: 1,
0.19118957395674444: 1, 0.19118004362776247: 1, 0.19116438750986595: 1, 0.19113790419496252: 1,
0.19111359733850003: 1, 0.1910998255634134: 1, 0.19107100771751634: 1, 0.19104988361196176: 1,
0.19103294774644064: 1, 0.1910240276297125: 1, 0.19100723597264666: 1, 0.19093596664598447: 1,
0.19090486990888714: 1, 0.1908689525825028: 1, 0.1908496452483556: 1, 0.19084179989850034: 1,
0.19077039861805553: 1, 0.19075985535853787: 1, 0.1907579162791603: 1, 0.19070472021604293: 1,
0.19069307877187142: 1, 0.19068712630268023: 1, 0.1906166918703479: 1, 0.1906075875207292: 1,
0.19058076923942513: 1, 0.1905774379258286: 1, 0.19056964381701516: 1, 0.19053011014696522: 1,
0.1905193403154761: 1, 0.1904996397823115: 1, 0.19046838049137987: 1, 0.1904566238644883: 1,
0.19044187380867497: 1, 0.19043977310332144: 1, 0.19043388067517397: 1, 0.19035502086026024: 1,
0.1903538733296435: 1, 0.1903449100299752: 1, 0.19032225290544372: 1, 0.1903088969310263: 1,
0.19028875035567042: 1, 0.190284949864234463: 1, 0.1902607440853963: 1, 0.190239792426856: 1,
0.19023359812282226: 1, 0.19021737162169733: 1, 0.19020686908950235: 1, 0.19019327835055233: 1,
0.19017115694295214: 1, 0.19017110886555633: 1, 0.19016306018320933: 1, 0.19015953620806408: 1,
0.19013723391467735: 1, 0.1901287729777501: 1, 0.19012802576627254: 1, 0.19009381006054873: 1,
0.19005427888175583: 1, 0.19004918132368664: 1, 0.19004702134295332: 1, 0.19000935705740166: 1,
0.18997308730763188: 1, 0.1899438836159118: 1, 0.1899280842585914: 1, 0.18990430589303722: 1,
0.18990049498979392: 1, 0.18998992240017858: 1, 0.18988316444282147: 1, 0.18986036514321333: 1,
0.1897904467046836: 1, 0.18974686845896335: 1, 0.1897163162913599: 1, 0.18967200372263993: 1,
0.18962312979622264: 1, 0.18961280414647222: 1, 0.18961151219888578: 1, 0.1895635094891186: 1,
0.1895211161655765: 1, 0.18947761586958994: 1, 0.18945559536242895: 1, 0.18941740993539524: 1,
0.1893728002417099: 1, 0.1893705841322684: 1, 0.18935869086851537: 1, 0.18934080383735322: 1,
0.18930818893023804: 1, 0.1892962397049587: 1, 0.18928495109488833: 1, 0.18926237373433732: 1,
0.18923933357707579: 1, 0.18922347607680684: 1, 0.18921071788528368: 1, 0.18920688801648886: 1,
0.18918422261491974: 1, 0.1891655146217949: 1, 0.18916222035149083: 1, 0.18913898998857073: 1,
0.18912187332576783: 1, 0.18910309467661235: 1, 0.18907119539892808: 1, 0.1890659550112531: 1,
0.18906059907413433: 1, 0.1890534715362099: 1, 0.1890530963929794: 1, 0.18902007762872328: 1,
0.18900081091275467: 1, 0.18899958140776724: 1, 0.18897643127217414: 1, 0.18893846139977963: 1,
0.18893430032928626: 1, 0.18891568383413745: 1, 0.1889082940190895: 1, 0.18890633908756838: 1,
0.18888037504803099: 1, 0.18885533754107178: 1, 0.18884799426739826: 1, 0.18883947758513708: 1,
0.18882888091161598: 1, 0.18880919458741607: 1, 0.18879619399313657: 1, 0.18878490798268185: 1,
0.1887691866691989: 1, 0.18876754882871485: 1, 0.18875276786383788: 1, 0.1887294187927482: 1,
0.18871252962833587: 1, 0.18869924170690236: 1, 0.18869904088127662: 1, 0.18864969902442522: 1,
0.18864016445162063: 1, 0.1886252566913: 1, 0.1885734308886219: 1, 0.1885486020496616: 1,
0.18849819435765314: 1, 0.18845936975138264: 1, 0.18845520433517737: 1, 0.18839816228661804: 1,
0.1883960131110872: 1, 0.18838878589844238: 1, 0.18835966672108714: 1, 0.18835410643611983: 1,
0.18835091773628665: 1, 0.18824244946698837: 1, 0.18823476825141916: 1, 0.1882281231700185: 1,
0.1882243954553034: 1, 0.188223330476523: 1, 0.18820253001625648: 1, 0.1881879396747342: 1,
0.18818562908844294: 1, 0.1881670094776231: 1, 0.18816579421086269: 1, 0.18813896246323575: 1,
0.18812430124756735: 1, 0.18808699922528846: 1, 0.18806631368484614: 1, 0.1880630781336956: 1,
0.18806196462744398: 1, 0.18805451088558248: 1, 0.18805123635278498: 1, 0.18804003583194706: 1,
0.18799338333523916: 1, 0.18794507226205376: 1, 0.1879372625490497: 1, 0.18792192008490374: 1,
0.18790731230155727: 1, 0.18787813599206624: 1, 0.1878704535811069: 1, 0.18786511528251723: 1,
0.1877731004390917: 1, 0.18776317823101762: 1, 0.18775615052429884: 1, 0.18774340870439774: 1,
0.18773942627214094: 1, 0.18770442590721956: 1, 0.18768717064822796: 1, 0.1876862904491829: 1,
0.18764535187053194: 1, 0.18762539436544542: 1, 0.18759008621630038: 1, 0.18754042375168437: 1,
0.18748617060830994: 1, 0.18746037289046835: 1, 0.18743893524280392: 1, 0.18742213449678347: 1,
0.1874090750760636: 1, 0.18740708987161908: 1, 0.18739903466148508: 1, 0.18738440082445731: 1,
0.18737679948979033: 1, 0.18736446760483613: 1, 0.18733654933355204: 1, 0.1873295764199077: 1,
0.18732618728594763: 1, 0.18728875947271958: 1, 0.18726787367757655: 1, 0.18726125883227265: 1,
0.18725582235048882: 1, 0.18724269524588266: 1, 0.18720205641826262: 1, 0.18717258436979076: 1,
0.18714055104226884: 1, 0.1871108813844325: 1, 0.18707420371715777: 1, 0.18705946467858375: 1,
0.18703455264306076: 1, 0.1870118949430738: 1, 0.18698779512864708: 1, 0.18693796613008737: 1,
0.18691212576362992: 1, 0.18690543328969608: 1, 0.18681145329287904: 1, 0.18678849074453624: 1,
0.18672813074292263: 1, 0.18667494211422586: 1, 0.1866547553081829: 1, 0.18665390281731215: 1,
0.18665135488666923: 1, 0.18663438384980258: 1, 0.1865980176349129: 1, 0.186579073603033: 1,
0.18657475519251981: 1, 0.18656101794402405: 1, 0.18651200624214298: 1, 0.1865069376689053: 1,
0.18648639321940708: 1, 0.1864802875354121: 1, 0.1864724405774561: 1, 0.18646802726865536: 1,
0.18643724728311462: 1, 0.18642033323184484: 1, 0.18640980173096242: 1, 0.1864029074168828: 1,
0.18635869780111786: 1, 0.18632515130179486: 1, 0.18631908761857854: 1, 0.18631350927824497: 1,
0.1862975239110643: 1, 0.1862888313758219: 1, 0.18628428712844305: 1, 0.18627251861578434: 1,
0.1862195462781721: 1, 0.18620177848931604: 1, 0.1861900735511844: 1, 0.18618136372706823: 1,
0.1861417158492388: 1, 0.18612339367283298: 1, 0.18606997075123838: 1, 0.18605736548007348: 1,

0.18605594861184754: 1, 0.1860256876864206: 1, 0.18601393792453802: 1, 0.18598007205750033: 1,
0.18595402423430266: 1, 0.1859422381812018: 1, 0.18590977460692512: 1, 0.18587569644114205: 1,
0.18586208556793715: 1, 0.18584917289011094: 1, 0.1858347323596568: 1, 0.1858321660726902: 1,
0.18582741850433673: 1, 0.1857923732834034: 1, 0.18579037310930238: 1, 0.18578865155796648: 1,
0.18575294813488458: 1, 0.18569720172016776: 1, 0.1856755700603416: 1, 0.18566623613509964: 1,
0.1856658065543915: 1, 0.1856635106706701: 1, 0.18566172031401862: 1, 0.1856289590100544: 1,
0.18557101537191342: 1, 0.185535127898158: 1, 0.18553231742098122: 1, 0.18552965949786593: 1,
0.1854946440886717: 1, 0.18548939164295922: 1, 0.18546194360655496: 1, 0.18545622507354287: 1,
0.1854539120717511: 1, 0.18544415626476807: 1, 0.18543029643643558: 1, 0.18542554090003693: 1,
0.18537428479486365: 1, 0.18534788342632877: 1, 0.18527844578839242: 1, 0.18527706423917567: 1,
0.18526553524947917: 1, 0.18525913951818596: 1, 0.185247196345935: 1, 0.18523293136534427: 1,
0.18520941408777827: 1, 0.18518479813538463: 1, 0.18514906280470483: 1, 0.18513663811752498: 1,
0.18511126380531695: 1, 0.1851092570827139: 1, 0.18510025322837242: 1, 0.18509791975612125: 1,
0.18506802226062166: 1, 0.18505825608845716: 1, 0.18504019881563996: 1, 0.18503623060201302: 1,
0.18503164697051222: 1, 0.1849848936321275: 1, 0.1849508542980279: 1, 0.18494432269093145: 1,
0.18493574584977335: 1, 0.18489928185664853: 1, 0.1848828530529857: 1, 0.18487223554219762: 1,
0.18483271125971307: 1, 0.18481764632124356: 1, 0.18479753931369147: 1, 0.1847799799875989: 1,
0.18475639938341115: 1, 0.1847540314750407: 1, 0.1847496312896232: 1, 0.1847159224316394: 1,
0.1847080832440507: 1, 0.1846865570418682: 1, 0.18467673359963593: 1, 0.1846580822232081: 1,
0.18464828013418405: 1, 0.18463491819351924: 1, 0.18460307383933638: 1, 0.1845625426790312: 1,
0.18456127495753566: 1, 0.18455347429917465: 1, 0.18449890531537386: 1, 0.18449752154170337: 1,
0.1844880382969566: 1, 0.1844859454139396: 1, 0.18448072305493657: 1, 0.18447478043734378: 1,
0.18443834988735533: 1, 0.18442883799544502: 1, 0.18442005454871213: 1, 0.18434887989801085: 1,
0.18432597120486907: 1, 0.1842861603526325: 1, 0.18427741043843923: 1, 0.18426092399645466: 1,
0.1842270786227767: 1, 0.18418556367766256: 1, 0.1841673362908665: 1, 0.18407836331552127: 1,
0.18402262907694072: 1, 0.1839746949606983: 1, 0.18395120249512847: 1, 0.18394478562825378: 1,
0.18394236114741536: 1, 0.18392104067693044: 1, 0.18391260301250936: 1, 0.18390598887526992: 1,
0.1839040080080486: 1, 0.18388575481574268: 1, 0.18386832561690997: 1, 0.18386794680448335: 1,
0.18375735838999616: 1, 0.18373127714124493: 1, 0.18372597410779665: 1, 0.18371234695323524: 1,
0.18368229720449084: 1, 0.18361831947491639: 1, 0.18361276771841162: 1, 0.18359665125590743: 1,
0.1835609941847731: 1, 0.18354699613980144: 1, 0.18350916447430107: 1, 0.18349941232890157: 1,
0.18340860118277: 1, 0.18338481565813652: 1, 0.1833500399465584: 1, 0.18329399078166825: 1,
0.18329365703930164: 1, 0.18328774215585306: 1, 0.1832793517212964: 1, 0.1832061757857008: 1,
0.18310384914287217: 1, 0.1831032579255028: 1, 0.18310160972325656: 1, 0.18306910568566037: 1,
0.18304926750222303: 1, 0.18303960218010598: 1, 0.1830203671129315: 1, 0.18298363931150663: 1,
0.182922456427908: 1, 0.18289109697198122: 1, 0.18288711795390625: 1, 0.18287924171189784: 1,
0.18287766304278544: 1, 0.18286876392256776: 1, 0.1828298260270708: 1, 0.182801821610874: 1,
0.1827913531129191: 1, 0.1827179438671524: 1, 0.18270576046234566: 1, 0.18262767543680902: 1,
0.18262269410782245: 1, 0.18257980619600503: 1, 0.18255539958372513: 1, 0.18253090276284745: 1,
0.18249704326183724: 1, 0.1824931438275079: 1, 0.18248519740868277: 1, 0.18247478176982673: 1,
0.18245345422461898: 1, 0.18240875617592636: 1, 0.1823891990023481: 1, 0.18237018719044298: 1,
0.18232618941265347: 1, 0.1823004822524206: 1, 0.18229469188230954: 1, 0.18229263094243767: 1,
0.18229204291464524: 1, 0.18228653924720506: 1, 0.18228063644558773: 1, 0.18227943626186538: 1,
0.18227450035396925: 1, 0.182266572238356: 1, 0.1822561156280088: 1, 0.18224922718523356: 1,
0.1822329658700202: 1, 0.1822183215557037: 1, 0.18220815749523783: 1, 0.1822007055968361: 1,
0.18218992248628696: 1, 0.18218662603217645: 1, 0.18215630025477986: 1, 0.18205887164650755: 1,
0.1820473748367419: 1, 0.1820346445256277: 1, 0.18202344697823467: 1, 0.1820226341464304: 1,
0.18201811362399667: 1, 0.18198112954393353: 1, 0.1819808519948594: 1, 0.18197547559208505: 1,
0.18197545474349372: 1, 0.18194095177232011: 1, 0.18193337539892326: 1, 0.18193143990960553: 1,
0.18193133555083235: 1, 0.1819190276228102: 1, 0.18186723075892397: 1, 0.18183210414978007: 1,
0.18181964597631375: 1, 0.1817897062391809: 1, 0.181755166816539: 1, 0.1817281153257582: 1,
0.1817154623981017: 1, 0.18170648778537185: 1, 0.18167972886290734: 1, 0.18166582573853512: 1,
0.18165077972995614: 1, 0.18162668583645133: 1, 0.18159168932068523: 1, 0.18156610233361256: 1,
0.18155446283693405: 1, 0.18154878227694018: 1, 0.18153221266656785: 1, 0.18145639502128172: 1,
0.18144320202169276: 1, 0.18141879464431362: 1, 0.18141077727445687: 1, 0.18139471633386195: 1,
0.18138612867820073: 1, 0.18138248603387214: 1, 0.18138117342655924: 1, 0.18137979295644452: 1,
0.1813528871042428: 1, 0.1813452447728172: 1, 0.18133386455570955: 1, 0.18126998637744116: 1,
0.1812498386649634: 1, 0.18124098935849264: 1, 0.18124094095728024: 1, 0.1812098236459452: 1,
0.18116069678148045: 1, 0.181140883761399: 1, 0.18112676413325704: 1, 0.18106601310838327: 1,
0.18104689193223417: 1, 0.18100635376773203: 1, 0.18099467859773763: 1, 0.18097412851808045: 1,
0.1809135660181877: 1, 0.18086645363905032: 1, 0.18083005040858133: 1, 0.18082691064462564: 1,
0.1808027473220186: 1, 0.1808003730140147: 1, 0.18075822707962164: 1, 0.18075742699923975: 1,
0.18073646771183385: 1, 0.18069362058068256: 1, 0.18064621415237495: 1, 0.18063126226613477: 1,
0.18062433168524838: 1, 0.1805746592278575: 1, 0.18056306657762805: 1, 0.18054938582068447: 1,
0.18054497685727527: 1, 0.18050247334665073: 1, 0.18049736042913583: 1, 0.18049372751067944: 1,
0.18048368499506834: 1, 0.1804683045500388: 1, 0.18030901209054626: 1, 0.18030558111368966: 1,
0.18030320098539407: 1, 0.18021786676136126: 1, 0.18018442005561264: 1, 0.1801766768475285: 1,
0.1801575491437424: 1, 0.18013433788011066: 1, 0.18013079759262346: 1, 0.1801299686110502: 1,
0.1801084773846899: 1, 0.18009849358832367: 1, 0.18009036265486558: 1, 0.18008902197800428: 1,
0.18008860971045007: 1, 0.18006441140498664: 1, 0.1800569829839611: 1, 0.18000959912064457: 1,
0.17999814783893675: 1, 0.1799544256152298: 1, 0.17991564408042077: 1, 0.1799152832082554: 1,
0.17990933367163148: 1, 0.17989773039792303: 1, 0.17988424300380992: 1, 0.1798588463900971: 1,
0.1798513102029926: 1, 0.1798461236934487: 1, 0.17983659429854948: 1, 0.17982453024309178: 1,
0.1798144310054685: 1, 0.17979704300947008: 1, 0.17978519185637218: 1, 0.17975119825590324: 1,
0.1797504476198883: 1, 0.17974630436304037: 1, 0.17972535768021206: 1, 0.1797157860488288: 1,
0.17969829720927044: 1, 0.17968988851059983: 1, 0.17963059401893955: 1, 0.1796299869757763: 1,
0.1796260543827553: 1, 0.1795754163896186: 1, 0.17953768853965318: 1, 0.179522478474946: 1,

0.17949655488198843: 1, 0.1794617411764141: 1, 0.17939840820236172: 1, 0.1793236593480954: 1, 0.1793089511319392: 1, 0.1792560335107816: 1, 0.17924459544286064: 1, 0.17923633377722775: 1, 0.17918719656894846: 1, 0.17917326522917815: 1, 0.1791299420848129: 1, 0.17911638315615594: 1, 0.17910496534880158: 1, 0.17909409566925774: 1, 0.17898811157019134: 1, 0.17898442585844154: 1, 0.1789131909164171: 1, 0.17890570821348775: 1, 0.17890421113155877: 1, 0.1789038516592636: 1, 0.17889309142693283: 1, 0.17888938341836041: 1, 0.1788682273090142: 1, 0.17886032479288486: 1, 0.17885671671897832: 1, 0.1788501503508293: 1, 0.1788320552673443: 1, 0.17881514689348088: 1, 0.17880989359901445: 1, 0.1788093405367619: 1, 0.17880720726499097: 1, 0.1788064182389701: 1, 0.17880016445114993: 1, 0.17879437030883885: 1, 0.17878458441803208: 1, 0.17878441508975657: 1, 0.17869427024107884: 1, 0.17868402669388303: 1, 0.17864379753903536: 1, 0.17858952954484728: 1, 0.1785448545963428: 1, 0.17854006094534333: 1, 0.17848909743279737: 1, 0.17843584892853526: 1, 0.17843575269830916: 1, 0.17843197047477277: 1, 0.17840395150754887: 1, 0.17837377390167736: 1, 0.17835695995814455: 1, 0.17835400143472444: 1, 0.17830768637973843: 1, 0.17828680263892302: 1, 0.17827176798697222: 1, 0.17826555314036957: 1, 0.17825069667189145: 1, 0.17825014122153976: 1, 0.17822078103659553: 1, 0.17813956585118573: 1, 0.1781349573941717: 1, 0.17813429719419704: 1, 0.17813099565197674: 1, 0.1781231363038901: 1, 0.17811087719948338: 1, 0.17809400358161917: 1, 0.1780653879579011: 1, 0.17805849312364172: 1, 0.17803688987924005: 1, 0.1780273355324302: 1, 0.17801221437253512: 1, 0.17799871135266299: 1, 0.17798492236669153: 1, 0.1779575642873036: 1, 0.1779213385233473: 1, 0.17790989223431025: 1, 0.17790454431418082: 1, 0.17785907190215752: 1, 0.177828137125204: 1, 0.17782758681587396: 1, 0.17780161427183916: 1, 0.17779660383234533: 1, 0.17779013944050603: 1, 0.1777733154929982: 1, 0.17776569033870268: 1, 0.17774043820998647: 1, 0.17773573306885798: 1, 0.17772073088745552: 1, 0.1776687352635148: 1, 0.1776617512703813: 1, 0.1776578769218491: 1, 0.17765449320728535: 1, 0.17764348327796273: 1, 0.1775514874550241: 1, 0.17750057811417502: 1, 0.1774746233758843: 1, 0.17746882358463914: 1, 0.17746650697289496: 1, 0.1774598959004687: 1, 0.17742399445032864: 1, 0.17739157136022912: 1, 0.17737303367624008: 1, 0.17733004483202353: 1, 0.1773060133206206: 1, 0.17730408455314806: 1, 0.1772059922625385: 1, 0.17720245886811015: 1, 0.17719230052681564: 1, 0.1771722713056372: 1, 0.17708920384231813: 1, 0.17708723698746645: 1, 0.17708081798974193: 1, 0.17702032964145673: 1, 0.17699424361909877: 1, 0.1769888676866601: 1, 0.17693882652523477: 1, 0.17693578831608298: 1, 0.17693087720013334: 1, 0.17692882686772582: 1, 0.1768597032722863: 1, 0.17685590879884583: 1, 0.17684075805321653: 1, 0.1768141441028809: 1, 0.1768134773567561: 1, 0.17671201778660434: 1, 0.17670792247932648: 1, 0.1766915715784987: 1, 0.17666167294337629: 1, 0.17664362410867515: 1, 0.17660243687384355: 1, 0.17656624821552266: 1, 0.17655837494300877: 1, 0.1765531714567288: 1, 0.1765280744545497: 1, 0.17650918146649783: 1, 0.1765050124432437: 1, 0.17650416242894607: 1, 0.17649342873330245: 1, 0.1764800767284941: 1, 0.1764488488956823: 1, 0.17644872628927002: 1, 0.1764363111484386: 1, 0.17640671354352122: 1, 0.17638448126352865: 1, 0.17637099433709696: 1, 0.17637026981089937: 1, 0.1763512819187337: 1, 0.17632186224016236: 1, 0.17629018790788542: 1, 0.17629018310161443: 1, 0.17625856862117897: 1, 0.17622525260252406: 1, 0.17620909302955517: 1, 0.17616290706487442: 1, 0.17616290122614237: 1, 0.1761560081235044: 1, 0.1761493691735826: 1, 0.1761027855684502: 1, 0.17599516432319748: 1, 0.17599142554100605: 1, 0.17598419891750644: 1, 0.1759384132195294: 1, 0.17593211898134578: 1, 0.17592086142449276: 1, 0.17591766656575447: 1, 0.17590822492156988: 1, 0.17590289989461136: 1, 0.1758787810298169: 1, 0.17586457813148543: 1, 0.17585667763125742: 1, 0.17582817941478174: 1, 0.17581423989739717: 1, 0.17576240245840336: 1, 0.1757583345165674: 1, 0.1757186337031099: 1, 0.17571469629291067: 1, 0.17571459595426317: 1, 0.17568349727195737: 1, 0.17568169303612388: 1, 0.17564983999983338: 1, 0.17560878452771814: 1, 0.1755484241244242: 1, 0.17553256129696185: 1, 0.17551521929845276: 1, 0.17549616159804612: 1, 0.1754856687592087: 1, 0.17548409870075835: 1, 0.17547951243556933: 1, 0.1754587089013081: 1, 0.1754360369263089: 1, 0.17543420101902374: 1, 0.17537252081579618: 1, 0.1753336824516599: 1, 0.17532485483818705: 1, 0.17530501045084504: 1, 0.17527939152834549: 1, 0.17522205144316919: 1, 0.17520328546410605: 1, 0.17519654341605928: 1, 0.17518242582821156: 1, 0.1751777665387238: 1, 0.1751679376406893: 1, 0.17514460273234747: 1, 0.17514495385304357: 1, 0.17512369216012327: 1, 0.17508883017180255: 1, 0.17507370276185139: 1, 0.1750540095885721: 1, 0.17504083514634963: 1, 0.17501110866058722: 1, 0.17494688717689597: 1, 0.1749328361638515: 1, 0.17491491467176448: 1, 0.17488930405408484: 1, 0.17482088739455076: 1, 0.17481940567275944: 1, 0.17480029530421004: 1, 0.17479223204750668: 1, 0.17478216306141364: 1, 0.1747300062910144: 1, 0.17465409878572: 1, 0.1746436569526562: 1, 0.17460894930104523: 1, 0.17458751507901454: 1, 0.17456121475642: 1, 0.17447485202444712: 1, 0.17445015523446344: 1, 0.1744418067365338: 1, 0.1744160316461678: 1, 0.17438587645081832: 1, 0.174361713294933: 1, 0.17432081659606039: 1, 0.17430625033523997: 1, 0.17430447778307243: 1, 0.17428678079713347: 1, 0.17427136898188939: 1, 0.17424000372765996: 1, 0.1742363673805883: 1, 0.174178409768313: 1, 0.1741430626060221: 1, 0.17413601897619702: 1, 0.17410801386628788: 1, 0.1740858868437265: 1, 0.17407237570647285: 1, 0.17407024994906786: 1, 0.17406415825464414: 1, 0.1740371799173516: 1, 0.17387571280556072: 1, 0.17383725374210646: 1, 0.1738063945478915: 1, 0.1737930407248748: 1, 0.1737859650487552: 1, 0.1737510969300928: 1, 0.173725656773135: 1, 0.17371131478575105: 1, 0.1737087325285944: 1, 0.17368468645420518: 1, 0.17364560695207074: 1, 0.17363964115443042: 1, 0.17360899386396658: 1, 0.17359959798764416: 1, 0.17355411635176837: 1, 0.173536743593308: 1, 0.17351153577028555: 1, 0.17350631881014145: 1, 0.1735038640818253: 1, 0.17349462926738612: 1, 0.1734887932673991: 1, 0.17346327396798591: 1, 0.1734318034623365: 1, 0.17342170362004922: 1, 0.17341456926025756: 1, 0.17337405967752248: 1, 0.17335975566505463: 1, 0.17334258563009078: 1, 0.1732920204823905: 1, 0.17327180686707422: 1, 0.17325074409403962: 1, 0.1732374584475003: 1, 0.1732037554472982: 1, 0.17317500133845765: 1, 0.17315529620307774: 1, 0.17312985744076645: 1, 0.17312518659039267: 1, 0.17308139537130873: 1, 0.1730654822187655: 1, 0.1730597471558133: 1, 0.17304147975109055: 1, 0.17303842111343234: 1, 0.17299450917858045: 1, 0.17298363077047577: 1, 0.1729282939862479: 1, 0.1728942418803951: 1, 0.17283785449296754: 1, 0.1728097838919572: 1, 0.17279251139970297: 1, 0.1727844325702523: 1, 0.17277072698024: 1, 0.17274366244827466: 1, 0.17272768825051082: 1, 0.1726791966171464: 1, 0.17265143418962134: 1, 0.17262181268867735: 1, 0.17259645650368172: 1, 0.17253679737419023: 1, 0.17253251234210892: 1, 0.17250699361941868: 1, 0.17250545133451467: 1, 0.17248607167489532: 1, 0.1724533629283338: 1,

0.17243094868274011: 1, 0.17242537172623285: 1, 0.17242310957203044: 1, 0.17240146037927734: 1, 0.1723958480082: 1, 0.17237221064010022: 1, 0.17235789525287867: 1, 0.1723548083725223: 1, 0.1723525482986124: 1, 0.1723409025793316: 1, 0.1723089777999153: 1, 0.1723085258427483: 1, 0.17228639643630553: 1, 0.17227694338494898: 1, 0.1722367749199486: 1, 0.17222416418807712: 1, 0.17222090792187988: 1, 0.17221704312134006: 1, 0.17215643004710335: 1, 0.17214139879415777: 1, 0.17214039542207069: 1, 0.17212589836788092: 1, 0.17212380397623434: 1, 0.17209749791685625: 1, 0.17207557481572025: 1, 0.1720649213904842: 1, 0.172045920205907: 1, 0.17203736062055386: 1, 0.172025215984282: 1, 0.17200119018406598: 1, 0.17198908457627735: 1, 0.17191563998921797: 1, 0.17191138391656263: 1, 0.17185739379695786: 1, 0.17183970262935552: 1, 0.17180908806676426: 1, 0.17177498800791016: 1, 0.17176724092176035: 1, 0.17171695581967478: 1, 0.17169809443635747: 1, 0.17168420985526198: 1, 0.17165713001371016: 1, 0.17161841367241223: 1, 0.17160893660126983: 1, 0.17157148134550795: 1, 0.171571301331502: 1, 0.17156120579067474: 1, 0.17155956590961893: 1, 0.1715525790807686: 1, 0.17153439896896613: 1, 0.17152371768623795: 1, 0.17150482231919506: 1, 0.1714869440146669: 1, 0.17147509357809923: 1, 0.1714630339022044: 1, 0.17144926749684777: 1, 0.1714192406968994: 1, 0.1714175301257771: 1, 0.17139878829788094: 1, 0.17138992590646462: 1, 0.17138722273441362: 1, 0.17135524466357113: 1, 0.17134753851104143: 1, 0.17133110496439566: 1, 0.1712770915912437: 1, 0.17126920742899754: 1, 0.171203176514733: 1, 0.17120060807830392: 1, 0.17119560492910652: 1, 0.17115834273003422: 1, 0.17112277420994929: 1, 0.17111537469030444: 1, 0.17110908408719863: 1, 0.17108177317510098: 1, 0.17108012050116694: 1, 0.17107256801886064: 1, 0.17106899291319186: 1, 0.17106486291117065: 1, 0.17104565402682592: 1, 0.17104143208364836: 1, 0.1710410656582795: 1, 0.1710389920514161: 1, 0.17100092109037146: 1, 0.1709845724160593: 1, 0.1709845715648833: 1, 0.1709501247013727: 1, 0.1709223183785751: 1, 0.17091117526442717: 1, 0.17090677788539782: 1, 0.17089986020535602: 1, 0.1708601664285671: 1, 0.1708593551874581: 1, 0.17082424972677923: 1, 0.17081748817811246: 1, 0.1708100756086132: 1, 0.1707879323710083: 1, 0.1707696502174985: 1, 0.1707690708387414: 1, 0.17076643741378678: 1, 0.17076152357247368: 1, 0.17074745244929318: 1, 0.1707153006578126: 1, 0.1707075153679523: 1, 0.17069895717934178: 1, 0.17068785284968907: 1, 0.1706655762465128: 1, 0.1706619711330343: 1, 0.17066137546661653: 1, 0.17064555188228922: 1, 0.17063512625258676: 1, 0.17059991631179522: 1, 0.17058492696482375: 1, 0.17055972218237375: 1, 0.17053135407015113: 1, 0.17050447893925233: 1, 0.17050080326230882: 1, 0.1704950558280102: 1, 0.1704889758805915: 1, 0.1704585943567966: 1, 0.17044627822315664: 1, 0.1704324320408948: 1, 0.170425982717288: 1, 0.17042511590650952: 1, 0.170411327525591: 1, 0.1703968289873366: 1, 0.1703735898971367: 1, 0.17037240966463438: 1, 0.17037200991354623: 1, 0.17036747554454973: 1, 0.17035988636665375: 1, 0.17033545231355654: 1, 0.17033102389963925: 1, 0.17032706814774543: 1, 0.17032148431283906: 1, 0.1703110818348419: 1, 0.17029917103264142: 1, 0.1702897046603391: 1, 0.17021477693564652: 1, 0.17020384553830972: 1, 0.17019886893740802: 1, 0.1701572546826308: 1, 0.17014828915990776: 1, 0.17014723276001872: 1, 0.17014138363549947: 1, 0.1701258466333132: 1, 0.170116982694593: 1, 0.17009458124211804: 1, 0.1700938061983917: 1, 0.17009160791490152: 1, 0.17007421243052376: 1, 0.1700702654140632: 1, 0.17002176503644287: 1, 0.17002103889825732: 1, 0.1700090340366342: 1, 0.1699717232823374: 1, 0.16992578939168845: 1, 0.16991307606117823: 1, 0.16988932605020327: 1, 0.16987143656150486: 1, 0.16983137008663013: 1, 0.16981974108213518: 1, 0.16979119914872334: 1, 0.16976189227383537: 1, 0.16975497384525443: 1, 0.1697510820670075: 1, 0.16974618397831992: 1, 0.1697388192856311: 1, 0.1697367341218104: 1, 0.16971141591534025: 1, 0.16969543326015457: 1, 0.16969176331175811: 1, 0.1696690471531908: 1, 0.16965416674845368: 1, 0.16961045422862034: 1, 0.16951457283441182: 1, 0.16949733725524327: 1, 0.16945628665757864: 1, 0.16945327320513845: 1, 0.16941506237780474: 1, 0.1693907760774322: 1, 0.16934939773037339: 1, 0.16933841149920334: 1, 0.16932562722198924: 1, 0.1693232904021362: 1, 0.169320347849125: 1, 0.16931976730619108: 1, 0.1692997758728793: 1, 0.16927514183628986: 1, 0.1692675243419114: 1, 0.16926217402054936: 1, 0.16924145797999018: 1, 0.16922554369471438: 1, 0.16922523700624742: 1, 0.16921013813775268: 1, 0.1692022485942558: 1, 0.16917982714919866: 1, 0.16916473596374176: 1, 0.16904237280670575: 1, 0.16902026422057118: 1, 0.16901528917949138: 1, 0.16901199375877302: 1, 0.1690106885073546: 1, 0.16900717413680647: 1, 0.1689968155440458: 1, 0.16897856517428297: 1, 0.16895032419406866: 1, 0.16894829632492997: 1, 0.16893297076848038: 1, 0.1689311453611414: 1, 0.168859597745688: 1, 0.16882413721639464: 1, 0.16877956834141897: 1, 0.16874173732960315: 1, 0.1687224145514972: 1, 0.16871044826550763: 1, 0.1687078087483095: 1, 0.1687058251403836: 1, 0.16869772853468545: 1, 0.16869723088769342: 1, 0.1686564014758668: 1, 0.1686491029686362: 1, 0.168642208815292: 1, 0.16862727898473517: 1, 0.16861076923508106: 1, 0.16860259957749293: 1, 0.16860074279285509: 1, 0.16858486228020006: 1, 0.16856614671583506: 1, 0.1685310113060274: 1, 0.16851226372144665: 1, 0.16849620123795747: 1, 0.1684935159602688: 1, 0.16849304154144196: 1, 0.1684779514365962: 1, 0.1684630958221599: 1, 0.1684438166883367: 1, 0.16840918202551308: 1, 0.16839910091423568: 1, 0.16839537468778373: 1, 0.1683900574304468: 1, 0.16838266361498078: 1, 0.16835614328700782: 1, 0.1683526764015326: 1, 0.16832309808664978: 1, 0.1683203994145252: 1, 0.16831155234189174: 1, 0.16830986101601908: 1, 0.1682981206953253: 1, 0.16827622752956234: 1, 0.1682720244373779: 1, 0.1682269702907924: 1, 0.16821710999724618: 1, 0.16819420535354193: 1, 0.16816257471278898: 1, 0.16813871566764715: 1, 0.1681119332257884: 1, 0.16804330654714117: 1, 0.16804200218658005: 1, 0.1680090139734773: 1, 0.16799133025689972: 1, 0.16798179843311759: 1, 0.1679595987787671: 1, 0.16795123921482766: 1, 0.1679341405292318: 1, 0.16791489921692043: 1, 0.167905335472803: 1, 0.1678972131950112: 1, 0.1678888784029523: 1, 0.16788531701940934: 1, 0.16783980307963403: 1, 0.16783569010912314: 1, 0.167817681737129: 1, 0.1678176259858005: 1, 0.16781243003474988: 1, 0.16780733069210413: 1, 0.16778928337184634: 1, 0.16778294088331308: 1, 0.16778187458511445: 1, 0.16777966418190163: 1, 0.16777356965869702: 1, 0.16773464964092577: 1, 0.16772033878790904: 1, 0.16770045109175388: 1, 0.16769836847555006: 1, 0.16768941954114208: 1, 0.1676622770734853: 1, 0.16764966631361158: 1, 0.1676135659490748: 1, 0.16759859805454227: 1, 0.16759626731846966: 1, 0.16758194148266245: 1, 0.16754976681632808: 1, 0.1675456401164861: 1, 0.1675443660062944: 1, 0.16752906482741445: 1, 0.16751164132444002: 1, 0.16748563282608422: 1, 0.1674843247036993: 1, 0.16746157613835744: 1, 0.1674574285651415: 1, 0.1674505274425233: 1, 0.1674081212572612: 1, 0.16738971540577913: 1, 0.167379805807918: 1, 0.16736761907685377: 1, 0.1673352437046388: 1, 0.16731512060127535: 1, 0.16729805829938657: 1,

0.16726356650512134: 1, 0.16726346743920398: 1, 0.16724730736547708: 1, 0.16723315408189665: 1, 0.16722018594106097: 1, 0.16718898042696353: 1, 0.16717451752668142: 1, 0.16713463333955328: 1, 0.16713301078061185: 1, 0.16711512264332964: 1, 0.16708631094026546: 1, 0.16704912882175768: 1, 0.16700619648841147: 1, 0.16698865163678847: 1, 0.16695376184233224: 1, 0.1669443868384465: 1, 0.16694230864983758: 1, 0.16693505812276754: 1, 0.16691090210452278: 1, 0.16686990580735087: 1, 0.16684118572626355: 1, 0.1668286214622577: 1, 0.16680530318355472: 1, 0.1667899342915623: 1, 0.16673248175521282: 1, 0.16670039213368879: 1, 0.1666971553162008: 1, 0.16668617489273893: 1, 0.16663583659732714: 1, 0.16661091590781724: 1, 0.1666053323123138: 1, 0.16657009484713237: 1, 0.16656661328364353: 1, 0.1665484597292366: 1, 0.16654027515519182: 1, 0.16649286355420317: 1, 0.16644065726064988: 1, 0.16643411525359583: 1, 0.16640619262972078: 1, 0.1663904351817316: 1, 0.16638528688977897: 1, 0.16634146271020037: 1, 0.16633310700219525: 1, 0.1663152629931922: 1, 0.1662951544085769: 1, 0.16629259028813653: 1, 0.16626334861346656: 1, 0.16626330955086976: 1, 0.16626187553370034: 1, 0.16619442171860307: 1, 0.16618711560101324: 1, 0.16612213477020765: 1, 0.16608798871589253: 1, 0.1660850616975915: 1, 0.1660654705071877: 1, 0.16605425607319982: 1, 0.1660478586800869: 1, 0.166003010121738: 1, 0.16597352301994875: 1, 0.16597069234751233: 1, 0.16595957651047638: 1, 0.16595425226843497: 1, 0.16593521011865908: 1, 0.16593343434281432: 1, 0.16590963732178343: 1, 0.16589033299613576: 1, 0.16585151018487648: 1, 0.16582339928016043: 1, 0.1657749499050907: 1, 0.16576393918401686: 1, 0.16575377284265178: 1, 0.16571925921654637: 1, 0.16569638328311087: 1, 0.1656800786294621: 1, 0.1656729604418241: 1, 0.16567246474189215: 1, 0.16562086323119465: 1, 0.16560267571249582: 1, 0.16560168078277043: 1, 0.16556559331152715: 1, 0.16556340162728567: 1, 0.16555722627502023: 1, 0.16555551020116416: 1, 0.16554033105363003: 1, 0.1654959975475716: 1, 0.16548947629546207: 1, 0.1654854825365542: 1, 0.1654738938405702: 1, 0.1654694008860337: 1, 0.16545791161903464: 1, 0.16544273858796224: 1, 0.16539249419576474: 1, 0.1653829792126917: 1, 0.16538154841974861: 1, 0.16537659249321154: 1, 0.16536858655876052: 1, 0.1653682031321404: 1, 0.16536506286004027: 1, 0.16536247088739792: 1, 0.16535464547240092: 1, 0.16534374926677894: 1, 0.1653414838855535: 1, 0.1653141148981853: 1, 0.16530897192713206: 1, 0.16521190301004385: 1, 0.16516982713845546: 1, 0.16512909110816523: 1, 0.16512792319158992: 1, 0.1651129487895694: 1, 0.16511212045313065: 1, 0.1650954777968319: 1, 0.1650630985856261: 1, 0.16505112171351033: 1, 0.16504030447021492: 1, 0.16501202207374746: 1, 0.16499082627521333: 1, 0.16496088307167786: 1, 0.16496083513148738: 1, 0.1649545674357306: 1, 0.1649490566534619: 1, 0.16493720209968193: 1, 0.1649343439641126: 1, 0.164919948919034: 1, 0.16491089008857: 1, 0.16490380523961476: 1, 0.16489009703638838: 1, 0.1648813841526658: 1, 0.1648435942296887: 1, 0.16483636958253878: 1, 0.16483554263460523: 1, 0.16483278432888393: 1, 0.1648178051491572: 1, 0.16477293504476756: 1, 0.16468707831859475: 1, 0.16465371231826711: 1, 0.16463424717151343: 1, 0.16460738884475565: 1, 0.164589562843574: 1, 0.16458091466045563: 1, 0.16456955867305534: 1, 0.16456567414259363: 1, 0.1645583841478537: 1, 0.1645193693196602: 1, 0.16449348716417084: 1, 0.1644924028913693: 1, 0.16449163815820228: 1, 0.16449057711667314: 1, 0.16445894597601032: 1, 0.1644568548101593: 1, 0.1644467455117533: 1, 0.1644464191410988: 1, 0.16443498369185844: 1, 0.16442037199434353: 1, 0.1644012098784033: 1, 0.1644009372885236: 1, 0.1643952954605622: 1, 0.16438635543760458: 1, 0.16436144431039085: 1, 0.16435087750883517: 1, 0.16434210077842243: 1, 0.16432181101779772: 1, 0.1642771797803618: 1, 0.16425382451557402: 1, 0.16421767159445977: 1, 0.1642140140197361: 1, 0.1642098291870185: 1, 0.16417869981687078: 1, 0.1641756979046089: 1, 0.16412118534001346: 1, 0.16410848852732765: 1, 0.16410440201585416: 1, 0.16404979453873383: 1, 0.16403791166632384: 1, 0.16399447670299488: 1, 0.16396309118049515: 1, 0.16396233314673153: 1, 0.163954660409458: 1, 0.16393897306863756: 1, 0.163934453922787: 1, 0.16392888047167237: 1, 0.16391374678645954: 1, 0.16387633720779085: 1, 0.16385481799674143: 1, 0.16384407186000424: 1, 0.16383754815885682: 1, 0.16382857642402862: 1, 0.1638182359674841: 1, 0.16379325243311663: 1, 0.16378773742082087: 1, 0.1637745892272053: 1, 0.1637661534670834: 1, 0.16376084776145167: 1, 0.1637038440016502: 1, 0.1636896402007053: 1, 0.16367252944795668: 1, 0.1636654139249506: 1, 0.1636141798189593: 1, 0.1635338812594891: 1, 0.16349549569579128: 1, 0.1634833439591449: 1, 0.16348308331195865: 1, 0.16342726401747348: 1, 0.1634231689514066: 1, 0.16339822377266283: 1, 0.16338113157044468: 1, 0.16335467966342185: 1, 0.16335436042928297: 1, 0.16334444791647676: 1, 0.1633297121415203: 1, 0.163284928474349: 1, 0.16328034706862649: 1, 0.16322848181615: 1, 0.16321720602073705: 1, 0.16318039190848038: 1, 0.16317777999082453: 1, 0.1631588379241539: 1, 0.16313304583042582: 1, 0.1631320142060927: 1, 0.16312693325591607: 1, 0.1631181791948698: 1, 0.16310873298730438: 1, 0.16308985613904803: 1, 0.1630524581265103: 1, 0.16300628417788962: 1, 0.16298119937045893: 1, 0.16293953694070826: 1, 0.1629341106021068: 1, 0.1629333977806833: 1, 0.16292481277200846: 1, 0.1629234150107665: 1, 0.16291715453051953: 1, 0.16290950379883398: 1, 0.1628866124715832: 1, 0.1628743659788267: 1, 0.16286547099303703: 1, 0.1628634486710108: 1, 0.16284031732262252: 1, 0.16282726699849387: 1, 0.16280356824071263: 1, 0.16280014775715748: 1, 0.1627737186248273: 1, 0.16275457768737386: 1, 0.16272875474530124: 1, 0.16269035392092743: 1, 0.16266228017769485: 1, 0.16263746770974064: 1, 0.1626324457513583: 1, 0.16261315942002022: 1, 0.16255009880572044: 1, 0.1625458583381209: 1, 0.16244452600046116: 1, 0.1624271625362032: 1, 0.16236780800367331: 1, 0.16236096597639602: 1, 0.16235639345820133: 1, 0.16234897389130826: 1, 0.16233375396828506: 1, 0.16229962985325533: 1, 0.16229734682798383: 1, 0.1622895049874366: 1, 0.16225966209956622: 1, 0.16222038110069867: 1, 0.16219644366951352: 1, 0.16215987036365878: 1, 0.16214958707851987: 1, 0.1621257892348351: 1, 0.16211519263360247: 1, 0.16211207455128523: 1, 0.16210804680255606: 1, 0.162094481993982: 1, 0.1620877325056806: 1, 0.16208616220604066: 1, 0.16203551407646963: 1, 0.16198858328306714: 1, 0.16197986307639967: 1, 0.16190143607257598: 1, 0.16188521530721428: 1, 0.16188287101923887: 1, 0.16183621884027724: 1, 0.16183482651777034: 1, 0.16183429262691915: 1, 0.1618328909100723: 1, 0.1617852809369174: 1, 0.16172266709260857: 1, 0.16171114289625446: 1, 0.16169798093444251: 1, 0.16168322817892344: 1, 0.16168064572925725: 1, 0.16167450475136652: 1, 0.16164809040141084: 1, 0.16163530199489337: 1, 0.1616324874264934: 1, 0.16161576202884984: 1, 0.16158582134475005: 1, 0.16156809174299636: 1, 0.16156348256292385: 1, 0.16152566321848305: 1, 0.1614990369373691: 1, 0.1614851338363633: 1, 0.1614785188851744: 1, 0.16145582153906765: 1, 0.16137295838774743: 1, 0.1613468561155096: 1, 0.1613349127728722: 1, 0.16132920316429256: 1, 0.16131750754747085: 1, 0.1612880949971069: 1, 0.1612824815180815: 1,

0.16124905967990455: 1, 0.16122003859037978: 1, 0.16119657801479692: 1, 0.16118138224243708: 1, 0.1611560547891075: 1, 0.16114076430044683: 1, 0.1611346016988042: 1, 0.16113066809767052: 1, 0.16109610690978718: 1, 0.161066717310705: 1, 0.16102274475997588: 1, 0.1610183121266009: 1, 0.1609408333068675: 1, 0.16092380549521107: 1, 0.16091261617278232: 1, 0.160874595397921: 1, 0.16086203949079927: 1, 0.16082751776270376: 1, 0.16078338223817998: 1, 0.16077559226554095: 1, 0.16064504751238454: 1, 0.1606404466237859: 1, 0.16062982310985585: 1, 0.1605957521706768: 1, 0.16055842723471958: 1, 0.1605438818826103: 1, 0.16052294631506903: 1, 0.16051165945046586: 1, 0.16050440404557023: 1, 0.16048048238686136: 1, 0.1604522810658101: 1, 0.1604497185510768: 1, 0.16041581977944366: 1, 0.16041427593788152: 1, 0.16041098463324724: 1, 0.16039108522486414: 1, 0.16036998829534177: 1, 0.1603658105334716: 1, 0.1603326650620763: 1, 0.16032593024094569: 1, 0.16032200703950175: 1, 0.1603180471717834: 1, 0.16030957856212397: 1, 0.16030875274382392: 1, 0.16030127113871973: 1, 0.16028819458231536: 1, 0.16024742400947786: 1, 0.1602423007318545: 1, 0.16021253719431588: 1, 0.1601868869921027: 1, 0.16018090231755472: 1, 0.16015609203788803: 1, 0.1601480170228672: 1, 0.16014163205646578: 1, 0.16013901641786438: 1, 0.16012710807870595: 1, 0.16011744388992358: 1, 0.16009414214418077: 1, 0.16009013787731: 1, 0.16005090048585913: 1, 0.16004365649827743: 1, 0.16004168947197703: 1, 0.16003624350953816: 1, 0.16001378666076269: 1, 0.16000346331481344: 1, 0.1599909083374994: 1, 0.15997110798563113: 1, 0.15993434570192536: 1, 0.15992159961759744: 1, 0.1599046165886062: 1, 0.15988521511928072: 1, 0.1598825953817613: 1, 0.15981822476513655: 1, 0.15981188208448147: 1, 0.15980945348208767: 1, 0.15979695774785932: 1, 0.15975456446523376: 1, 0.15975255989472065: 1, 0.15972301023650004: 1, 0.15971479258276003: 1, 0.1596960312107881: 1, 0.15969079001990746: 1, 0.15969022170675146: 1, 0.159673612225364687: 1, 0.15965935070674175: 1, 0.1596374633032352: 1, 0.1596319345068161: 1, 0.15961596079541765: 1, 0.15958178018610084: 1, 0.15956171475054767: 1, 0.15951126621531825: 1, 0.15945388884271788: 1, 0.1594523094043174: 1, 0.15945171902773667: 1, 0.1594380488188266: 1, 0.15943440404764925: 1, 0.15941773091549513: 1, 0.1594085484438185: 1, 0.1594055900387999: 1, 0.15937624386679783: 1, 0.15934489411771008: 1, 0.15932729934993145: 1, 0.15932707297302393: 1, 0.15932018831973832: 1, 0.15930352879617196: 1, 0.15928469829532851: 1, 0.15927884644164883: 1, 0.15923719818641358: 1, 0.1591990401716153: 1, 0.1591871951583227: 1, 0.15916918892657791: 1, 0.15915133003287238: 1, 0.15910568456791405: 1, 0.15909518030704192: 1, 0.15908619535083784: 1, 0.15908474141346315: 1, 0.15907955034187748: 1, 0.15907715633862918: 1, 0.15907097565003225: 1, 0.1590481472684606: 1, 0.15904177597409588: 1, 0.15901942494848417: 1, 0.15900130172418048: 1, 0.15895954183768993: 1, 0.15894646129420062: 1, 0.15892947929560586: 1, 0.15888867169462983: 1, 0.15887591593406003: 1, 0.1588613249684964: 1, 0.15883725310626212: 1, 0.15880897698917767: 1, 0.1587651510324301: 1, 0.1587288947776922: 1, 0.15867237862362055: 1, 0.15866878064673337: 1, 0.15866317717623635: 1, 0.1586371814458303: 1, 0.15861815965766907: 1, 0.1585320881900714: 1, 0.15857024156625193: 1, 0.15855225936377765: 1, 0.15854923377830094: 1, 0.15854155556816496: 1, 0.15852964468244057: 1, 0.1584771579012649: 1, 0.15847192769941912: 1, 0.1584682882121561: 1, 0.15846508413943924: 1, 0.1584266433455466: 1, 0.15842608546240222: 1, 0.1584243590184256: 1, 0.15841255025507692: 1, 0.1584026235231044: 1, 0.1583958760484272: 1, 0.15836999505348434: 1, 0.15836443841102568: 1, 0.15834989827830367: 1, 0.15834644380845497: 1, 0.15830893148248493: 1, 0.15830523447759814: 1, 0.1582987417772677: 1, 0.15825486516847553: 1, 0.1581783957041501: 1, 0.15815911650577957: 1, 0.1581492167385493: 1, 0.15812223811288456: 1, 0.15810166456043553: 1, 0.15809533251478905: 1, 0.1580533320815316: 1, 0.15803802181013246: 1, 0.1579824287121489: 1, 0.15794600519112603: 1, 0.15792823693315192: 1, 0.15792785115588037: 1, 0.15791829332289567: 1, 0.1578909406209718: 1, 0.15788063966916566: 1, 0.15786096677727648: 1, 0.1578537980565497: 1, 0.1578379452805824: 1, 0.15783174465417082: 1, 0.15780300636643943: 1, 0.157801740743459: 1, 0.1577985189590855: 1, 0.15778905467850476: 1, 0.15777842720841015: 1, 0.15775666162298382: 1, 0.15774014115932103: 1, 0.1577246892170004: 1, 0.15769376806528293: 1, 0.15767793335488903: 1, 0.1576642036385749: 1, 0.15766276095229545: 1, 0.1576157521510378: 1, 0.15760338628454737: 1, 0.15759516344504687: 1, 0.15757598293356817: 1, 0.15755240358885425: 1, 0.1575373775349796: 1, 0.15753582241052255: 1, 0.1575279537003204: 1, 0.15751841707138203: 1, 0.1574700036597779: 1, 0.15743762693141267: 1, 0.15737934251267438: 1, 0.15736992100618802: 1, 0.1573670360813763: 1, 0.15736144940969723: 1, 0.1573142983311449: 1, 0.15729702615821092: 1, 0.15729038047377983: 1, 0.15728950314859913: 1, 0.15728709059020643: 1, 0.15727954752821205: 1, 0.15726823877170776: 1, 0.15726116411454374: 1, 0.15722324130148874: 1, 0.157215554961012: 1, 0.157214915036216: 1, 0.1571968422957341: 1, 0.15719322293425445: 1, 0.15719192330794562: 1, 0.15716879349632734: 1, 0.157167697666760003: 1, 0.15716307379199437: 1, 0.15716011066003613: 1, 0.15713844222513393: 1, 0.15713815448092183: 1, 0.15713029606737988: 1, 0.15712305284582925: 1, 0.15711160777516375: 1, 0.15710860374449268: 1, 0.15709235024836513: 1, 0.157092116048177: 1, 0.15708409647550794: 1, 0.15708037163583952: 1, 0.15705827093912947: 1, 0.1570339584752825: 1, 0.1569875796253889: 1, 0.15698456533162078: 1, 0.15698360159813027: 1, 0.15695437745278387: 1, 0.1569043671078678: 1, 0.15687838668297432: 1, 0.1568448371397091: 1, 0.15684420437691365: 1, 0.15681592026044153: 1, 0.15679255182612345: 1, 0.15679028687179397: 1, 0.1567791585364856: 1, 0.15675404017588823: 1, 0.1567400283352978: 1, 0.15670963890149955: 1, 0.15670328358265942: 1, 0.15669729971948618: 1, 0.15669702042302008: 1, 0.15667269575513942: 1, 0.15658411464653232: 1, 0.15653858018928535: 1, 0.1565330644289889: 1, 0.15653209842856147: 1, 0.15650767102815202: 1, 0.15650175377373274: 1, 0.1564941684053753: 1, 0.15647232724165064: 1, 0.15645979438118768: 1, 0.15642227058903502: 1, 0.15640918957922456: 1, 0.156282601292821: 1, 0.1562535315098437: 1, 0.1561802095230248: 1, 0.1561315580573167: 1, 0.15611936027269427: 1, 0.15610360781142574: 1, 0.15605891888554702: 1, 0.15605262152809432: 1, 0.15604782562388958: 1, 0.15602990400577624: 1, 0.1560201436208029: 1, 0.1560117810649256: 1, 0.15600953708142296: 1, 0.1560039223025088: 1, 0.15598987347590595: 1, 0.15598212693320615: 1, 0.1559690450244272: 1, 0.1559690233644529: 1, 0.1559648967644961: 1, 0.1559626718597152: 1, 0.1559601505466521: 1, 0.15593349048591298: 1, 0.15592078627689762: 1, 0.15586583380886904: 1, 0.15584261062780166: 1, 0.15583190206583866: 1, 0.15581443751031038: 1, 0.1558071035592671: 1, 0.15579781608074303: 1, 0.15574918727462145: 1, 0.15574303745737686: 1, 0.15572168734788355: 1, 0.15571862886030552: 1, 0.1557026664086563: 1, 0.15569750401717505: 1, 0.15568968969115726: 1, 0.15566785863035987: 1, 0.1556539076652806: 1, 0.15563525957619917: 1, 0.15559557903588625: 1,

0.15559056379076333: 1, 0.1555886788786007: 1, 0.15556991840616063: 1, 0.15555731284568342: 1,
0.15554882869661135: 1, 0.1555344879885793: 1, 0.15551628444811305: 1, 0.1555144334291978: 1,
0.1555123427207082: 1, 0.15549629426670625: 1, 0.15548006524597463: 1, 0.15545302904738703: 1,
0.15542652556985245: 1, 0.1553784665537522: 1, 0.1553563363449146: 1, 0.15535364162313514: 1,
0.15534512388722538: 1, 0.1553214946767504: 1, 0.1552646513465648: 1, 0.1552248944358191: 1,
0.15519835176135693: 1, 0.15515302567890832: 1, 0.15515138614673596: 1, 0.1551510868610621: 1,
0.15512902673557183: 1, 0.15511076075514996: 1, 0.15508143143803005: 1, 0.1550519618077931: 1,
0.15503407314712656: 1, 0.15501070216941013: 1, 0.1550100753038702: 1, 0.1550003068337764: 1,
0.15499279674133967: 1, 0.1549861602361914: 1, 0.15497079295150812: 1, 0.1549288654234966: 1,
0.15487642005132699: 1, 0.15487527864433145: 1, 0.15487110073247679: 1, 0.1548684205343145: 1,
0.15483786808068156: 1, 0.1548318477095294: 1, 0.15480339813761432: 1, 0.15479268717039826: 1,
0.15477624324636932: 1, 0.1547403528419664: 1, 0.15472555523251894: 1, 0.1547101298017681: 1,
0.15468616459834358: 1, 0.15467313352786796: 1, 0.1546408364420942: 1, 0.1546215778700419: 1,
0.15460831560514018: 1, 0.15460613184807323: 1, 0.15460520003234404: 1, 0.15460177267310096: 1,
0.1545757783425205: 1, 0.15456098798688325: 1, 0.15455448409782274: 1, 0.15448737267947793: 1,
0.15447470339337369: 1, 0.15447315023365893: 1, 0.1544722512558771: 1, 0.1544684273008721: 1,
0.1544300835627978: 1, 0.15439457718094507: 1, 0.15439365324970933: 1, 0.15439073560475708: 1,
0.1543826076610185: 1, 0.15438103208327222: 1, 0.15437707336022102: 1, 0.15436570122005738: 1,
0.15434832597729475: 1, 0.15433600792004945: 1, 0.15431586446360038: 1, 0.1543074921735967: 1,
0.15430191699813392: 1, 0.15429292931225508: 1, 0.1542888460302427: 1, 0.15424490987471112: 1,
0.15423063420294114: 1, 0.1542295075824374: 1, 0.15419047349461587: 1, 0.15418988293395694: 1,
0.15412761761963037: 1, 0.1541267974948993: 1, 0.15410689400669372: 1, 0.15408569095167762: 1,
0.15408224880944163: 1, 0.15407302162975078: 1, 0.15406960257455404: 1, 0.15405334879261295: 1,
0.15402717370191282: 1, 0.1540133331169486: 1, 0.15392408976913352: 1, 0.15391435781798318: 1,
0.15391217966045467: 1, 0.1538924925020539: 1, 0.15389070442962194: 1, 0.1538725728770965: 1,
0.1538668927606793: 1, 0.15382085338117849: 1, 0.15379217785204066: 1, 0.15377400883855863: 1,
0.15377198347543036: 1, 0.15374432888011758: 1, 0.15373752518327705: 1, 0.15371616579722872: 1,
0.15370700450642075: 1, 0.15369831764208122: 1, 0.15368939012687985: 1, 0.153639528618155: 1,
0.15361641750287044: 1, 0.15361027542978878: 1, 0.15357440357842198: 1, 0.15355013439293919: 1,
0.15353769962594047: 1, 0.15352254099797671: 1, 0.1535192316378282: 1, 0.1534828838361628: 1,
0.15348142356116828: 1, 0.15345412856045249: 1, 0.1534512293854034: 1, 0.1534510849286761: 1,
0.15343712457135866: 1, 0.15342667667933543: 1, 0.15342478585325592: 1, 0.15339864397172293: 1,
0.15338743626148463: 1, 0.1533659732641211: 1, 0.15334427958351804: 1, 0.1533341187056867: 1,
0.15332331172143315: 1, 0.15331205685946753: 1, 0.15324778695752966: 1, 0.15324355927647648: 1,
0.1532391721677991: 1, 0.1532099989133106: 1, 0.15319428626653128: 1, 0.1531676317648466: 1,
0.15314826902924356: 1, 0.15314559124228475: 1, 0.1531414654882474: 1, 0.15313938746211905: 1,
0.1531150722691522: 1, 0.1531110954468578: 1, 0.15308033628640672: 1, 0.15307494308673042: 1,
0.1530621158562537: 1, 0.15301619792518714: 1, 0.15300144066293034: 1, 0.1529991233780003: 1,
0.1529513519115007: 1, 0.15291207964836154: 1, 0.15288204740392458: 1, 0.1528353359463418: 1,
0.15283399516658575: 1, 0.15282961224389624: 1, 0.15280814689529926: 1, 0.15280215741683056: 1,
0.15277830364189918: 1, 0.15275836435718873: 1, 0.15275201626901116: 1, 0.15273951321462004: 1,
0.15273769004948998: 1, 0.15269944703054344: 1, 0.15267452312033025: 1, 0.15263963457548707: 1,
0.15261165265894666: 1, 0.15259940509140404: 1, 0.15257891953787842: 1, 0.15253631217488214: 1,
0.1525361005126353: 1, 0.152508020632874: 1, 0.152483985883733: 1, 0.15244870563350732: 1,
0.15244463137016975: 1, 0.1523993680932482: 1, 0.15239343862113758: 1, 0.15232524325540764: 1,
0.15231005558561195: 1, 0.15230519711511112: 1, 0.1523003727063175: 1, 0.1522823853819293: 1,
0.1522789208064163: 1, 0.1522755647867112: 1, 0.1522753853873375: 1, 0.15220971386292445: 1,
0.15220873530183987: 1, 0.15220335903331852: 1, 0.15219129752620023: 1, 0.1521852482119296: 1,
0.152187604566788: 1, 0.152169928842729: 1, 0.15216865844364225: 1, 0.1521564313351259: 1,
0.15215279324335407: 1, 0.15213753580831785: 1, 0.15213749276512423: 1, 0.15213663821477366: 1,
0.1521241357985601: 1, 0.15212126038048907: 1, 0.15209481254120508: 1, 0.15208922658750315: 1,
0.15205317592380943: 1, 0.1520429692774867: 1, 0.15203715369170515: 1, 0.15203248596032037: 1,
0.1520254262986811: 1, 0.1519456147077505: 1, 0.15190889665910487: 1, 0.15190544324580152: 1,
0.15190481583682233: 1, 0.151847134067852: 1, 0.15183828002279393: 1, 0.15179708195264674: 1,
0.15179135453837775: 1, 0.15176542392474346: 1, 0.15172129795682587: 1, 0.15167845770529476: 1,
0.15166981647513414: 1, 0.15164536185670052: 1, 0.15163770420682615: 1, 0.15161407795993734: 1,
0.15160384157710388: 1, 0.15160012342300022: 1, 0.15157923704780973: 1, 0.15153897136513517: 1,
0.15153670182007695: 1, 0.15150084225537833: 1, 0.15145036522528782: 1, 0.15143406571785029: 1,
0.151420205397763573: 1, 0.15139123494213028: 1, 0.15138606076654762: 1, 0.1513402366227568: 1,
0.15133598595690836: 1, 0.15132065223515284: 1, 0.15131402101070388: 1, 0.15130467547683707: 1,
0.15130438780990335: 1, 0.15129257583378997: 1, 0.15126238192515246: 1, 0.15120304482462715: 1,
0.15119191240102214: 1, 0.1511884946984279: 1, 0.15115637399582468: 1, 0.15109820062126625: 1,
0.1510829462002313: 1, 0.1510703321707996: 1, 0.1510670885422062: 1, 0.15106193617321145: 1,
0.1510444180752759: 1, 0.15102280475519841: 1, 0.1509730253373223: 1, 0.15096320528941887: 1,
0.15095736291722378: 1, 0.15093306788177313: 1, 0.15090392543028394: 1, 0.15088699703291097: 1,
0.15088457663110139: 1, 0.15085490374353686: 1, 0.15085040429988242: 1, 0.15084122886335025: 1,
0.15083483950410442: 1, 0.15081304080956806: 1, 0.15078730978621402: 1, 0.15077623004859367: 1,
0.15076132600145375: 1, 0.15074168989855885: 1, 0.1507268867248351: 1, 0.15072328250955996: 1,
0.15070051432817602: 1, 0.15069675654342726: 1, 0.15066149118125688: 1, 0.15064664028451002: 1,
0.15064199251421548: 1, 0.1506394838625078: 1, 0.15061556036461943: 1, 0.15061552255233512: 1,
0.15059535311751168: 1, 0.15058451726788868: 1, 0.15057690641537874: 1, 0.15055216452012604: 1,
0.15054283850375558: 1, 0.15052109857427234: 1, 0.1505063709160419: 1, 0.15046954535007961: 1,
0.15045454682985426: 1, 0.1504438705607937: 1, 0.15041401547535968: 1, 0.1504064996184837: 1,
0.15037926790609382: 1, 0.1503748617446917: 1, 0.1503671219367349: 1, 0.15034838262389555: 1,
0.15030630704885073: 1, 0.150298438781517: 1, 0.1502811508291552: 1, 0.15026494292679157: 1,
0.15025668827096939: 1, 0.15024009017435136: 1, 0.15023439089725207: 1, 0.15022872257886344: 1,
0.15022594716829096: 1, 0.15021201543283128: 1, 0.15020123012159303: 1, 0.15018360140813047: 1,

0.1501704138598105: 1, 0.1501676344760346: 1, 0.15015815084870446: 1, 0.15014973402145873: 1,
0.15013375684430733: 1, 0.15013011729105125: 1, 0.15012706068808684: 1, 0.15012127031055114: 1,
0.15007526516586794: 1, 0.1500741725775773: 1, 0.15007396601986475: 1, 0.15005951512232824: 1,
0.1500142583387804: 1, 0.15000847547276708: 1, 0.1499684618211921: 1, 0.14991050132852735: 1,
0.1498826356861599: 1, 0.14987349022960758: 1, 0.14985952268771993: 1, 0.1498583596310477: 1,
0.14983702346417754: 1, 0.14981930857790138: 1, 0.14979241573942492: 1, 0.14978184243972234: 1,
0.14976439876728903: 1, 0.14976370295875913: 1, 0.14973388730318812: 1, 0.1497095260976963: 1,
0.1497016182509601: 1, 0.14967632554501822: 1, 0.1496249912706278: 1, 0.14961856152475744: 1,
0.14961182624263947: 1, 0.14958628992369596: 1, 0.14956041926236532: 1, 0.1495572681519931: 1,
0.14952546173135434: 1, 0.14952287363783662: 1, 0.14951511317135427: 1, 0.14951170902218963: 1,
0.14950899472605514: 1, 0.14945993412434289: 1, 0.1494234328116691: 1, 0.14941632741680785: 1,
0.1493341893226567: 1, 0.14929905092401666: 1, 0.14928871108268438: 1, 0.14928529831830956: 1,
0.1492581675196928: 1, 0.14925168943791303: 1, 0.14922787596663842: 1, 0.14921492030762584: 1,
0.14920790350090007: 1, 0.14918649713657994: 1, 0.1491489376665843: 1, 0.1491473577550379: 1,
0.14910008429553154: 1, 0.14908234557302946: 1, 0.14905516390055332: 1, 0.14903368697361402: 1,
0.14899939241065163: 1, 0.14898523016262166: 1, 0.14897513624148287: 1, 0.14896751686657606: 1,
0.1489540160307874: 1, 0.14895299224516093: 1, 0.14895095407015294: 1, 0.1488938471775446: 1,
0.1488428793562018: 1, 0.1488359457347782: 1, 0.14880040975988457: 1, 0.14878898582864247: 1,
0.14873825624865528: 1, 0.14873778864798606: 1, 0.1487216874821275: 1, 0.14870762944174148: 1,
0.14868604979957467: 1, 0.14866365765598177: 1, 0.14863507516172184: 1, 0.1486287623399158: 1,
0.14859284122246388: 1, 0.14858221116681505: 1, 0.1485740345570414: 1, 0.14855102534389594: 1,
0.14853815701515258: 1, 0.14851723406855652: 1, 0.14850456719318036: 1, 0.14849801470590765: 1,
0.14848663995871073: 1, 0.14846372653047188: 1, 0.14845791058023264: 1, 0.14843681776454126: 1,
0.14843650569259834: 1, 0.1483975321472006: 1, 0.1483887605912867: 1, 0.14837093627631576: 1,
0.1483623259826661: 1, 0.14835672502303693: 1, 0.14834043272002956: 1, 0.1483307489096197: 1,
0.14832318407125408: 1, 0.1483221599470695: 1, 0.14830868411365578: 1, 0.14830747990322826: 1,
0.14829956808883618: 1, 0.14829444521010862: 1, 0.14826545712089004: 1, 0.14821943412352978: 1,
0.14821563746775532: 1, 0.14821183770697335: 1, 0.14820605198193654: 1, 0.1482021724020679: 1,
0.14818987905684775: 1, 0.14815051189921533: 1, 0.14813444113892665: 1, 0.14810656277800077: 1,
0.1480767042767153: 1, 0.14804665936947656: 1, 0.14803591283682704: 1, 0.1480349697502256: 1,
0.1479962644395878: 1, 0.14796980753357475: 1, 0.14792821081373206: 1, 0.1479128728166061: 1,
0.14791205127324436: 1, 0.14790988472263078: 1, 0.14790812846439347: 1, 0.14790010316100857: 1,
0.14789674970277852: 1, 0.1478656039866472: 1, 0.14786464644745986: 1, 0.14785175200842665: 1,
0.1478409492415567: 1, 0.14781969805707448: 1, 0.14778907460651183: 1, 0.14778057646092221: 1,
0.14775616667363098: 1, 0.14775068259150687: 1, 0.14773116937849318: 1, 0.14772393732734035: 1,
0.14771059537847564: 1, 0.14770878146787964: 1, 0.14768048935197775: 1, 0.1476544533054179: 1,
0.14764397142768604: 1, 0.14762065395649251: 1, 0.14761210708040323: 1, 0.1474875242062699: 1,
0.14745990858410912: 1, 0.14745411414394058: 1, 0.14740719408573333: 1, 0.14739686697756355: 1,
0.14738069281144814: 1, 0.14735251266371116: 1, 0.1473110464373124: 1, 0.14730243264453668: 1,
0.1473008357526541: 1, 0.14728685093630423: 1, 0.14728494817938456: 1, 0.14728377809119098: 1,
0.14727429402108383: 1, 0.14727192411382778: 1, 0.14725981808440844: 1, 0.14718079915833238: 1,
0.1471623323500978: 1, 0.1471460283540273: 1, 0.14714275049154202: 1, 0.14713006340731397: 1,
0.1471198486056538: 1, 0.14711858927431326: 1, 0.14711257498774377: 1, 0.1470872049677852: 1,
0.14706281997123188: 1, 0.14706022035974498: 1, 0.1470496051233324: 1, 0.146987678491438: 1,
0.14697591017079248: 1, 0.14694671180685365: 1, 0.1469461059047268: 1, 0.14693454103034992: 1,
0.1469241876397434: 1, 0.14692055370431417: 1, 0.1469150214953674: 1, 0.14688659114970928: 1,
0.1468857378441996: 1, 0.14686976990921222: 1, 0.14686680963116056: 1, 0.14685549052887714: 1,
0.14684043710538464: 1, 0.14683209636596553: 1, 0.14678922994878194: 1, 0.14678804422472647: 1,
0.146773630902885: 1, 0.14677101379582752: 1, 0.14676211396502148: 1, 0.14671860896609806: 1,
0.14670497787338874: 1, 0.14667324422039654: 1, 0.14665269100389683: 1, 0.14662154205724684: 1,
0.1466156515002135: 1, 0.14657523058739036: 1, 0.14657414894470877: 1, 0.14657158155429126: 1,
0.14654793319054144: 1, 0.14652704032739006: 1, 0.1465193067902114: 1, 0.14650796440115837: 1,
0.1464310981764767: 1, 0.14642439623233944: 1, 0.14642363169712339: 1, 0.1464189574959151: 1,
0.14638775178655736: 1, 0.14638608635985706: 1, 0.14638156189259846: 1, 0.14636859946862207: 1,
0.14634981446287837: 1, 0.14632339744072276: 1, 0.14631753496935754: 1, 0.14631557582522997: 1,
0.14628740644370067: 1, 0.14626112542476893: 1, 0.14626024426476045: 1, 0.14624349291373787: 1,
0.1462377513102608: 1, 0.14621921847035718: 1, 0.1462058428004503: 1, 0.14617500006414003: 1,
0.1461583710315074: 1, 0.14610911113308928: 1, 0.14609655084655748: 1, 0.14607946526929505: 1,
0.146039833349805677: 1, 0.14602272230483745: 1, 0.14601593562530196: 1, 0.1460155408285536: 1,
0.14598057013529142: 1, 0.14587391111148268: 1, 0.145845619689439: 1, 0.14584504298315484: 1,
0.1458186611332007: 1, 0.14578785776825068: 1, 0.14578658210401968: 1, 0.14577068218671105: 1,
0.1457674769696218: 1, 0.1457660351061684: 1, 0.1457600865495702: 1, 0.1457158348333111: 1,
0.14569962123202998: 1, 0.14569180243165003: 1, 0.14569071377851434: 1, 0.1456638150556522: 1,
0.1456500782078465: 1, 0.14563729791374452: 1, 0.14562605179746302: 1, 0.14561687499708112: 1,
0.1456034604940897: 1, 0.14559647479111623: 1, 0.14558171771747278: 1, 0.14556570430396584: 1,
0.14553756408353222: 1, 0.1455224982307302: 1, 0.14552003026424426: 1, 0.1455004646496106: 1,
0.14549912473269988: 1, 0.14547499401837555: 1, 0.14547108863880812: 1, 0.1454547897058566: 1,
0.14544582185325408: 1, 0.14544482987637078: 1, 0.1454122313718167: 1, 0.14540398836717702: 1,
0.1453317677771205: 1, 0.14530876797068867: 1, 0.14529790924880057: 1, 0.14529624421587078: 1,
0.14527727332564394: 1, 0.14526392775056698: 1, 0.14524369905299708: 1, 0.145232673499266: 1,
0.14522470160627574: 1, 0.14520986228511185: 1, 0.14520746576573473: 1, 0.14518759433216716: 1,
0.145161263454628: 1, 0.1451144937378096: 1, 0.14511334914683088: 1, 0.14508060726607963: 1,
0.1450773116866071: 1, 0.14507598796344304: 1, 0.14507497870279024: 1, 0.14506800895155492: 1,
0.14506078875466816: 1, 0.14505121843835528: 1, 0.145024020018408: 1, 0.14501637989973756: 1,
0.14496527157459288: 1, 0.14495619024355952: 1, 0.144939635863494: 1, 0.14487271422050443: 1,
0.14486897552823688: 1, 0.1448644353178257: 1, 0.14485096129164055: 1, 0.14482286592127908: 1,
0.14477200499735773: 1, 0.14476838557829014: 1, 0.1447611045245641: 1, 0.14475036903143668: 1,

0.14472448050884892: 1, 0.144677771249582: 1, 0.1446747130827258: 1, 0.14465357515776373: 1,
0.14460537466893977: 1, 0.1445423241848424: 1, 0.14452403826179436: 1, 0.14451548363836902: 1,
0.14448466953832875: 1, 0.1444598991872784: 1, 0.14445472174977217: 1, 0.14445288134951: 1,
0.14444767269620373: 1, 0.14443591753930166: 1, 0.14442613244426522: 1, 0.1444105481047827: 1,
0.1444053859531842: 1, 0.14439972717548433: 1, 0.14439355497339806: 1, 0.14438949688863972: 1,
0.1443395250534696: 1, 0.14432893776290404: 1, 0.14432811729918144: 1, 0.1443232484367539: 1,
0.14430829517175892: 1, 0.14424621927741466: 1, 0.14423179486046783: 1, 0.14418127624842472: 1,
0.14415593105516325: 1, 0.14415000911923753: 1, 0.14413789371515398: 1, 0.14412561370299753: 1,
0.14410928294036499: 1, 0.1440959427649615: 1, 0.1440616945929177: 1, 0.14405477084611265: 1,
0.144026719027298: 1, 0.14401319115205136: 1, 0.1440093631060561: 1, 0.14400876390754008: 1,
0.14397512315292146: 1, 0.1439502015592678: 1, 0.143933715552501: 1, 0.14393279699981595: 1,
0.14392853422804505: 1, 0.14388849200608012: 1, 0.14386675280693048: 1, 0.14386499167524203: 1,
0.14386121630575763: 1, 0.14386092142495158: 1, 0.143836507672125: 1, 0.14382100991423574: 1,
0.1438048241384659: 1, 0.14379657923152744: 1, 0.143790517866745: 1, 0.143776003992062: 1,
0.143766336651816: 1, 0.14375813358526815: 1, 0.14369714340442882: 1, 0.14363381002180048: 1,
0.14361416425646256: 1, 0.14359963383429028: 1, 0.14355409295739674: 1, 0.14353881623860726: 1,
0.14352305267305565: 1, 0.14351343026355523: 1, 0.14350907941384713: 1, 0.14348258199359115: 1,
0.14347992961975467: 1, 0.14343130403323653: 1, 0.14343091468301541: 1, 0.14342121569593483: 1,
0.14338198634220004: 1, 0.143354660028888: 1, 0.14334423514641326: 1, 0.14330081608963713: 1,
0.143297432470394: 1, 0.14329529890839773: 1, 0.14328504796552852: 1, 0.14326895288073715: 1,
0.14326579042814386: 1, 0.14325320957874357: 1, 0.14325008939027942: 1, 0.14320185379401437: 1,
0.14319428396926717: 1, 0.14314362152856985: 1, 0.14312108718851294: 1, 0.14311596170251767: 1,
0.1431104357226672: 1, 0.14309165859934753: 1, 0.14306978428507175: 1, 0.14306773885606264: 1,
0.14305139480247395: 1, 0.14297422044227107: 1, 0.1429577338726174: 1, 0.1429518176158612: 1,
0.14294006032757733: 1, 0.14293319468944815: 1, 0.1429187832916463: 1, 0.14288828630578698: 1,
0.14277592024283955: 1, 0.14273415222150826: 1, 0.14266841230534458: 1, 0.14266118056195606: 1,
0.1426567374599446: 1, 0.14265526974458592: 1, 0.14265033363629206: 1, 0.14264416784063194: 1,
0.1426098700089734: 1, 0.1426031087304554: 1, 0.1425840312897757: 1, 0.1425821703748792: 1,
0.14257976749315526: 1, 0.1425691050097707: 1, 0.14255447501022023: 1, 0.1425507158171181: 1,
0.14253954587366086: 1, 0.1425329432740849: 1, 0.1425164605235224: 1, 0.14247357981114175: 1,
0.14246156572418056: 1, 0.14246000397148711: 1, 0.1424591731198515: 1, 0.142453268703786: 1,
0.14243205034009535: 1, 0.1424205701688875: 1, 0.14241882613092968: 1, 0.14241466344721962: 1,
0.14239610770036842: 1, 0.14236371425877004: 1, 0.1423418533943244: 1, 0.1423258724386592: 1,
0.14232020019404798: 1, 0.1423124697678742: 1, 0.14228272648499735: 1, 0.14225554626291317: 1,
0.1422545287062163: 1, 0.1422475697657311: 1, 0.14224160111467557: 1, 0.14223633133794275: 1,
0.14218879197618586: 1, 0.1421605127392054: 1, 0.1421593080531538: 1, 0.14212953674696266: 1,
0.14212940101630506: 1, 0.14212059334771002: 1, 0.14211880921515146: 1, 0.14206644235781857: 1,
0.14204259579330478: 1, 0.14204033953897083: 1, 0.14203180041153232: 1, 0.14202460354419916: 1,
0.14199649985790558: 1, 0.1419933063578269: 1, 0.1419840637323392: 1, 0.14197603552357246: 1,
0.14197323357417857: 1, 0.14196475426357047: 1, 0.14195709420305644: 1, 0.14195559940193697: 1,
0.14194136635812454: 1, 0.14192507259399437: 1, 0.14191248354289515: 1, 0.14189536030473038: 1,
0.141871891686625: 1, 0.1418535020338898: 1, 0.14184540608233492: 1, 0.14184232555729634: 1,
0.1418250524859535: 1, 0.1418226918157043: 1, 0.14179413419055867: 1, 0.1417737888952897: 1,
0.14172625099890013: 1, 0.14170076890319538: 1, 0.14167602307253602: 1, 0.1416708267632457: 1,
0.14164012108260488: 1, 0.14160590500821704: 1, 0.1415818227340294: 1, 0.14157022353424836: 1,
0.14156080947223598: 1, 0.14149098664577717: 1, 0.1414352717596465: 1, 0.14142442235578245: 1,
0.1414203718482575: 1, 0.1413998742583653: 1, 0.14138390315242028: 1, 0.141355795301377: 1,
0.14133956863773126: 1, 0.1413357136275654: 1, 0.1413185377071223: 1, 0.1413052634670646: 1,
0.14130448943002566: 1, 0.1412701552364561: 1, 0.14126123721208705: 1, 0.1412604325749744: 1,
0.14123503240522256: 1, 0.14122916074882857: 1, 0.14122386389009486: 1, 0.1411929491282612: 1,
0.14119048866416595: 1, 0.14118311275768503: 1, 0.1411819851307962: 1, 0.14117219001593317: 1,
0.14116277391705992: 1, 0.14114811706201297: 1, 0.14111707241413993: 1, 0.1410654477432454: 1,
0.14102238818370816: 1, 0.1410187242475696: 1, 0.1410171635492828: 1, 0.141011630761773: 1,
0.14100284881582276: 1, 0.140962196275063: 1, 0.14096063510340628: 1, 0.1409365799819597: 1,
0.1409115992671408: 1, 0.14090165920652042: 1, 0.1408945875996809: 1, 0.14088753763241613: 1,
0.14088234836504374: 1, 0.1408568916865883: 1, 0.14081592574473642: 1, 0.14080161656803458: 1,
0.1407774864083973: 1, 0.14077352009089478: 1, 0.14074282289344708: 1, 0.14073913199550242: 1,
0.14072033815018856: 1, 0.14070295971100663: 1, 0.14069663779037014: 1, 0.14067850452038194: 1,
0.1406712983389243: 1, 0.14063024997150644: 1, 0.14060342690649458: 1, 0.14060301840368897: 1,
0.14060094536795825: 1, 0.14056999278228224: 1, 0.14056379122259616: 1, 0.14053436625187904: 1,
0.14052207583992724: 1, 0.1405096079047685: 1, 0.14048514901696227: 1, 0.1404633616402704: 1,
0.1404629855423521: 1, 0.14040443426390295: 1, 0.14039999665319997: 1, 0.14038213076161055: 1,
0.14037339510095512: 1, 0.14034105274698774: 1, 0.1403285786380518: 1, 0.14032593696411355: 1,
0.14031276285592076: 1, 0.14031095975423788: 1, 0.14030267067144042: 1, 0.1402880319855559: 1,
0.14026583565690026: 1, 0.1402376086363173: 1, 0.1402321190380457: 1, 0.1402031057306686: 1,
0.14020283611891196: 1, 0.14019458056554426: 1, 0.14018637126281316: 1, 0.14018249405479957: 1,
0.14017883516780252: 1, 0.14017693175148568: 1, 0.1401669751130859: 1, 0.1401654783635406: 1,
0.1401347780389038: 1, 0.14013170545287867: 1, 0.1401289554482526: 1, 0.1401216534268742: 1,
0.140120620827045: 1, 0.14010705256235692: 1, 0.14010324156067114: 1, 0.14009592982137187: 1,
0.14009206800050472: 1, 0.140019216979799: 1, 0.1400052233365458: 1, 0.14000103390488272: 1,
0.139987497524083: 1, 0.13998655916099362: 1, 0.1399736859070842: 1, 0.13997313488712618: 1,
0.13996842261600428: 1, 0.13996720800457102: 1, 0.13995148215259937: 1, 0.13993790371505604: 1,
0.1399338060061024: 1, 0.1399038269596073: 1, 0.13990232724509835: 1, 0.1398990198693886: 1,
0.13989722852797484: 1, 0.1398933373591093: 1, 0.13988604916450023: 1, 0.13988153793672117: 1,
0.13987840906972274: 1, 0.139845798183822: 1, 0.1398438253809286: 1, 0.1398159214400063: 1,
0.13980501465058107: 1, 0.13980423621876814: 1, 0.13979663547044371: 1, 0.13979358478974374: 1,
0.13978042815025785: 1, 0.13977493293555684: 1, 0.13974545860315563: 1, 0.1397354056644297: 1.

0.1397329755984476: 1, 0.13970332111117734: 1, 0.13962025559740165: 1, 0.13961258899205334: 1, 0.13959720266580578: 1, 0.1395921172737461: 1, 0.13958398900678717: 1, 0.13957550350011205: 1, 0.1395549340404903: 1, 0.13952359177801105: 1, 0.13950294436287913: 1, 0.13949397276155204: 1, 0.1394922774749342: 1, 0.1394855592484261: 1, 0.13948258906207686: 1, 0.13947936443772888: 1, 0.13946802814473971: 1, 0.13946673545783186: 1, 0.1394542065795297: 1, 0.13945312564312834: 1, 0.1394509694265764: 1, 0.13940164916791917: 1, 0.1393999386960718: 1, 0.13939576050894137: 1, 0.13939266620049318: 1, 0.13936791906090748: 1, 0.13935940332032742: 1, 0.13935639728579988: 1, 0.13934123683594457: 1, 0.13932305990881622: 1, 0.13931921196032027: 1, 0.13930092899443158: 1, 0.13928100737626573: 1, 0.1392642609141823: 1, 0.1392641801547309: 1, 0.13925810688023862: 1, 0.1392191271003138: 1, 0.13920090958197776: 1, 0.13919044539603154: 1, 0.13912745361065154: 1, 0.1390804144125478: 1, 0.13907591760562246: 1, 0.13906622730482043: 1, 0.13906529153289557: 1, 0.13904719067830137: 1, 0.13903797354721192: 1, 0.1390232166708789: 1, 0.13902281992056933: 1, 0.13900457600170193: 1, 0.1390031831378166: 1, 0.1389942662121859: 1, 0.13899163932217667: 1, 0.1389770617235287: 1, 0.1389747318544798: 1, 0.13896926033033663: 1, 0.1389617644109981: 1, 0.13892763387199383: 1, 0.13892637028669055: 1, 0.13890248940477634: 1, 0.13889781660483475: 1, 0.1388891544293242: 1, 0.1388875834941168: 1, 0.1388738746047407: 1, 0.13885537951761395: 1, 0.13884045752069743: 1, 0.138814783922622: 1, 0.1388035653230052: 1, 0.13878784515470632: 1, 0.13878008738429412: 1, 0.13877133538849698: 1, 0.13874372879894667: 1, 0.13873512994356607: 1, 0.1387301723806785: 1, 0.13872778121645937: 1, 0.1387127733816099: 1, 0.1387079272866437: 1, 0.13864276053973454: 1, 0.138619778058937: 1, 0.13861696333540585: 1, 0.13860670866068425: 1, 0.13859670238953836: 1, 0.1385595969958934: 1, 0.13854528274493422: 1, 0.1385389079230372: 1, 0.13847163045117766: 1, 0.13844099830466378: 1, 0.13844096796203098: 1, 0.13843438448683645: 1, 0.13842145746227155: 1, 0.13838526071674648: 1, 0.13836290895904763: 1, 0.13834540492034997: 1, 0.13834398920345728: 1, 0.13833584176811498: 1, 0.13830890033376209: 1, 0.13823401008382538: 1, 0.13823073198546965: 1, 0.13821060892253365: 1, 0.1382083312438717: 1, 0.13819182797902574: 1, 0.13819122722591057: 1, 0.13818044157778422: 1, 0.13814257758955986: 1, 0.1381373118523646: 1, 0.13811536063612365: 1, 0.13810910426288128: 1, 0.13810437891383245: 1, 0.13807869968020348: 1, 0.1380726721900217: 1, 0.13804423500131996: 1, 0.13803962143085852: 1, 0.13803688397113698: 1, 0.1380167804430693: 1, 0.1379838111793541: 1, 0.13797724025495345: 1, 0.1379754470849611: 1, 0.13793266946209515: 1, 0.1379291954141377: 1, 0.13789761572317305: 1, 0.13788161254486486: 1, 0.13787726756678775: 1, 0.13784664860806056: 1, 0.13781635793459038: 1, 0.13778951334653647: 1, 0.13777309483185146: 1, 0.13772623072157217: 1, 0.13770403120980323: 1, 0.13768978782453636: 1, 0.13764884720897058: 1, 0.13763448899959208: 1, 0.13757232428928431: 1, 0.13756753154537157: 1, 0.1375321424238078: 1, 0.13752290076220688: 1, 0.1375074588512457: 1, 0.1374949708620765: 1, 0.13747324896904511: 1, 0.1374481788697662: 1, 0.13744541194174856: 1, 0.13742229268170508: 1, 0.13742063673427007: 1, 0.13741877655740062: 1, 0.137413036093999: 1, 0.1373995917396087: 1, 0.13739845612206705: 1, 0.13738575385991597: 1, 0.13737784564753086: 1, 0.13737140282688481: 1, 0.13736906770378757: 1, 0.1373458151967914: 1, 0.13734497353938577: 1, 0.13732042229436955: 1, 0.13730796766841377: 1, 0.13729437604066003: 1, 0.13728052311044003: 1, 0.13727916754337263: 1, 0.13727676364962407: 1, 0.13725516857330314: 1, 0.13723255626709693: 1, 0.13722385468807688: 1, 0.13720839477961372: 1, 0.13720832443710992: 1, 0.13720301313456174: 1, 0.1371981387727289: 1, 0.13719283552439068: 1, 0.13717358404889085: 1, 0.13715575572329608: 1, 0.13711147446664274: 1, 0.13710412670931865: 1, 0.13710371959956114: 1, 0.13707030937201378: 1, 0.13706360675566703: 1, 0.13705589146970532: 1, 0.13702932034675924: 1, 0.13702210756960465: 1, 0.13701359583506584: 1, 0.13698637093364896: 1, 0.13696765326962712: 1, 0.1369603454003521: 1, 0.1369438059228836: 1, 0.13694000036799456: 1, 0.13691676016198945: 1, 0.1369128918926602: 1, 0.13682537182199692: 1, 0.13680775889124183: 1, 0.13678732747688208: 1, 0.13678649305896554: 1, 0.13676814787243755: 1, 0.13674287635452093: 1, 0.13674140973402235: 1, 0.13669261409267774: 1, 0.1366894993266889: 1, 0.13660820902868384: 1, 0.13660178343517188: 1, 0.13658805584951925: 1, 0.13658363265354675: 1, 0.13656707901795914: 1, 0.1365594459134358: 1, 0.13653962388540788: 1, 0.13650296701300652: 1, 0.1364803306879299: 1, 0.13647746712486922: 1, 0.1364740430054506: 1, 0.13646985249728852: 1, 0.13642494623029522: 1, 0.1364033860539574: 1, 0.1363986252538868: 1, 0.13635892613236048: 1, 0.1363367726603502: 1, 0.13631663526863172: 1, 0.1362874048801045: 1, 0.1362238971199139: 1, 0.13620534971154577: 1, 0.1361697424063598: 1, 0.1361546392341881: 1, 0.13614481602319772: 1, 0.1361437078359203: 1, 0.1361422016167228: 1, 0.13611640576984724: 1, 0.13608418517999457: 1, 0.13607899198905726: 1, 0.13607883041941826: 1, 0.13604943772386976: 1, 0.13604352123188715: 1, 0.13600007530243033: 1, 0.13597610791803597: 1, 0.13597291562342578: 1, 0.13596935408122826: 1, 0.13596497841941277: 1, 0.13594799418996673: 1, 0.13593577776043203: 1, 0.13593187733023995: 1, 0.13591274871745807: 1, 0.13588921505655605: 1, 0.13585326409118764: 1, 0.13584915438217424: 1, 0.13583505544804353: 1, 0.13581157919095596: 1, 0.13578837774915867: 1, 0.13577268426849737: 1, 0.13576935289396275: 1, 0.13575623398784495: 1, 0.13575459103790521: 1, 0.13575089518440703: 1, 0.13573108414924867: 1, 0.13570946408381213: 1, 0.13569797505385697: 1, 0.1356936964968939: 1, 0.13568148404684705: 1, 0.1356480751369014: 1, 0.13563807144362258: 1, 0.13563184082859492: 1, 0.1356194352327304: 1, 0.13560783685221955: 1, 0.13560275658285717: 1, 0.1355637462580913: 1, 0.1355253202413618: 1, 0.13549572689735878: 1, 0.13549230464879514: 1, 0.13549211358151392: 1, 0.1354867131466462: 1, 0.13547391632556044: 1, 0.13547123569543934: 1, 0.13543540033880488: 1, 0.13536648633621945: 1, 0.13536645536135064: 1, 0.13534774821641846: 1, 0.13527776145893877: 1, 0.1352744804461712: 1, 0.13525523367125236: 1, 0.13523178651003764: 1, 0.1352267486962146: 1, 0.13521755233766042: 1, 0.13517585065903767: 1, 0.13512427979912048: 1, 0.13512391827225181: 1, 0.13512080683029173: 1, 0.13511880940925214: 1, 0.13508100924982672: 1, 0.1350327645570491: 1, 0.1350319428774478: 1, 0.13497644510246637: 1, 0.13496618235898003: 1, 0.13495795070814093: 1, 0.13492796405147572: 1, 0.13492020444519554: 1, 0.13492007938661316: 1, 0.13491500535445952: 1, 0.1349116540216083: 1, 0.13488422490201554: 1, 0.1348762606771958: 1, 0.13486466077800124: 1, 0.13484456890530674: 1, 0.13487831789282664: 1, 0.13476932099681774: 1, 0.13474486809410097: 1, 0.13473862815278775: 1, 0.13471944523457582: 1, 0.1347155434323233: 1, 0.13471308967994514: 1, 0.1347194822773475: 1, 0.13468587584158162: 1, 0.1346846994508014: 1, 0.13467445778172807: 1, 0.1346672551913461: 1, 0.13463525324824635: 1, 0.1346237635098597: 1, 0.13460942044326282: 1.

0.134000200101001: 1, 0.1340002002102100: 1, 0.134000200000000: 1, 0.1340001201102002: 1,
0.13460934494512775: 1, 0.13460794118093436: 1, 0.1345789083188726: 1, 0.1345635351468835: 1,
0.13455698461815377: 1, 0.1345534364310596: 1, 0.1345379944461274: 1, 0.13452340374037738: 1,
0.13445381493466874: 1, 0.1344362501587167: 1, 0.1344201040882825: 1, 0.13441791899793315: 1,
0.13441777154217704: 1, 0.13441503700358573: 1, 0.13438048239845868: 1, 0.13437697586988084: 1,
0.13437073669887284: 1, 0.13436964370102447: 1, 0.1343616499960073: 1, 0.1343497671885299: 1,
0.13430593218750808: 1, 0.13423891526714288: 1, 0.13423436587692267: 1, 0.13420244850130855: 1,
0.13417904912283138: 1, 0.13417037510996346: 1, 0.13416914551650183: 1, 0.1341598611968654: 1,
0.13415943092513988: 1, 0.13415322295017584: 1, 0.1341354368245668: 1, 0.13411798733003605: 1,
0.13410830720108652: 1, 0.13410344500249327: 1, 0.1340964037065757: 1, 0.1340915610789844: 1,
0.13407458993372828: 1, 0.13403870204136942: 1, 0.13403702837477985: 1, 0.13401204835972697: 1,
0.13397975495477132: 1, 0.13397344780080583: 1, 0.1339679290197702: 1, 0.13394317254563462: 1,
0.13393370602480717: 1, 0.133931254618354: 1, 0.13391849507861517: 1, 0.1339074590232305: 1,
0.13390403910536453: 1, 0.13390242290797758: 1, 0.13388531237311058: 1, 0.13384880098774865: 1,
0.1338460005888981: 1, 0.13383777356188437: 1, 0.13382250161618833: 1, 0.13381178815208702: 1,
0.13380140837190657: 1, 0.13378372063948024: 1, 0.13377521115536153: 1, 0.13372967319115248: 1,
0.13372148246842291: 1, 0.1336658181461932: 1, 0.13365709378349783: 1, 0.1336452775181376: 1,
0.13363775398196875: 1, 0.13363449266748023: 1, 0.13360628827864307: 1, 0.13360364182381929: 1,
0.13356248181325278: 1, 0.1335590033115526: 1, 0.13355049865532825: 1, 0.13352993009555547: 1,
0.13351812475271238: 1, 0.13351274946785743: 1, 0.13344014511315205: 1, 0.13342998630303501: 1,
0.13342205614265992: 1, 0.1334145968540305: 1, 0.13340933400739605: 1, 0.1334031619587777: 1,
0.13335410430529565: 1, 0.13328722734597087: 1, 0.13327316759761026: 1, 0.13321530867772532: 1,
0.1332108132160211: 1, 0.1331985116120279: 1, 0.13319289529393272: 1, 0.1331906204153359: 1,
0.13317608576658369: 1, 0.1331753784090753: 1, 0.13316418771586153: 1, 0.1331547357376337: 1,
0.133145637813593: 1, 0.13313629112485556: 1, 0.13313116463542418: 1, 0.1331156176486335: 1,
0.13307599681371865: 1, 0.1330490969001402: 1, 0.13303931872862867: 1, 0.13303372257291285: 1,
0.13303127400940065: 1, 0.13302322862726626: 1, 0.13301819741177187: 1, 0.13298565804153695: 1,
0.13295688555238427: 1, 0.13295233303430762: 1, 0.13294406833539565: 1, 0.13291392720354758: 1,
0.13291347996157224: 1, 0.1328855530193304: 1, 0.13288073986761853: 1, 0.13285862686107897: 1,
0.13284564471017005: 1, 0.1328417392446145: 1, 0.13284024250779025: 1, 0.1328399615415469: 1,
0.13282390137240024: 1, 0.13281561644205925: 1, 0.13276159972358234: 1, 0.1327209927816857: 1,
0.13270994135124586: 1, 0.1326893429463759: 1, 0.13268474899251595: 1, 0.13267876790387412: 1,
0.13266418630220433: 1, 0.132610340294887: 1, 0.1326096036506887: 1, 0.13258637907880122: 1,
0.13256459443934507: 1, 0.132564297306299: 1, 0.13255196716898138: 1, 0.1325515047786737: 1,
0.1325436883646348: 1, 0.1325417158155125: 1, 0.13253974243501127: 1, 0.1325392742559959: 1,
0.1325373497968366: 1, 0.13251311614750197: 1, 0.13250871630656172: 1, 0.13250461311145773: 1,
0.13248680131119803: 1, 0.13245826929693044: 1, 0.1324490271035782: 1, 0.13241808122703758: 1,
0.13241332667205394: 1, 0.1323872401182411: 1, 0.13236094967767548: 1, 0.13232703064204296: 1,
0.13232009426862054: 1, 0.13229724463779355: 1, 0.13228964513084202: 1, 0.13226512504341817: 1,
0.13225022701976558: 1, 0.1322437502535147: 1, 0.1322162772607799: 1, 0.1321835177440615: 1,
0.13218268223585183: 1, 0.13218008718175953: 1, 0.13216250787175488: 1, 0.13215610336572153: 1,
0.1321534340381531: 1, 0.13214566525689406: 1, 0.1321427156769708: 1, 0.1321264267516442: 1,
0.1321220107547929: 1, 0.1321200057953323: 1, 0.13208385609391532: 1, 0.13205737749771582: 1,
0.13202593306076668: 1, 0.13202424279727337: 1, 0.13201223332119652: 1, 0.1319981308543012: 1,
0.13198304763753865: 1, 0.13194971567766287: 1, 0.13194387039631178: 1, 0.13193973693168765: 1,
0.13193319068130738: 1, 0.13190881609990132: 1, 0.13190519093108172: 1, 0.1319019252299791: 1,
0.1318989039651997: 1, 0.1318941857171552: 1, 0.13186824266312325: 1, 0.1318628869094611: 1,
0.13186106031148484: 1, 0.13185555080022715: 1, 0.13185013076588323: 1, 0.13183047151806918: 1,
0.13182545029501372: 1, 0.13181617809724103: 1, 0.1318052031889249: 1, 0.13179259174533225: 1,
0.13175587502321243: 1, 0.13166694166529794: 1, 0.1316553814594666: 1, 0.13164583126190663: 1,
0.13163788016235262: 1, 0.13162802508236293: 1, 0.1316108761750327: 1, 0.13161078992458458: 1,
0.13159460700936335: 1, 0.13157620385009738: 1, 0.13156710816968792: 1, 0.13153746654634982: 1,
0.13153298961804316: 1, 0.13152254534823435: 1, 0.13150746965472682: 1, 0.1314826817732458: 1,
0.13147886635818218: 1, 0.13147737966447925: 1, 0.13143260351506206: 1, 0.13142773489649628: 1,
0.13140990868862334: 1, 0.1314008163815259: 1, 0.13138896863927046: 1, 0.13137894484356363: 1,
0.13136184645994364: 1, 0.1313764537387052: 1, 0.1313290661383773: 1, 0.1313241100397096: 1,
0.1313233221835434: 1, 0.13131840783925158: 1, 0.13131701199557325: 1, 0.13127820833599765: 1,
0.13127030086363978: 1, 0.1312452347136943: 1, 0.13124196417672565: 1, 0.131235300018494: 1,
0.13120828571968537: 1, 0.13118896541996453: 1, 0.13118622560611415: 1, 0.13113297633097307: 1,
0.13109961118741997: 1, 0.13108558671482587: 1, 0.13107861451379751: 1, 0.13105826351177124: 1,
0.13104612162080775: 1, 0.13102194274443738: 1, 0.13101794710928685: 1, 0.13101769342270583: 1,
0.13101076734240355: 1, 0.13100853427520523: 1, 0.13100408541937514: 1, 0.13100121280933924: 1,
0.1309896852336987: 1, 0.13098617349775482: 1, 0.1309830068245594: 1, 0.13097662913149494: 1,
0.13097529787943546: 1, 0.13096619695862646: 1, 0.13095554825611225: 1, 0.1309320072843447: 1,
0.1309317346169778: 1, 0.13092441470383592: 1, 0.1309017351297701: 1, 0.1308883442664171: 1,
0.13086354214257115: 1, 0.13084471919016763: 1, 0.13083490020139518: 1, 0.13082652161269934: 1,
0.13077061536650364: 1, 0.1307689233059567: 1, 0.1307685107581952: 1, 0.13076707388983164: 1,
0.1307526219603286: 1, 0.13074844978293998: 1, 0.13074084036431177: 1, 0.13072530461944648: 1,
0.13071113863551967: 1, 0.1307048564115043: 1, 0.13069061886548825: 1, 0.13067934100918585: 1,
0.1306543290836872: 1, 0.130640619610425: 1, 0.1306241182811637: 1, 0.13060895370292244: 1,
0.130604988751128: 1, 0.13060308963871545: 1, 0.1305945477291708: 1, 0.13059444312756444: 1,
0.13058541156335657: 1, 0.1305753013021842: 1, 0.13056644768253903: 1, 0.13053849662951378: 1,
0.13048666205089898: 1, 0.1304822717444331: 1, 0.13046136521504897: 1, 0.13045424964209798: 1,
0.1304485155088294: 1, 0.1304451278787328: 1, 0.13044210262295458: 1, 0.13041623458353754: 1,
0.13038784805262094: 1, 0.13035808018201084: 1, 0.13034979784195527: 1, 0.13034055724116797: 1,
0.13033510088471129: 1, 0.13033316755728896: 1, 0.13031500640822585: 1, 0.13027930955652295: 1,
0.13025732199716966: 1, 0.13025554310490436: 1, 0.13024657079686755: 1, 0.1302406298362966: 1,
0.13023696240237415: 1, 0.1302317176766141: 1, 0.1302314891488331: 1, 0.130229801961163868: 1

0.1301777658308734: 1, 0.13017055727646332: 1, 0.13015300435549754: 1, 0.13013971249935122: 1, 0.13012776122417966: 1, 0.13007366186362354: 1, 0.13005649349612503: 1, 0.1300359568751851: 1, 0.1300066204725866: 1, 0.1300024091186332: 1, 0.12999827369583586: 1, 0.12999353602870106: 1, 0.12999303584148392: 1, 0.12999038429820065: 1, 0.12992953263548335: 1, 0.1299165665226621: 1, 0.12991405825277264: 1, 0.12990554527769793: 1, 0.12987343349771469: 1, 0.1298729320458995: 1, 0.12984400279865535: 1, 0.12984308964332916: 1, 0.129819584198982: 1, 0.12980408067076019: 1, 0.12979652443891465: 1, 0.12979386446733698: 1, 0.1297931804209608: 1, 0.1297393829726708: 1, 0.12970596951745694: 1, 0.12968830678975363: 1, 0.1296705514773356: 1, 0.1296701860045445: 1, 0.12965147484933745: 1, 0.12964373350584785: 1, 0.12964188976516644: 1, 0.12961436412221314: 1, 0.1296125981716768: 1, 0.12960348458752646: 1, 0.12955227586124685: 1, 0.12952911951209123: 1, 0.12951137580666944: 1, 0.12949376650963598: 1, 0.1294652967687901: 1, 0.12946223013571123: 1, 0.12945776434067688: 1, 0.1294556452822639: 1, 0.12944334088942075: 1, 0.12939925820555076: 1, 0.12936940815973333: 1, 0.12935283565288894: 1, 0.12933393829356343: 1, 0.12930682802308585: 1, 0.1293022767415693: 1, 0.12929012399332643: 1, 0.1292810506326998: 1, 0.12926826495376834: 1, 0.12924803553297376: 1, 0.12924278507568018: 1, 0.12921742369259626: 1, 0.1291823409014918: 1, 0.12917044768874303: 1, 0.1291427525008577: 1, 0.12911394239284052: 1, 0.129110885175335: 1, 0.12909825425041674: 1, 0.12907796475406985: 1, 0.12906855237981182: 1, 0.12905111722926624: 1, 0.12902268471966877: 1, 0.12898526577821698: 1, 0.1289282792027656: 1, 0.1289191366241111: 1, 0.12890023466413364: 1, 0.12887205249384498: 1, 0.12886234152623757: 1, 0.1288601698777156: 1, 0.12884868328095808: 1, 0.12883770476496262: 1, 0.128823959644744: 1, 0.12879051184913184: 1, 0.12878979990446873: 1, 0.1287807439827451: 1, 0.12877076801636447: 1, 0.12875794000425766: 1, 0.12874891131551938: 1, 0.1286974315617265: 1, 0.1286692725667187: 1, 0.12866856992426678: 1, 0.12865275211158025: 1, 0.12862089998806683: 1, 0.1286107596855693: 1, 0.1285993787207066: 1, 0.12859283560576362: 1, 0.1285802077065009: 1, 0.12857744912386226: 1, 0.128571195281929: 1, 0.1285516399057859: 1, 0.1284952385813213: 1, 0.12848437717949718: 1, 0.12847974888592908: 1, 0.12846366008104784: 1, 0.12844702680127879: 1, 0.1284458732457374: 1, 0.12844421124960778: 1, 0.1284398835200726: 1, 0.12839634061090854: 1, 0.12838386524503947: 1, 0.12835100791009618: 1, 0.12834940598711472: 1, 0.12833948747919882: 1, 0.12833269613433232: 1, 0.12829321180547576: 1, 0.12826781942424018: 1, 0.12826778504047812: 1, 0.12826637504982044: 1, 0.12826391913870316: 1, 0.12826312872401313: 1, 0.12825945490011445: 1, 0.12824290302111688: 1, 0.1282044779718724: 1, 0.1281952826670153: 1, 0.12810921881246146: 1, 0.1281032163755758: 1, 0.12808325465683285: 1, 0.12807793288976757: 1, 0.12807151085008345: 1, 0.12803097869015984: 1, 0.12799743077907139: 1, 0.12798547507876087: 1, 0.12797831645937233: 1, 0.1279685383076935: 1, 0.12796692714777183: 1, 0.12796570329859386: 1, 0.1279264648667348: 1, 0.12789428830027802: 1, 0.12788814723368183: 1, 0.1278831276708644: 1, 0.12786761737534097: 1, 0.1278562547402455: 1, 0.1278494510758656: 1, 0.12784250492766158: 1, 0.12782408173073628: 1, 0.12781959058116044: 1, 0.1278182207417917: 1, 0.12778257967670764: 1, 0.12777873842077736: 1, 0.12772517513370685: 1, 0.12771407369307164: 1, 0.12768337327556095: 1, 0.1276412128723251: 1, 0.12763636005859763: 1, 0.12762915414223064: 1, 0.12761362458952108: 1, 0.12761042457001404: 1, 0.12760271252788238: 1, 0.1275985639038574: 1, 0.12759732059880177: 1, 0.1275967807865617: 1, 0.12756539025985952: 1, 0.127565212890839: 1, 0.1275340605641161: 1, 0.1275197832931174: 1, 0.12751763155299847: 1, 0.12751317292507827: 1, 0.1275101475151752: 1, 0.12750596464271285: 1, 0.12750502808445202: 1, 0.1274998411345694: 1, 0.12749972812814891: 1, 0.12748673933002885: 1, 0.12747858553565883: 1, 0.12741546682738197: 1, 0.1274063173287291: 1, 0.1274040108461674: 1, 0.12736998790625645: 1, 0.1273591125093868: 1, 0.12734459574189855: 1, 0.12733800928811786: 1, 0.12733460131319493: 1, 0.12733158384924603: 1, 0.12732973015939664: 1, 0.12728888780418196: 1, 0.1272820719294328: 1, 0.1272708893107217: 1, 0.12725999193560042: 1, 0.1272561425782008: 1, 0.12721755838249124: 1, 0.12721566411711732: 1, 0.12720168685563765: 1, 0.12719648617085513: 1, 0.1271883410906644: 1, 0.12715015543009478: 1, 0.1271455626640673: 1, 0.1271446631118946: 1, 0.12714142403845505: 1, 0.12714049890637283: 1, 0.12711370963883475: 1, 0.1271009558015209: 1, 0.12709746854819468: 1, 0.12709718546018278: 1, 0.12708268400356248: 1, 0.12708007657863035: 1, 0.1270447649098061: 1, 0.12704200308674035: 1, 0.12701848568042265: 1, 0.12701123706196044: 1, 0.12698544664657876: 1, 0.12698498995116825: 1, 0.12695440146097847: 1, 0.12695360617439913: 1, 0.12694727686420562: 1, 0.12694708599215573: 1, 0.1269465084067252: 1, 0.1269323519185504: 1, 0.12692327017359978: 1, 0.12692131975634338: 1, 0.12691315376884765: 1, 0.12691281590374157: 1, 0.12686794468802906: 1, 0.12683938702264075: 1, 0.1268290609061091: 1, 0.12682656297376566: 1, 0.12681939977166765: 1, 0.12679504511772385: 1, 0.12677550688740075: 1, 0.126777484399755426: 1, 0.12676575484608456: 1, 0.12673318557489144: 1, 0.12673124318111761: 1, 0.1267185217301153: 1, 0.12671127708165572: 1, 0.1267023220821213: 1, 0.12668835203899745: 1, 0.12667693987794315: 1, 0.12667230019212733: 1, 0.12664037539445377: 1, 0.12663605476589335: 1, 0.12663098510375703: 1, 0.126662651279182652: 1, 0.12659385653602298: 1, 0.12659202518965296: 1, 0.126589607381607: 1, 0.12652432913747988: 1, 0.12650063726618835: 1, 0.12649641141095452: 1, 0.12649557546836424: 1, 0.12648333154057845: 1, 0.12648234374579814: 1, 0.12648104574701563: 1, 0.12644544193739077: 1, 0.12641805367645853: 1, 0.1264178790828287: 1, 0.12641184912853448: 1, 0.12633131594313826: 1, 0.12630515001575893: 1, 0.12629384466546537: 1, 0.12627645885289895: 1, 0.12625793140607175: 1, 0.12623992306607407: 1, 0.12623982924870353: 1, 0.12619856031154583: 1, 0.12619086356719897: 1, 0.12618623250237304: 1, 0.12618613641861237: 1, 0.12617553179629162: 1, 0.12616064533526763: 1, 0.12615099959239554: 1, 0.12613111203696634: 1, 0.1261304146455008: 1, 0.12612707548731347: 1, 0.12609155591720994: 1, 0.12608233800449725: 1, 0.12607032382154906: 1, 0.12606782297079924: 1, 0.12605189060915867: 1, 0.12604320132235594: 1, 0.12602873705964932: 1, 0.1260168786389555: 1, 0.12600887907544123: 1, 0.12600683922816347: 1, 0.12599217872635554: 1, 0.12596713396667678: 1, 0.12594652775111423: 1, 0.12593529986449783: 1, 0.1258962988674821: 1, 0.12589082941199625: 1, 0.12588510424019766: 1, 0.12585100987786146: 1, 0.12582466809026488: 1, 0.12582147530179827: 1, 0.1258164348140132: 1, 0.12577555334774998: 1, 0.1257655772862042: 1, 0.12575637055759334: 1, 0.1257243155583499: 1, 0.125720273160776: 1, 0.1257156058118979: 1, 0.12570979289017623: 1, 0.12570633961237532: 1, 0.125704715882991: 1, 0.125687961347665: 1, 0.12565032864699904: 1, 0.12564675101012676: 1, 0.1256408978747302: 1, 0.125622332021371338: 1, 0.1256131773769382: 1, 0.12561281266101523: 1, 0.1256112002070981116: 1

0.125002233921574550: 1, 0.12500154775109502: 1, 0.12501204200404525: 1, 0.1250112237301410: 1, 0.1256026788968518: 1, 0.12558400289850713: 1, 0.12556783955798304: 1, 0.12556460769456082: 1, 0.12553379552074823: 1, 0.12549610022905336: 1, 0.12545035415922215: 1, 0.12544946184174882: 1, 0.1254278585525238: 1, 0.12542195080654223: 1, 0.1253963348366223: 1, 0.12539394467857107: 1, 0.12533722301950895: 1, 0.12533369923487986: 1, 0.12532810492116483: 1, 0.12532208193867847: 1, 0.12531289402493562: 1, 0.12531083811631458: 1, 0.12530688164765938: 1, 0.12530047799849883: 1, 0.12524472956427102: 1, 0.12523950108590232: 1, 0.12522469446551182: 1, 0.12521475617320127: 1, 0.12519860757530385: 1, 0.12519493732592274: 1, 0.12518136230425925: 1, 0.12517881505499995: 1, 0.12516192596169917: 1, 0.12515695625407486: 1, 0.12514364701316658: 1, 0.12514092112652161: 1, 0.125140647673766: 1, 0.12512137826996442: 1, 0.12508219035461116: 1, 0.125075097905003: 1, 0.1250582593406537: 1, 0.1250471954865953: 1, 0.12503038158090313: 1, 0.12500832386189814: 1, 0.125001972591756: 1, 0.12498661938341372: 1, 0.1249808343772374: 1, 0.12497375559029893: 1, 0.12496875802291488: 1, 0.12495137390039454: 1, 0.12490976792908888: 1, 0.12490571668227958: 1, 0.1249035030493473: 1, 0.12489512744929432: 1, 0.1248929952386923: 1, 0.12485829346407046: 1, 0.12485685757968679: 1, 0.12484979164944171: 1, 0.12483783529154088: 1, 0.12483452225749617: 1, 0.12483125926219547: 1, 0.12480348570465091: 1, 0.12480166672635742: 1, 0.12479651551412611: 1, 0.12479585362476772: 1, 0.12473301262312395: 1, 0.1247326443619858: 1, 0.12472351054780942: 1, 0.12466556821034425: 1, 0.12466401400030647: 1, 0.12465969086657253: 1, 0.12463979163403002: 1, 0.12459484344834967: 1, 0.12459006904300807: 1, 0.12458658912694967: 1, 0.12456971110864938: 1, 0.1245635719215685: 1, 0.12455113717739294: 1, 0.1245334682892786: 1, 0.1245257127454163: 1, 0.12451205711335447: 1, 0.12450566792433405: 1, 0.12449551851951071: 1, 0.12449295733549987: 1, 0.124485526106344: 1, 0.12447973899261815: 1, 0.12447426625962527: 1, 0.12447348580710721: 1, 0.1244661549001618: 1, 0.1244611684663297: 1, 0.1244535276989411: 1, 0.12441784765918715: 1, 0.1243761499411154: 1, 0.12436981938248484: 1, 0.12436293451574294: 1, 0.12436230836497554: 1, 0.12436069175770845: 1, 0.12436059206451304: 1, 0.124346093357474: 1, 0.12433266285289173: 1, 0.12432729772684827: 1, 0.12432380400394841: 1, 0.12431892308105995: 1, 0.12431224311379585: 1, 0.12430862134519402: 1, 0.12429508204454956: 1, 0.12428425300478073: 1, 0.1242685287521774: 1, 0.12426687945201668: 1, 0.12426278420942169: 1, 0.12425655450318374: 1, 0.12425460908037593: 1, 0.12425274785098532: 1, 0.12421455905807907: 1, 0.1242027609623382: 1, 0.12417274908797371: 1, 0.12415998701585101: 1, 0.12411934814672979: 1, 0.12411509327552891: 1, 0.12410746702605635: 1, 0.12404912721597558: 1, 0.1240229848614576: 1, 0.12400476491710824: 1, 0.12395827293080883: 1, 0.12395063719209842: 1, 0.12392639463211033: 1, 0.12392018348418717: 1, 0.12390074677391444: 1, 0.12388500060825695: 1, 0.12385862578704462: 1, 0.12385323393027405: 1, 0.12384471142225124: 1, 0.12383794126349586: 1, 0.12380979569925195: 1, 0.12380507499719327: 1, 0.12375792641283105: 1, 0.12375151410159993: 1, 0.12374594054534913: 1, 0.12373129116442926: 1, 0.12372818706922667: 1, 0.12371064543126817: 1, 0.12370003912025702: 1, 0.12369814624857571: 1, 0.12369306670816253: 1, 0.12368855664527868: 1, 0.12367338111643486: 1, 0.12366290279100968: 1, 0.12365769086386467: 1, 0.12363523109285698: 1, 0.12362595878424679: 1, 0.12360515321913465: 1, 0.12357693124083301: 1, 0.12357434596011628: 1, 0.12356654296016582: 1, 0.12356152592964956: 1, 0.12355680704238467: 1, 0.12355680165215868: 1, 0.12354694578316368: 1, 0.12353310309862268: 1, 0.12353164399323495: 1, 0.12351938326860146: 1, 0.1235170370632306: 1, 0.12350763740512925: 1, 0.12350093920962153: 1, 0.12350003251645265: 1, 0.12349648642376557: 1, 0.12349332362719545: 1, 0.12349178239249545: 1, 0.12347304807673484: 1, 0.12346738767870247: 1, 0.12346699663820355: 1, 0.12346282480914941: 1, 0.1234554411647409: 1, 0.1234247403859779: 1, 0.12341576790963636: 1, 0.12339335691372269: 1, 0.12335480203379799: 1, 0.1233525091570229: 1, 0.12334917364654145: 1, 0.12332507954387087: 1, 0.12332278257373507: 1, 0.1233189238727652: 1, 0.12331491325777436: 1, 0.12326817671212349: 1, 0.12324982575343948: 1, 0.1232415769621106: 1, 0.12321764001651807: 1, 0.1232103349353152: 1, 0.1232103157073408: 1, 0.12320692078543208: 1, 0.12318078444656363: 1, 0.12317586487751017: 1, 0.12316783853596601: 1, 0.12313739704773365: 1, 0.12310606564396001: 1, 0.12310476224720435: 1, 0.12308986257631652: 1, 0.12308160775987372: 1, 0.12306697604762086: 1, 0.12304947435352138: 1, 0.1230359053734023: 1, 0.12302042036340079: 1, 0.12301599309571049: 1, 0.12301245869577446: 1, 0.12298211040308299: 1, 0.122981165658427: 1, 0.12297938292643772: 1, 0.12297408769711723: 1, 0.12296246416237644: 1, 0.12293799812647374: 1, 0.12291984584053203: 1, 0.12291366699387465: 1, 0.12290920611291012: 1, 0.12289717948011081: 1, 0.12288554391171258: 1, 0.12287123344905095: 1, 0.1228598222948454: 1, 0.12283562676668795: 1, 0.12283524900336579: 1, 0.12282356129389992: 1, 0.12282089476139466: 1, 0.12280369979265052: 1, 0.12280043942817517: 1, 0.12278800819049476: 1, 0.12273401690690373: 1, 0.12273334994103921: 1, 0.12271172809968654: 1, 0.12270526283237955: 1, 0.12270513533670545: 1, 0.12269214981876359: 1, 0.12268809002151382: 1, 0.1226419730063866: 1, 0.12261320343660952: 1, 0.12257051821119352: 1, 0.1225674297154992: 1, 0.12256659601205494: 1, 0.12254602318079044: 1, 0.12253190841457118: 1, 0.1225268772959352: 1, 0.12249520043990891: 1, 0.12249035829558474: 1, 0.12249014441550346: 1, 0.12248184511033913: 1, 0.12248101177311309: 1, 0.1224654694227668: 1, 0.12245686777150071: 1, 0.12245109482295216: 1, 0.12243419455651945: 1, 0.12243168533170008: 1, 0.12243131738179201: 1, 0.12241007378238698: 1, 0.12240491893109809: 1, 0.12238562513683121: 1, 0.12238193790985817: 1, 0.12235696172228949: 1, 0.12234733392147895: 1, 0.12234275535433231: 1, 0.12233361292419849: 1, 0.12231815147470866: 1, 0.12231126334811247: 1, 0.12229678646548128: 1, 0.12228701486192925: 1, 0.12225409745315009: 1, 0.122226262786160606: 1, 0.12221201302210906: 1, 0.12220864032220748: 1, 0.12220429073521827: 1, 0.12220149178385875: 1, 0.12218823398416487: 1, 0.12217787646344877: 1, 0.12216271195372465: 1, 0.1221586460531231: 1, 0.12214445454238934: 1, 0.12214052649541711: 1, 0.12213679827846378: 1, 0.12211877243108323: 1, 0.12209784183622083: 1, 0.12208992101001177: 1, 0.12208134078124608: 1, 0.12206060946636117: 1, 0.12204755427230336: 1, 0.12204029810063967: 1, 0.12203380145123677: 1, 0.12202572365451035: 1, 0.12202436525832439: 1, 0.12202160506394572: 1, 0.1220124801552262: 1, 0.12200824630155797: 1, 0.12199536610425263: 1, 0.12199073801844702: 1, 0.12198687483575732: 1, 0.12198613130644013: 1, 0.12198006875769109: 1, 0.12197463325595402: 1, 0.12197032922377725: 1, 0.12191949447459856: 1, 0.12191629537245653: 1, 0.12188605137415581: 1, 0.121885933155244478: 1, 0.1218815422578926: 1, 0.12187951011230908: 1, 0.12186954302347652: 1, 0.12186576370525254: 1, 0.12183638541728116: 1, 0.12183583393287398: 1, 0.1218318329222898: 1, 0.1218295118918848: 1, 0.12180201826348494: 1, 0.121762221040673: 1, 0.12176117264521605: 1, 0.121750000001050501: 1, 0.121757611602111: 1

0.1211/02521241490/0: 1, 0.1211/011/204001090: 1, 0.1211/0000904000004: 1, 0.1211/0/01002141: 1,
0.1217569856985291: 1, 0.12175689974449476: 1, 0.12172224415052105: 1, 0.1217068372166685: 1,
0.12170617259106144: 1, 0.12169228851088969: 1, 0.12166680682125135: 1, 0.12166514989051941: 1,
0.1216330378826135: 1, 0.12163197564985084: 1, 0.1216162314908427: 1, 0.1216048210607232: 1,
0.12159897404719977: 1, 0.12157578566827895: 1, 0.1215746686719458: 1, 0.12156508495741097: 1,
0.12155871318556367: 1, 0.12155236025933616: 1, 0.12153272898554833: 1, 0.12151339652420375: 1,
0.12149115579616268: 1, 0.12142477300257982: 1, 0.12142362753262254: 1, 0.12141678828424185: 1,
0.12140751683186575: 1, 0.12140208743167812: 1, 0.12136499815188734: 1, 0.12135705604100666: 1,
0.12135696261416742: 1, 0.12134570826626483: 1, 0.1213448423703943: 1, 0.12133620246978971: 1,
0.12131972729427046: 1, 0.12131807970874862: 1, 0.12131272507258714: 1, 0.12125772762314084: 1,
0.12124132391595117: 1, 0.12121974919099099: 1, 0.12120212932942206: 1, 0.12119605305211255: 1,
0.12117324453349695: 1, 0.12113703426007591: 1, 0.12112317476321606: 1, 0.12112271645759982: 1,
0.12109105579061426: 1, 0.12108418297121792: 1, 0.12107749736140251: 1, 0.12107592938379926: 1,
0.12107215406035572: 1, 0.12104351024792268: 1, 0.12104035867774018: 1, 0.12097074039650399: 1,
0.12091951980331773: 1, 0.12089880761311396: 1, 0.12089784314332938: 1, 0.1208754746812021: 1,
0.12087160001072972: 1, 0.12084242269638107: 1, 0.12082904140734074: 1, 0.12081704062412953: 1,
0.12081426952569738: 1, 0.12080972487457932: 1, 0.12080947384275813: 1, 0.12073975397439328: 1,
0.1207362566872915: 1, 0.12072470335577491: 1, 0.12071714431210293: 1, 0.12068692567482295: 1,
0.12067370857977736: 1, 0.12067132881513618: 1, 0.1206633387988314: 1, 0.1206575298500049: 1,
0.1206497468891307: 1, 0.12064352291514843: 1, 0.12064200070698221: 1, 0.12063937334333617: 1,
0.12062454550934885: 1, 0.12061493052090565: 1, 0.12060921009586627: 1, 0.1206081461058507: 1,
0.12060540660772903: 1, 0.12056479450407054: 1, 0.12052134694093335: 1, 0.12050966706429389: 1,
0.12050453220035257: 1, 0.12050383007417147: 1, 0.12049665517866477: 1, 0.12049358337558591: 1,
0.12048562652720396: 1, 0.12047331680020228: 1, 0.12043755502769082: 1, 0.1204229120307683: 1,
0.12037144580087528: 1, 0.1203655950262615: 1, 0.12035788343262796: 1, 0.1203456084345993: 1,
0.1203365952502158: 1, 0.1203260391736763: 1, 0.12031678813912502: 1, 0.12029163303668833: 1,
0.12029038910027255: 1, 0.12028782381172932: 1, 0.1202721033579348: 1, 0.1202405032509381: 1,
0.12024013479148433: 1, 0.1202374970749248: 1, 0.12022809340957871: 1, 0.12022424827805106: 1,
0.12020636782357659: 1, 0.12020563541534865: 1, 0.12020505616307686: 1, 0.12019592391943135: 1,
0.12019013719039642: 1, 0.12015124409987385: 1, 0.12014516425841737: 1, 0.12014484205754986: 1,
0.12012504663355815: 1, 0.12012478357462109: 1, 0.12007525416656384: 1, 0.12006562741728367: 1,
0.12005971414225772: 1, 0.12005447549806339: 1, 0.12003401043437191: 1, 0.11999760929220127: 1,
0.11999306766380582: 1, 0.1199925702336363: 1, 0.11998617580580356: 1, 0.1199808571300029: 1,
0.11997889393364532: 1, 0.11997064104924395: 1, 0.11996982162181223: 1, 0.11994916481712159: 1,
0.1199483697676316: 1, 0.11994512325982257: 1, 0.11992156869631873: 1, 0.11991144544485399: 1,
0.11990827314884324: 1, 0.11989895579489995: 1, 0.11989389893469847: 1, 0.11986993301358072: 1,
0.11986977346310636: 1, 0.11986185943150936: 1, 0.11986177368123771: 1, 0.11981641517952259: 1,
0.11981303230141484: 1, 0.11979939928475225: 1, 0.11979599653684991: 1, 0.11977957535394601: 1,
0.11975577240236272: 1, 0.11974258446999055: 1, 0.11973402278874562: 1, 0.1197123940658104: 1,
0.11969433924644655: 1, 0.11969105416253542: 1, 0.11969015253179756: 1, 0.119686747556566: 1,
0.1196863164618471: 1, 0.11968448017464789: 1, 0.11967097953051412: 1, 0.11964968197202451: 1,
0.11963298426134693: 1, 0.11962167377666191: 1, 0.11961111423518717: 1, 0.11959739458142694: 1,
0.11959619445344848: 1, 0.11957870342868984: 1, 0.1195770464888443: 1, 0.1195447806409799: 1,
0.11951688767461713: 1, 0.11948411264742884: 1, 0.11947441825972813: 1, 0.11945336759395307: 1,
0.11944848228372319: 1, 0.11944263260193931: 1, 0.11941267526831205: 1, 0.11940628648800483: 1,
0.11940332566749895: 1, 0.11940006625345323: 1, 0.11939988771815084: 1, 0.11939981061498166: 1,
0.11939690967923526: 1, 0.1193896659466709: 1, 0.11938965565534078: 1, 0.11938217793426628: 1,
0.11936072374806371: 1, 0.11934555148860476: 1, 0.11934202148036085: 1, 0.1193079580682116: 1,
0.11930098420332749: 1, 0.1192996935710194: 1, 0.11929064045249597: 1, 0.11925259962265133: 1,
0.11923867375968954: 1, 0.11922456673740787: 1, 0.11919915247491801: 1, 0.11915506813453468: 1,
0.11915420166781358: 1, 0.11914723930820754: 1, 0.11914068018444712: 1, 0.11913543754974153: 1,
0.11910635885558014: 1, 0.11910014479469994: 1, 0.11907577435886484: 1, 0.11906518438270182: 1,
0.11906030795079046: 1, 0.1190462433407778: 1, 0.11904566555659629: 1, 0.11901364795468045: 1,
0.11898931678296194: 1, 0.11894437082282035: 1, 0.1189411210946761: 1, 0.11891553765271515: 1,
0.11887440773801139: 1, 0.11887359604712225: 1, 0.11885786842594866: 1, 0.11885437312541583: 1,
0.11884973167314417: 1, 0.11884160276783858: 1, 0.11883650458244621: 1, 0.11883037792170353: 1,
0.11882519971938471: 1, 0.11882047329634493: 1, 0.11881615650519128: 1, 0.11880613825321439: 1,
0.11879587081923644: 1, 0.11878429217895632: 1, 0.11877054648991447: 1, 0.11875339819809522: 1,
0.11874140967368657: 1, 0.11870783551270012: 1, 0.11869354020059508: 1, 0.11867916117734849: 1,
0.11867701768774307: 1, 0.11867255659409712: 1, 0.11866179907444604: 1, 0.11865932258491024: 1,
0.11864243434590213: 1, 0.11863995549806051: 1, 0.11863863359528286: 1, 0.11863182567486023: 1,
0.11861755527229723: 1, 0.11860399824570804: 1, 0.11860390854712292: 1, 0.11857004282614202: 1,
0.118568098342579: 1, 0.11853483214975992: 1, 0.11853357035618314: 1, 0.11851457115850086: 1,
0.11848044213696984: 1, 0.11847264177685879: 1, 0.11846053348153157: 1, 0.11845139113753633: 1,
0.11843460817194945: 1, 0.11840624990833262: 1, 0.1184006568632227: 1, 0.11839104931935325: 1,
0.11838947657391259: 1, 0.11838871661952093: 1, 0.1183587520132229: 1, 0.11834493313310869: 1,
0.11834413005082929: 1, 0.11834175873119569: 1, 0.11833881943430209: 1, 0.11833411452360679: 1,
0.1183324772406784: 1, 0.11833198622546556: 1, 0.11832522322557823: 1, 0.11829933280455662: 1,
0.11829209881765683: 1, 0.11829122494303392: 1, 0.11828722757035452: 1, 0.11828331212802944: 1,
0.11826494504057294: 1, 0.11825250531186927: 1, 0.11824748908024918: 1, 0.11824528935619583: 1,
0.11824517018740184: 1, 0.11822235964708802: 1, 0.11820896060952549: 1, 0.11819052415711184: 1,
0.11819023267473869: 1, 0.11817551680745404: 1, 0.11816897666077208: 1, 0.11816713238484496: 1,
0.11814146089505788: 1, 0.11814073396776455: 1, 0.11813508929136776: 1, 0.11810103892759834: 1,
0.11809067978963636: 1, 0.11808094532764893: 1, 0.11807789514054494: 1, 0.11807237352506: 1,
0.1180654296565203: 1, 0.11806457294207703: 1, 0.11806337166006414: 1, 0.11806059298256316: 1,
0.11805631435879455: 1, 0.1180140150648634: 1, 0.11799234337282274: 1, 0.1179813008167586: 1,
0.11796216629974494: 1, 0.11794672663679362: 1, 0.1179440088007258: 1, 0.11794187755252396: 1,
0.11700411201504050: 1, 0.11700120240750210: 1, 0.11700750000004000: 1, 0.11700105000011007: 1

0.11391328/24368534: 1, 0.1139110/41814194: 1, 0.1138810983153229: 1, 0.11386891094142038: 1, 0.11385261649418281: 1, 0.11384017419056988: 1, 0.11381608707266726: 1, 0.113809914968943: 1, 0.1137949228866702: 1, 0.11379090967236102: 1, 0.11372328464321584: 1, 0.11370237384000537: 1, 0.11369999764257477: 1, 0.11369454235822116: 1, 0.11369438094879268: 1, 0.11369027744144337: 1, 0.11368809794333941: 1, 0.11366924003327784: 1, 0.11365128321137127: 1, 0.11364659764786098: 1, 0.11364256513540207: 1, 0.11363614950044694: 1, 0.11362979219446057: 1, 0.11362728097636991: 1, 0.11362709902759192: 1, 0.11360635662565517: 1, 0.1135965628344335: 1, 0.11358977372618125: 1, 0.1135880769010802: 1, 0.11358590728756665: 1, 0.11353291974290013: 1, 0.11353135940157398: 1, 0.11351224518850389: 1, 0.11350086875907098: 1, 0.11349604685365038: 1, 0.11347614463923505: 1, 0.11345966451536742: 1, 0.11342430110326829: 1, 0.11342422952881791: 1, 0.11341472518255291: 1, 0.11341428352076764: 1, 0.11338965032616784: 1, 0.113377373689346: 1, 0.11337582102590125: 1, 0.11336487879962334: 1, 0.11336229965555929: 1, 0.11335473936476381: 1, 0.11335077142067473: 1, 0.11334254822140483: 1, 0.11333374004825562: 1, 0.11333062488252217: 1, 0.11328226710961348: 1, 0.1132801414487761: 1, 0.11327143212750408: 1, 0.1132421890808761: 1, 0.11324026704961877: 1, 0.11323925972452276: 1, 0.113220759936637: 1, 0.11320071544837693: 1, 0.11320033800881622: 1, 0.11317301738671141: 1, 0.1131634374911685: 1, 0.11316057691126485: 1, 0.11315073772790712: 1, 0.11311899300080226: 1, 0.11306848557419097: 1, 0.11304075539729282: 1, 0.1130389331759892: 1, 0.1130371875951281: 1, 0.11300623907162566: 1, 0.11300044682888334: 1, 0.11298334491301605: 1, 0.11294080604757213: 1, 0.11292584175039858: 1, 0.11292066473942187: 1, 0.11291621773392446: 1, 0.11291037032522996: 1, 0.11289288155833649: 1, 0.11288475006872038: 1, 0.11287146652108832: 1, 0.11286373826760827: 1, 0.1128570775655783: 1, 0.11284759082980388: 1, 0.11283299670706931: 1, 0.11282187124530917: 1, 0.11281618731543336: 1, 0.11280063272587648: 1, 0.11279749475075412: 1, 0.1127868823504327: 1, 0.1127709848880199: 1, 0.11272420106033824: 1, 0.11271552056117518: 1, 0.1127134821187988: 1, 0.11270809533363682: 1, 0.11269359665198377: 1, 0.11268184871856284: 1, 0.11265293449578741: 1, 0.11264516355315238: 1, 0.11264267790191439: 1, 0.11262838005740296: 1, 0.11262622210626413: 1, 0.11261560406135544: 1, 0.11261472050211574: 1, 0.11260187641481217: 1, 0.11259436379427822: 1, 0.11258658536911942: 1, 0.1125803638450824: 1, 0.11257739206327953: 1, 0.11257290412223953: 1, 0.11257241680424974: 1, 0.1125387772571764: 1, 0.11253765904610862: 1, 0.11253582812379721: 1, 0.11253456968089906: 1, 0.11253156840649883: 1, 0.11249501573907185: 1, 0.1124716105581172: 1, 0.11247119201070985: 1, 0.11245419887599195: 1, 0.11245094011929045: 1, 0.11243668214772633: 1, 0.11243114342171169: 1, 0.11242215365613498: 1, 0.11241701483658456: 1, 0.11238828115578449: 1, 0.11237577655694812: 1, 0.1123489763872256: 1, 0.11234634820196618: 1, 0.1123449658904545: 1, 0.11234144580884414: 1, 0.11231875642631192: 1, 0.11231821313683939: 1, 0.11231466876726909: 1, 0.11230201087285749: 1, 0.11230092274729671: 1, 0.11229706120513806: 1, 0.11229380215268088: 1, 0.11229107789065204: 1, 0.1122774983352744: 1, 0.11225947179619333: 1, 0.11225390938616965: 1, 0.1122420799649038: 1, 0.11222489175964254: 1, 0.11221417469017708: 1, 0.11220721104978897: 1, 0.11220558461342375: 1, 0.11215406750216937: 1, 0.11214062366862829: 1, 0.1121286646142442: 1, 0.11211064460899975: 1, 0.1120581164791957: 1, 0.11205337567931646: 1, 0.11204611043541672: 1, 0.1120330392006038: 1, 0.11202820595796881: 1, 0.11201905978523895: 1, 0.11201777957549848: 1, 0.1120090117082379: 1, 0.11200373389306623: 1, 0.11199842879517505: 1, 0.11199814134887073: 1, 0.1119944749552445: 1, 0.1119795911133516: 1, 0.11197663608300958: 1, 0.11197655836366631: 1, 0.11197014854347638: 1, 0.11196950278281473: 1, 0.11196790491746741: 1, 0.11193758353092091: 1, 0.11192526607925196: 1, 0.11190804340735483: 1, 0.11189462905920444: 1, 0.11188823399500984: 1, 0.11187826699774438: 1, 0.11186799441733375: 1, 0.1118548473675151: 1, 0.11185464309905147: 1, 0.1118313930568668: 1, 0.1118268517080206: 1, 0.11181088927552961: 1, 0.11180494709707364: 1, 0.1118029683329734: 1, 0.11180277645578757: 1, 0.11178882644275788: 1, 0.1117798941508313: 1, 0.11176183944552343: 1, 0.11175485331907163: 1, 0.11174045595635337: 1, 0.11172701710307166: 1, 0.11172015787014283: 1, 0.11169796788520843: 1, 0.11166022914160632: 1, 0.11165127899219665: 1, 0.11163716764573556: 1, 0.11157685967519085: 1, 0.11156184717457121: 1, 0.11149110918307037: 1, 0.11144921548791695: 1, 0.11143475951437558: 1, 0.1114312132192429: 1, 0.11141665331794179: 1, 0.1114119677719138: 1, 0.11135591731008897: 1, 0.11134600382612657: 1, 0.1113386450647622: 1, 0.11133588384620415: 1, 0.11133420977949149: 1, 0.11132868002589555: 1, 0.11132016228451008: 1, 0.11131816302304416: 1, 0.1113173313837661: 1, 0.1113124401126794: 1, 0.1112870167776541: 1, 0.11128618547491698: 1, 0.11127783858519805: 1, 0.11126643161396073: 1, 0.11125532454002215: 1, 0.11125527140152788: 1, 0.11122522895101637: 1, 0.1112234608763971: 1, 0.11121833667023433: 1, 0.11121742096313444: 1, 0.11120933758189004: 1, 0.11119111267050538: 1, 0.11117692982174518: 1, 0.1111766006232621: 1, 0.11116808828418427: 1, 0.11116680640801074: 1, 0.11114712377016124: 1, 0.11114569842836639: 1, 0.1111383131131507: 1, 0.11113696968547117: 1, 0.11113547335376148: 1, 0.11113309385447354: 1, 0.11112818586264983: 1, 0.11110798764968452: 1, 0.11110039738330203: 1, 0.11109000793414328: 1, 0.11107502958538099: 1, 0.1110619735788464: 1, 0.11105586436644703: 1, 0.11104972417025152: 1, 0.111098351721313048: 1, 0.111096408345941887: 1, 0.11091246969251087: 1, 0.11088526467283544: 1, 0.1108807119311675: 1, 0.11087365268534526: 1, 0.11086527150248113: 1, 0.11086073812381886: 1, 0.110847416074735: 1, 0.11084249940642274: 1, 0.11083658724375003: 1, 0.11082104351898042: 1, 0.11080612238931054: 1, 0.11080174990313058: 1, 0.11079954605985026: 1, 0.11079214192713939: 1, 0.11077269575196282: 1, 0.11077245455528359: 1, 0.11076618342323043: 1, 0.11076549676352336: 1, 0.11076340016427805: 1, 0.11073996111978263: 1, 0.11073373437139046: 1, 0.11073237607045319: 1, 0.11070096153563706: 1, 0.11068885008411525: 1, 0.11068779733107902: 1, 0.11068027391240998: 1, 0.11064438347347791: 1, 0.11063299549052015: 1, 0.11061903411675697: 1, 0.11061349337220056: 1, 0.11060067911840417: 1, 0.11058596416565455: 1, 0.11056374644921013: 1, 0.11056027266343273: 1, 0.11055091656797686: 1, 0.11054880645167933: 1, 0.11054638508232488: 1, 0.11053842914717127: 1, 0.11053668208255346: 1, 0.11053282207119358: 1, 0.11050513353508223: 1, 0.11049669549194986: 1, 0.11046894652540719: 1, 0.11046566763748722: 1, 0.1104573964746849: 1, 0.11044871163643781: 1, 0.11044817256993215: 1, 0.11044450869770446: 1, 0.11043573718099509: 1, 0.11043109846298174: 1, 0.11042974180856908: 1, 0.1104253233841009: 1, 0.11037580441177477: 1, 0.11036329389122132: 1, 0.11036168412632677: 1, 0.11036022070242003: 1, 0.11035669432891894: 1, 0.11034452834958704: 1, 0.11033880567442074: 1, 0.1103377202640249: 1, 0.11028017490101472: 1, 0.11025717808937863: 1, 0.11023640175185727: 1, 0.11022777323263545: 1,

0.11019283139804349: 1, 0.11019086767371539: 1, 0.11016071046096376: 1, 0.11011535889036603: 1,
0.11010449573586684: 1, 0.1101018685693167: 1, 0.1100817559474317: 1, 0.11004756936759617: 1,
0.11003653457746757: 1, 0.11002317337366871: 1, 0.10998205046974305: 1, 0.10998044964670274: 1,
0.10995386405768617: 1, 0.10995193671827518: 1, 0.10994712370641826: 1, 0.10994324063642726: 1,
0.10993395578642778: 1, 0.10992613600880814: 1, 0.10990782819952286: 1, 0.1098930882991553: 1,
0.10988392815892947: 1, 0.10988166741207737: 1, 0.10987884012346179: 1, 0.10987827515494178: 1,
0.10985713573700367: 1, 0.10985487211540322: 1, 0.10980581188703772: 1, 0.10979911868160236: 1,
0.1097951139418022: 1, 0.10979492416429082: 1, 0.10976708007612512: 1, 0.10976077557879853: 1,
0.10974237222572256: 1, 0.10971454476522899: 1, 0.10970099098802896: 1, 0.10968470634863173: 1,
0.10968376009453303: 1, 0.10968149698988257: 1, 0.10967382968799035: 1, 0.10966561904482487: 1,
0.10964777349327287: 1, 0.10964007314087132: 1, 0.10963814638945438: 1, 0.10962791411531968: 1,
0.10961860993883839: 1, 0.10961316112083239: 1, 0.10959687243797508: 1, 0.10959504090283223: 1,
0.10958170890500442: 1, 0.10956287397558502: 1, 0.10956054185479414: 1, 0.10952234566346729: 1,
0.1094973533734928: 1, 0.10949373500739029: 1, 0.10947640640000249: 1, 0.1094742782664548: 1,
0.10946394548920624: 1, 0.10946075410345019: 1, 0.10945549739071014: 1, 0.10944345734166269: 1,
0.10944202314641474: 1, 0.10943375290056602: 1, 0.10942725239173909: 1, 0.10942007224244213: 1,
0.10939470221329475: 1, 0.10933965908125501: 1, 0.10932261628935035: 1, 0.10931999025114343: 1,
0.1093149081535877: 1, 0.10931218611889054: 1, 0.10928642203982207: 1, 0.10928547605973109: 1,
0.10928489950315737: 1, 0.1092814176993607: 1, 0.10927849173010995: 1, 0.10925659164253515: 1,
0.10919276400270035: 1, 0.10918384275856896: 1, 0.10917406063388557: 1, 0.10917197662323258: 1,
0.10916993009327533: 1, 0.1091641968135352: 1, 0.10915915500241435: 1, 0.10914807135803725: 1,
0.10914334205412987: 1, 0.10913996137681135: 1, 0.10913831540526668: 1, 0.10912812493669505: 1,
0.10912789944017798: 1, 0.10910548743550111: 1, 0.10910082420237295: 1, 0.10905794729942918: 1,
0.10905237599101417: 1, 0.10905090971217242: 1, 0.10904678202997377: 1, 0.10902875519261881: 1,
0.10902761403015475: 1, 0.1090258942028236: 1, 0.109013569087896: 1, 0.10897853750085766: 1,
0.10894388536566889: 1, 0.10894030908761401: 1, 0.10892015576085627: 1, 0.10891394809994161: 1,
0.1089081752224142: 1, 0.1089000967124409: 1, 0.10890000132646874: 1, 0.10887968907437127: 1,
0.1088660835112495: 1, 0.10886366288269075: 1, 0.10884833737489583: 1, 0.10884230951157496: 1,
0.10883357855708674: 1, 0.10882029537558972: 1, 0.10878407434967782: 1, 0.1087316294266624: 1,
0.10871794155224591: 1, 0.10869575759111197: 1, 0.10869469957473529: 1, 0.10861525287812641: 1,
0.10860623396723632: 1, 0.10858844625852886: 1, 0.10858245067204995: 1, 0.10856263237393551: 1,
0.10854333653890819: 1, 0.10851108409231087: 1, 0.10850488744064048: 1, 0.10849578455493064: 1,
0.10849264628511221: 1, 0.1084897956801264: 1, 0.10848720474626242: 1, 0.10848697692815643: 1,
0.10847052547119686: 1, 0.1084613447413438: 1, 0.10845106846859243: 1, 0.1084401695026858: 1,
0.10843378126552057: 1, 0.10841941148785389: 1, 0.10841538902048069: 1, 0.10841275818698955: 1,
0.10841222084266858: 1, 0.10840541969320582: 1, 0.1083840635292337: 1, 0.10837416332177473: 1,
0.1083637941314032: 1, 0.10836241144182814: 1, 0.10835801160353994: 1, 0.10832589617812195: 1,
0.1083233246232093: 1, 0.10831569439710967: 1, 0.10831126833848113: 1, 0.10830833257066119: 1,
0.1082787608143122: 1, 0.10826526862352338: 1, 0.10824646846183464: 1, 0.10823037033410622: 1,
0.10821739217511082: 1, 0.10821504545684336: 1, 0.1082095020075592: 1, 0.10820779421491068: 1,
0.10819977215157234: 1, 0.1081900714882187: 1, 0.1081796191633255: 1, 0.10817960734439605: 1,
0.10816652210099188: 1, 0.10816206296667258: 1, 0.10815480779901501: 1, 0.10815367394961271: 1,
0.10814151933077337: 1, 0.10809162463618788: 1, 0.10808986652580362: 1, 0.10806492470905119: 1,
0.10806084144248095: 1, 0.10806037072018831: 1, 0.10802999632519072: 1, 0.10802222701531347: 1,
0.1080155001367469: 1, 0.10800327021711667: 1, 0.1079762925738618: 1, 0.1079752827412964: 1,
0.10795565759139934: 1, 0.10794671177786339: 1, 0.10793612094450387: 1, 0.10790528997019179: 1,
0.10790412179213721: 1, 0.10790223911504634: 1, 0.10788651515238262: 1, 0.10788650829905913: 1,
0.10787521855122073: 1, 0.10785786677753982: 1, 0.10784667591618471: 1, 0.10784640106230861: 1,
0.10781998159537992: 1, 0.10780936748496348: 1, 0.1077960690108425: 1, 0.10777372233160587: 1,
0.10776556568483367: 1, 0.10776257514364948: 1, 0.10773483987060682: 1, 0.10770507685145066: 1,
0.10769393043615239: 1, 0.1076916067907159: 1, 0.10767933073863704: 1, 0.10767918029039436: 1,
0.10767574542643563: 1, 0.10766489699263501: 1, 0.10766243005512137: 1, 0.10765429823197996: 1,
0.10764505532424268: 1, 0.10763001020270571: 1, 0.1076079334401031: 1, 0.10760086871640293: 1,
0.1075660113372447: 1, 0.10754000565623244: 1, 0.1075238369240761: 1, 0.10752275599548236: 1,
0.10751763733769439: 1, 0.10751477334016202: 1, 0.10747379847067026: 1, 0.10745948951727001: 1,
0.10743339464758697: 1, 0.10743109072293015: 1, 0.10741755164748061: 1, 0.10741599933963411: 1,
0.10738961424697015: 1, 0.1073882663471891: 1, 0.10737392921298065: 1, 0.10736967338415639: 1,
0.10735632589580453: 1, 0.10733803292461348: 1, 0.10733082408109523: 1, 0.10731314275163824: 1,
0.10728885282613906: 1, 0.10725586391954825: 1, 0.10725016594929074: 1, 0.10722117652365554: 1,
0.10720877966280869: 1, 0.10720618038301864: 1, 0.10720470967076585: 1, 0.10720448387876226: 1,
0.10717856124477708: 1, 0.10715355876030888: 1, 0.10714684716218281: 1, 0.10714633134865817: 1,
0.10714583625246071: 1, 0.10713403049911238: 1, 0.10711720768297628: 1, 0.10709363108252395: 1,
0.1070766011773209: 1, 0.10706475164917649: 1, 0.10704830220588639: 1, 0.10704040953505906: 1,
0.10703992205349275: 1, 0.10703905593345556: 1, 0.10702428096654688: 1, 0.10701815458434588: 1,
0.10701662208201614: 1, 0.1069976474656914: 1, 0.10699080486057556: 1, 0.10697994203901678: 1,
0.1069777005773584: 1, 0.10697551756286378: 1, 0.10696285306214148: 1, 0.10695470539580178: 1,
0.10693041780031405: 1, 0.10692993832210004: 1, 0.10691076118022115: 1, 0.1068826428140543: 1,
0.1068535084004779: 1, 0.10681108679519953: 1, 0.10680831081035408: 1, 0.10680477310064841: 1,
0.10680297612134308: 1, 0.10678367750308884: 1, 0.10677803079106717: 1, 0.10677184964106747: 1,
0.10676811099271336: 1, 0.10676431290723433: 1, 0.10676215205579297: 1, 0.1067469228760091: 1,
0.10674263658831887: 1, 0.10672903823040775: 1, 0.10670183332123888: 1, 0.10668700030173732: 1,
0.10668606029254328: 1, 0.106666744691816872: 1, 0.10665587855346563: 1, 0.10664629304199416: 1,
0.10661980270483938: 1, 0.1066000566185947: 1, 0.1065886450473358: 1, 0.1065854903021499: 1,
0.10658221995995923: 1, 0.1065809359047708: 1, 0.10657634349260672: 1, 0.10657380836720794: 1,
0.10656231714495773: 1, 0.1065599316401927: 1, 0.10653105626157174: 1, 0.10651999638122148: 1,
0.1065150825125801: 1, 0.10651328266633059: 1, 0.10651305172911237: 1, 0.10650396013906858: 1,
0.10650075727943041: 1, 0.1064935556014906: 1, 0.10647893075529555: 1, 0.10642010144880464: 1,

0.10641640094998711: 1, 0.10641377789622909: 1, 0.10639972470446274: 1, 0.1063761328879946: 1,
0.10634345075792533: 1, 0.1063404325296291: 1, 0.10628782781915368: 1, 0.10628764686603032: 1,
0.10626708563841658: 1, 0.10626660187530634: 1, 0.10626544030780613: 1, 0.1062633943717458: 1,
0.10626198084135009: 1, 0.10626089022313871: 1, 0.10624421054638693: 1, 0.106192726538558: 1,
0.10618014215589823: 1, 0.10617678993213826: 1, 0.10614046289534423: 1, 0.10612559223497092: 1,
0.10612505465305494: 1, 0.10610055255878978: 1, 0.10607447519848218: 1, 0.10607417903394117: 1,
0.10606873372025481: 1, 0.106036031832786: 1, 0.10601548858439555: 1, 0.10600187376974807: 1,
0.10598654264159078: 1, 0.10597489842695663: 1, 0.10596507943840527: 1, 0.10594357666286902: 1,
0.10593968227908938: 1, 0.10593514355247595: 1, 0.10593182019475947: 1, 0.10591752440315376: 1,
0.10588110487902365: 1, 0.10586926680057185: 1, 0.10584933633835704: 1, 0.10583624205007754: 1,
0.10582770517594398: 1, 0.10581477225222985: 1, 0.10581428245492978: 1, 0.10579086763118327: 1,
0.10578834911286841: 1, 0.10576246155207153: 1, 0.10574670150315417: 1, 0.10573135747766117: 1,
0.10571066042017457: 1, 0.10570616815109223: 1, 0.10569977347787711: 1, 0.10568884656787124: 1,
0.10567569516346308: 1, 0.10566339883407783: 1, 0.10565877463293905: 1, 0.10564913384107502: 1,
0.10563256051131076: 1, 0.10561066787938703: 1, 0.10560647213039276: 1, 0.10560275055198191: 1,
0.10559156484090466: 1, 0.10554505791858539: 1, 0.1055403192373714: 1, 0.10553348521310386: 1,
0.10552269656293973: 1, 0.10552247140107646: 1, 0.10552145871905673: 1, 0.10549073846836224: 1,
0.10548219195789298: 1, 0.10547260719313768: 1, 0.10544950241219275: 1, 0.10542202640013744: 1,
0.10540450947940251: 1, 0.1053986971549413: 1, 0.10538134577006074: 1, 0.10537934602653545: 1,
0.10536584253821406: 1, 0.10531831483086454: 1, 0.10531248450217248: 1, 0.10530241091369329: 1,
0.10529520568721534: 1, 0.10527974526249918: 1, 0.10525982224748541: 1, 0.10524293451135702: 1,
0.10522708711436214: 1, 0.10522334781250313: 1, 0.1052220473681149: 1, 0.1052175861839495: 1,
0.10519712483458603: 1, 0.1051955857552496: 1, 0.10519193423024673: 1, 0.10518936644196741: 1,
0.10515442750654586: 1, 0.10513857959124055: 1, 0.10512328626851093: 1, 0.10511864847248524: 1,
0.10511516300039839: 1, 0.10510406002522185: 1, 0.10509030598372596: 1, 0.1050727468108839: 1,
0.10506080404828451: 1, 0.10505290733137668: 1, 0.1050504250209068: 1, 0.10502620760018365: 1,
0.10502215202593039: 1, 0.10500811016177962: 1, 0.10498000269393183: 1, 0.10492118500307637: 1,
0.10491295166490051: 1, 0.10490978751822792: 1, 0.10488073718969325: 1, 0.10488032794203506: 1,
0.1048685982493179: 1, 0.10486315995340645: 1, 0.10485318522681916: 1, 0.10484964213688351: 1,
0.10482653992963804: 1, 0.10482632109713001: 1, 0.10482429945892731: 1, 0.1048197682945716: 1,
0.1048162377297066: 1, 0.104803083971536: 1, 0.10480107346462245: 1, 0.1047964356774752: 1,
0.10478514091472008: 1, 0.10477084330960229: 1, 0.10476371875517698: 1, 0.10475974916851719: 1,
0.10471563657811557: 1, 0.1047015892786856: 1, 0.10469533952097414: 1, 0.10468646890097823: 1,
0.1046843899677285: 1, 0.10467973561872146: 1, 0.10466824285547262: 1, 0.1046603143736697: 1,
0.10465166442802958: 1, 0.1046475039314819: 1, 0.10464531288003817: 1, 0.10464342825867401: 1,
0.10461679077096475: 1, 0.10461273352395122: 1, 0.10461032094064208: 1, 0.10460995103817967: 1,
0.10459251608348279: 1, 0.10458793630791538: 1, 0.10457960104201873: 1, 0.10457936216265212: 1,
0.10454909830565177: 1, 0.1045484178559966: 1, 0.10452338101366793: 1, 0.10448698534758258: 1,
0.10447661502305101: 1, 0.10447150809011077: 1, 0.10446025471445082: 1, 0.1044586471807386: 1,
0.1044349689685675: 1, 0.10443356154854963: 1, 0.10442129804866201: 1, 0.10441634516490464: 1,
0.10441633427924772: 1, 0.10440304270085607: 1, 0.10437334028249706: 1, 0.10435893174163817: 1,
0.10434463898982732: 1, 0.10434317007821584: 1, 0.10429771168934411: 1, 0.10429322037046715: 1,
0.10429104382987182: 1, 0.10425506549740297: 1, 0.10425466459982072: 1, 0.10423078191337713: 1,
0.10421982629853416: 1, 0.104211783388545: 1, 0.10417410754466482: 1, 0.10417347499624716: 1,
0.10412202281832547: 1, 0.10411912867430874: 1, 0.10411783751732794: 1, 0.1041099790235408: 1,
0.10409799526189768: 1, 0.1040865114933745: 1, 0.10404692029386682: 1, 0.10404604626561995: 1,
0.1040376691301249: 1, 0.10403730847863922: 1, 0.10403379799432762: 1, 0.10403149823579398: 1,
0.10402770002279024: 1, 0.10401539273128782: 1, 0.10401204830752395: 1, 0.10401154281762355: 1,
0.10400453046904463: 1, 0.10396197052241664: 1, 0.10393821883710441: 1, 0.10392241521895106: 1,
0.10392068200601101: 1, 0.10391240418979965: 1, 0.10390473701733893: 1, 0.10389242880206563: 1,
0.10387294529982136: 1, 0.10383307486007827: 1, 0.10382390813724546: 1, 0.10379657690018179: 1,
0.10378333838360905: 1, 0.1037794176898207: 1, 0.10377198472668114: 1, 0.1037495287344554: 1,
0.10374650366896428: 1, 0.10374578696367096: 1, 0.10373118449337942: 1, 0.10371849519570206: 1,
0.10371747759811839: 1, 0.10371397504402026: 1, 0.10369207100517229: 1, 0.10364660970847359: 1,
0.10363441795620743: 1, 0.1036246837516186: 1, 0.10362026047304568: 1, 0.10361588135032683: 1,
0.10358956021132747: 1, 0.10358057452137415: 1, 0.10357167700360667: 1, 0.10356251747721772: 1,
0.10355687857238877: 1, 0.10353769503211983: 1, 0.10353767115735348: 1, 0.10353460642906044: 1,
0.10353406878544331: 1, 0.10352718930478925: 1, 0.10352718441041936: 1, 0.1035219093687178: 1,
0.10350010057923549: 1, 0.10348479279072349: 1, 0.10347164033609038: 1, 0.10346910098847185: 1,
0.10345946509504117: 1, 0.1034475927389327: 1, 0.10344559781220972: 1, 0.10343551860350594: 1,
0.10342991219155283: 1, 0.10341650986599076: 1, 0.10340843557404843: 1, 0.10340162852162926: 1,
0.10338149132005443: 1, 0.10334741907132937: 1, 0.10334182883738777: 1, 0.1033270302490709: 1,
0.10332565638525373: 1, 0.10332528682183671: 1, 0.10330447482458167: 1, 0.10329935274080812: 1,
0.10328501173076765: 1, 0.10327701166516692: 1, 0.10326089877823164: 1, 0.10325889318457944: 1,
0.10325406386736034: 1, 0.10322158483736246: 1, 0.10320787966559565: 1, 0.10319669892362389: 1,
0.10317842008413244: 1, 0.10316351834647619: 1, 0.10314588317068385: 1, 0.10314138062483987: 1,
0.10312920123291065: 1, 0.10311723217857491: 1, 0.10310283380545214: 1, 0.10309203656429367: 1,
0.10307489153603014: 1, 0.10306913948949625: 1, 0.10305248587975936: 1, 0.10303949318389097: 1,
0.10303482291509165: 1, 0.10293991365609477: 1, 0.10293860668064816: 1, 0.10291940750053707: 1,
0.10291820207057022: 1, 0.10291815866289702: 1, 0.10291730632044821: 1, 0.10289937095317335: 1,
0.10289888922305147: 1, 0.10287041372128047: 1, 0.10286793496165103: 1, 0.10286710658526615: 1,
0.1028567273429422: 1, 0.10285073444067573: 1, 0.10284873544996787: 1, 0.10284576825008057: 1,
0.10284233043420887: 1, 0.10282762695505238: 1, 0.10278559829515094: 1, 0.1027799607825886: 1,
0.10276939755657631: 1, 0.10276016682725479: 1, 0.10270149584033486: 1, 0.10269964418766467: 1,
0.10267719623545374: 1, 0.10267373538625399: 1, 0.1026619989973578: 1, 0.10263489230660268: 1,
0.10262343225841297: 1, 0.10260904082957041: 1, 0.10259289357268385: 1, 0.10258990780048445: 1,
0.10258925664669735: 1, 0.1025827642899568: 1, 0.10255785936382181: 1, 0.10253898359103455: 1,

0.10250943178446464: 1, 0.10250425197549135: 1, 0.10248668712726969: 1, 0.10248538659862391: 1,
0.10248382081671348: 1, 0.10248119160910672: 1, 0.10245798274752183: 1, 0.10245441402325277: 1,
0.10245140411048216: 1, 0.10245140170425254: 1, 0.1024451374629691: 1, 0.10240834508033705: 1,
0.1024045339964785: 1, 0.10239829191498742: 1, 0.1023974488077612: 1, 0.10238674373735658: 1,
0.10238045481100905: 1, 0.10237756929464385: 1, 0.1023559561871814: 1, 0.1023285372824932: 1,
0.10232757886374752: 1, 0.10232308467388211: 1, 0.1023161052184398: 1, 0.1023069163425437: 1,
0.10227100591316357: 1, 0.10226005699174738: 1, 0.1022523220004069: 1, 0.10224665719200617: 1,
0.10223498925020054: 1, 0.1022229874491023: 1, 0.1022136003008164: 1, 0.10220337989747005: 1,
0.10219877668299332: 1, 0.10217101494568559: 1, 0.10216953663335011: 1, 0.10216848105017168: 1,
0.10215986633528382: 1, 0.10215679259247186: 1, 0.10215560394249391: 1, 0.10214808463003959: 1,
0.10211600365442805: 1, 0.10210449715113043: 1, 0.10210440211534523: 1, 0.1020918024450888: 1,
0.10208072224388962: 1, 0.10207691531540014: 1, 0.10207691065515724: 1, 0.10206695119451056: 1,
0.10205773469070331: 1, 0.10205468998065705: 1, 0.10202542560152929: 1, 0.10201551750419036: 1,
0.10197250093196733: 1, 0.10195199153473392: 1, 0.10194566835754036: 1, 0.10191732188910149: 1,
0.10191359874482062: 1, 0.10189190182106445: 1, 0.10186471982211483: 1, 0.10186342621920486: 1,
0.1018584050840523: 1, 0.1018119655960737: 1, 0.10181172441108949: 1, 0.1018046368433638: 1,
0.10180454347825786: 1, 0.1017854085565888: 1, 0.1017569126516377: 1, 0.10174968896811316: 1,
0.1017356055406894: 1, 0.10171275495309431: 1, 0.101674587822345: 1, 0.10167076670462305: 1,
0.10160134556494785: 1, 0.10159719914132138: 1, 0.10157478079198572: 1, 0.10156316403214986: 1,
0.10154788644622932: 1, 0.1015225968046334: 1, 0.10151751032050148: 1, 0.10151573653939987: 1,
0.10150711393241048: 1, 0.1014901056913591: 1, 0.10145813599816628: 1, 0.10145802401611476: 1,
0.10144519828154872: 1, 0.10143781427919972: 1, 0.10141571741367986: 1, 0.10141133045834136: 1,
0.10140899915087388: 1, 0.10139396520370468: 1, 0.10138550947258278: 1, 0.10137338890964338: 1,
0.10135961147644199: 1, 0.10135499064021355: 1, 0.10134629447591612: 1, 0.10134011622694973: 1,
0.10131926903414834: 1, 0.10130820252263156: 1, 0.10130397256892934: 1, 0.10129439778836706: 1,
0.10127749977481282: 1, 0.10126460211450358: 1, 0.10126224359335234: 1, 0.10125831193952774: 1,
0.10125377895567583: 1, 0.10120694875128093: 1, 0.10118928820874643: 1, 0.1011810003639732: 1,
0.10117106591359205: 1, 0.10117097803981534: 1, 0.101167874667099: 1, 0.10114566147215318: 1,
0.10114154081760374: 1, 0.10112135066468672: 1, 0.1011069969191839: 1, 0.1010768465362107: 1,
0.10107161006658064: 1, 0.101062891964613: 1, 0.1010522731717899: 1, 0.10105023103365852: 1,
0.1009937469345584: 1, 0.10098652051028227: 1, 0.1009710978170335: 1, 0.10096971427761042: 1,
0.10096677148248236: 1, 0.10096592681875158: 1, 0.10094410152613179: 1, 0.10094149609200063: 1,
0.10093726248665684: 1, 0.10089808940207365: 1, 0.10087526898130078: 1, 0.1008724017576343: 1,
0.10086791117166422: 1, 0.10084522575270949: 1, 0.10084354474017049: 1, 0.10083598596893087: 1,
0.1008177870215798: 1, 0.10081774802479194: 1, 0.10078344104388323: 1, 0.10077265523470455: 1,
0.10076004573199851: 1, 0.10075885560031252: 1, 0.10075487250777077: 1, 0.1007356809708167: 1,
0.1007302898454444: 1, 0.10068777156404433: 1, 0.10068060722935297: 1, 0.10067879908170208: 1,
0.10067184371016487: 1, 0.10066587778105907: 1, 0.10065780712906348: 1, 0.10065525320353914: 1,
0.10064003288619754: 1, 0.10063565344206997: 1, 0.10063435582632589: 1, 0.10061440051743464: 1,
0.10060086282333204: 1, 0.10059947951863471: 1, 0.10058322003803222: 1, 0.10055601109758672: 1,
0.1005532772972569: 1, 0.10055104334262202: 1, 0.1005380066930988: 1, 0.10052134269623117: 1,
0.1005070861265134: 1, 0.10049869897109157: 1, 0.10049359046488865: 1, 0.10047385253107494: 1,
0.10045999295263092: 1, 0.10043137347853928: 1, 0.10041986777328224: 1, 0.10041014786484352: 1,
0.10040769964511738: 1, 0.10040587101437953: 1, 0.10038345050337268: 1, 0.10037091972194073: 1,
0.10035404845949253: 1, 0.10035336346115122: 1, 0.10034389424350365: 1, 0.10033609614396444: 1,
0.10031254576723594: 1, 0.10030884894687707: 1, 0.10029450431485164: 1, 0.10029082922761996: 1,
0.10028575429350936: 1, 0.10026895191673121: 1, 0.10026195528090923: 1, 0.10022892044358422: 1,
0.10021494988936157: 1, 0.10020814482511892: 1, 0.10019601575674857: 1, 0.10018864080663556: 1,
0.10018863227249396: 1, 0.10016910904555835: 1, 0.10015558406056455: 1, 0.1001412323971381: 1,
0.10011969547124815: 1, 0.1001122651375477: 1, 0.10010413792409208: 1, 0.10010006394377273: 1,
0.1000983543637946: 1, 0.10007998095735002: 1, 0.1000780986799982: 1, 0.10006954620005909: 1,
0.10004885004582509: 1, 0.100042673394638: 1, 0.10004201103908927: 1, 0.10003039920047373: 1,
0.10001802873392629: 1, 0.10000862047783111: 1, 0.1000060302603877: 1, 0.09997595840625104: 1,
0.09997467149392164: 1, 0.09995613391010244: 1, 0.09995515022575355: 1, 0.09992961363226559: 1,
0.09990266459717284: 1, 0.09989931545917535: 1, 0.09988464690288573: 1, 0.09987883000916037: 1,
0.0998739082986986: 1, 0.09987234585134652: 1, 0.09986802751641058: 1, 0.0998556924030174: 1,
0.0998481921056802: 1, 0.09984727970537398: 1, 0.09982183696550359: 1, 0.09981776591852931: 1,
0.09981376144865317: 1, 0.09980435784964366: 1, 0.09979713562959111: 1, 0.0997863744301153: 1,
0.09975912042318302: 1, 0.09975243947536869: 1, 0.09974429066819791: 1, 0.09973842418378312: 1,
0.09970798300174043: 1, 0.09970055901972137: 1, 0.09968548323066302: 1, 0.09967473491312615: 1,
0.09967382457599491: 1, 0.09966722730808879: 1, 0.09964843477815749: 1, 0.09962312142630125: 1,
0.09961345199889932: 1, 0.0996133868025527: 1, 0.09960926453841569: 1, 0.09958602592212011: 1,
0.09958170039373111: 1, 0.09957753134607235: 1, 0.09957156503457805: 1, 0.09952250650791486: 1,
0.09951748095761621: 1, 0.09950854505136857: 1, 0.0994869031941914: 1, 0.0994740347411039: 1,
0.099460284295534: 1, 0.09945103765977613: 1, 0.09943569882560946: 1, 0.09942901549062053: 1,
0.09941526684489158: 1, 0.09941213764657823: 1, 0.09940170962768702: 1, 0.09939145575698219: 1,
0.09939049165817865: 1, 0.09938695236542797: 1, 0.0993771770794021: 1, 0.099370407640643: 1,
0.09934934280282612: 1, 0.09933525905869149: 1, 0.099331151620564: 1, 0.09931669750258965: 1,
0.09931239157897133: 1, 0.09927620874385522: 1, 0.09927224643027954: 1, 0.0992361598909744: 1,
0.09923283249812065: 1, 0.09922440728979705: 1, 0.09921561975309195: 1, 0.0992092625322263: 1,
0.09920867942404794: 1, 0.09918050958470774: 1, 0.09916691502123073: 1, 0.09915427541878923: 1,
0.09913133377372851: 1, 0.09912211062966196: 1, 0.09911299173512586: 1, 0.09910515308250478: 1,
0.09909394352566084: 1, 0.09908570651065239: 1, 0.09906468126209568: 1, 0.09905989681413042: 1,
0.0990512896904642: 1, 0.0990316007772835: 1, 0.09902780501473739: 1, 0.09902043340648993: 1,
0.09901046543714902: 1, 0.09900912734981407: 1, 0.09900823566971768: 1, 0.09899947186184374: 1,
0.09899256335409772: 1, 0.09898639797390843: 1, 0.09897961293281465: 1, 0.09897334392956755: 1,
0.09897196855966: 1, 0.09896931169924188: 1, 0.0989402206874143: 1, 0.09893272352136212: 1,

0.0989225703588806: 1, 0.09890212313541925: 1, 0.09890183413321464: 1, 0.09886710623501335: 1, 0.0988649213042563: 1, 0.09884238515624758: 1, 0.09883790785548836: 1, 0.09878984404222413: 1, 0.09878142557729745: 1, 0.09877687496354434: 1, 0.09877213641866343: 1, 0.09872883024948396: 1, 0.09870999647778694: 1, 0.09869876195631708: 1, 0.09869612239879019: 1, 0.09868184365111131: 1, 0.09867315534905333: 1, 0.09866636470860282: 1, 0.0986373109335193: 1, 0.09863716621961716: 1, 0.09863665258990904: 1, 0.09863446633240576: 1, 0.09859700265806577: 1, 0.0985908008346859: 1, 0.09859051821375395: 1, 0.0985831530128352: 1, 0.0985820098973702: 1, 0.09856700616230127: 1, 0.09854684774302844: 1, 0.09850581900677902: 1, 0.098498181641148: 1, 0.09848953148500961: 1, 0.0984687557922233: 1, 0.0984647227224505: 1, 0.09846404670514944: 1, 0.0984519958796688: 1, 0.09843783423130119: 1, 0.0984365200439634: 1, 0.098435734816084: 1, 0.09842855079589129: 1, 0.09842143538172175: 1, 0.09842000138162182: 1, 0.09841808400048284: 1, 0.09840716122382796: 1, 0.09839391508246242: 1, 0.09838179832637026: 1, 0.09838081055037365: 1, 0.0983600163430795: 1, 0.0983317638161092: 1, 0.09831965860420731: 1, 0.09830182418832646: 1, 0.09830174417874268: 1, 0.09827264245249251: 1, 0.09827011845771598: 1, 0.09825091066169112: 1, 0.09824611610157685: 1, 0.09824271117723446: 1, 0.09820107603374066: 1, 0.09819577751698405: 1, 0.09816300141186629: 1, 0.09815947128603905: 1, 0.09815669527815811: 1, 0.0981094745107081: 1, 0.0981087054436793: 1, 0.09808549140106856: 1, 0.09807782251278697: 1, 0.09805342067316197: 1, 0.09805011839328293: 1, 0.09804967056989057: 1, 0.0980405996239456: 1, 0.0980303481896002: 1, 0.09802578577297871: 1, 0.09802007724379777: 1, 0.09799233959989069: 1, 0.09799086410827461: 1, 0.09797401141294672: 1, 0.09796452426349264: 1, 0.09793892456404718: 1, 0.09790376635758051: 1, 0.09789627335964722: 1, 0.09788665479398784: 1, 0.097877386231161: 1, 0.09787105919523253: 1, 0.09786306577177549: 1, 0.09783966901501552: 1, 0.09783530876454553: 1, 0.09782380401134633: 1, 0.09781019046871002: 1, 0.09780937845625412: 1, 0.09780877266139827: 1, 0.09780308848803308: 1, 0.0978029186355394: 1, 0.09780218247677047: 1, 0.09777769777727773: 1, 0.09777444030917934: 1, 0.09777187232611484: 1, 0.09777136052030548: 1, 0.09776787475382555: 1, 0.09776486101250728: 1, 0.09774558171397128: 1, 0.09774312410175263: 1, 0.09773610352705703: 1, 0.09773001138475507: 1, 0.0977296466423758: 1, 0.0977274543978032: 1, 0.09771757773658528: 1, 0.09769906311734053: 1, 0.09769492025663715: 1, 0.09767525411519747: 1, 0.0976708129928093: 1, 0.09766337779549603: 1, 0.0976240250691471: 1, 0.09761328651720692: 1, 0.09760810299642204: 1, 0.09760238913456024: 1, 0.09758337826057638: 1, 0.09757798180165334: 1, 0.09756798018456488: 1, 0.09756761482159687: 1, 0.09756532959467143: 1, 0.09755827210488928: 1, 0.09755762908721265: 1, 0.09752942481493486: 1, 0.09752860081095756: 1, 0.09752636572199809: 1, 0.09752433811936728: 1, 0.09751914033589958: 1, 0.0975181278924797: 1, 0.09750635439382392: 1, 0.09750527784900444: 1, 0.09747793469808355: 1, 0.09746578570187703: 1, 0.09746476709582966: 1, 0.09745802289250795: 1, 0.09744517718286032: 1, 0.09744261308999377: 1, 0.09743331919751552: 1, 0.09742909197495925: 1, 0.09740786880237927: 1, 0.09735839974928098: 1, 0.09733902948316861: 1, 0.09732547573547293: 1, 0.09732459292306214: 1, 0.0973138143183031: 1, 0.09731106208755302: 1, 0.09730865658700737: 1, 0.09730753931552545: 1, 0.09729110265105467: 1, 0.09729032702331461: 1, 0.09728974237234533: 1, 0.09728365704611466: 1, 0.0972584052630634: 1, 0.09725263950340836: 1, 0.09724592259994383: 1, 0.09722532152534825: 1, 0.09721848040585268: 1, 0.09720729109685144: 1, 0.09719207062131009: 1, 0.09717915512932122: 1, 0.09716547427634269: 1, 0.09714279485870524: 1, 0.09713541230565303: 1, 0.09709915766590733: 1, 0.09709441802873127: 1, 0.09709296712173025: 1, 0.09708662109514007: 1, 0.09707280850001218: 1, 0.09705878939773141: 1, 0.09704377870861783: 1, 0.09704188594360674: 1, 0.09703717734421313: 1, 0.09703079184850788: 1, 0.09702918467003735: 1, 0.09702913185081465: 1, 0.09699663687276468: 1, 0.09697979595527045: 1, 0.0969757485093562: 1, 0.09696649835382291: 1, 0.09696190062287273: 1, 0.09691884481914129: 1, 0.09691322635074111: 1, 0.09690464618834259: 1, 0.09686132129070467: 1, 0.09685264115226955: 1, 0.09684405428259621: 1, 0.0968350892376805: 1, 0.09682425350119374: 1, 0.09682240300534936: 1, 0.0968193025264611: 1, 0.09681532059022108: 1, 0.09677827337068494: 1, 0.09675387096053077: 1, 0.09675383165315314: 1, 0.09674145552830817: 1, 0.09673445001762429: 1, 0.09672545166069424: 1, 0.09670928135872195: 1, 0.09670810763529666: 1, 0.09668651960954112: 1, 0.09665862346045241: 1, 0.09664427836107785: 1, 0.09663955621972051: 1, 0.09661456088006222: 1, 0.09657028449772552: 1, 0.09656029331182661: 1, 0.09655269704680608: 1, 0.09653278994248876: 1, 0.09652483013596992: 1, 0.09650317858755314: 1, 0.09649488559677287: 1, 0.09649254441465108: 1, 0.09647635446977115: 1, 0.09647579243057296: 1, 0.09647551102276378: 1, 0.09647073942340453: 1, 0.09646662634705437: 1, 0.0964661610981212: 1, 0.09645415555132121: 1, 0.09644802902665019: 1, 0.09644451360324949: 1, 0.09642167244066298: 1, 0.09641244803147472: 1, 0.0964109272533887: 1, 0.09640840011441186: 1, 0.0964057840253839: 1, 0.0964044999469654: 1, 0.09640395523727484: 1, 0.09640178737391976: 1, 0.0963864717043203: 1, 0.09636978097567944: 1, 0.09633112628262365: 1, 0.0963063586217559: 1, 0.09630534523332751: 1, 0.09630413278988081: 1, 0.09627577220012948: 1, 0.09627317756861715: 1, 0.09624603948536997: 1, 0.09624079123808191: 1, 0.09622909437395166: 1, 0.09622390643987656: 1, 0.09619393472702513: 1, 0.09618844773712629: 1, 0.09617101646431377: 1, 0.09615958148200625: 1, 0.09614259819214083: 1, 0.09613634796690607: 1, 0.09613006930657245: 1, 0.09612378648587061: 1, 0.096109502154776: 1, 0.09610165322725527: 1, 0.09609737651031372: 1, 0.09609304464189507: 1, 0.0960634584524736: 1, 0.09606181179680957: 1, 0.09605781646035404: 1, 0.09604951996241759: 1, 0.0960356839724347: 1, 0.09600974078160993: 1, 0.09600799488683455: 1, 0.09600683511267094: 1, 0.09600401112243828: 1, 0.09600234544012631: 1, 0.09600092270481005: 1, 0.0959743314343666: 1, 0.09597015452613844: 1, 0.09594740037643747: 1, 0.09594433855072296: 1, 0.0959365347474487: 1, 0.09592621509182175: 1, 0.09591632293064167: 1, 0.09590433590357139: 1, 0.0958998741489434: 1, 0.0958906793019909: 1, 0.09588071760115471: 1, 0.09587693454103104: 1, 0.0958687322732328: 1, 0.0958662492538371: 1, 0.0958594777317442: 1, 0.09585162040900669: 1, 0.0958466595151038: 1, 0.09583119232449704: 1, 0.09582568617417273: 1, 0.09581324995724749: 1, 0.09581308961327452: 1, 0.09581183000918106: 1, 0.09579543323398115: 1, 0.09578072367186916: 1, 0.0957477480406366: 1, 0.09573828633436503: 1, 0.09572219526209617: 1, 0.0957117096610636: 1, 0.09568603882202353: 1, 0.09566296759848499: 1, 0.09565232683482403: 1, 0.09564989878568012: 1, 0.09561833953815063: 1, 0.09561820104559712: 1, 0.09560914888066462: 1, 0.09559897628710091: 1, 0.09558996125071385: 1, 0.09556056934258259: 1, 0.09555783317938393: 1, 0.09554424075194903: 1, 0.09553569160826833: 1, 0.09553460742392025: 1, 0.09552573893934095: 1, 0.09551932958621474: 1, 0.09551305888196145: 1,

0.09551083412159657: 1, 0.09548914414103256: 1, 0.09548284309278914: 1, 0.0954770886187143: 1, 0.0954710420082726: 1, 0.09547019753674398: 1, 0.0954695635079714: 1, 0.09546840626901858: 1, 0.09546539662325684: 1, 0.09546524531875777: 1, 0.09546268777032596: 1, 0.09546033367631943: 1, 0.09544983541499978: 1, 0.09544062886045893: 1, 0.09543363574252785: 1, 0.09543141811841079: 1, 0.09543112987848652: 1, 0.09542776740080583: 1, 0.09540548250451648: 1, 0.09539520687532144: 1, 0.09538766172835454: 1, 0.09538602034934508: 1, 0.09538406240845904: 1, 0.09536326660441785: 1, 0.09535348644806808: 1, 0.09534356315134011: 1, 0.095343393577392: 1, 0.0953185550443057: 1, 0.09527771413450667: 1, 0.09524185569394658: 1, 0.09524055045438447: 1, 0.09522745080029063: 1, 0.09522043575990434: 1, 0.0952077040133217: 1, 0.09520031528263792: 1, 0.09519339536916732: 1, 0.0951915350867367: 1, 0.09518784850581898: 1, 0.09517268317279032: 1, 0.09516811086507544: 1, 0.0951694941360011: 1, 0.09514651932314118: 1, 0.09514622191359007: 1, 0.0951452551093166: 1, 0.09510254829953424: 1, 0.09509195514312041: 1, 0.09508019216017392: 1, 0.09507342924090927: 1, 0.0950604410636927: 1, 0.0950569033305735: 1, 0.09505477916272645: 1, 0.0950349337710619: 1, 0.09502701061002661: 1, 0.09502101833283491: 1, 0.0950201249130505: 1, 0.09501856145000998: 1, 0.09500813057089025: 1, 0.09499592603955619: 1, 0.09499411740056057: 1, 0.09499340865818506: 1, 0.09499036722005673: 1, 0.09498153024373118: 1, 0.09497351922118007: 1, 0.09493704897791433: 1, 0.09493690563148491: 1, 0.09491266137430038: 1, 0.09488860545897443: 1, 0.0948868567906388: 1, 0.09488433095461123: 1, 0.09487730692110047: 1, 0.09487534202052615: 1, 0.09486272509282015: 1, 0.09486096097000032: 1, 0.0948594419071902: 1, 0.09484722113994495: 1, 0.09484706197389219: 1, 0.09482355143885998: 1, 0.09481145981758292: 1, 0.09480767123006534: 1, 0.0947962244373408: 1, 0.09478735455717044: 1, 0.09477985661755722: 1, 0.09477760277055555: 1, 0.09477537595794344: 1, 0.09472644178043892: 1, 0.0947099432682326: 1, 0.09469865782396805: 1, 0.0946944983204073: 1, 0.09469019455145672: 1, 0.09467983656344028: 1, 0.09464600311287473: 1, 0.09463399231409442: 1, 0.09463209393723987: 1, 0.09463208278852879: 1, 0.09463203118685541: 1, 0.09462376384015267: 1, 0.09461591441720674: 1, 0.09461474600382536: 1, 0.09461109296769821: 1, 0.09459416782400284: 1, 0.09456862259005852: 1, 0.09453789639634545: 1, 0.09452186774324534: 1, 0.09449664239800029: 1, 0.09449383990983742: 1, 0.09449049597857838: 1, 0.09444612707694776: 1, 0.09442456199989469: 1, 0.09439495282762824: 1, 0.09434606207857466: 1, 0.09433532378131063: 1, 0.09431894631410814: 1, 0.0943069708202466: 1, 0.09430261418907294: 1, 0.09429372938158037: 1, 0.09427663621224736: 1, 0.09427313556607458: 1, 0.09426327133615414: 1, 0.09425194059225775: 1, 0.09424296053989067: 1, 0.09424134377173284: 1, 0.09422399753402404: 1, 0.09421567357360418: 1, 0.09419497530807863: 1, 0.09417587307817246: 1, 0.094171051335892: 1, 0.09417012874535886: 1, 0.09416893869313397: 1, 0.0941518551881244: 1, 0.09412035316879142: 1, 0.09411367939891453: 1, 0.09409367509008357: 1, 0.09409283544099913: 1, 0.09408379133468611: 1, 0.09408220137514255: 1, 0.09407942699699982: 1, 0.09406561496523978: 1, 0.0940339138582355: 1, 0.09402682787408366: 1, 0.09400762227841628: 1, 0.09396094213872544: 1, 0.0939561776676157: 1, 0.09395393508248867: 1, 0.09395225352510282: 1, 0.09395167473364835: 1, 0.09394817144206676: 1, 0.09394460338972518: 1, 0.0939296252631184: 1, 0.09392879426221994: 1, 0.09391978459088812: 1, 0.09389834707760575: 1, 0.09389199786701624: 1, 0.09388939386549247: 1, 0.09387917686334991: 1, 0.09387720965540675: 1, 0.09387684305773675: 1, 0.09387236063397023: 1, 0.09384558731823678: 1, 0.09384223021000487: 1, 0.09383912085912298: 1, 0.09383664638930203: 1, 0.0938347858085027: 1, 0.09379772430210719: 1, 0.09379353305315141: 1, 0.09377672163310914: 1, 0.09377605349340924: 1, 0.09376906806476722: 1, 0.09374724922393399: 1, 0.09374568022513269: 1, 0.09373749637845762: 1, 0.09373316342500099: 1, 0.09371725279022235: 1, 0.09371100093380685: 1, 0.09369602247748271: 1, 0.09368437558296577: 1, 0.0936794048039951: 1, 0.09366556507300071: 1, 0.09362888325898094: 1, 0.0936234422130196: 1, 0.0936061228986334: 1, 0.09360351632560276: 1, 0.09357252919522692: 1, 0.09357045638170831: 1, 0.0935586769737123: 1, 0.09355312501844103: 1, 0.0935503140743881: 1, 0.093549383253063: 1, 0.0935475215304522: 1, 0.0935372933494065: 1, 0.09353308676423382: 1, 0.093531497806629: 1, 0.09352542139550653: 1, 0.09351281621755966: 1, 0.09351084194628609: 1, 0.09351073801659764: 1, 0.09350115718014693: 1, 0.09350030457601224: 1, 0.09348416963697509: 1, 0.09348138606036432: 1, 0.09347330903497153: 1, 0.09345855762829326: 1, 0.09345704341162367: 1, 0.09344866793511315: 1, 0.09344551000804095: 1, 0.0934446777553844: 1, 0.0934222272824587: 1, 0.09341398645125676: 1, 0.0934071568828667: 1, 0.09339922493655134: 1, 0.09339590315242054: 1, 0.09335484998521769: 1, 0.093347953601881: 1, 0.09333951793988386: 1, 0.0933361693339965: 1, 0.09333386298059367: 1, 0.09333248786130957: 1, 0.09331846608164557: 1, 0.0933114401863379: 1, 0.09324297187420783: 1, 0.09322318034059039: 1, 0.09321784323227411: 1, 0.09321539736040131: 1, 0.09321121117762728: 1, 0.09318705514216408: 1, 0.0931868998535414: 1, 0.09317713791355185: 1, 0.09317656001647123: 1, 0.09316746067126865: 1, 0.09316571414677767: 1, 0.09316308245596627: 1, 0.09315691423930784: 1, 0.09315630538189046: 1, 0.09314577681824487: 1, 0.09314245660841652: 1, 0.09314050756178552: 1, 0.0931327862054551: 1, 0.0931257063108561: 1, 0.09307532261588389: 1, 0.09305693409203908: 1, 0.09304405174145905: 1, 0.09304079418839527: 1, 0.09303378624218961: 1, 0.09301393972109925: 1, 0.09299334110440147: 1, 0.09298786183759655: 1, 0.09298247374543823: 1, 0.09296428875076777: 1, 0.09295655493304376: 1, 0.09294477165475523: 1, 0.0929432370194635: 1, 0.09293999499021802: 1, 0.09292890048944402: 1, 0.09292613925409196: 1, 0.09290807918162025: 1, 0.09290676797794677: 1, 0.09290240532520587: 1, 0.09290159712385179: 1, 0.09289952719195625: 1, 0.09288721566477018: 1, 0.09287812747680893: 1, 0.09283714363239029: 1, 0.0928265758871818: 1, 0.09282602774130348: 1, 0.0928221764509931: 1, 0.092798519347363: 1, 0.0927970303454725: 1, 0.09279651968755512: 1, 0.09279389243419466: 1, 0.09279282887171647: 1, 0.09277267807147879: 1, 0.09275152162804579: 1, 0.09273591237318317: 1, 0.09273416372763663: 1, 0.09273369582022198: 1, 0.0927245997361129: 1, 0.0927104959436033: 1, 0.09265361349209836: 1, 0.09263525204569845: 1, 0.0926135054481581: 1, 0.09260917403618182: 1, 0.09260610242130148: 1, 0.0925867219834255: 1, 0.09256760872905276: 1, 0.09256034052063591: 1, 0.09255946769827002: 1, 0.09255938751469689: 1, 0.09255285836904602: 1, 0.0925514870804849: 1, 0.09253273539467387: 1, 0.09252818924243461: 1, 0.09251748987589231: 1, 0.09247059270081573: 1, 0.09245341019271558: 1, 0.09245266904464312: 1, 0.09241714350738202: 1, 0.09239977852753052: 1, 0.09236205458445872: 1, 0.09236184119195603: 1, 0.09235404162202535: 1, 0.09234613491562303: 1, 0.09231855374227808: 1, 0.09231357175453744: 1, 0.09229330646042894: 1, 0.09228799444748938: 1, 0.09227244863268992: 1, 0.09227152353141817: 1, 0.09222410257474022: 1, 0.09221215988722317: 1,

0.09217773901957865: 1, 0.09217175390900377: 1, 0.09216363337783563: 1, 0.09215562714831804: 1, 0.0921468385448278: 1, 0.09213752359162462: 1, 0.09212776790690017: 1, 0.09212116294983422: 1, 0.09210035993773703: 1, 0.09208498050148799: 1, 0.09208178606788464: 1, 0.09207650114493957: 1, 0.09207262189334171: 1, 0.0920679603003797: 1, 0.0920475320702099: 1, 0.09204084046474689: 1, 0.09201358063892036: 1, 0.09198976523661866: 1, 0.09198966966702059: 1, 0.09198066113865706: 1, 0.09197030835260195: 1, 0.09196580681666779: 1, 0.0919587838608471: 1, 0.09192421444989979: 1, 0.09192199071193127: 1, 0.09191658714257674: 1, 0.0919147003891698: 1, 0.09190372529212781: 1, 0.09189596712269973: 1, 0.09189595716522081: 1, 0.09189104819239523: 1, 0.09188990183891597: 1, 0.09187249837647063: 1, 0.09184867652716254: 1, 0.09184648494693747: 1, 0.09183180902355849: 1, 0.09181674447751563: 1, 0.09178761437619988: 1, 0.09177936480950925: 1, 0.0917736107071353: 1, 0.09177326741974169: 1, 0.0917710198879283: 1, 0.09177064492843313: 1, 0.0917623170117431: 1, 0.09173369886411177: 1, 0.09173182551337254: 1, 0.09173132575273901: 1, 0.09172446762783386: 1, 0.09171270870903556: 1, 0.09170659233435537: 1, 0.0917043641569938: 1, 0.09168839245090017: 1, 0.09167473466357262: 1, 0.09165226340536996: 1, 0.09160734504338357: 1, 0.09158787088755733: 1, 0.09157287914216422: 1, 0.09154837209271613: 1, 0.09154797608294642: 1, 0.09154459682525085: 1, 0.09153966212687273: 1, 0.09151058481102159: 1, 0.09150840771651253: 1, 0.09148838158036725: 1, 0.09148176618117172: 1, 0.0914775468057615: 1, 0.09147649691576626: 1, 0.09146672142078843: 1, 0.09146388617123793: 1, 0.09146306244229128: 1, 0.0914383160148339: 1, 0.09143390364197009: 1, 0.09143168380421052: 1, 0.09142193504018246: 1, 0.09139259457620574: 1, 0.09139005783833523: 1, 0.09138219825228203: 1, 0.09134832041135162: 1, 0.09134364604677021: 1, 0.09134299307116968: 1, 0.091316866156067: 1, 0.09131605608171048: 1, 0.09131387975055776: 1, 0.09130677408277582: 1, 0.0912979728943052: 1, 0.09127881331459532: 1, 0.09126994843222026: 1, 0.09126476611401649: 1, 0.09126470445228545: 1, 0.09126270764444286: 1, 0.09124314700975951: 1, 0.09124141530330028: 1, 0.0912406106133777: 1, 0.09123612048288188: 1, 0.09122966911844112: 1, 0.091223799749227: 1, 0.09117860336261002: 1, 0.09116839768381238: 1, 0.0911630265834401: 1, 0.09115242202954933: 1, 0.09114917375301233: 1, 0.09114499955787786: 1, 0.09113900372321924: 1, 0.09112850246715175: 1, 0.09112308737411735: 1, 0.09112293680816803: 1, 0.09112218060777467: 1, 0.09110978265914516: 1, 0.09109972708691531: 1, 0.0910903682006379: 1, 0.09107502006032286: 1, 0.09107213935245591: 1, 0.09106510777804301: 1, 0.0910600385415001: 1, 0.09105774046913809: 1, 0.0910209832532007: 1, 0.09101741169702385: 1, 0.09101042548405384: 1, 0.09099998918518917: 1, 0.09098994653564779: 1, 0.0909849963180433: 1, 0.09097593095348808: 1, 0.09096597572016941: 1, 0.09095670241735931: 1, 0.09095669562516824: 1, 0.09094834400316794: 1, 0.0909446791633368: 1, 0.0909289993618081: 1, 0.09092614058751067: 1, 0.09091985843259949: 1, 0.09089975430577593: 1, 0.09089961723526171: 1, 0.09089147895269903: 1, 0.09086749996222215: 1, 0.09086023062543687: 1, 0.09084803450103815: 1, 0.09082293630348812: 1, 0.09081962384402364: 1, 0.0908139875792503: 1, 0.09081026459944504: 1, 0.09079942501246661: 1, 0.0907948144964349: 1, 0.090782632685942: 1, 0.0907586146988688: 1, 0.09075137937549416: 1, 0.09075060760524378: 1, 0.09074202247655586: 1, 0.09073895585719678: 1, 0.09073665909459536: 1, 0.09072070949778603: 1, 0.0906992600270771: 1, 0.09069828774287303: 1, 0.09068540698364085: 1, 0.09067862738083003: 1, 0.09066904876688467: 1, 0.09066107912524983: 1, 0.09065937148844978: 1, 0.09063983429301249: 1, 0.09063587490021019: 1, 0.09063261605963666: 1, 0.09061768667809697: 1, 0.0906156047046178: 1, 0.09060962147826744: 1, 0.09059380602632172: 1, 0.09058801314429459: 1, 0.09058508097268356: 1, 0.09057285360814284: 1, 0.0905624863024606: 1, 0.090552807745996: 1, 0.09054446295904084: 1, 0.09054284015880458: 1, 0.0905367156280926: 1, 0.09053421698313638: 1, 0.09053135002070144: 1, 0.0905222111247099: 1, 0.09050880372138081: 1, 0.0905004938806634: 1, 0.09049628035923526: 1, 0.09049314678977388: 1, 0.09047612478094624: 1, 0.09046985132478752: 1, 0.09046762883808947: 1, 0.0904535752663844: 1, 0.09042044174065704: 1, 0.09041837066785688: 1, 0.09041781000977804: 1, 0.09037847269232932: 1, 0.09036897238349997: 1, 0.09036841793976248: 1, 0.09036120219680621: 1, 0.09035806816786632: 1, 0.09035122687890253: 1, 0.09032937088639162: 1, 0.09032355971696747: 1, 0.09031764266601258: 1, 0.09030969577728923: 1, 0.09030565180059257: 1, 0.0903042812949338: 1, 0.09029564510155097: 1, 0.09029188726395214: 1, 0.090290104079768: 1, 0.0902797904974229: 1, 0.0902712930893757: 1, 0.0902550039900466: 1, 0.09024045681896312: 1, 0.09023094924764358: 1, 0.09022834602503396: 1, 0.09021071503910594: 1, 0.09020619053606316: 1, 0.0901928182789901: 1, 0.09018008262528457: 1, 0.09017896028520199: 1, 0.09017471476135848: 1, 0.09016836244958439: 1, 0.0901511657974764: 1, 0.09014496121424512: 1, 0.09009687911613495: 1, 0.09009550989369937: 1, 0.09007535784265228: 1, 0.09005521772791646: 1, 0.0900543137704148: 1, 0.09005391884811746: 1, 0.0900295134215927: 1, 0.09002906177269832: 1, 0.0900279632626675: 1, 0.09002754213006683: 1, 0.09001395186216106: 1, 0.090001397020566: 1, 0.08998425184713067: 1, 0.08998160638323449: 1, 0.08997712326831143: 1, 0.08996961283932614: 1, 0.08996830350735326: 1, 0.08996039991878604: 1, 0.08995922717267704: 1, 0.08994409480979482: 1, 0.08992958141169592: 1, 0.08991797641303366: 1, 0.08991329636884857: 1, 0.08987800246580634: 1, 0.08986875230621538: 1, 0.0898556622360871: 1, 0.08985453286086356: 1, 0.08985234139129057: 1, 0.0898319832237055: 1, 0.08982472896323385: 1, 0.08981606701828253: 1, 0.0898105096859792: 1, 0.08980936688005015: 1, 0.08980172630077099: 1, 0.0897954915467167: 1, 0.08979097502295649: 1, 0.0897804556192847: 1, 0.08977780767735322: 1, 0.08975654414447663: 1, 0.08975248748001131: 1, 0.08975212126386266: 1, 0.08975159930034675: 1, 0.089736829766555636: 1, 0.08973544268089419: 1, 0.08972639820082078: 1, 0.08972473819601016: 1, 0.08971538553980703: 1, 0.08971355566759803: 1, 0.08970198435407362: 1, 0.08969917249385312: 1, 0.0896873743183317: 1, 0.08968168516688368: 1, 0.08967815347821712: 1, 0.08967412234606179: 1, 0.0896711900353064: 1, 0.089663449918408: 1, 0.0896581475734446: 1, 0.08963127143520909: 1, 0.0896004477618438: 1, 0.08959125459291523: 1, 0.08958632836065149: 1, 0.08957739758509439: 1, 0.0895766129433539: 1, 0.08955724021685987: 1, 0.08953040175404745: 1, 0.08951975454863292: 1, 0.0895141249286977: 1, 0.08950770631084064: 1, 0.08949992059633223: 1, 0.08949130464128485: 1, 0.0894831611888926: 1, 0.08947395064805226: 1, 0.08946493549536473: 1, 0.08945555378642592: 1, 0.08943507373016982: 1, 0.08940875380313193: 1, 0.08940547283113728: 1, 0.08939896446544049: 1, 0.08939661946043687: 1, 0.08939280328818089: 1, 0.08938795268177159: 1, 0.08937824998750059: 1, 0.08937750138043765: 1, 0.08936499669321149: 1, 0.08935821867689189: 1, 0.08935743196609006: 1, 0.08935607604068818: 1, 0.08934863722549376: 1, 0.08933685155114682: 1, 0.08931019281433658: 1, 0.08928086847205721: 1, 0.08927638540449147: 1,

0.08927025381143741: 1, 0.08926750588707738: 1, 0.08926254837756004: 1, 0.0892618024589498: 1, 0.08925096166240311: 1, 0.08924052187349418: 1, 0.08923475391418222: 1, 0.08922966853098643: 1, 0.08922437333056704: 1, 0.08921709883678092: 1, 0.0892166734468001: 1, 0.08919408452075617: 1, 0.08916977672272731: 1, 0.0891693996706659: 1, 0.08916788471372183: 1, 0.0891611372674752: 1, 0.089153788269575: 1, 0.0891366519873219: 1, 0.08909632967465102: 1, 0.08909599503586663: 1, 0.0890914423119575: 1, 0.08907905784143944: 1, 0.08907440434864596: 1, 0.08907436454980484: 1, 0.08906877999836696: 1, 0.08905783523058: 1, 0.08905728404099036: 1, 0.08904375168400114: 1, 0.08902765345989597: 1, 0.08901113955752207: 1, 0.0890109210750922: 1, 0.08899618173796162: 1, 0.08899546035315108: 1, 0.08899250097281926: 1, 0.08898147996007391: 1, 0.0889669842577595: 1, 0.088968010684136: 1, 0.08894081650218885: 1, 0.08893608914311696: 1, 0.0889348053255149: 1, 0.08890741615889844: 1, 0.08889965364385075: 1, 0.08889028910053873: 1, 0.08888737959947074: 1, 0.0888867487173379: 1, 0.08886836199950958: 1, 0.08886188537242294: 1, 0.08884925581176908: 1, 0.08883536613273137: 1, 0.08883416997497062: 1, 0.08883396069437935: 1, 0.08882733892561455: 1, 0.08881196413351804: 1, 0.0888079123305191: 1, 0.08880338333572935: 1, 0.08880131561682267: 1, 0.08878664256750267: 1, 0.08877064402291021: 1, 0.08874300598004382: 1, 0.08872611633880803: 1, 0.08868471777494608: 1, 0.08868257808359244: 1, 0.08868047125064389: 1, 0.0886755072091727: 1, 0.08866417583254552: 1, 0.08864682634138714: 1, 0.08864460360778888: 1, 0.08860587564967767: 1, 0.08860509259334545: 1, 0.08860273530871696: 1, 0.08858723201686207: 1, 0.08857932280999704: 1, 0.08857651563327297: 1, 0.08857344822389626: 1, 0.08856376314011336: 1, 0.08854061718710417: 1, 0.08853962912428243: 1, 0.08853752889559902: 1, 0.0885340896286029: 1, 0.08852945689714747: 1, 0.08851730697583723: 1, 0.08851639341757138: 1, 0.08851581263896811: 1, 0.08851505636035772: 1, 0.08850535895465829: 1, 0.08850502043944279: 1, 0.08850448295560533: 1, 0.0884945511822087: 1, 0.08847863238225515: 1, 0.088477426236822: 1, 0.08847560938730505: 1, 0.0884752851553785: 1, 0.08846820572128428: 1, 0.08846664717613005: 1, 0.08845732885117888: 1, 0.08844530313582576: 1, 0.08841727090380765: 1, 0.08841309188510088: 1, 0.08841022976415956: 1, 0.08840795741431093: 1, 0.08839655644087396: 1, 0.08839547917504859: 1, 0.08839361069969522: 1, 0.08836496814166073: 1, 0.08836422604722032: 1, 0.08836242731796166: 1, 0.0883535282199328: 1, 0.08834924784709394: 1, 0.0883208157691442: 1, 0.08831909225007917: 1, 0.08831274277505366: 1, 0.08831171044288721: 1, 0.08829874888004209: 1, 0.08829718529071882: 1, 0.08828545057633538: 1, 0.0882675556872667: 1, 0.0882618534980901: 1, 0.08826349699060751: 1, 0.0882623597122259: 1, 0.08825235160699885: 1, 0.08824891218909545: 1, 0.08824408708180038: 1, 0.0882399459163539: 1, 0.08823464359516511: 1, 0.08822598732395484: 1, 0.08822181822732399: 1, 0.08822116989579087: 1, 0.08820940825628669: 1, 0.08819777281498713: 1, 0.08819578819846935: 1, 0.08817167505406934: 1, 0.08817001166452972: 1, 0.08816702125872482: 1, 0.08816680251039084: 1, 0.08815603522214885: 1, 0.08813579581778498: 1, 0.08810983195617687: 1, 0.088108256786958: 1, 0.08810448119549212: 1, 0.08809802160298771: 1, 0.08807771120162068: 1, 0.08807655624942141: 1, 0.08806662823983272: 1, 0.08805748671785832: 1, 0.08805004322514004: 1, 0.08803656750604777: 1, 0.08802974845773301: 1, 0.0880098095719475: 1, 0.08799623792659365: 1, 0.08797651992167231: 1, 0.08795641614163613: 1, 0.08794958443110187: 1, 0.0879346001881346: 1, 0.0879238618259187: 1, 0.08789630524033756: 1, 0.0878915248209362: 1, 0.08788185470374765: 1, 0.08786737176021832: 1, 0.0878543990600185: 1, 0.08785329248404589: 1, 0.08783531006841812: 1, 0.08783476727372622: 1, 0.08781015609037958: 1, 0.08779945291507545: 1, 0.08776891168465914: 1, 0.08775178593621381: 1, 0.08775154223537675: 1, 0.08775144996395876: 1, 0.08773777187545805: 1, 0.08772462740462675: 1, 0.08771375149061234: 1, 0.08771201618365149: 1, 0.08771106438442239: 1, 0.08770070903883467: 1, 0.0876984056792958: 1, 0.08769630729304434: 1, 0.08768844963984876: 1, 0.08768732701196616: 1, 0.08768537819901048: 1, 0.08767923030185876: 1, 0.08766573725759916: 1, 0.08766515636429657: 1, 0.08763757323676627: 1, 0.08762817090790868: 1, 0.08762704300280445: 1, 0.08762309800995015: 1, 0.08761827016001797: 1, 0.08759730250791829: 1, 0.08757470013725101: 1, 0.08757250968712532: 1, 0.08757115639136501: 1, 0.08756329413255602: 1, 0.087550113274127: 1, 0.08754987076226772: 1, 0.0875489111658565: 1, 0.08754065837585204: 1, 0.08753220963008183: 1, 0.08752645894082223: 1, 0.08752579994484849: 1, 0.08752264065660668: 1, 0.08752140673495994: 1, 0.08751853132523685: 1, 0.0875006866209429: 1, 0.08749356628243597: 1, 0.08746207937607459: 1, 0.0874376893628635: 1, 0.08743685665221029: 1, 0.08740461481655377: 1, 0.08739943604815938: 1, 0.08739869103250392: 1, 0.08739480853695927: 1, 0.08739328805747726: 1, 0.0873871688454833: 1, 0.08737382567501945: 1, 0.08736285132800015: 1, 0.08734814167401429: 1, 0.08734167467745388: 1, 0.08733476405532781: 1, 0.08733148103922726: 1, 0.08732684758443358: 1, 0.08728292579428526: 1, 0.08727553784965153: 1, 0.08727451758733548: 1, 0.08726955340099468: 1, 0.08725695915226746: 1, 0.08725630007403837: 1, 0.08725449210991691: 1, 0.08723833280234079: 1, 0.0872225398599361: 1, 0.08722441494540911: 1, 0.08720406929522706: 1, 0.08719959105597169: 1, 0.08719685926450797: 1, 0.08719119235947323: 1, 0.08717863638519172: 1, 0.08717017665855734: 1, 0.0871514569985459: 1, 0.08714791400978367: 1, 0.08714391503394076: 1, 0.0871281830095875: 1, 0.08711637865503494: 1, 0.087103811356497: 1, 0.08707770831746584: 1, 0.08706800948809851: 1, 0.08703981227633577: 1, 0.08702264940351466: 1, 0.08702162573325488: 1, 0.08701985333405275: 1, 0.0870150999441847: 1, 0.08700294178789407: 1, 0.08699758713953273: 1, 0.08696656764744759: 1, 0.08696482283677787: 1, 0.08696226143507388: 1, 0.08694355145593075: 1, 0.0869428396145957: 1, 0.0869362629891391: 1, 0.08691886450664409: 1, 0.08691733510128415: 1, 0.08689905056611447: 1, 0.08689623750882852: 1, 0.08689060930125958: 1, 0.08684006901046544: 1, 0.08683183205405522: 1, 0.08682749308292724: 1, 0.08681763410341473: 1, 0.08681152285816109: 1, 0.08680972625152067: 1, 0.08680971952479495: 1, 0.08679978366599062: 1, 0.08679415394576089: 1, 0.0867707295527428: 1, 0.08676434496762159: 1, 0.08676421113727861: 1, 0.08676289566775715: 1, 0.08676098437425123: 1, 0.0867537811071019: 1, 0.08674828119080574: 1, 0.08674825745716286: 1, 0.08674437506423077: 1, 0.08674046001068898: 1, 0.08673503388088012: 1, 0.0867287124321432: 1, 0.0867249211809957: 1, 0.0867230318550545: 1, 0.08672166834790127: 1, 0.08670487193454754: 1, 0.08670411466450068: 1, 0.08669664350422901: 1, 0.08668457607388394: 1, 0.08668212011754055: 1, 0.08666143551441781: 1, 0.08665965798916292: 1, 0.08663823140859211: 1, 0.08663810543357647: 1, 0.08663154938051407: 1, 0.08662932025310285: 1, 0.08662499817470301: 1, 0.08662161860548755: 1, 0.08662130348991572: 1, 0.08661229797634987: 1, 0.08658558356081322: 1, 0.08657225121268074: 1, 0.08657154015613483: 1, 0.0865599578336445: 1, 0.08655853156281779: 1, 0.08655450904015119: 1, 0.08654874667261966: 1,

0.08653541284269108: 1, 0.08650638083991044: 1, 0.08649029306217978: 1, 0.08647521533476803: 1, 0.08646925307564637: 1, 0.08643123449518303: 1, 0.08643051424493307: 1, 0.08641932168148073: 1, 0.08641429919427263: 1, 0.08641248083623336: 1, 0.08641175119830587: 1, 0.08639898471280893: 1, 0.08639852164375751: 1, 0.08639596505811366: 1, 0.0863888146928226: 1, 0.08635967148779077: 1, 0.08635796541306938: 1, 0.08635609537330016: 1, 0.0863479809743861: 1, 0.0863435255192419: 1, 0.08634176060269796: 1, 0.08632262128232654: 1, 0.08631718111672809: 1, 0.0863031503634005: 1, 0.08629901514690083: 1, 0.08628748589754641: 1, 0.08627891749233416: 1, 0.08625471623704493: 1, 0.08625168139276486: 1, 0.08623670725386848: 1, 0.08623535216464083: 1, 0.08623369843100884: 1, 0.0862302015118383: 1, 0.086206649845216: 1, 0.08620019434829064: 1, 0.08619095465850898: 1, 0.08618225810978446: 1, 0.08617500397100167: 1, 0.08616261480993466: 1, 0.08614736500081051: 1, 0.0861325004910543: 1, 0.08613087171408464: 1, 0.08612882120603471: 1, 0.08612563305219481: 1, 0.08611205250347867: 1, 0.08610781273476131: 1, 0.08610502386625844: 1, 0.08609080951499687: 1, 0.08606368602058756: 1, 0.086051477451902: 1, 0.08605106096368281: 1, 0.08604556568239062: 1, 0.0860372741039202: 1, 0.08603633665630467: 1, 0.08603604609358778: 1, 0.08602622622262628: 1, 0.08599246400126886: 1, 0.08596372263846226: 1, 0.08595508308910184: 1, 0.08594142098330262: 1, 0.08591110301080032: 1, 0.08590180993986749: 1, 0.08585887500203289: 1, 0.0858546493550859: 1, 0.08584518692285455: 1, 0.08584415872936153: 1, 0.08584033891583157: 1, 0.08583919943179014: 1, 0.0858338381148278: 1, 0.0858337781154412: 1, 0.0858217185829338: 1, 0.08578407331106432: 1, 0.08578120533890524: 1, 0.0857794262215603: 1, 0.08577359870528507: 1, 0.08577240494563648: 1, 0.08575892918056777: 1, 0.08575595403314434: 1, 0.08574780613964754: 1, 0.08574052354439829: 1, 0.08573342855092425: 1, 0.08572153195335078: 1, 0.08571811279617444: 1, 0.08571549923271005: 1, 0.08567785316939468: 1, 0.08565637450748469: 1, 0.08565242072305015: 1, 0.08564549179280866: 1, 0.0856440110489698: 1, 0.08564364279070709: 1, 0.08560850499449935: 1, 0.0856032118511018: 1, 0.08560156594262353: 1, 0.08558755765581039: 1, 0.08558464036759969: 1, 0.08554969818177094: 1, 0.0855168944100638: 1, 0.08550772133601958: 1, 0.08549855158547029: 1, 0.08548371791351009: 1, 0.08547339327773308: 1, 0.0854695743429523: 1, 0.08546319441336295: 1, 0.08544896791186057: 1, 0.08543435084610373: 1, 0.08542465420950494: 1, 0.08542212915555351: 1, 0.0854006782142843: 1, 0.0853938369368068: 1, 0.08538679702063341: 1, 0.08538290761733391: 1, 0.08536700118012014: 1, 0.08536652718732961: 1, 0.08535686881007176: 1, 0.08534582513283365: 1, 0.08532947450075641: 1, 0.08529834468275778: 1, 0.0852950755125955: 1, 0.0852756395164209: 1, 0.08527154808974872: 1, 0.085265104626163: 1, 0.08526472339765635: 1, 0.08525581444582178: 1, 0.08525319756453559: 1, 0.08523294336976238: 1, 0.085228075338197: 1, 0.0852144480566469: 1, 0.08520968228641057: 1, 0.08520930347010577: 1, 0.08520443547913618: 1, 0.08519978738790197: 1, 0.08519278321556295: 1, 0.08519043823940352: 1, 0.08516369436428665: 1, 0.08514788990995695: 1, 0.08512424836689382: 1, 0.0851128370632302: 1, 0.08510623317173287: 1, 0.08510420525609225: 1, 0.08509844138887235: 1, 0.08509371782971979: 1, 0.0850869672930174: 1, 0.08508401058234381: 1, 0.08507361638000936: 1, 0.08505204445194806: 1, 0.08504901370449626: 1, 0.08503930206577784: 1, 0.08503317349127454: 1, 0.08502657858679313: 1, 0.08502181923062442: 1, 0.08500810447504265: 1, 0.08500436805457691: 1, 0.08499102919635203: 1, 0.08498487038402892: 1, 0.08498289980140222: 1, 0.0849774669333962: 1, 0.08495071808536102: 1, 0.0849452876332251: 1, 0.08494484349278639: 1, 0.08493891225849612: 1, 0.08491740174681651: 1, 0.08491096136778747: 1, 0.08490538190291956: 1, 0.08489988324125754: 1, 0.08489200619207857: 1, 0.08488820971773531: 1, 0.08488480321025275: 1, 0.0848838953640063: 1, 0.08488346472828942: 1, 0.08488091856100466: 1, 0.08487940147386992: 1, 0.08487858753329615: 1, 0.0848757414449505: 1, 0.084858061148745: 1, 0.0848440786985465: 1, 0.08483301021836404: 1, 0.08482775597171391: 1, 0.08481692804493958: 1, 0.08480418516157077: 1, 0.08479575771067006: 1, 0.08477246934233959: 1, 0.08477160397734455: 1, 0.08476853124541724: 1, 0.08476769261139228: 1, 0.084762944899333: 1, 0.08476613393829269: 1, 0.0847653231978368: 1, 0.08475491161976746: 1, 0.084723204031443: 1, 0.08472161913866381: 1, 0.08470274317550461: 1, 0.08469738040026831: 1, 0.08469681798868785: 1, 0.08468493971424798: 1, 0.08467665641045338: 1, 0.08467559816650853: 1, 0.08464701799499307: 1, 0.0846400297310913: 1, 0.08463747354696083: 1, 0.08460815632084492: 1, 0.08460160597715781: 1, 0.0845842372237779: 1, 0.08456576909870359: 1, 0.08454626651444509: 1, 0.08452771826482341: 1, 0.08452246434501645: 1, 0.08451171656405637: 1, 0.0845079212747479: 1, 0.08450667796615995: 1, 0.08446222138439301: 1, 0.08445302444734347: 1, 0.08444615453445967: 1, 0.08444349284028466: 1, 0.08444097462635103: 1, 0.08443599364210952: 1, 0.08443538066803086: 1, 0.08443472772614251: 1, 0.08442384768314402: 1, 0.08441270375935052: 1, 0.08440050330520579: 1, 0.08437161657634526: 1, 0.084365499970004: 1, 0.0843539089882955: 1, 0.08434898194680189: 1, 0.08434527212908718: 1, 0.08433714972650928: 1, 0.08432276257817309: 1, 0.08431422974382213: 1, 0.0843113131883683: 1, 0.08427670659116127: 1, 0.08427191916072341: 1, 0.08425453355732028: 1, 0.08425216575194494: 1, 0.08423541718125699: 1, 0.08421479443511494: 1, 0.08420613144206132: 1, 0.0842010634485206: 1, 0.08419899643370132: 1, 0.08418816062818298: 1, 0.08417451931559711: 1, 0.08417035288512181: 1, 0.08416250824787684: 1, 0.08415689899314951: 1, 0.08415546512063483: 1, 0.08414487656584438: 1, 0.08413811376478117: 1, 0.0841377878338192: 1, 0.08413131452851084: 1, 0.08412661211798053: 1, 0.08410055350995133: 1, 0.08409241659537459: 1, 0.0840884539438196: 1, 0.08408668418550652: 1, 0.08407914203423249: 1, 0.08406902908729452: 1, 0.08404087922742788: 1, 0.08402824104979167: 1, 0.08401878221880803: 1, 0.08401788919616508: 1, 0.08400847639956588: 1, 0.08400791481136635: 1, 0.08400386572593596: 1, 0.08398931218241136: 1, 0.08398109092104677: 1, 0.08398004400790647: 1, 0.0839729488918965: 1, 0.08397198641202759: 1, 0.08396885224634677: 1, 0.08395705647585497: 1, 0.08394635692446004: 1, 0.08394450558106706: 1, 0.0839354963642209: 1, 0.08392404546397128: 1, 0.08392231084976265: 1, 0.08391311725020283: 1, 0.0839103592224813: 1, 0.08390245854809984: 1, 0.08390046342578746: 1, 0.08388242808646003: 1, 0.08386248050464906: 1, 0.08385818339761439: 1, 0.08384964432821243: 1, 0.08384317615644796: 1, 0.08383893753670711: 1, 0.08383555643141198: 1, 0.08381961976514012: 1, 0.0838139970787823: 1, 0.08380732131081772: 1, 0.08380270661949475: 1, 0.0837918228547861: 1, 0.0837842253588334: 1, 0.08377812020112531: 1, 0.08375630237833198: 1, 0.08375563182916186: 1, 0.08373951960282268: 1, 0.08373302528075696: 1, 0.08373039013169202: 1, 0.08372604930655494: 1, 0.08372598776944913: 1, 0.08371297915490258: 1, 0.08369070441056176: 1, 0.08368365632794755: 1, 0.08368004127469912: 1, 0.08367565153832993: 1, 0.08367294709397899: 1, 0.08367154464513801: 1, 0.08367031066083239: 1, 0.08366646917546038: 1,

0.08365986728170595: 1, 0.08365698524882947: 1, 0.08365403245936912: 1, 0.08365231854668356: 1, 0.08364662107241592: 1, 0.08362556275657348: 1, 0.08361981850947982: 1, 0.08361591736640343: 1, 0.08361249254604923: 1, 0.08361145029847535: 1, 0.08358402843423816: 1, 0.08358194124615824: 1, 0.08358149874389109: 1, 0.08356670509598321: 1, 0.08356644370509324: 1, 0.0835556912222612: 1, 0.08354342983049055: 1, 0.08354253177316583: 1, 0.08352558328962635: 1, 0.08352535683922538: 1, 0.0835222566745642: 1, 0.08350010869220226: 1, 0.0834972887163958: 1, 0.08349714561678016: 1, 0.08348752756896083: 1, 0.08346376289113609: 1, 0.0834621881444371: 1, 0.08345835691101688: 1, 0.08345481034022936: 1, 0.08344835741564668: 1, 0.08343711379916252: 1, 0.08342481952003965: 1, 0.08341335926868658: 1, 0.08341129644384113: 1, 0.08341011311840064: 1, 0.08339975600671556: 1, 0.08339953120629875: 1, 0.08339886017898855: 1, 0.08338023124385373: 1, 0.08337430358941898: 1, 0.08335408008150712: 1, 0.08333727475099403: 1, 0.0833356334118891: 1, 0.0833318484083409: 1, 0.0833285230319283: 1, 0.08330838297214223: 1, 0.08327156702921835: 1, 0.08326974423464391: 1, 0.0832439911383468: 1, 0.08323231237102072: 1, 0.08322305595582681: 1, 0.08319302752876565: 1, 0.08317614843722942: 1, 0.08317557459301865: 1, 0.08316898719495656: 1, 0.08316860972967442: 1, 0.0831658137026745: 1, 0.0831649082201936: 1, 0.08316189251612226: 1, 0.0831592302089735: 1, 0.08312600529416607: 1, 0.08312059973076535: 1, 0.08309801358637958: 1, 0.08308610227693516: 1, 0.08307386371378062: 1, 0.08305526133077173: 1, 0.08305308735042277: 1, 0.08304949313798034: 1, 0.08304918765700112: 1, 0.0830397428453956: 1, 0.0830361020961495: 1, 0.08303208487409838: 1, 0.0830307709420483: 1, 0.08302032821592607: 1, 0.08301545606663033: 1, 0.0829989114112833: 1, 0.0829950073412792: 1, 0.08299103434648905: 1, 0.08299091977654363: 1, 0.08298165904481292: 1, 0.08297111395032955: 1, 0.0829651433463667: 1, 0.0829641277199599: 1, 0.08295660707692114: 1, 0.08294683776182557: 1, 0.08293097392189204: 1, 0.0829078395307186: 1, 0.08290615401922675: 1, 0.08289802433935725: 1, 0.08289534042847838: 1, 0.08287258703168109: 1, 0.0828621645508068: 1, 0.08285649843600597: 1, 0.08285115506082619: 1, 0.08284135163524593: 1, 0.0828329716149036: 1, 0.08282446103388078: 1, 0.08281763613489379: 1, 0.08281030960798313: 1, 0.08279536876419463: 1, 0.08279370915322462: 1, 0.08278491794182402: 1, 0.08276067458813843: 1, 0.08274084775007394: 1, 0.08272000497792706: 1, 0.08269939502297655: 1, 0.08268729151659934: 1, 0.08267439829384642: 1, 0.08267310241400039: 1, 0.08266707543361014: 1, 0.08266546168793776: 1, 0.08265348435606806: 1, 0.08264224238020647: 1, 0.08262008607744517: 1, 0.08259630281854669: 1, 0.08259580874503958: 1, 0.08259208659108414: 1, 0.08257502245264468: 1, 0.08257066967382164: 1, 0.08255458464899398: 1, 0.08254743642490465: 1, 0.08253801455774788: 1, 0.08252876919158833: 1, 0.0825259907812816: 1, 0.08252247520265558: 1, 0.08252161021542131: 1, 0.08252016208536109: 1, 0.08251961977234315: 1, 0.08250266957297553: 1, 0.0824919643049912: 1, 0.08248376527892338: 1, 0.08246931612549097: 1, 0.08245558831676024: 1, 0.08245341881318653: 1, 0.08244071366855048: 1, 0.08243766648958711: 1, 0.08243242031475165: 1, 0.08242694595228864: 1, 0.08242035446617688: 1, 0.08241088956359309: 1, 0.08240530643887976: 1, 0.08240127354449306: 1, 0.08238642410700941: 1, 0.0823846250158938: 1, 0.08237322708857933: 1, 0.08237155282580211: 1, 0.08236914647054971: 1, 0.08236458144230382: 1, 0.08234216104082114: 1, 0.08233426430013611: 1, 0.08229714048639547: 1, 0.08227030886559886: 1, 0.08226708885488959: 1, 0.08223604944283232: 1, 0.08222803982284413: 1, 0.08222358507441345: 1, 0.08219428406499743: 1, 0.08218832321640711: 1, 0.08217042601590949: 1, 0.08216401363566032: 1, 0.0821602357135215: 1, 0.08215870632383857: 1, 0.08213556820945024: 1, 0.0821206153696451: 1, 0.08211952895310777: 1, 0.08211295418800978: 1, 0.08211258157362723: 1, 0.08210497789187929: 1, 0.08209850872135793: 1, 0.08207037337359722: 1, 0.0820220861099913: 1, 0.08201019773525683: 1, 0.08200906552228619: 1, 0.08199007097006536: 1, 0.08198098896599222: 1, 0.08197358968345417: 1, 0.08196993038848903: 1, 0.08196605301688815: 1, 0.08196440428811308: 1, 0.08195483954180803: 1, 0.08194788234355974: 1, 0.0819370543290383: 1, 0.08193218607858946: 1, 0.08192695947132683: 1, 0.0819197982273668: 1, 0.08190555215736012: 1, 0.08187134135583686: 1, 0.08186935452438937: 1, 0.08185217068776185: 1, 0.08185024897304505: 1, 0.08184765669051643: 1, 0.08184568484055856: 1, 0.08184402112841249: 1, 0.08181192868076773: 1, 0.08180270162231693: 1, 0.08179157407188972: 1, 0.08177176241166813: 1, 0.08175733200043746: 1, 0.08175507029671436: 1, 0.08175511203536606: 1, 0.08173832853845328: 1, 0.08173809546066516: 1, 0.08171748107141856: 1, 0.08171289608434745: 1, 0.08170688687218514: 1, 0.08170036538156115: 1, 0.08169447531534468: 1, 0.0816897202955008: 1, 0.08168441631003497: 1, 0.08167388113592695: 1, 0.0816692322367885: 1, 0.08165572578766639: 1, 0.08165195332639358: 1, 0.08164871097518256: 1, 0.08164221925725956: 1, 0.0816255149048685: 1, 0.08161515499524162: 1, 0.08160810325766343: 1, 0.08159196845378983: 1, 0.08158159791676085: 1, 0.08156964974927847: 1, 0.08156578448397062: 1, 0.08156227309319108: 1, 0.08155269631136519: 1, 0.08153186678039857: 1, 0.08151562560332976: 1, 0.08151240480185852: 1, 0.08150894094198781: 1, 0.08150756252946748: 1, 0.08149018758710974: 1, 0.08147994377437866: 1, 0.08147757998517045: 1, 0.0814719303670719: 1, 0.08145949184002918: 1, 0.08145161022306462: 1, 0.08144483339008995: 1, 0.08144385190390692: 1, 0.08144339373276188: 1, 0.08143752314023271: 1, 0.0814219387164731: 1, 0.08141689273378695: 1, 0.0814069068724417: 1, 0.08139905996034259: 1, 0.08139657584132215: 1, 0.08139655883671976: 1, 0.08138941225914662: 1, 0.081383465916676: 1, 0.08136925969051761: 1, 0.08135569514347633: 1, 0.081352999969667278: 1, 0.08132877068112669: 1, 0.08131933694186058: 1, 0.08131496114143134: 1, 0.08131206641674427: 1, 0.0813073565030666: 1, 0.0812697648547465: 1, 0.0812687878357927: 1, 0.08125585666301523: 1, 0.08125436445476633: 1, 0.08124024186075898: 1, 0.08123766642760528: 1, 0.08122992012878491: 1, 0.0812265482842379: 1, 0.08121152914173911: 1, 0.08120942154956988: 1, 0.08119664658303175: 1, 0.08118302867263266: 1, 0.08118285220588636: 1, 0.08117644875784774: 1, 0.0811661102982981: 1, 0.08115840925430937: 1, 0.08114019652372914: 1, 0.08113732413793044: 1, 0.08113470377536446: 1, 0.08111084785140314: 1, 0.0810982116518651: 1, 0.08109800642040338: 1, 0.08109080070613355: 1, 0.08108749281411752: 1, 0.08107719696171377: 1, 0.08102130727940984: 1, 0.08102004249416718: 1, 0.08099934086033267: 1, 0.08099088325083284: 1, 0.08099025460766009: 1, 0.08097519154929093: 1, 0.08096080597566258: 1, 0.08094768788818225: 1, 0.08094467549716619: 1, 0.08094234313564659: 1, 0.08093646340613092: 1, 0.08093627663958403: 1, 0.08091770272494077: 1, 0.08089645007795973: 1, 0.08089273499951843: 1, 0.08088079185813707: 1, 0.08087996267411454: 1, 0.08086880552022103: 1, 0.08086606095828837: 1, 0.0808576538916978: 1, 0.08084316197556404: 1, 0.08084018482692679: 1, 0.0808399993808394: 1, 0.08083887484812598: 1, 0.0808187637372512: 1, 0.08080792461772378: 1, 0.08080630500873623: 1, 0.08079511958477818: 1,

0.08077866481231698: 1, 0.08077689293598307: 1, 0.08075909820983668: 1, 0.08075247099849694: 1,
0.08074991345226991: 1, 0.08073768205208523: 1, 0.08073073357321367: 1, 0.08072638034925128: 1,
0.08072286887994357: 1, 0.08070769085363351: 1, 0.08070362914205689: 1, 0.0806879995356013: 1,
0.08068563102681987: 1, 0.08068419715600476: 1, 0.08067032820418261: 1, 0.08066925931420897: 1,
0.08066427334548745: 1, 0.08066278228050679: 1, 0.08064365339271301: 1, 0.08062477277008342: 1,
0.08062469750113921: 1, 0.08062028127511375: 1, 0.0806137777681893: 1, 0.08060861744429802: 1,
0.08059889905594447: 1, 0.08057214726384135: 1, 0.08056338098647968: 1, 0.08054373059407066: 1,
0.08053875226862325: 1, 0.08053849439982241: 1, 0.08053732170855937: 1, 0.08050807064161355: 1,
0.08050077149790659: 1, 0.08049772341040648: 1, 0.08049359858401166: 1, 0.08049242872079711: 1,
0.08048181134058302: 1, 0.0804634892920854: 1, 0.08046112225623217: 1, 0.0804524382392351: 1,
0.08044927428753622: 1, 0.08044475396023695: 1, 0.08043629075528527: 1, 0.08043409260266193: 1,
0.08043390157076988: 1, 0.08041993162540594: 1, 0.08041205844626567: 1, 0.08041023460462722: 1,
0.08040898791693134: 1, 0.08040601768613521: 1, 0.08039833230449107: 1, 0.08039382970457673: 1,
0.08039097640732999: 1, 0.08036768099609357: 1, 0.0803595940599627: 1, 0.08035902873327835: 1,
0.08034730060273423: 1, 0.08034073032965916: 1, 0.0803345013782689: 1, 0.08031218577740758: 1,
0.08030007350098405: 1, 0.0802992002210815: 1, 0.08029785602646353: 1, 0.08028858677210086: 1,
0.08028156481556223: 1, 0.080254250415308: 1, 0.0802398075180236: 1, 0.08023625015761643: 1,
0.08022028795939364: 1, 0.08021811030271463: 1, 0.08021318765012873: 1, 0.08021306156945598: 1,
0.08021002402689348: 1, 0.0802059006635784: 1, 0.08019228181660217: 1, 0.08019056455653181: 1,
0.08018883042642244: 1, 0.08018452390566247: 1, 0.08017458136375538: 1, 0.0801706112365795: 1,
0.08016575304265094: 1, 0.08016444133020365: 1, 0.08016029616959741: 1, 0.0801523767414454: 1,
0.08014913282840745: 1, 0.08014099510218216: 1, 0.08013249874949545: 1, 0.08011672215999355: 1,
0.08010990314023404: 1, 0.08010530834262028: 1, 0.08010047112152278: 1, 0.08009918744063739: 1,
0.08009554110035152: 1, 0.08009123105689847: 1, 0.0800788765076423: 1, 0.08006368025243074: 1,
0.08005282197750506: 1, 0.0800296334760608: 1, 0.0800202917402732: 1, 0.08001387398648724: 1,
0.0800085453754158: 1, 0.08000357904270479: 1, 0.07997918741829675: 1, 0.07997229791147883: 1,
0.07994031724897452: 1, 0.07992887878852264: 1, 0.07988230222644034: 1, 0.07988022919180673: 1,
0.07987093391615481: 1, 0.07985129866648247: 1, 0.07984410019588446: 1, 0.07983772434435085: 1,
0.07983685413685923: 1, 0.07982989990534711: 1, 0.0798291620337192: 1, 0.07982183853979963: 1,
0.07981916205125396: 1, 0.07981792703362661: 1, 0.07980984074320162: 1, 0.0797908806875886: 1,
0.07977588887657876: 1, 0.07977412809941115: 1, 0.0797694462815473: 1, 0.07976741325249485: 1,
0.07975507217416199: 1, 0.07974213644852354: 1, 0.07973737419658058: 1, 0.07973041879086078: 1,
0.0797270272589772: 1, 0.07972453486894326: 1, 0.07971556135518265: 1, 0.07971492651570171: 1,
0.07970386895060137: 1, 0.07968994991676055: 1, 0.07968796701492559: 1, 0.07968478346337332: 1,
0.07968416752047676: 1, 0.07968282762044807: 1, 0.07967316549969022: 1, 0.07967097868944908: 1,
0.07967054268991577: 1, 0.07966944882831514: 1, 0.0796585712685423: 1, 0.07964315655111263: 1,
0.07962004859626122: 1, 0.0796175567609639: 1, 0.07961360514530477: 1, 0.07959158764026558: 1,
0.07958412708185869: 1, 0.07957992417789493: 1, 0.07957628438024149: 1, 0.079543849391109: 1,
0.07954190398889183: 1, 0.07945966489643679: 1, 0.07945867981636284: 1, 0.07945275519786904: 1,
0.07944105183261924: 1, 0.0794339748925461: 1, 0.07941802886939317: 1, 0.07941443793921549: 1,
0.0794069625823909: 1, 0.07940267862266488: 1, 0.07939115030122741: 1, 0.07937158929080872: 1,
0.07936960864240335: 1, 0.07936134740518103: 1, 0.07935121234239675: 1, 0.07935097676356799: 1,
0.07933697344332906: 1, 0.07932044852971509: 1, 0.07930961125966912: 1, 0.07930834622320178: 1,
0.07930299778109651: 1, 0.0792930500269583: 1, 0.07927389042005793: 1, 0.07927171179798027: 1,
0.07926905963191774: 1, 0.07926790964204818: 1, 0.07926563964411987: 1, 0.07925798728488145: 1,
0.07925215880957297: 1, 0.07924356234492852: 1, 0.07924323673699292: 1, 0.07923842806834985: 1,
0.07921958346914146: 1, 0.07921166607397212: 1, 0.07920310743140523: 1, 0.079202956105461: 1,
0.07920138891818003: 1, 0.07918315753057417: 1, 0.0791831483962357: 1, 0.07918296014099149: 1,
0.07918042932761003: 1, 0.07917502921312267: 1, 0.07917454256181902: 1, 0.07917309859136412: 1,
0.07916762412983011: 1, 0.07915153282642909: 1, 0.07914786098184219: 1, 0.07911474442735847: 1,
0.07910888942462607: 1, 0.07910875416079698: 1, 0.07910637513464934: 1, 0.07908720696089774: 1,
0.0790725280634283: 1, 0.0790685609541339: 1, 0.07905599495367378: 1, 0.07902776130575434: 1,
0.07902252640605847: 1, 0.07900828206736292: 1, 0.0790020921407028: 1, 0.0790019453386684: 1,
0.07900134211216149: 1, 0.07898855355122904: 1, 0.07898530815029839: 1, 0.07898236249979496: 1,
0.07897995011096359: 1, 0.07897624360109513: 1, 0.07897156620873047: 1, 0.07895188792733515: 1,
0.0789431613807606: 1, 0.07894315833878031: 1, 0.07892341073320501: 1, 0.07891531905903201: 1,
0.07891321062058163: 1, 0.0788801334155561: 1, 0.07887402866365492: 1, 0.07886937497183179: 1,
0.07886080584143176: 1, 0.07885860311786791: 1, 0.07883946461016514: 1, 0.07883778330861343: 1,
0.07882833556357718: 1, 0.07882634418488421: 1, 0.07882581385468065: 1, 0.0788150803259155: 1,
0.07881099448220652: 1, 0.0788016214272922: 1, 0.07879265724938396: 1, 0.078792552927553: 1,
0.07878692945453752: 1, 0.07877797225216102: 1, 0.07877762403166245: 1, 0.0787633618239002: 1,
0.07875385429295745: 1, 0.07872751293449108: 1, 0.07871999841215037: 1, 0.07870599261805719: 1,
0.07868490098170161: 1, 0.07867593400411367: 1, 0.07867053152979095: 1, 0.07866793138121855: 1,
0.0786539798016645: 1, 0.078654942080530101: 1, 0.07864654037796891: 1, 0.07864185716259059: 1,
0.0786311631753493: 1, 0.07863280425368842: 1, 0.07861607534396174: 1, 0.07859183070993696: 1,
0.07857910709603168: 1, 0.07857784505268221: 1, 0.07857373351471336: 1, 0.07855774504512408: 1,
0.07855195401238599: 1, 0.07853434565039763: 1, 0.0785296488754191: 1, 0.07850375962299017: 1,
0.0784949874401206: 1, 0.07848592262163394: 1, 0.07846548334840832: 1, 0.07846068979471146: 1,
0.0784414501862484: 1, 0.07844086218702133: 1, 0.07843506264315836: 1, 0.0784307980367682: 1,
0.07842421882556848: 1, 0.07840817725442514: 1, 0.07840656472732992: 1, 0.07839712446813084: 1,
0.07839625681230793: 1, 0.0783706928824579: 1, 0.07837022272634007: 1, 0.07835690603309306: 1,
0.07835402541484858: 1, 0.07832820606850882: 1, 0.07832116860680335: 1, 0.0782949754281249: 1,
0.07829398797052195: 1, 0.07829066632657111: 1, 0.07829048969477116: 1, 0.07827744285390602: 1,
0.0782682978561255: 1, 0.07826506672788898: 1, 0.07825699919771531: 1, 0.07823209835175743: 1,
0.07822665197553741: 1, 0.0781837956743454: 1, 0.07815968273565192: 1, 0.07815605847950181: 1,
0.07814969928782575: 1, 0.0781436248474722: 1, 0.07812598730242516: 1, 0.0781254884480839: 1,
0.07811310017232033: 1, 0.07810755486234819: 1, 0.07809876571646122: 1, 0.07807044646820092: 1.

0.07805856030316499: 1, 0.07805077487756527: 1, 0.07803787201077013: 1, 0.07802480981202674: 1, 0.0780172223919832: 1, 0.07801618744449809: 1, 0.07800672955420604: 1, 0.07799845323941342: 1, 0.0779907828713627: 1, 0.07798207844465915: 1, 0.07797491995888536: 1, 0.07796114916709047: 1, 0.07795386040511154: 1, 0.07795004283375935: 1, 0.07794129302620817: 1, 0.07793632550820118: 1, 0.07793287204701231: 1, 0.0779261912155748: 1, 0.07792520376525841: 1, 0.07792217412990377: 1, 0.0779220184032567: 1, 0.07792089768144753: 1, 0.07792036605412073: 1, 0.07791621971785162: 1, 0.07790954906269916: 1, 0.07790770238422276: 1, 0.07790053753554328: 1, 0.07789530410122886: 1, 0.07788773414239067: 1, 0.07788179063445624: 1, 0.07788045216076188: 1, 0.07787616622167662: 1, 0.07787352590201106: 1, 0.07786831171241641: 1, 0.0778597230145526: 1, 0.0778546271962426: 1, 0.07783396753314821: 1, 0.07782490111004252: 1, 0.0778179133441814: 1, 0.07781655915555867: 1, 0.07781391855631292: 1, 0.07780566565492947: 1, 0.07779131035616502: 1, 0.07778870431834456: 1, 0.07777761135766738: 1, 0.07777512896266932: 1, 0.07776013928598265: 1, 0.07775648217379674: 1, 0.07775447701149021: 1, 0.0777423546775899: 1, 0.07774126269445403: 1, 0.07773927345401166: 1, 0.07772665920872432: 1, 0.07771477905678612: 1, 0.07771458135362062: 1, 0.07769304815108974: 1, 0.07768636511310321: 1, 0.077675904080602: 1, 0.07767381504046915: 1, 0.07766784739570312: 1, 0.077660565697066: 1, 0.07766392284213959: 1, 0.07765900757286948: 1, 0.077652382322403: 1, 0.07763885911488189: 1, 0.07763452770776937: 1, 0.07762995899694553: 1, 0.07762557236161167: 1, 0.0776216154801229: 1, 0.07760000702623687: 1, 0.0775797092576275: 1, 0.07757410661815649: 1, 0.0775697812498: 1, 0.07756407938225895: 1, 0.07755830856618136: 1, 0.07755327170336507: 1, 0.07754404308383986: 1, 0.07754312224258449: 1, 0.07754262526331801: 1, 0.07754040714603071: 1, 0.07753816526553474: 1, 0.07753398750124578: 1, 0.07753001695070866: 1, 0.0775240739258775: 1, 0.07751333671883956: 1, 0.07751248912743154: 1, 0.07750966892351917: 1, 0.0775003698015833: 1, 0.0774849948377684: 1, 0.07748649973293917: 1, 0.0774755679369841: 1, 0.07747289321769767: 1, 0.07746005984766519: 1, 0.0774598943048329: 1, 0.07745971753060991: 1, 0.07745900947906804: 1, 0.07745481060751339: 1, 0.07744995414766832: 1, 0.07743950178734653: 1, 0.07742305302393011: 1, 0.07742091992254453: 1, 0.07741555255805577: 1, 0.07739815868231023: 1, 0.07738892088740472: 1, 0.07738848855014344: 1, 0.07737590736622964: 1, 0.07737502696255873: 1, 0.07737165097360434: 1, 0.07736073530602698: 1, 0.07734835856188411: 1, 0.07733797596109708: 1, 0.07733033906698036: 1, 0.0772862819955007: 1, 0.0772830983816215: 1, 0.07728058813216242: 1, 0.07725875523388313: 1, 0.07724524711570274: 1, 0.077243184297518: 1, 0.0772426251401601: 1, 0.0772338232436601: 1, 0.07721998600292972: 1, 0.07721396030223326: 1, 0.0772016349666166: 1, 0.07719196265219808: 1, 0.07717407743434633: 1, 0.0771704486879041: 1, 0.07716774480633534: 1, 0.0771612258143599: 1, 0.07715614400787571: 1, 0.0771361860249057: 1, 0.07713413104083479: 1, 0.07713283303967504: 1, 0.0771272325357873: 1, 0.07712014122723249: 1, 0.07711621728742027: 1, 0.07711097614424327: 1, 0.07710616394110428: 1, 0.07710396522895657: 1, 0.07710114032463437: 1, 0.07710068556975086: 1, 0.07708011851013376: 1, 0.07707847160722421: 1, 0.07704021515082751: 1, 0.07702404868505475: 1, 0.07701331740108924: 1, 0.07699977240399769: 1, 0.07699009684408945: 1, 0.07698426634239193: 1, 0.0769745718507608: 1, 0.07696799138787894: 1, 0.07696424286885861: 1, 0.07695676908559813: 1, 0.07694842754129891: 1, 0.07694302359438103: 1, 0.07693588682962972: 1, 0.07693425110357467: 1, 0.07693377634622602: 1, 0.0769137397850157: 1, 0.0769109039296794: 1, 0.07690196389800565: 1, 0.07689524990074671: 1, 0.07689383876433184: 1, 0.07689194317546212: 1, 0.07688720161531304: 1, 0.07688357941446691: 1, 0.07688092258441499: 1, 0.07687747289776334: 1, 0.0768743413194428: 1, 0.07687364807053251: 1, 0.07686800010208711: 1, 0.07686116817514486: 1, 0.0768601856820309: 1, 0.07686008223537645: 1, 0.07685810506678274: 1, 0.07685760900215224: 1, 0.07682415887060774: 1, 0.07678943592661353: 1, 0.0767882189963793: 1, 0.07678739009054508: 1, 0.0767791025606008: 1, 0.0767649683983189: 1, 0.07676376091736903: 1, 0.07675115152630865: 1, 0.07675104698818534: 1, 0.07674815010641187: 1, 0.07673480548197983: 1, 0.07672459867696914: 1, 0.07670782040432012: 1, 0.07670754844385068: 1, 0.07670045220956707: 1, 0.07669625688377393: 1, 0.0766919983096597: 1, 0.07669159596008528: 1, 0.07669140340879486: 1, 0.07668694842732665: 1, 0.07667348177741878: 1, 0.07666554421319977: 1, 0.07666533945733939: 1, 0.07666308377530227: 1, 0.07663723741451076: 1, 0.07661470605594609: 1, 0.07660810470662929: 1, 0.07658918641774493: 1, 0.076585108913244: 1, 0.07655974980410939: 1, 0.07655880462298933: 1, 0.07655737053224881: 1, 0.0765501468479867: 1, 0.07654678372597136: 1, 0.07654631922202386: 1, 0.0765335886156791: 1, 0.07652027440787329: 1, 0.07651799979723728: 1, 0.07651291527203602: 1, 0.0765115374754727: 1, 0.07649771304952709: 1, 0.07648595415518573: 1, 0.0764841659701125: 1, 0.07648348834825443: 1, 0.07647651491745837: 1, 0.07647336483254064: 1, 0.07647020480909113: 1, 0.07645983987807202: 1, 0.07645003798662672: 1, 0.07644543893540003: 1, 0.07644115606447388: 1, 0.07643508397895711: 1, 0.07643077284069189: 1, 0.07643009045856361: 1, 0.07642752322335607: 1, 0.07641753997026213: 1, 0.07641308806653428: 1, 0.07640580530805084: 1, 0.07640004986988015: 1, 0.07639193162043662: 1, 0.0763723696117242: 1, 0.0763683559929638: 1, 0.07636833130437713: 1, 0.07636686524588324: 1, 0.07634386554198516: 1, 0.07633048676850479: 1, 0.07633029219944253: 1, 0.0763089325126269: 1, 0.0762986016209495: 1, 0.07629736016974475: 1, 0.07628499826747345: 1, 0.07627963289428087: 1, 0.07625981426876846: 1, 0.07624345563835415: 1, 0.07621566194589044: 1, 0.0762104195373777: 1, 0.0762088195999715: 1, 0.07620107683522832: 1, 0.076187342694343: 1, 0.07618197044654174: 1, 0.07617718618663369: 1, 0.07617455889361555: 1, 0.07616911301477308: 1, 0.07615039539027921: 1, 0.07611239771074337: 1, 0.07609034575299589: 1, 0.0760876064705447: 1, 0.07607163284842133: 1, 0.07606684751323732: 1, 0.07603164603781494: 1, 0.07602300907652221: 1, 0.07602206699397675: 1, 0.07600564956001117: 1, 0.07599467456016035: 1, 0.07599139104935883: 1, 0.07598940948832615: 1, 0.07597336344765515: 1, 0.07596043606940582: 1, 0.07595183205270538: 1, 0.0759501194916662: 1, 0.0759462144921793: 1, 0.0759216041953891: 1, 0.07592139971008928: 1, 0.0759137008144976: 1, 0.07591186107034616: 1, 0.07591183836849084: 1, 0.07590817108519876: 1, 0.07589944757882697: 1, 0.07589436701640541: 1, 0.07589378279073544: 1, 0.075876190537857: 1, 0.07586517867094088: 1, 0.0758622679380786: 1, 0.07585853779801097: 1, 0.07585234953918872: 1, 0.07584890533132523: 1, 0.07583770763498249: 1, 0.0758307755642025: 1, 0.0758277630137044: 1, 0.07581903350755893: 1, 0.07581802102135872: 1, 0.07581658164269102: 1, 0.07581316240561377: 1, 0.07580984462666633: 1, 0.07580657987445927: 1, 0.07580327490453248: 1, 0.07576900996886234: 1, 0.07574089192991088: 1, 0.07573781061035088: 1, 0.07573777772693796: 1, 0.07572994937395584: 1, 0.07571992377544312: 1, 0.07571537369019274: 1

0.07570204403843389: 1, 0.07569679720802194: 1, 0.07569230992918641: 1, 0.07568764637368935: 1, 0.07567974353748341: 1, 0.07567675321093364: 1, 0.07566729089194779: 1, 0.07564822510968686: 1, 0.07563918451189539: 1, 0.0756286424092393: 1, 0.0756271583974828: 1, 0.07561804645835132: 1, 0.0755985122482161: 1, 0.07559779197021532: 1, 0.07559282113339535: 1, 0.0755909838557357: 1, 0.0755906766798263: 1, 0.07559041084290996: 1, 0.07558527210717227: 1, 0.07557386435613875: 1, 0.075569632964979: 1, 0.07556073288805024: 1, 0.0755406656471806: 1, 0.07553496981063576: 1, 0.07551252915635111: 1, 0.07551133848793051: 1, 0.0755077213812617: 1, 0.07550557044616059: 1, 0.07549683773533071: 1, 0.0754863694421971: 1, 0.07547138671388305: 1, 0.07547036551999584: 1, 0.07544545914994902: 1, 0.07544300650340179: 1, 0.07543099668319127: 1, 0.07542766642941891: 1, 0.07542172061842375: 1, 0.07541691607462073: 1, 0.07540570682191922: 1, 0.07539765915369595: 1, 0.07537670819021947: 1, 0.07536581600229372: 1, 0.0753643767415624: 1, 0.07536033141383844: 1, 0.0753526142609063: 1, 0.07534821835365896: 1, 0.07534552638328076: 1, 0.07533417348567269: 1, 0.07531766907979273: 1, 0.07531572646643026: 1, 0.07531464158825123: 1, 0.07529785708262683: 1, 0.07529216769727537: 1, 0.07529042795199477: 1, 0.07528777667247753: 1, 0.0752792699999456: 1, 0.07527145421970255: 1, 0.0752704242754504: 1, 0.0752626857918375: 1, 0.07525855498824752: 1, 0.07524269445295402: 1, 0.07524205219352323: 1, 0.075239642107117: 1, 0.0752382146166119: 1, 0.07523605575041502: 1, 0.07522930849476536: 1, 0.07522758857723702: 1, 0.07522652547393847: 1, 0.0752220009925852: 1, 0.07521393569409292: 1, 0.0752129243310206: 1, 0.07520942675745902: 1, 0.07519459569239328: 1, 0.07516794298462272: 1, 0.07514076722926201: 1, 0.07513862748473774: 1, 0.0751310325982014: 1, 0.07512229914090506: 1, 0.0751205731302475: 1, 0.07512024626835537: 1, 0.07511586277433199: 1, 0.07511361131163993: 1, 0.0751102718851685: 1, 0.07511019854880067: 1, 0.07510578436601321: 1, 0.07507915730587379: 1, 0.07506950813697166: 1, 0.07506698604087572: 1, 0.07506120459775063: 1, 0.07505942014777031: 1, 0.07504352900844674: 1, 0.07503872275744462: 1, 0.07503808851247558: 1, 0.07503744762898121: 1, 0.07503546333871836: 1, 0.07503492186684599: 1, 0.07502777322821236: 1, 0.075027270389082: 1, 0.07500711025115751: 1, 0.07499952351548043: 1, 0.0749979671811401: 1, 0.07499518526145482: 1, 0.0749928674555593: 1, 0.07498811054661439: 1, 0.07498687880408358: 1, 0.07496671557294407: 1, 0.07496532763214012: 1, 0.07496295346803014: 1, 0.0749425351899798: 1, 0.07493994140761476: 1, 0.0749174652855881: 1, 0.07490380292695806: 1, 0.0748995948385019: 1, 0.07488549127001197: 1, 0.07487713031276567: 1, 0.07487364092572447: 1, 0.0748683463881955: 1, 0.07485604361530905: 1, 0.07485503355259872: 1, 0.07485396870540591: 1, 0.07485377099174767: 1, 0.07484845510124387: 1, 0.07484810598452434: 1, 0.07484141399109899: 1, 0.0748371591639553: 1, 0.07482025183756842: 1, 0.07481366003765358: 1, 0.07480389238912391: 1, 0.0748031616406311: 1, 0.07479860506613442: 1, 0.0747919664583207: 1, 0.07477829616123569: 1, 0.0747440550723248: 1, 0.07473154177381906: 1, 0.0747206231398984: 1, 0.0747199431773958: 1, 0.07471901690197683: 1, 0.07469520732089469: 1, 0.07468097013405499: 1, 0.07467917266926506: 1, 0.07465047510021137: 1, 0.07464096770396657: 1, 0.07461763811558407: 1, 0.07461652919632546: 1, 0.07461288005961762: 1, 0.07461233781694589: 1, 0.07460717621532244: 1, 0.07459981809887656: 1, 0.07459681324925706: 1, 0.07459041918802074: 1, 0.07458962630196589: 1, 0.0745865240913381: 1, 0.07458330088529178: 1, 0.0745764518473398: 1, 0.07457173499209782: 1, 0.07456452332294829: 1, 0.07456417124390904: 1, 0.07455941341447347: 1, 0.07455571077981082: 1, 0.07455514184301851: 1, 0.07455070323691065: 1, 0.07454622304481587: 1, 0.07453728069381135: 1, 0.07453641874745708: 1, 0.07453614027383945: 1, 0.07453150119623528: 1, 0.07452470870212845: 1, 0.07451794873194317: 1, 0.0745149767952508: 1, 0.07450729981441813: 1, 0.07449037222585594: 1, 0.07448003081458461: 1, 0.07447685307945844: 1, 0.07446951891100788: 1, 0.07446130741282157: 1, 0.07446028893943388: 1, 0.07442858705153751: 1, 0.07442778312570328: 1, 0.07442408315639931: 1, 0.0744236424766011: 1, 0.07442060182275383: 1, 0.07441013754969841: 1, 0.07440320510245862: 1, 0.07438758184861156: 1, 0.07438691756913282: 1, 0.07438160386284905: 1, 0.07437733807914326: 1, 0.07437227519890642: 1, 0.07437147170199315: 1, 0.07436743897982104: 1, 0.07435497967574707: 1, 0.07435196096544868: 1, 0.07433835498603814: 1, 0.07433001810973676: 1, 0.07430434712215127: 1, 0.07429378855598638: 1, 0.07428951707064312: 1, 0.07428920944460951: 1, 0.0742812314696314: 1, 0.07424769061235469: 1, 0.07424004514548177: 1, 0.07423903054441605: 1, 0.07422912358676739: 1, 0.07422457193852325: 1, 0.07422305262179416: 1, 0.07422069781285491: 1, 0.07419301039927373: 1, 0.07417513362975968: 1, 0.07417495177095472: 1, 0.0741731663302527: 1, 0.074170186898106: 1, 0.07416926964552872: 1, 0.07415229670545204: 1, 0.07415210367926985: 1, 0.07414000968287313: 1, 0.07413593726752728: 1, 0.07412801170644907: 1, 0.07410817049128751: 1, 0.07407847990582728: 1, 0.0740770960589622: 1, 0.07405194985454525: 1, 0.07402153471299629: 1, 0.0740170697346475: 1, 0.074014331302562: 1, 0.07401183871371209: 1, 0.07401019855910444: 1, 0.07400990388387096: 1, 0.0740017005502396: 1, 0.07400084933980317: 1, 0.07399331514668898: 1, 0.0739876575580444: 1, 0.07398154599050173: 1, 0.07398118446927981: 1, 0.07397401606219045: 1, 0.07397200800425632: 1, 0.07396986583527157: 1, 0.07396155827384583: 1, 0.07394831024577309: 1, 0.07394718955469357: 1, 0.0739307082241788: 1, 0.07392667970755468: 1, 0.07390421523883034: 1, 0.0738738447212547: 1, 0.07384550482804128: 1, 0.07384222985254575: 1, 0.07383753047040742: 1, 0.07382192387676921: 1, 0.0738169498195269: 1, 0.07379777972989843: 1, 0.07378647486027687: 1, 0.07378308470706195: 1, 0.0737830724724615: 1, 0.07377770432343397: 1, 0.07377761644269441: 1, 0.07376281418347952: 1, 0.07374847820266837: 1, 0.0737301990869163: 1, 0.07371074702202732: 1, 0.07370797884750054: 1, 0.07368252280994708: 1, 0.07367875239674393: 1, 0.07367525081192895: 1, 0.07367309376171047: 1, 0.0736546397735262: 1, 0.07365411636131985: 1, 0.07364673991219606: 1, 0.0736454148875501: 1, 0.07362219239702598: 1, 0.07361802046248285: 1, 0.0736028807835416: 1, 0.07359973164120932: 1, 0.0735971095751002: 1, 0.07357064795270166: 1, 0.07355098682949321: 1, 0.07354570479069585: 1, 0.07352963906674291: 1, 0.07352095366589907: 1, 0.07351001169388043: 1, 0.0735085788173693: 1, 0.0735024824777147: 1, 0.07349983210675468: 1, 0.07349938938468384: 1, 0.07349591655320763: 1, 0.07349423319693983: 1, 0.07349191699977481: 1, 0.07348809568334687: 1, 0.0734856887276118: 1, 0.0734829767182094: 1, 0.07347810845558393: 1, 0.07346895852153076: 1, 0.07346833766735301: 1, 0.0734663666978591: 1, 0.07346306997223949: 1, 0.07345502412331167: 1, 0.07345386961641798: 1, 0.07344788320638457: 1, 0.07344647439638201: 1, 0.07343239905540559: 1, 0.07341282721163289: 1, 0.07340941929096459: 1, 0.07339224935719503: 1, 0.07338614762962406: 1, 0.07337979248161963: 1, 0.07337651747219076: 1, 0.07337515014736132: 1, 0.07337367115097147: 1, 0.07336396168049078: 1, 0.0733618730162306: 1

0.07331837233391973: 1, 0.07331348809976108: 1, 0.07330136171740737: 1, 0.07328746839210676: 1, 0.07328664390659684: 1, 0.07326997875603607: 1, 0.07326360360932317: 1, 0.07325837177907557: 1, 0.07325628805273274: 1, 0.07324974990126304: 1, 0.07324252139158836: 1, 0.07321659965506183: 1, 0.0732163275452975: 1, 0.0732152326586732: 1, 0.0732017538852529: 1, 0.07320085153172659: 1, 0.0731960890663726: 1, 0.07317277735619777: 1, 0.07312884986804336: 1, 0.07312450747919952: 1, 0.0731221985454712: 1, 0.0731133768289078: 1, 0.07310861442664465: 1, 0.07310651512101651: 1, 0.0730853348381667: 1, 0.07307169117804652: 1, 0.07306689036857919: 1, 0.07306098879131684: 1, 0.07306031010825392: 1, 0.07305498819785373: 1, 0.0730545109137259: 1, 0.07304485636142047: 1, 0.0730433274466252: 1, 0.07303359832650116: 1, 0.07302398307533604: 1, 0.07301933889018292: 1, 0.07301798810299012: 1, 0.07300195167696447: 1, 0.07299507364043702: 1, 0.07299233827748385: 1, 0.07298641657710396: 1, 0.07297411731269143: 1, 0.07297410316207643: 1, 0.07297080287115536: 1, 0.07296962495303141: 1, 0.07295364024884905: 1, 0.07293624005787158: 1, 0.07291820049649175: 1, 0.07291707785858242: 1, 0.07290385816885137: 1, 0.0728910183532592: 1, 0.07288552672121049: 1, 0.072882045270935: 1, 0.07287379499186361: 1, 0.07287357349531327: 1, 0.07286055122440735: 1, 0.07284592152947753: 1, 0.07283682143959667: 1, 0.07283476484576128: 1, 0.07282081554491858: 1, 0.0728194829146995: 1, 0.07281834527379119: 1, 0.07280073212538529: 1, 0.0727877887701075: 1, 0.07277663884796538: 1, 0.07275893888325141: 1, 0.07275521126725179: 1, 0.07275406601816592: 1, 0.07275095819067218: 1, 0.07274718000101539: 1, 0.07274158244209923: 1, 0.07273125086239697: 1, 0.07273031062916038: 1, 0.07272828462217346: 1, 0.07272765081938644: 1, 0.07272760742643775: 1, 0.07271769417952767: 1, 0.07270436425871842: 1, 0.07270227410342296: 1, 0.07269383805799273: 1, 0.07268774016520481: 1, 0.07267972531730536: 1, 0.07266553211786973: 1, 0.07265611371336367: 1, 0.07263664004876101: 1, 0.07263539410841365: 1, 0.072622914642806: 1, 0.07261865517259773: 1, 0.072607868517146: 1, 0.07259495307248451: 1, 0.07258638082847295: 1, 0.07258449634601986: 1, 0.07257657141968965: 1, 0.07256563580546986: 1, 0.07255486155146339: 1, 0.0725530847932589: 1, 0.07254965588451426: 1, 0.07253889915011803: 1, 0.07253474545634704: 1, 0.07253358074191069: 1, 0.0725309245212778: 1, 0.07253014187227684: 1, 0.07252624931594612: 1, 0.07252493712084328: 1, 0.07252005880733586: 1, 0.07251940836678836: 1, 0.07251756466149246: 1, 0.07250225587262671: 1, 0.07250150721815736: 1, 0.07249851525547343: 1, 0.07248408198193161: 1, 0.0724666673040612: 1, 0.072452787685504: 1, 0.0724479739059396: 1, 0.07243837974189009: 1, 0.07243558638871196: 1, 0.07243509014216813: 1, 0.07243407576302859: 1, 0.07241967039576357: 1, 0.07241956144703127: 1, 0.07241424930241291: 1, 0.07240179065419457: 1, 0.07239918965574323: 1, 0.07239246544406154: 1, 0.07238438880056514: 1, 0.07238436134963412: 1, 0.07238013796530127: 1, 0.07237972238043916: 1, 0.07236497229109473: 1, 0.07236047259483915: 1, 0.07235021955200273: 1, 0.07234995567240123: 1, 0.07234926209266672: 1, 0.07234058097959094: 1, 0.07233182875109834: 1, 0.07233105579545702: 1, 0.07231876352272862: 1, 0.07231832293247273: 1, 0.07231523472515229: 1, 0.07230962660572963: 1, 0.07230415201867392: 1, 0.07230268733446989: 1, 0.07229674838512806: 1, 0.07228993732081358: 1, 0.0722755711408651: 1, 0.07227296141154299: 1, 0.072258283450817: 1, 0.0722563812216526: 1, 0.07224405944288279: 1, 0.07223625947788508: 1, 0.07223514412127466: 1, 0.07220354943133377: 1, 0.0722027649732057: 1, 0.07219486772040118: 1, 0.07219106235540255: 1, 0.07218746186145782: 1, 0.07216875024612675: 1, 0.07216269689734728: 1, 0.07215635215603965: 1, 0.07214449111832383: 1, 0.07213066571315553: 1, 0.07211784721301373: 1, 0.0721157179102008: 1, 0.07211473189959755: 1, 0.07209956603875209: 1, 0.07208093083659672: 1, 0.07206695342959032: 1, 0.0720614013763304: 1, 0.07205488123634135: 1, 0.07203032706527022: 1, 0.07202730337961685: 1, 0.07202561152134233: 1, 0.07202050982830466: 1, 0.07202007324217909: 1, 0.07202004592461704: 1, 0.07200870762556706: 1, 0.07200799972056635: 1, 0.07200277827688825: 1, 0.07198021519298285: 1, 0.0719660269933268: 1, 0.0719596492189619: 1, 0.0719552538517181: 1, 0.07195380811753554: 1, 0.0719399188003847: 1, 0.071936260703487: 1, 0.07192257663125366: 1, 0.07192025215852443: 1, 0.07191807858965905: 1, 0.07191476705887949: 1, 0.0719099480838562: 1, 0.07187381403645487: 1, 0.07187154779568862: 1, 0.07186747347974383: 1, 0.07186451747829072: 1, 0.07185900957115711: 1, 0.07185644061181456: 1, 0.07183971200413594: 1, 0.07183097949893384: 1, 0.07182923548479517: 1, 0.07182834885972397: 1, 0.07181473157755437: 1, 0.07180376251839206: 1, 0.07180191436661626: 1, 0.07179659379516865: 1, 0.07179576201115798: 1, 0.07179247910330307: 1, 0.07179108130126374: 1, 0.07178743731044292: 1, 0.0717829362597848: 1, 0.07176999834426442: 1, 0.07176364944493899: 1, 0.07176292528946147: 1, 0.07175577141038329: 1, 0.07174919756770153: 1, 0.07174197554247: 1, 0.07172837611340517: 1, 0.07171471608352055: 1, 0.07171468402539016: 1, 0.07171411523252663: 1, 0.07169677146192523: 1, 0.07168465585584435: 1, 0.07168368822166675: 1, 0.07168209716990741: 1, 0.07167628407653735: 1, 0.07167529778745527: 1, 0.07167031847679904: 1, 0.07166890588818209: 1, 0.07166126795952041: 1, 0.07165872188270109: 1, 0.07165433297063056: 1, 0.07164973686337422: 1, 0.07164881745691097: 1, 0.07164148696519307: 1, 0.07163538896064248: 1, 0.07161297209742679: 1, 0.07160837150844293: 1, 0.07160253339885812: 1, 0.07160064536534341: 1, 0.07159946908603232: 1, 0.07159935559557316: 1, 0.07159305166269041: 1, 0.0715811556003247: 1, 0.07157121372723134: 1, 0.07153881279464062: 1, 0.07153666922315155: 1, 0.07153542636196193: 1, 0.07153312703877893: 1, 0.07153160309514972: 1, 0.07151957537390206: 1, 0.07151708385400794: 1, 0.0715169598315818: 1, 0.07149569641842712: 1, 0.07149520947066046: 1, 0.07147953576091969: 1, 0.07147657149474042: 1, 0.07147280289972703: 1, 0.07146247923902013: 1, 0.07146102939086618: 1, 0.07145273467572413: 1, 0.07143859686793953: 1, 0.07143847649326898: 1, 0.07143787329554727: 1, 0.07143767944876477: 1, 0.07142549321084483: 1, 0.07141923988897063: 1, 0.0714157524697138: 1, 0.0714147311195204: 1, 0.07141065834499313: 1, 0.0714099693567868: 1, 0.07140967615025394: 1, 0.07140918712392567: 1, 0.07140708731250238: 1, 0.07140072235358404: 1, 0.07138638771922674: 1, 0.07138506589485781: 1, 0.0713843329191031: 1, 0.07137818263080553: 1, 0.0713776043777231: 1, 0.07135583014382973: 1, 0.071335995566301502: 1, 0.07133563661228108: 1, 0.07133525638022122: 1, 0.07130358178335273: 1, 0.07128957711733186: 1, 0.07128721151075633: 1, 0.07127156288760389: 1, 0.07125866179035377: 1, 0.07125630412922798: 1, 0.07125610585670424: 1, 0.07123470347194646: 1, 0.07122023159409593: 1, 0.071219044221301: 1, 0.07121800236498821: 1, 0.07121656673251153: 1, 0.0712141391339412: 1, 0.07121214480617276: 1, 0.0712116492435701: 1, 0.0712033566827736: 1, 0.07119848242660017: 1, 0.07116396280773213: 1, 0.07116167145833786: 1, 0.07115104207362338: 1, 0.0711457800030015: 1, 0.0711324194418603: 1, 0.07112809725479684: 1, 0.07110748726134529: 1, 0.07110549125068065: 1, 0.07110114662828196: 1

0.0/112009/254/9004: 1, 0.0/110/40/20154029: 1, 0.0/11034912000000: 1, 0.0/110114002020190: 1,
0.07109726009504928: 1, 0.07109415022589965: 1, 0.07109277703606799: 1, 0.07108400300562862: 1,
0.07105356065914199: 1, 0.07104777069882008: 1, 0.07104170909749409: 1, 0.07103494565895607: 1,
0.07101424048259676: 1, 0.07099916738054834: 1, 0.07099843156640379: 1, 0.07099491674482211: 1,
0.07099463260282099: 1, 0.07096835224033772: 1, 0.07095618128111313: 1, 0.07095282459576763: 1,
0.0709499051741913: 1, 0.07094813707191151: 1, 0.07094572127563491: 1, 0.0709418384226217: 1,
0.07093958777328811: 1, 0.07093887533231975: 1, 0.07093274603179459: 1, 0.0709282341641792: 1,
0.0709161647802124: 1, 0.07089542144313848: 1, 0.07087785693441156: 1, 0.0708676343220691: 1,
0.07086462059054507: 1, 0.07086028918162443: 1, 0.07085785254623062: 1, 0.07083776135722904: 1,
0.07083735510547057: 1, 0.0708327260070411: 1, 0.07083166925797992: 1, 0.07082860753536162: 1,
0.0708269099957225: 1, 0.07082573649740101: 1, 0.07082345452396024: 1, 0.07082324526157585: 1,
0.07082264844778842: 1, 0.0708206021135059: 1, 0.07081410041993715: 1, 0.07081154725101951: 1,
0.07080984775437228: 1, 0.07080604393282694: 1, 0.07079502785429746: 1, 0.07079018957476542: 1,
0.0707839198459926: 1, 0.07076399472189086: 1, 0.07075856920831144: 1, 0.07075769384024198: 1,
0.07075592343269736: 1, 0.0707523927924161: 1, 0.0707366895487275: 1, 0.07072959612875064: 1,
0.07072138215348953: 1, 0.07072118668360984: 1, 0.07071942765208063: 1, 0.07068388842668545: 1,
0.07068272502646883: 1, 0.07068134980146598: 1, 0.0706778976506885: 1, 0.07067582009051045: 1,
0.07066514316246819: 1, 0.0706463813391483: 1, 0.07062241914076994: 1, 0.07061389149838085: 1,
0.07061299799219455: 1, 0.07060376522436014: 1, 0.07060336362168464: 1, 0.07060094882156939: 1,
0.07059154720349388: 1, 0.07058868966959053: 1, 0.07058260950436557: 1, 0.07058210193944929: 1,
0.07057861991740233: 1, 0.07057720136114173: 1, 0.07057535078128027: 1, 0.07056850261183725: 1,
0.07055847865823053: 1, 0.07055665925143946: 1, 0.07053211108920959: 1, 0.07052115956672884: 1,
0.0704941270812778: 1, 0.07049866093187951: 1, 0.07047846246356876: 1, 0.07047078735548412: 1,
0.07047005651582648: 1, 0.07047001332045941: 1, 0.07046449181927714: 1, 0.07046288513772382: 1,
0.07045522209537092: 1, 0.07044482248786103: 1, 0.07044054103488517: 1, 0.07043246602691325: 1,
0.0704292414013724: 1, 0.0704097901684676: 1, 0.07040698056712025: 1, 0.07040296183630367: 1,
0.07040193468253658: 1, 0.07038335500379686: 1, 0.07036737622106828: 1, 0.0703560395766843: 1,
0.070344305708114: 1, 0.07032684713022169: 1, 0.07031687556511973: 1, 0.07031322195110773: 1,
0.07029492941196917: 1, 0.07028317183382182: 1, 0.0702805875823222: 1, 0.07026926835633517: 1,
0.07024068358840313: 1, 0.07023915896591953: 1, 0.07022932540608849: 1, 0.0702150278366867: 1,
0.07019267068290398: 1, 0.07018941496877519: 1, 0.07018561761221417: 1, 0.07018287096806873: 1,
0.0701645534902726: 1, 0.0701511004718614: 1, 0.07014067937523633: 1, 0.07013958964392444: 1,
0.0701306010409331: 1, 0.07012361434038414: 1, 0.0701077126338175: 1, 0.07010283229027758: 1,
0.07009800905054679: 1, 0.07009707089885663: 1, 0.07006910729742588: 1, 0.07006607457726279: 1,
0.0700657917115795: 1, 0.07005985682962554: 1, 0.07005964461505435: 1, 0.0700451529707522: 1,
0.07004321856005791: 1, 0.0700421532901841: 1, 0.07004127882982893: 1, 0.07003973941723105: 1,
0.07001441215325632: 1, 0.07000159030354067: 1, 0.07000139036582363: 1, 0.07000000374080624: 1,
0.06999818779580312: 1, 0.06998334238152516: 1, 0.06998021571555481: 1, 0.0699790391959206: 1,
0.06996345202670098: 1, 0.06995652431917043: 1, 0.06995266896705143: 1, 0.06995064440254284: 1,
0.06994971174080532: 1, 0.06992672176637568: 1, 0.06992618140003488: 1, 0.06992300397214977: 1,
0.06991957928961251: 1, 0.06991892388726448: 1, 0.06991573219204553: 1, 0.06991323359665645: 1,
0.06990119979956298: 1, 0.06989293363406744: 1, 0.0698824694264478: 1, 0.06987308342018705: 1,
0.06986595983929013: 1, 0.06986484308614158: 1, 0.06984788744800281: 1, 0.0698472499920026: 1,
0.0698392614770553: 1, 0.06980547619163105: 1, 0.06977091197068921: 1, 0.06976564067627405: 1,
0.0697578677063886: 1, 0.06975768412380262: 1, 0.06975657813407318: 1, 0.06974748801260144: 1,
0.06972897747135397: 1, 0.06971685383876779: 1, 0.06969719665256803: 1, 0.06969642924882109: 1,
0.06968405406277221: 1, 0.06967027303743929: 1, 0.0696657054535472: 1, 0.06966555516918145: 1,
0.06965901788844106: 1, 0.0696576543027367: 1, 0.06964060457246263: 1, 0.06963941544644352: 1,
0.06961943771126512: 1, 0.0696168283261272: 1, 0.06961598389080376: 1, 0.06961454008626247: 1,
0.06961381269383572: 1, 0.06960846136997512: 1, 0.06960685583829948: 1, 0.06960592892613156: 1,
0.06959232987454171: 1, 0.06958760490536633: 1, 0.06958009679357807: 1, 0.06957716051643521: 1,
0.06957255425353014: 1, 0.06956287642271337: 1, 0.06955124353282441: 1, 0.06955007841659291: 1,
0.06954085414523001: 1, 0.06952825042040542: 1, 0.06952724780223306: 1, 0.06952636876446076: 1,
0.0695249687828639: 1, 0.06949778944145031: 1, 0.06947336524427894: 1, 0.06946612754298817: 1,
0.06945940296355946: 1, 0.06945243850426097: 1, 0.06942702680126447: 1, 0.06942129846056559: 1,
0.06941229793085855: 1, 0.06940793842388501: 1, 0.06939961990596978: 1, 0.06939059855175286: 1,
0.06938557665562345: 1, 0.06938532829578545: 1, 0.06936888626170655: 1, 0.06936535984448033: 1,
0.06934571450531886: 1, 0.06934163701614601: 1, 0.06933362885449368: 1, 0.06932765672311614: 1,
0.06932414380216856: 1, 0.06931384873410247: 1, 0.06931342484706401: 1, 0.06930613488811316: 1,
0.06929655549943095: 1, 0.06929618709013599: 1, 0.0692952921604359: 1, 0.0692897905552244: 1,
0.06928950334092576: 1, 0.06928204288131377: 1, 0.06928201829855427: 1, 0.06924873248648265: 1,
0.06924794596437944: 1, 0.06924219784100386: 1, 0.06922960378073988: 1, 0.06921870149124171: 1,
0.06921841787354366: 1, 0.06921588736155414: 1, 0.0692082451461561: 1, 0.06920449685079505: 1,
0.06919936622415086: 1, 0.06919793966671287: 1, 0.06919708277559854: 1, 0.06919193834636088: 1,
0.06919113887577871: 1, 0.06916913653928895: 1, 0.06916792088405749: 1, 0.0691578019786843: 1,
0.06915732240698245: 1, 0.06914058491212546: 1, 0.06912843260123087: 1, 0.06910452656220056: 1,
0.06909627638139824: 1, 0.0690885791938709: 1, 0.06908778442120232: 1, 0.06907299606506757: 1,
0.0690720111380884: 1, 0.0690709333783303: 1, 0.06906547388812845: 1, 0.06905941082418852: 1,
0.0690214718794509: 1, 0.06901180315047518: 1, 0.0690085592281059: 1, 0.06900502578441534: 1,
0.06899478434758863: 1, 0.06898540391648932: 1, 0.06898471215792369: 1, 0.06898393385709223: 1,
0.06897961711726078: 1, 0.06897763362622639: 1, 0.06897704197651418: 1, 0.06896867895124886: 1,
0.06896785023451775: 1, 0.06896482084970222: 1, 0.06895522509122248: 1, 0.06895503880285055: 1,
0.068950352550226: 1, 0.06895415887787806: 1, 0.0689294563172329: 1, 0.06892091255659329: 1,
0.06891903244844012: 1, 0.06887512828653619: 1, 0.06886957933257586: 1, 0.06886413787272376: 1,
0.06885246182390996: 1, 0.06885106478205195: 1, 0.06884890516018087: 1, 0.0688445017302869: 1,
0.0688444939929293: 1, 0.06884241468240677: 1, 0.0688354062755659: 1, 0.06882830457104543: 1,
0.06879961037435382: 1, 0.06879740102022544: 1, 0.06878618001841577: 1, 0.06877876581848655: 1,
0.06876552200100550: 1, 0.068764157021106: 1, 0.06871000721710010: 1, 0.0687100216026121: 1

u.uoo/oooz2uu00409330: 1, u.uoo/0401/031100: 1, u.uoo/40uu/44/19040: 1, u.uoo/4051093045101: 1, 0.068737491715863: 1, 0.06873573715412001: 1, 0.06873497707723084: 1, 0.06873441926758547: 1, 0.06873241598257797: 1, 0.06872713213658137: 1, 0.0687252492975782: 1, 0.06871879109570912: 1, 0.06871408825618196: 1, 0.06870888115014667: 1, 0.06869867967363885: 1, 0.0686902110504675: 1, 0.0686809939040264: 1, 0.06866522900751103: 1, 0.06866471601030037: 1, 0.0686546952924055: 1, 0.06864906565764803: 1, 0.06864901361655806: 1, 0.06864842979354763: 1, 0.06864435590714946: 1, 0.06863892418389851: 1, 0.0686376305627196: 1, 0.06863151818980961: 1, 0.06861864255158566: 1, 0.06861643956551057: 1, 0.06861444142551232: 1, 0.06861190699412469: 1, 0.06860326021248622: 1, 0.06859034490411332: 1, 0.06858009896453734: 1, 0.06857242492861078: 1, 0.06856477531807018: 1, 0.0685606151944163: 1, 0.0685548030069346: 1, 0.0685544990222607: 1, 0.06853579430161251: 1, 0.06853563808934017: 1, 0.0685307670894707: 1, 0.06852809050688638: 1, 0.06852279322134047: 1, 0.06851252339413665: 1, 0.06850745918936685: 1, 0.068498859333398: 1, 0.06848244772804814: 1, 0.0684789765845985: 1, 0.0684788595280893: 1, 0.06847837738979748: 1, 0.06847404544240979: 1, 0.06847309823248586: 1, 0.0684674395601722: 1, 0.06846420622992955: 1, 0.0684517146150163: 1, 0.06844815039252997: 1, 0.06844358023806932: 1, 0.06842250696140524: 1, 0.06840669815034484: 1, 0.06838946626451274: 1, 0.06838526895080375: 1, 0.06837640945678104: 1, 0.0683707484478353: 1, 0.0683647202586227: 1, 0.06835900126529684: 1, 0.06835897830979663: 1, 0.06835462429487718: 1, 0.06835259669686683: 1, 0.06834830637099001: 1, 0.06834410665047505: 1, 0.06834312329402625: 1, 0.06834015273592071: 1, 0.06833984971264395: 1, 0.06833858346098337: 1, 0.06833305872295256: 1, 0.06833150379563968: 1, 0.06831738685594366: 1, 0.06831500709256728: 1, 0.06830844384800588: 1, 0.06827218018796578: 1, 0.06824822552957646: 1, 0.06823794643767575: 1, 0.06823614545933093: 1, 0.06822280049956915: 1, 0.06821746152564123: 1, 0.06820662111896966: 1, 0.0681955060158689: 1, 0.06818235588025234: 1, 0.06818002598556427: 1, 0.06817888852725479: 1, 0.06817717509854353: 1, 0.06817012235743013: 1, 0.0681624599752361: 1, 0.06816205834849234: 1, 0.06815688989294785: 1, 0.06815471771423948: 1, 0.06815405347081516: 1, 0.06814914812455965: 1, 0.06814771067247213: 1, 0.06814669846503536: 1, 0.06813247698801486: 1, 0.0681244473142887: 1, 0.06811732463625614: 1, 0.06811389716686718: 1, 0.06808852192242786: 1, 0.0680871787367738: 1, 0.06808040793139679: 1, 0.0680379650303221: 1, 0.06803046847526245: 1, 0.06802985910091668: 1, 0.06802440022602917: 1, 0.06799884310151862: 1, 0.0679924348348474: 1, 0.06799143116225417: 1, 0.0679600570444683: 1, 0.0679599565899819: 1, 0.06795098542717364: 1, 0.06793776660747924: 1, 0.0679342983847001: 1, 0.06793179631725789: 1, 0.06792949191575298: 1, 0.06792712632573869: 1, 0.06792061574008915: 1, 0.06790256515339699: 1, 0.06788634213424868: 1, 0.06788305332426356: 1, 0.06786920618678412: 1, 0.06786883060957193: 1, 0.06786323765949656: 1, 0.06784053928133138: 1, 0.06783902176512512: 1, 0.06783668966856185: 1, 0.06783513695084406: 1, 0.06782891350428609: 1, 0.06782798695108323: 1, 0.06782261918999165: 1, 0.06780981603788909: 1, 0.06780092051560162: 1, 0.06777124462260074: 1, 0.06777037558650911: 1, 0.06777022167161101: 1, 0.0677612504198012: 1, 0.06775862171861127: 1, 0.06775846511950043: 1, 0.06775396838932776: 1, 0.06772529322781685: 1, 0.06772166145908823: 1, 0.06771136136853781: 1, 0.06771002172391741: 1, 0.06770869525119269: 1, 0.0677078421949512: 1, 0.06768808464712481: 1, 0.06767856671104035: 1, 0.06767711248959475: 1, 0.0676582157045391: 1, 0.06765631506543099: 1, 0.06762965292894857: 1, 0.06762428757599707: 1, 0.06761538039620656: 1, 0.06761298076799123: 1, 0.06758549373194764: 1, 0.06757750338971852: 1, 0.067573364159436: 1, 0.06756999376014239: 1, 0.06756572941636965: 1, 0.0675609051293214: 1, 0.06753851598299775: 1, 0.06752993344325144: 1, 0.06752427427431772: 1, 0.06751511485763978: 1, 0.06750128898819216: 1, 0.06749872732405313: 1, 0.06748280698888316: 1, 0.06747754234569364: 1, 0.06747713413353978: 1, 0.06747680952456683: 1, 0.06746946844504634: 1, 0.06746920330815864: 1, 0.0674636402483249: 1, 0.06745359648288532: 1, 0.0674502891922984: 1, 0.0674392184293247: 1, 0.0674281242041134: 1, 0.06741899061119988: 1, 0.06741356986464404: 1, 0.06740621363347157: 1, 0.06740530837808265: 1, 0.06739713618706851: 1, 0.06738683412020491: 1, 0.06738443202608815: 1, 0.06737332145793268: 1, 0.06737143999211714: 1, 0.06736476572790764: 1, 0.06736297923616798: 1, 0.06734056413030272: 1, 0.06733886569158391: 1, 0.06733095021757597: 1, 0.06732881591187873: 1, 0.06732060710185556: 1, 0.06730523455312518: 1, 0.0673050035591961: 1, 0.06729274473116073: 1, 0.06728621513354623: 1, 0.06728436591366016: 1, 0.0672838519622996: 1, 0.06728102690829142: 1, 0.06727727854014892: 1, 0.06727566837308849: 1, 0.06727029200903199: 1, 0.06726522565824081: 1, 0.0672564702852759: 1, 0.0672514122140401: 1, 0.06724032996958866: 1, 0.0672221399851626: 1, 0.06721892299794607: 1, 0.06721597939590661: 1, 0.06720954859156698: 1, 0.06720855822580027: 1, 0.06720443663709788: 1, 0.06720003283812187: 1, 0.06719791315436303: 1, 0.06718282048425035: 1, 0.06717096580800752: 1, 0.06716906826671777: 1, 0.06714097641061047: 1, 0.06712397656465925: 1, 0.06711328763934855: 1, 0.06711279831827913: 1, 0.0671103188558145: 1, 0.0671086787350258: 1, 0.06710795325804308: 1, 0.06710532545890557: 1, 0.06709316631198586: 1, 0.06707971546256994: 1, 0.06707113774607126: 1, 0.06707101935996368: 1, 0.06706731760131723: 1, 0.06706558309255534: 1, 0.06705853617223848: 1, 0.0670543009140513: 1, 0.06705427952342713: 1, 0.06705077065981113: 1, 0.06705049651592818: 1, 0.06704842958228874: 1, 0.06704604251632428: 1, 0.06703700380657478: 1, 0.0670235707641706: 1, 0.06702069388546861: 1, 0.06702031555805649: 1, 0.06701688333092835: 1, 0.0670125052168771: 1, 0.06701230949651246: 1, 0.06699793894148265: 1, 0.06699586086054221: 1, 0.06699204421688532: 1, 0.06699114746969431: 1, 0.06698261717441857: 1, 0.06697916141475464: 1, 0.06697892908210248: 1, 0.0669723485485254: 1, 0.06695768650564027: 1, 0.06695731142248834: 1, 0.06694748459957324: 1, 0.0669472935029797: 1, 0.06694363006437855: 1, 0.06693995080208867: 1, 0.06693487929708979: 1, 0.0669344379690868: 1, 0.06692917391554115: 1, 0.06690101187157599: 1, 0.06689985345807678: 1, 0.06689026115847486: 1, 0.06687738299967122: 1, 0.06687727546940761: 1, 0.06687425845715263: 1, 0.06687160414638049: 1, 0.06686250527239765: 1, 0.06686221884622512: 1, 0.06683523111210268: 1, 0.06683498819064371: 1, 0.06681989321327146: 1, 0.06681805972363548: 1, 0.0667901857130209: 1, 0.06678862287048307: 1, 0.06677670402706817: 1, 0.06675100132666006: 1, 0.06674511504810912: 1, 0.06674093197257323: 1, 0.06674061395965787: 1, 0.06673309653851202: 1, 0.06673159973580677: 1, 0.0667300215700045: 1, 0.06672443991655036: 1, 0.06672056740440993: 1, 0.0667188074092347: 1, 0.06671539863595438: 1, 0.06671466760230323: 1, 0.06671374909901101: 1, 0.06671195109058867: 1, 0.06670798087780822: 1, 0.06670199175819333: 1, 0.0666979674229086: 1, 0.06668442501039948: 1, 0.06667768130492017: 1, 0.06667543108387707: 1, 0.06666839512701472: 1, 0.06666638872173261: 1, 0.06666250276800723: 1, 0.0666610018005020: 1, 0.0666612126234254: 1, 0.06666424880400862: 1

0.0646/08/62160844: 1, 0.0646645/929515212: 1, 0.064649996960816/68: 1, 0.0646491959493688/: 1,
0.06464467620947086: 1, 0.06464285272498035: 1, 0.06464188204157696: 1, 0.06461353520179645: 1,
0.06460701431606695: 1, 0.06460417332435403: 1, 0.06459339715951042: 1, 0.0645856121225945: 1,
0.06458060847781166: 1, 0.06456954276490802: 1, 0.06456916652195584: 1, 0.0645688386360755: 1,
0.06456773709680165: 1, 0.06456542905062215: 1, 0.0645646814328615: 1, 0.06456392853061425: 1,
0.06456303619830193: 1, 0.06455544217198404: 1, 0.06455413574557033: 1, 0.06454048648659154: 1,
0.06453050028020046: 1, 0.06452166042818888: 1, 0.0645047539375206: 1, 0.06450288451399154: 1,
0.06449975062910566: 1, 0.06447947123443105: 1, 0.06447774028127971: 1, 0.0644660977721413: 1,
0.06446469498302203: 1, 0.06446153783474382: 1, 0.06445967950862123: 1, 0.0644545119736772: 1,
0.06444993951980423: 1, 0.06444690984142282: 1, 0.06444568148604031: 1, 0.064440408317929: 1,
0.06442623955836022: 1, 0.06441203235317974: 1, 0.06441175740388012: 1, 0.06438812688398543: 1,
0.06438761724516542: 1, 0.06437443617861059: 1, 0.06437197112095351: 1, 0.06436586475432296: 1,
0.06436557462246373: 1, 0.0643544320745335: 1, 0.06435035407167944: 1, 0.06432684423805272: 1,
0.06432436831239007: 1, 0.06432054211451275: 1, 0.06430837591724824: 1, 0.06430129070850478: 1,
0.06429492976940179: 1, 0.06429359578358246: 1, 0.06428456769928777: 1, 0.06427613166682576: 1,
0.06426523254830745: 1, 0.06426193933129629: 1, 0.06425053630245753: 1, 0.06424531278605008: 1,
0.06423704114841573: 1, 0.06422910366112522: 1, 0.06422749186935087: 1, 0.06422334225788737: 1,
0.06420267460366903: 1, 0.06420000578793517: 1, 0.0641989408670039: 1, 0.06419482856905127: 1,
0.06419314784165829: 1, 0.06417106507381079: 1, 0.06416745350206253: 1, 0.06412183760773507: 1,
0.06411576296163146: 1, 0.06410568888680075: 1, 0.06410551591033152: 1, 0.06410287640807022: 1,
0.06410091422255501: 1, 0.06410030266520803: 1, 0.0640962024991942: 1, 0.06409354720613471: 1,
0.06409265121150835: 1, 0.06408735173791161: 1, 0.06408186277450947: 1, 0.06407128012044329: 1,
0.06406533267319726: 1, 0.0640652488026473: 1, 0.06406243989224998: 1, 0.06406146384933901: 1,
0.06406116698914675: 1, 0.06405480795510435: 1, 0.06404172039231894: 1, 0.0640391058559935: 1,
0.0640388300207121: 1, 0.06403360072850364: 1, 0.0640282976420552: 1, 0.06402302944221436: 1,
0.06400537716877308: 1, 0.0640028189930672: 1, 0.0640008048379498: 1, 0.06399551021881214: 1,
0.06399364384711449: 1, 0.0639930583677599: 1, 0.06397969029621536: 1, 0.0639768891659688: 1,
0.06392922102049181: 1, 0.06389194120675779: 1, 0.06389012183200933: 1, 0.06388381281520054: 1,
0.06387419027618255: 1, 0.06386965012783766: 1, 0.06386681851431761: 1, 0.06386481960578755: 1,
0.06386174114623491: 1, 0.06385821927505052: 1, 0.0638409266258006: 1, 0.06383745334677782: 1,
0.0638300776333232: 1, 0.06381758647948015: 1, 0.06380517610569242: 1, 0.06379476210100747: 1,
0.06378488440569119: 1, 0.06378429441333004: 1, 0.06378403424119686: 1, 0.06378050073958547: 1,
0.06377828739263992: 1, 0.06376694887088102: 1, 0.06374965096445853: 1, 0.06374545836847796: 1,
0.0637423577741439: 1, 0.06373974744947779: 1, 0.06373708402186877: 1, 0.06372714090208884: 1,
0.06372543794731399: 1, 0.06370787906755436: 1, 0.0637075295585788: 1, 0.06370622112906717: 1,
0.06369699055016986: 1, 0.06369691779752355: 1, 0.06368768746386423: 1, 0.0636768280658231: 1,
0.06366242052392505: 1, 0.06364102210660465: 1, 0.06363475382252615: 1, 0.06363005996763357: 1,
0.06362201255724197: 1, 0.06360002499679555: 1, 0.06359733196366124: 1, 0.06358800256966812: 1,
0.06358550794354222: 1, 0.0635776017088361: 1, 0.06357739928040476: 1, 0.06357137035622044: 1,
0.0635593776242697: 1, 0.06355747061031028: 1, 0.06355569978816049: 1, 0.06354849119015997: 1,
0.06353752339814525: 1, 0.06352580177106579: 1, 0.0635178684607271: 1, 0.06351713895376714: 1,
0.06350445727547836: 1, 0.06350378314205467: 1, 0.06350117205467526: 1, 0.0634980702335676: 1,
0.0634943088661617: 1, 0.06348986533407391: 1, 0.06348728995678854: 1, 0.06347442897080335: 1,
0.06347057947923623: 1, 0.06346912498116769: 1, 0.06346676323634337: 1, 0.06346477107883708: 1,
0.06344149415087934: 1, 0.06343489533384068: 1, 0.06342517739982875: 1, 0.06342190614195911: 1,
0.06341506146273361: 1, 0.06340874544478821: 1, 0.06339554376419988: 1, 0.06339289114917902: 1,
0.06338460266139334: 1, 0.06338190196461094: 1, 0.06337510668495759: 1, 0.06336110250575727: 1,
0.06336056558812672: 1, 0.0633515148485138392: 1, 0.06335019557680625: 1, 0.06334984823617443: 1,
0.06332689174617233: 1, 0.0633082362095385: 1, 0.06330700143702864: 1, 0.06330423667112917: 1,
0.06330422608444213: 1, 0.06330240262010084: 1, 0.06329387618345575: 1, 0.06328727121584123: 1,
0.0632847505113939: 1, 0.06328261832583643: 1, 0.06327855219291552: 1, 0.06327744439355097: 1,
0.06326841645624659: 1, 0.06326493617019273: 1, 0.06326332776200119: 1, 0.06324554576868109: 1,
0.063241792372655: 1, 0.06323945256673871: 1, 0.06323818499486836: 1, 0.06321964579011413: 1,
0.0632172482257483: 1, 0.06320919431127173: 1, 0.06320043681763542: 1, 0.06319864123036337: 1,
0.06319722983458226: 1, 0.06318458505428108: 1, 0.06318121313422151: 1, 0.06316066536885741: 1,
0.06314732118583041: 1, 0.06312470495006348: 1, 0.06312391104668783: 1, 0.06312303074643703: 1,
0.06311282091249525: 1, 0.06310016223825579: 1, 0.06309615022230884: 1, 0.0630948050206257: 1,
0.06309142088638278: 1, 0.06308309468135806: 1, 0.06308211213521218: 1, 0.06308012383973008: 1,
0.06307730792284984: 1, 0.06307700765619123: 1, 0.06307484619438615: 1, 0.06306656647213456: 1,
0.06306301767585377: 1, 0.06306163495462914: 1, 0.06306140753830658: 1, 0.06306014297532728: 1,
0.0630596358420566: 1, 0.06305646472637971: 1, 0.06305424074698972: 1, 0.06304947141547813: 1,
0.06304935601480736: 1, 0.06304752631881017: 1, 0.0630373864735741: 1, 0.06300387901918392: 1,
0.06298978720503838: 1, 0.06298942793139232: 1, 0.0629866674104973: 1, 0.06297237011523758: 1,
0.06296809826011072: 1, 0.0629622646120569: 1, 0.06296054836428229: 1, 0.06295441343007843: 1,
0.0629416424386397: 1, 0.06293770410405973: 1, 0.06293499099679281: 1, 0.06293129088461905: 1,
0.06292339312184192: 1, 0.06292197033505012: 1, 0.06291513130567708: 1, 0.06290723354068777: 1,
0.06288879073643452: 1, 0.06288771934224224: 1, 0.06288331359750778: 1, 0.06288161151552348: 1,
0.06287837655029425: 1, 0.06287552333517037: 1, 0.06287448119932892: 1, 0.06287027502245657: 1,
0.06286892227304013: 1, 0.06286272047190937: 1, 0.0628598303561902: 1, 0.06285562182146513: 1,
0.06285366937346767: 1, 0.06285096684252273: 1, 0.06283201270963996: 1, 0.06283010729613867: 1,
0.0628173659131149: 1, 0.06280387256134577: 1, 0.06280358377534959: 1, 0.0627965580230638: 1,
0.06277328578786219: 1, 0.06276704014408965: 1, 0.06276388316485333: 1, 0.06274805011452668: 1,
0.06274045127577403: 1, 0.062730226163867: 1, 0.06272189396103182: 1, 0.06271263004217971: 1,
0.06271258625661143: 1, 0.06270946787657379: 1, 0.06270457758627421: 1, 0.06270202825174177: 1,
0.06269830916065078: 1, 0.06269260596172013: 1, 0.06268916050258726: 1, 0.06268811551029473: 1,
0.06268291922468257: 1, 0.0626821237812237: 1, 0.06267742489442626: 1, 0.06267348231989048: 1,
0.062666913901827864: 1, 0.06265511115449311: 1, 0.06263919179977961: 1, 0.06262616291866605: 1,

0.06260992935766077: 1, 0.06260093218988957: 1, 0.06259998343342123: 1, 0.06257081288802485: 1,
0.06256754598808159: 1, 0.06256749759889058: 1, 0.06256718368917344: 1, 0.06256574239052645: 1,
0.06255857679595861: 1, 0.06255363776882407: 1, 0.06255046791345321: 1, 0.06254963038732393: 1,
0.06254918393764111: 1, 0.06254729595797953: 1, 0.06254601823029761: 1, 0.06254474670137025: 1,
0.0625417762930855: 1, 0.0625416252112844: 1, 0.06254098002649076: 1, 0.06253488575227245: 1,
0.0625323516189777: 1, 0.06253155391536154: 1, 0.06252694917457466: 1, 0.06252394586364383: 1,
0.06252294369060904: 1, 0.06251262565713213: 1, 0.06251073585344202: 1, 0.06251054471545626: 1,
0.06250683408638609: 1, 0.06250045161659835: 1, 0.06249962326782405: 1, 0.062495229314013356: 1, 0
.06249358490721006: 1, 0.06248637620293192: 1, 0.06248408188021033: 1, 0.06248059230424814: 1,
0.06247747443165605: 1, 0.062475174937448: 1, 0.06246502432556437: 1, 0.06245298376239173: 1,
0.062442485940098706: 1, 0.062440017346891884: 1, 0.06243913336467623: 1, 0.06243848133940534: 1,
0.06243316157214743: 1, 0.06242842878984339: 1, 0.06242531171453851: 1, 0.0624189991609554: 1,
0.06241898051532427: 1, 0.06240259291230693: 1, 0.06240002266629601: 1, 0.06239775140093989: 1,
0.06239644434518507: 1, 0.06238328742081534: 1, 0.06238268134837365: 1, 0.0623696374601968: 1,
0.06236498071397407: 1, 0.062353553104978234: 1, 0.062352645462979486: 1, 0.06234496842095354: 1,
0.06232750752132747: 1, 0.06232013863195734: 1, 0.062320137094680525: 1, 0.0623162428854722: 1, 0
.06229877917711971: 1, 0.06229855062661061: 1, 0.0622971877372786: 1, 0.06229188329192174: 1,
0.062290440951515307: 1, 0.06228523821180085: 1, 0.062258488860272354: 1, 0.06224531614255308: 1,
0.06224198102744279: 1, 0.06223846431432652: 1, 0.062232666863458824: 1, 0.06222597304515802: 1, 0
.062211580456015256: 1, 0.062211442015809214: 1, 0.06220976962754188: 1, 0.062209240004270236: 1,
0.06219681646161992: 1, 0.06219074878498882: 1, 0.06217459148501509: 1, 0.0621737458577785: 1,
0.06217338552676446: 1, 0.06216833500409252: 1, 0.06216280097833632: 1, 0.0621497544568269: 1,
0.06214584183861409: 1, 0.06213474133139043: 1, 0.06212539227138247: 1, 0.06211186695894712: 1,
0.06210405245917098: 1, 0.062072784085210525: 1, 0.0620586388532552: 1, 0.06205687625215119: 1, 0
.06205108973359759: 1, 0.06203942098406165: 1, 0.062031950065842084: 1, 0.06201766761927879: 1,
0.06201373526137184: 1, 0.06201275654176321: 1, 0.06200417102983118: 1, 0.061988609565666646: 1, 0
.06198751907038029: 1, 0.0619854900432202: 1, 0.0619809921174724: 1, 0.06197755968830659: 1,
0.0619722703595552: 1, 0.061973771968194646: 1, 0.06196495689320023: 1, 0.06195897742240639: 1, 0
.06194642413179061: 1, 0.061927366331566674: 1, 0.06192504293213994: 1, 0.06190212865080047: 1,
0.061876575315149084: 1, 0.06187529435556086: 1, 0.06187366024160537: 1, 0.061866630358368965: 1,
0.061863736727038335: 1, 0.06186348020822973: 1, 0.061861228768412414: 1, 0.0618526536980835: 1, 0
.06185037262809231: 1, 0.06185011263410144: 1, 0.06182528852332597: 1, 0.06182485721914813: 1,
0.06182471781572864: 1, 0.06180464948111356: 1, 0.06180358936460076: 1, 0.06180024614228734: 1,
0.06179848420050692: 1, 0.061797630833912924: 1, 0.061787195968000225: 1, 0.06178523711388805: 1,
0.06178488508250415: 1, 0.0617702251198701: 1, 0.061765095978561634: 1, 0.061752802418521546: 1,
0.061736784711816144: 1, 0.06172608957377374: 1, 0.06171995840902414: 1, 0.06171828131550548: 1,
0.061717460361939945: 1, 0.061713985878223895: 1, 0.061711494557144975: 1, 0.06170835316787767: 1,
0.06170618801555552: 1, 0.061701517664027164: 1, 0.061687889438537466: 1, 0.06167900483859066: 1,
0.06165964094803089: 1, 0.061644589493516026: 1, 0.06164430349818212: 1, 0.061641735637553964: 1,
0.06163785681939819: 1, 0.061634644685488495: 1, 0.0616252793720875: 1, 0.0616139317740486: 1, 0.0
61613931247899094: 1, 0.061607257619525194: 1, 0.06159342876695076: 1, 0.06158301779532198: 1,
0.06157186387468291: 1, 0.06156324359108125: 1, 0.061562141210859275: 1, 0.06156040432379367: 1, 0
.06154787117035654: 1, 0.06153477231899826: 1, 0.06152756573760852: 1, 0.06152529600283536: 1,
0.06151842623613934: 1, 0.061517150094906: 1, 0.06151666689842865: 1, 0.06151403013691568: 1,
0.06151150569383423: 1, 0.061508188019377685: 1, 0.06148152112765949: 1, 0.06147387982762927: 1, 0
.06146748894391318: 1, 0.06145781364336169: 1, 0.06144137606913968: 1, 0.06143270103462482: 1,
0.06142932297177931: 1, 0.06142685225697723: 1, 0.0614177189771776: 1, 0.06141082013715969: 1,
0.06141016776390999: 1, 0.06140361711811396: 1, 0.061398595331135106: 1, 0.0613950803381348: 1, 0
.06139032556037527: 1, 0.06138611406511075: 1, 0.06136744875460658: 1, 0.06136406820876031: 1,
0.061351208138471086: 1, 0.061337720088365244: 1, 0.06133343900702531: 1, 0.0613330893832433: 1, 0
.06132747317754177: 1, 0.06132437085420894: 1, 0.06131470345486584: 1, 0.06131002539678136: 1,
0.06129742743612862: 1, 0.06129349083403586: 1, 0.061291290221272964: 1, 0.06128742055895829: 1, 0
.06128165212398865: 1, 0.061277382010885124: 1, 0.06126947043967992: 1, 0.06126744799049906: 1,
0.06126712323168944: 1, 0.06126560550308808: 1, 0.06125804304568122: 1, 0.06125740059230449: 1,
0.061255377526311675: 1, 0.06125044816944557: 1, 0.06124977467430977: 1, 0.061244961714097365: 1,
0.061238869250049746: 1, 0.0612383807424277: 1, 0.061236914159758106: 1, 0.061234287694926635: 1,
0.06123185946442174: 1, 0.06123071560909063: 1, 0.061219033183421055: 1, 0.06121056975510833: 1, 0
.06120749859662543: 1, 0.0612068993340046: 1, 0.06120659604953167: 1, 0.06120531061923876: 1,
0.06120314405798018: 1, 0.06120048618980728: 1, 0.06119397315146914: 1, 0.06118438726300088: 1,
0.06116886473219428: 1, 0.0611568487283814: 1, 0.06115206659346989: 1, 0.0611509594587086: 1,
0.06114716919407228: 1, 0.06113611357625703: 1, 0.06112992888715607: 1, 0.06112907852200446: 1,
0.06112837054186276: 1, 0.06112730672913012: 1, 0.061124139814408715: 1, 0.06111479694598522: 1, 0
.06111362320597504: 1, 0.06111078485393421: 1, 0.0611046164523155: 1, 0.061102546546852515: 1,
0.06105994376597504: 1, 0.06104507030266543: 1, 0.06104341272189788: 1, 0.06104126328466141: 1,
0.06104033618168002: 1, 0.06103710914550947: 1, 0.06100555347619363: 1, 0.06100195159032229: 1,
0.06100106098210966: 1, 0.06100042315356753: 1, 0.0609988380796245: 1, 0.060997490045607214: 1, 0
.06099103301332466: 1, 0.06099079765591554: 1, 0.060989068708538575: 1, 0.06097942371339379: 1,
0.0609646771104434: 1, 0.06096782733354556: 1, 0.06096246576578951: 1, 0.060960173432031126: 1, 0
.06095700868368077: 1, 0.06094972389355135: 1, 0.0609437109938611: 1, 0.06093709426153842: 1,
0.0609374118135696: 1, 0.060932953389113816: 1, 0.06093163226756736: 1, 0.06092942703202908: 1, 0
.06092767975059345: 1, 0.060914740416981264: 1, 0.06091403265918591: 1, 0.06090998145081044: 1, 0
.060907247661887126: 1, 0.06090053056999667: 1, 0.060881875172408756: 1, 0.06087685253071131: 1, 0
.06087263298884726: 1, 0.06086949027519315: 1, 0.060856493121264746: 1, 0.06084993317416123: 1,
0.06083679440335295: 1, 0.060824010481529786: 1, 0.06080420727321314: 1, 0.06080372928673071: 1, 0
.060801167990741464: 1, 0.060773718973323024: 1, 0.060772671542780585: 1, 0.06076478352992695: 1,
0.060759617832727146: 1, 0.06075938934705057: 1, 0.0607502302747238: 1, 0.060751054870250065: 1,
0.06074198191297262: 1, 0.060736040328221316: 1, 0.06073265519032296: 1, 0.0607316871989076: 1, 0

06073130102935345: 1, 0.0607310168454773: 1, 0.06071467579834289: 1, 0.06070980191296838: 1, 0.060697208161524345: 1, 0.06069365540673567: 1, 0.06066125412441466: 1, 0.060655603161158624: 1, 0.06065438983278943: 1, 0.060652002364346834: 1, 0.06063583281083196: 1, 0.06063375158798261: 1, 0.0606201536736964: 1, 0.060619115445882145: 1, 0.06061749363919915: 1, 0.06061568393422631: 1, 0.060597327079170205: 1, 0.06059215995990522: 1, 0.06058285143310016: 1, 0.06056952502727278: 1, 0.060568087758961435: 1, 0.060567923317484576: 1, 0.060562499380466366: 1, 0.06055651289465854: 1, 0.06054789957986394: 1, 0.06054145652488051: 1, 0.0605374084164952: 1, 0.06051345404090447: 1, 0.060510026741330034: 1, 0.06050643379164399: 1, 0.06050557420529398: 1, 0.060504966436707226: 1, 0.06049976792465441: 1, 0.06048894415049044: 1, 0.060487911632151954: 1, 0.06048657322687493: 1, 0.06042854903594411: 1, 0.06041746155138726: 1, 0.06038703502001486: 1, 0.06036348193650204: 1, 0.060363269800547265: 1, 0.06036306464885212: 1, 0.06036274511498586: 1, 0.06035843514844072: 1, 0.060356330039259665: 1, 0.06035207205626551: 1, 0.0603421435970129: 1, 0.060333921557295674: 1, 0.06033294414550347: 1, 0.06032627582341679: 1, 0.0603114280999512: 1, 0.060306427050761544: 1, 0.060303298225077795: 1, 0.06028894483768943: 1, 0.060282604957242227: 1, 0.060280520307246364: 1, 0.06027577736765991: 1, 0.06027260448187098: 1, 0.06024808054748751: 1, 0.060239708016033386: 1, 0.06021840338775793: 1, 0.06020223900271009: 1, 0.060201003015292964: 1, 0.06019695339608913: 1, 0.06018669687693005: 1, 0.06018488354269093: 1, 0.060176548036513094: 1, 0.06016971223514823: 1, 0.06016659330970865: 1, 0.060165055872721154: 1, 0.060160147319859185: 1, 0.06015273429883633: 1, 0.06015022659453981: 1, 0.06014943361836007: 1, 0.06013898368442842: 1, 0.060130254095933505: 1, 0.06012302228938332: 1, 0.06012107533520496: 1, 0.06011803283364031: 1, 0.06010643345831703: 1, 0.06009787589080982: 1, 0.06009034497672291: 1, 0.06009012937721621: 1, 0.060089818117120955: 1, 0.0600851021641252: 1, 0.06008162650901283: 1, 0.06006829707669699: 1, 0.060058367968693: 1, 0.06005588303005209: 1, 0.06005106883271167: 1, 0.060051024761367484: 1, 0.06004653342103584: 1, 0.06004539101606764: 1, 0.060039744001917306: 1, 0.06003303372782713: 1, 0.06003025674411003: 1, 0.0600237349893148: 1, 0.060018106059314: 1, 0.060007726698492324: 1, 0.05999810899048119: 1, 0.05999804069276894: 1, 0.05996734713521959: 1, 0.05996344711814701: 1, 0.059962165474137075: 1, 0.05995772579609254: 1, 0.05995289361869567: 1, 0.05995210897796327: 1, 0.0599424948395927: 1, 0.05993839907857623: 1, 0.05993625754894467: 1, 0.05993558171815012: 1, 0.05993032808314863: 1, 0.05992913943598316: 1, 0.05992821170975294: 1, 0.059925994327895846: 1, 0.059918551299203066: 1, 0.059918126663603355: 1, 0.05990495726442979: 1, 0.05990458403986889: 1, 0.05989992377448031: 1, 0.059882085476718985: 1, 0.059880901174733075: 1, 0.0598631154684607: 1, 0.059862605471119885: 1, 0.05986084544360764: 1, 0.05985842634148239: 1, 0.05984640241343481: 1, 0.05984451726113035: 1, 0.05982644437660064: 1, 0.05980922345968333: 1, 0.059808744582113195: 1, 0.05980648692745832: 1, 0.05980538765440664: 1, 0.05979939079341682: 1, 0.05979747328541901: 1, 0.05979423124305521: 1, 0.0597893505578851: 1, 0.05978868738554883: 1, 0.05978649383623145: 1, 0.059784613209675756: 1, 0.05976932655366708: 1, 0.059767624473786744: 1, 0.059766933782584034: 1, 0.05974890462941409: 1, 0.05974663667579344: 1, 0.05974166885246997: 1, 0.05972220627017248: 1, 0.059718441985175945: 1, 0.059713606845095316: 1, 0.05971357958539455: 1, 0.059713316752849806: 1, 0.05970124928675151: 1, 0.05969980561431421: 1, 0.0596797346675989: 1, 0.05967661821056494: 1, 0.059673484288098794: 1, 0.059667385738497926: 1, 0.05966536349500044: 1, 0.059663950523443386: 1, 0.059659313777025554: 1, 0.059658179917811104: 1, 0.05965504873997903: 1, 0.05964608193134055: 1, 0.05964466370547925: 1, 0.05963429843103077: 1, 0.05962920298449532: 1, 0.05962561506570927: 1, 0.05962336522809254: 1, 0.05961893926387835: 1, 0.0596136982265948: 1, 0.05960046752392851: 1, 0.059599825432609936: 1, 0.05959773377729008: 1, 0.05958764442565319: 1, 0.059585301799506024: 1, 0.059574301781068185: 1, 0.0595619860247202: 1, 0.05955760992135483: 1, 0.05954619228035704: 1, 0.059535693874595896: 1, 0.05953283248336517: 1, 0.059528222462481295: 1, 0.05952487406031157: 1, 0.05951989601860067: 1, 0.05950718789973527: 1, 0.05950660321076815: 1, 0.05950202102002178: 1, 0.05950076882925373: 1, 0.05949950361521982: 1, 0.05949104397481622: 1, 0.05948337458097263: 1, 0.05948309911649527: 1, 0.05946984386931945: 1, 0.059460081137297935: 1, 0.059457239711235545: 1, 0.05945722460697142: 1, 0.05944467517218444: 1, 0.059444242010869425: 1, 0.059441212811123176: 1, 0.05943514806998502: 1, 0.059429192797342864: 1, 0.05942675448411788: 1, 0.05942278692826498: 1, 0.059421973433257176: 1, 0.05940335114183212: 1, 0.05940306404059309: 1, 0.059396019507527494: 1, 0.059391453338701966: 1, 0.059389829870286646: 1, 0.05938700103747574: 1, 0.05937494844855075: 1, 0.0593746497322903: 1, 0.05937296937012556: 1, 0.05937136857150886: 1, 0.0593481742807662: 1, 0.059347952319345254: 1, 0.059345982403632924: 1, 0.059345834479293716: 1, 0.05934007400783079: 1, 0.059334595582301836: 1, 0.0593309981448678: 1, 0.05932670091734018: 1, 0.05932473265107813: 1, 0.05932218081484466: 1, 0.05932030758896467: 1, 0.05930728083255928: 1, 0.05930609864205363: 1, 0.0593009948651578: 1, 0.059294135313532226: 1, 0.059289671088548025: 1, 0.059280142061212654: 1, 0.05927642483366785: 1, 0.059252280941649874: 1, 0.059243720098405325: 1, 0.05923837715071603: 1, 0.05923319186149145: 1, 0.05921685365309864: 1, 0.05920177708234239: 1, 0.059194522713978924: 1, 0.05918987639411192: 1, 0.05917957508258612: 1, 0.0591691694509892: 1, 0.05916383355027853: 1, 0.05915755551134347: 1, 0.059155322838189243: 1, 0.05914994978678763: 1, 0.059139994555644206: 1, 0.05912741706968613: 1, 0.059114194805228275: 1, 0.05910671170991595: 1, 0.05910124012369695: 1, 0.05908294541241418: 1, 0.059078418732400675: 1, 0.05907653001194331: 1, 0.059076144435236726: 1, 0.059073074520927894: 1, 0.059060547421825434: 1, 0.059045687786550644: 1, 0.05903656802901977: 1, 0.05901389213941753: 1, 0.059003543445115894: 1, 0.05900148316339873: 1, 0.058995518613916303: 1, 0.058984026601699234: 1, 0.05897932629860814: 1, 0.058977363898287656: 1, 0.05897332610972133: 1, 0.05897330079437503: 1, 0.05897206169955919: 1, 0.05896419285739361: 1, 0.05895854692761737: 1, 0.05892293241485568: 1, 0.058922022876841486: 1, 0.058918976582262785: 1, 0.05891595545303324: 1, 0.05890913160678057: 1, 0.058900161961496084: 1, 0.05889675072047529: 1, 0.0588783678747281026: 1, 0.05886024064727825: 1, 0.05885740639412457: 1, 0.058857100540865764: 1, 0.05884052295927564: 1, 0.05883819221710526: 1, 0.05882358724853743: 1, 0.058805761448041664: 1, 0.058800342047312805: 1, 0.05879710230692288: 1, 0.05879302193142842: 1, 0.05878148761262091: 1, 0.058761149412734616: 1, 0.05874818367562443: 1, 0.058746339144163356: 1, 0.058731497113017235: 1, 0.05872608261311279: 1, 0.058722486386904915: 1, 0.05871495548762768: 1, 0.058707084485764637: 1, 0.058698501846609456: 1, 0.058692942918242286: 1, 0.058686972560032545: 1, 0.05868649948406118: 1, 0.05868190668997739: 1, 0.05867910472122531: 1, 0.05867868016519185: 1, 0.05866735930379511: 1, 0.05866629698798414: 1, 0.05865408363381654: 1,

0.05863791903996305: 1, 0.058625730564449384: 1, 0.05862093678271359: 1, 0.05861724150275899: 1, 0
.058611266779524336: 1, 0.0586108100399865: 1, 0.05860449446025401: 1, 0.05860006095051302: 1,
0.058590056433414965: 1, 0.0585798562433589: 1, 0.05857550306668267: 1, 0.05857399642231709: 1,
0.058570860166392534: 1, 0.05856390076304696: 1, 0.058550211946787695: 1, 0.058535031979116796: 1,
0.05853426438417314: 1, 0.05853044939897233: 1, 0.05851668622372904: 1, 0.05850518364905954: 1,
0.058501084274046586: 1, 0.05845034273555256: 1, 0.05844392249338501: 1, 0.05844198212217613: 1,
0.05843944478876276: 1, 0.05843647710699694: 1, 0.05843306854645473: 1, 0.058427094953659546: 1, 0
.05842580139618381: 1, 0.05842414419053634: 1, 0.05838237429077668: 1, 0.05837813436626793: 1,
0.05837651226722322: 1, 0.05837446365072169: 1, 0.05837261757809815: 1, 0.058366571267916674: 1, 0
.05836294334729058: 1, 0.05836165004370318: 1, 0.058360616530043055: 1, 0.0583604389172347: 1,
0.05835383332672292: 1, 0.05834989097207985: 1, 0.058345866692604706: 1, 0.05834071597701854: 1, 0
.05832755207102341: 1, 0.058321069929537825: 1, 0.05832054536113562: 1, 0.05831941674486464: 1,
0.0583163721533318: 1, 0.05831280682942381: 1, 0.058312062877979194: 1, 0.058310316328681736: 1, 0
.05830487426451633: 1, 0.05828693495299881: 1, 0.058283685146012294: 1, 0.05828345607219535: 1,
0.05827322503679986: 1, 0.05826202966599425: 1, 0.05825851676897439: 1, 0.05821990661009549: 1,
0.058215181312703534: 1, 0.05821033743267388: 1, 0.058203008054235846: 1, 0.05819863611982515: 1,
0.058193161533607866: 1, 0.0581832172645849: 1, 0.05816791850107079: 1, 0.05816679460812101: 1,
0.05816492114430941: 1, 0.05815000690920233: 1, 0.058148070176992375: 1, 0.05814671659958491: 1, 0
.058120353857849784: 1, 0.05811681127774547: 1, 0.058110160442848835: 1, 0.058107220989567304: 1,
0.05810694288875537: 1, 0.05810100287381388: 1, 0.05807535027794539: 1, 0.058072005307800406: 1, 0
.05806506182032395: 1, 0.05806359921389956: 1, 0.058056885178248474: 1, 0.058055854873802264: 1, 0
.05805557049237149: 1, 0.05805253368601694: 1, 0.05804653682811993: 1, 0.0580460476024352: 1,
0.05803679162027489: 1, 0.05803654080310557: 1, 0.05802208132774047: 1, 0.05801967553684411: 1,
0.058002244579914645: 1, 0.05799937273470196: 1, 0.0579855128356916: 1, 0.05798397041727586: 1,
0.05797279642558112: 1, 0.057964826815101705: 1, 0.05796468392569661: 1, 0.05795854388889404: 1, 0
.05794468442304565: 1, 0.05794387539218906: 1, 0.057939195039175086: 1, 0.057933097321708774: 1, 0
.057932300215659066: 1, 0.057926755602957444: 1, 0.05792245741815284: 1, 0.05791984855610774: 1, 0
.057909853578839744: 1, 0.05790603653818062: 1, 0.05790363373074419: 1, 0.05790304468538319: 1,
0.05790180689309511: 1, 0.05789823251321455: 1, 0.05788830251593259: 1, 0.057870820808864125: 1, 0
.057855391388727211: 1, 0.0578484217897947: 1, 0.05784778466924997: 1, 0.05783511262918458: 1,
0.05782944608374492: 1, 0.057829443526237534: 1, 0.0578229434057066: 1, 0.05781965089262699: 1, 0
.05779782847289417: 1, 0.057797715154353446: 1, 0.05779763872750783: 1, 0.05778634165184571: 1,
0.0577859171228853: 1, 0.057780663081126206: 1, 0.05777812810594129: 1, 0.05777103978691654: 1,
0.05776291517608539: 1, 0.057753595195968475: 1, 0.0577372058231764: 1, 0.05773366767128629: 1, 0
.05772624757177889: 1, 0.057720698499950956: 1, 0.05771100375044184: 1, 0.05770496005700385: 1,
0.05770434553007185: 1, 0.0577015926493309: 1, 0.05769269851606762: 1, 0.05769264594859007: 1,
0.05769180949004189: 1, 0.0576902727841028: 1, 0.05768107382248429: 1, 0.057678812908655584: 1, 0
.057677401191495975: 1, 0.057665155227422035: 1, 0.057655768876335146: 1, 0.057655259366702544: 1,
0.05764565001062448: 1, 0.0576362459290921: 1, 0.05763481372031307: 1, 0.057632944292861574: 1, 0
.05763195061614897: 1, 0.05762361792650682: 1, 0.05761614033762935: 1, 0.05761031835599454: 1,
0.05760320405228351: 1, 0.05759796003211757: 1, 0.05759369788770009: 1, 0.057588260175109235: 1, 0
.05758467121869458: 1, 0.057580854667299765: 1, 0.05758009282813215: 1, 0.05756870599942959: 1,
0.057568519419613044: 1, 0.05756666798500346: 1, 0.05755994822402688: 1, 0.057556798573199376: 1,
0.05754849312929873: 1, 0.05753706447519896: 1, 0.05753668085180008: 1, 0.05753146705018876: 1,
0.05752317498490102: 1, 0.05752205363275745: 1, 0.05751819340330262: 1, 0.05751677771623627: 1,
0.05751313440950476: 1, 0.05751275992632283: 1, 0.05750938477294252: 1, 0.057508856521615886: 1, 0
.05750758709515928: 1, 0.05750741002006723: 1, 0.057506557349325006: 1, 0.057502242773746125: 1, 0
.05750136315378604: 1, 0.05749252241591798: 1, 0.05748317870698001: 1, 0.057461964679543474: 1,
0.05746098006953407: 1, 0.05746058769362311: 1, 0.05745057192217691: 1, 0.057449315505210284: 1, 0
.0574456529650951: 1, 0.05742214004495393: 1, 0.0574156013909032: 1, 0.05741473412442706: 1,
0.05741203176557322: 1, 0.057412004380990186: 1, 0.05740975342591171: 1, 0.05739723957731101: 1, 0
.05739339947201144: 1, 0.057386976200615614: 1, 0.0573788346208875: 1, 0.057361899962774535: 1, 0
.057358235304330325: 1, 0.05734242571468405: 1, 0.05734226912877355: 1, 0.05733937304151486: 1,
0.05732447319213026: 1, 0.057309713523138864: 1, 0.057306519734839634: 1, 0.05729480245057403: 1,
0.057287715027647464: 1, 0.05728746000676191: 1, 0.0572781073961524: 1, 0.057267894321509104: 1, 0
.057251327175231854: 1, 0.05722967810541436: 1, 0.05721707288167089: 1, 0.057216963435693775: 1, 0
.05721021983549272: 1, 0.05720702460669921: 1, 0.05719459282377935: 1, 0.05718936737132827: 1,
0.057185248401230473: 1, 0.057180252833143534: 1, 0.05717874736758197: 1, 0.05717814693796946: 1,
0.05716937794902369: 1, 0.0571646343026916: 1, 0.057162626883744426: 1, 0.0571590816430599: 1, 0
.05715869607395095: 1, 0.057152266896913086: 1, 0.057140859395233865: 1, 0.05713529673227019: 1, 0
.057119836800506064: 1, 0.05711036598243585: 1, 0.05710413874299868: 1, 0.057102696063839296: 1,
0.057096522441957315: 1, 0.05709547146464332: 1, 0.05709174194213114: 1, 0.05707784924004528: 1,
0.05706940091197074: 1, 0.057043967062082646: 1, 0.05704150688763487: 1, 0.057040706819980046: 1,
0.0570387387833756: 1, 0.05703266471650999: 1, 0.057019369767146715: 1, 0.05700369899678706: 1,
0.056985905040532095: 1, 0.05697557391971157: 1, 0.05697172877896445: 1, 0.056970415582804836: 1,
0.056967728247498114: 1, 0.05695747924961771: 1, 0.056955778898519605: 1, 0.056939811120197394: 1,
0.05692244426068128: 1, 0.05691445497512317: 1, 0.05691242414323652: 1, 0.0569027408341644: 1,
0.05689741953006777: 1, 0.05689693434553708: 1, 0.05688993634469696: 1, 0.05688489295359696: 1, 0
.05688328778428244: 1, 0.056874327416769795: 1, 0.05687406040270572: 1, 0.05687238182085157: 1,
0.056864761219141934: 1, 0.05686300436698481: 1, 0.05684577447188341: 1, 0.05684452264888505: 1,
0.05684423831874685: 1, 0.05684149458371464: 1, 0.05683981580890119: 1, 0.056836203154745156: 1, 0
.05683502267987335: 1, 0.056830123383083485: 1, 0.05682769246685552: 1, 0.05682216358964478: 1,
0.05681937219691006: 1, 0.0568182582070369: 1, 0.05681564671655711: 1, 0.05679615909096608: 1,
0.05679495155595967: 1, 0.05679420705453772: 1, 0.05677892861445545: 1, 0.056778690301383654: 1, 0
.056777192640625015: 1, 0.05676981977929801: 1, 0.056763635746336874: 1, 0.05676154840989819: 1, 0
.05676097490082719: 1, 0.05675967962664895: 1, 0.05674625234124854: 1, 0.05673780626208466: 1,
0.056736489824023205: 1, 0.05673202300248216: 1, 0.056731366381198606: 1, 0.05672243526197856: 1,

0.05670249725627125: 1, 0.056702095226007235: 1, 0.05669802090890645: 1, 0.05669588301769995: 1, 0
.05668393033856755: 1, 0.05668263648401189: 1, 0.05668245638928101: 1, 0.0566821858894135: 1,
0.05668108641983368: 1, 0.056680203749704866: 1, 0.056678311273763785: 1, 0.05666961862776779: 1,
0.0566654258393992: 1, 0.05666440749586219: 1, 0.05666100932471213: 1, 0.05665702884536582: 1,
0.056652735166447504: 1, 0.05665128834779697: 1, 0.05664991529141782: 1, 0.05664704594678841: 1,
0.05664178469207796: 1, 0.056641767843434: 1, 0.05663683489495258: 1, 0.05663146502388118: 1,
0.056615397458256944: 1, 0.05661475781376103: 1, 0.056605596027551656: 1, 0.056597530494625736: 1,
0.056595941516669704: 1, 0.056593398158913254: 1, 0.056592728159908415: 1, 0.05658988185370403: 1,
0.056582378683976225: 1, 0.05657418127715604: 1, 0.05656813365100756: 1, 0.056567708883102794: 1,
0.05656464822894021: 1, 0.056563723551107725: 1, 0.05655626870024069: 1, 0.05655353918912128: 1, 0
.05654896866841036: 1, 0.05654381685733138: 1, 0.05652686417554743: 1, 0.056511548727272765: 1,
0.05650374347001695: 1, 0.05649839576068011: 1, 0.05649642108654623: 1, 0.05648607958823244: 1,
0.05648347277640871: 1, 0.056480660066477256: 1, 0.056479465561925554: 1, 0.05647916167638423: 1,
0.05647780156820981: 1, 0.056472636675882815: 1, 0.05646226403149251: 1, 0.05646041310751705: 1, 0
.056458760814461245: 1, 0.056458109350033106: 1, 0.0564425440972207: 1, 0.05644069638465336: 1, 0
.05643557955256468: 1, 0.0564124560313809: 1, 0.056401301085453895: 1, 0.05639981520387229: 1,
0.05638654412105063: 1, 0.05638185545298905: 1, 0.056371067813161396: 1, 0.056357152788396536: 1,
0.056345905686115284: 1, 0.05634114437603758: 1, 0.0563249980844561: 1, 0.056317712716247914: 1, 0
.056316699802105005: 1, 0.05631424330094902: 1, 0.05631266526339302: 1, 0.05630585436049399: 1,
0.05630483981746229: 1, 0.056292933434445: 1, 0.05629016395820059: 1, 0.05628808436803511: 1,
0.056287427481070414: 1, 0.05628685360670496: 1, 0.0562817675388368: 1, 0.05628128182183874: 1,
0.056271110337030084: 1, 0.05626920671337518: 1, 0.05626276438779693: 1, 0.05625616609083939: 1,
0.05624718827781778: 1, 0.056246207857650714: 1, 0.05624597021820721: 1, 0.05623832276954227: 1, 0
.05623083008532111: 1, 0.056205709948479385: 1, 0.05619941113938122: 1, 0.056193737622980945: 1, 0
.05618113237160609: 1, 0.05617294447798119: 1, 0.05617160541536444: 1, 0.05616650521247565: 1,
0.05616054250685827: 1, 0.056156069969757784: 1, 0.056144384088929786: 1, 0.05614123600590157: 1,
0.056131581200109706: 1, 0.05612921000199658: 1, 0.056114480246495034: 1, 0.05611350013643773: 1,
0.056112776588664925: 1, 0.05611003772461063: 1, 0.05609493109640176: 1, 0.05609207584318744: 1,
0.056082819189306396: 1, 0.05608081934265829: 1, 0.05607243675612875: 1, 0.05606673018817426: 1,
0.05605994351585429: 1, 0.056058711898309584: 1, 0.056056208192300644: 1, 0.056047531225294454: 1,
0.05604164792629342: 1, 0.05604102519797854: 1, 0.05604018015128832: 1, 0.0560399362904754: 1,
0.05603228335876886: 1, 0.05603091118004117: 1, 0.05602916013729892: 1, 0.05602872162440899: 1,
0.05601155612626008: 1, 0.05600048181808664: 1, 0.05599580129758018: 1, 0.05599394881994356: 1,
0.05599332988090135: 1, 0.055988550147460694: 1, 0.055979716735151175: 1, 0.055977611398508695: 1,
0.055973685575195664: 1, 0.055972654745332084: 1, 0.055962052352564115: 1, 0.05595593007833326: 1,
0.0559536651411912: 1, 0.05595181667188266: 1, 0.05593759862466439: 1, 0.055935320211726945: 1, 0
.055932001958418284: 1, 0.055930598447034005: 1, 0.055928410374947876: 1, 0.05592362323164735: 1,
0.05592219405384703: 1, 0.05591257706746034: 1, 0.05591119058416347: 1, 0.05590684434814985: 1,
0.05590504659005565: 1, 0.05590426295804052: 1, 0.055901886469763476: 1, 0.05590029532717819: 1, 0
.05589158483991761: 1, 0.05588314155028069: 1, 0.05587061005649759: 1, 0.055863254172104845: 1,
0.05586112911522152: 1, 0.055854181594872765: 1, 0.05585141363216388: 1, 0.055849288347799314: 1,
0.055847181248474154: 1, 0.055838212692160515: 1, 0.0558335913739962: 1, 0.055828835601238934: 1,
0.05582634839385401: 1, 0.05581899340547714: 1, 0.05581837395695678: 1, 0.05581388684567144: 1,
0.055813156391646024: 1, 0.055810220875820715: 1, 0.05579885852089329: 1, 0.05578416428754118: 1,
0.05578300088809367: 1, 0.055770862848643084: 1, 0.055768748232567965: 1, 0.05575760574088889: 1,
0.05575698613817009: 1, 0.05575003361320801: 1, 0.05574774364880822: 1, 0.05574647568443434: 1,
0.05573873799331722: 1, 0.05573753688510919: 1, 0.05573082018314126: 1, 0.055721158040783196: 1, 0
.055719173017760554: 1, 0.05571266591489388: 1, 0.05570110229963899: 1, 0.05569612010557137: 1,
0.05569029511832324: 1, 0.05568492220507975: 1, 0.05566477079536015: 1, 0.05566407872626239: 1,
0.05566087418964879: 1, 0.055659769364641606: 1, 0.055650939373332785: 1, 0.055647816941350535: 1,
0.05564318733446097: 1, 0.05564295918822263: 1, 0.05564248993603114: 1, 0.055635092657930874: 1, 0
.05563466455839578: 1, 0.05562847811105425: 1, 0.05562596371443594: 1, 0.055618281747567194: 1,
0.05561158763306951: 1, 0.0556079977857174: 1, 0.055605113118882984: 1, 0.05558475009183203: 1, 0
.05558266563103875: 1, 0.055576248160036625: 1, 0.05557108354423687: 1, 0.05557000483668509: 1,
0.05555044423743065: 1, 0.05554882194094694: 1, 0.05554755293061572: 1, 0.05553818017715325: 1,
0.05552219749607273: 1, 0.05551814530612411: 1, 0.05551725759979713: 1, 0.05551614987971655: 1,
0.05551220790447871: 1, 0.055511767501784784: 1, 0.055499344589438115: 1, 0.05549920244031434: 1,
0.05549735987546351: 1, 0.05548867592147319: 1, 0.05547521751728782: 1, 0.055470388081596114: 1, 0
.055468413347770334: 1, 0.055459150939968935: 1, 0.05545430926511007: 1, 0.05544737212386316: 1, 0
.0554425493135525: 1, 0.05543310784830646: 1, 0.055425287512774986: 1, 0.05541612674078255: 1,
0.05541183995285921: 1, 0.05540327477065467: 1, 0.05538779713516236: 1, 0.05537851439676443: 1,
0.05536718358303308: 1, 0.0553632825540161: 1, 0.055362120319030574: 1, 0.05534760654741947: 1, 0
.055338405416261956: 1, 0.05533726550097363: 1, 0.05533665084906614: 1, 0.05533222151634251: 1,
0.05532977074261686: 1, 0.05532849416735984: 1, 0.05532691217388956: 1, 0.05532111327172065: 1,
0.055303816480602494: 1, 0.05529179667151823: 1, 0.05527393963303962: 1, 0.05527363103277337: 1,
0.055268749971933734: 1, 0.05525915731411857: 1, 0.05524723436844285: 1, 0.055241959618151024: 1,
0.05523401315638541: 1, 0.0552329605714159: 1, 0.05523220924503206: 1, 0.05522303866049514: 1,
0.055222430611529365: 1, 0.05521168667623547: 1, 0.055211533969071976: 1, 0.05520429287978784: 1,
0.055203822992718456: 1, 0.05520263207701366: 1, 0.055201385089663504: 1, 0.05518438980433667: 1,
0.055182366191390685: 1, 0.05517385409855645: 1, 0.055168080561432395: 1, 0.05516593284948425: 1,
0.055164731151923385: 1, 0.05516135869680331: 1, 0.055153277683027205: 1, 0.05514695428182534: 1,
0.05514684716483423: 1, 0.05514504206263893: 1, 0.05514238197691969: 1, 0.055140553291431325: 1, 0
.05513905569261136: 1, 0.05513739110136345: 1, 0.05512776545654767: 1, 0.055125562595967764: 1,
0.055125106287503174: 1, 0.055119045845364936: 1, 0.05511401269132679: 1, 0.0551018532423323: 1, 0
.05509666747286695: 1, 0.05509581032720228: 1, 0.055095750332392626: 1, 0.05509189001080279: 1,
0.055089497487610335: 1, 0.055088202468547925: 1, 0.055084957727105005: 1, 0.05508481823846541: 1,
0.055078907551573124: 1, 0.05507493084918257: 1, 0.05506333255488051: 1, 0.055062168676540874: 1,

0.05505983906060893: 1, 0.05505974019442629: 1, 0.05505611379153508: 1, 0.055040082469632684: 1, 0
.05503798520067589: 1, 0.055037240671664926: 1, 0.05503017396588729: 1, 0.05502954393177075: 1,
0.05502204696564377: 1, 0.0550158004374148: 1, 0.055014603800753493: 1, 0.0550076276296202: 1, 0.0
5500425500612664: 1, 0.05500049345008716: 1, 0.054997082290224555: 1, 0.05499383667271218: 1,
0.05498627809342798: 1, 0.05498570812705758: 1, 0.054981763396902306: 1, 0.05497857694426502: 1, 0
.05497789734101882: 1, 0.0549768640831219: 1, 0.05497482284170531: 1, 0.054973801770501006: 1,
0.05497270424188612: 1, 0.054972259172882926: 1, 0.0549629109710427: 1, 0.05495133547912015: 1, 0.
05494914187115312: 1, 0.054940183374033356: 1, 0.05493609042843386: 1, 0.05493385503735143: 1,
0.054930306138816644: 1, 0.05492874685382153: 1, 0.054918393777989336: 1, 0.054915549236513365: 1,
0.05491213071676431: 1, 0.05489645594570474: 1, 0.0548955694165898: 1, 0.05489267008544611: 1,
0.05488991453206035: 1, 0.05487038680282802: 1, 0.054861359817226375: 1, 0.054859170533809905: 1,
0.05485543865329204: 1, 0.05485370133938925: 1, 0.054849280843306786: 1, 0.05484118010205528: 1, 0
.054838720386188734: 1, 0.054835789552378916: 1, 0.05482384142151079: 1, 0.05481785213065957: 1, 0
.05481583469442423: 1, 0.054813915664238586: 1, 0.05481316949129261: 1, 0.054812905422050556: 1, 0
.05481220783361345: 1, 0.0548119785304942: 1, 0.054810824747851976: 1, 0.05479262322144535: 1,
0.05479138626252242: 1, 0.0547848887580057: 1, 0.054781656692967896: 1, 0.05477362432840839: 1, 0.
054771949077373254: 1, 0.0547644578314922: 1, 0.05475425806105793: 1, 0.05474857925902257: 1,
0.0547448690736452: 1, 0.05473761363503746: 1, 0.05473695032583606: 1, 0.05473103600051176: 1,
0.0547279286356839: 1, 0.05472269691702299: 1, 0.05470530145328005: 1, 0.05470183334466301: 1,
0.054697253138305334: 1, 0.054691721550523105: 1, 0.05468746616799765: 1, 0.054679346738350273: 1,
0.05467393413783082: 1, 0.05465799564617876: 1, 0.05465468512769967: 1, 0.05465290007430178: 1,
0.05464951899191483: 1, 0.05464880855346219: 1, 0.05464541341830551: 1, 0.05464424883385868: 1,
0.05464033470930828: 1, 0.05463460930385079: 1, 0.05463457653089866: 1, 0.054603147582717816: 1, 0
.05460032407551078: 1, 0.05459816215644675: 1, 0.05459741454251041: 1, 0.0545907072845208: 1,
0.05457978881008485: 1, 0.0545785338768219: 1, 0.05457055428214547: 1, 0.05456652785245829: 1,
0.054563423400967904: 1, 0.05456240841205721: 1, 0.05454935766825735: 1, 0.05454554613969623: 1,
0.0545399697495966: 1, 0.05451563032334561: 1, 0.05450881294822303: 1, 0.054508727342952576: 1, 0
.054508502737489695: 1, 0.05450577383309183: 1, 0.05450505605614066: 1, 0.054492152801388236: 1, 0
.054479596524292004: 1, 0.05446615359549281: 1, 0.05445861427050839: 1, 0.054458028714607906: 1, 0
.054456122091633516: 1, 0.054454275381483605: 1, 0.05445426602935591: 1, 0.05444942256153724: 1, 0
.05444792879854707: 1, 0.054445438158003415: 1, 0.05443988592515153: 1, 0.05443499921819717: 1,
0.05443457910452423: 1, 0.0544290001980874: 1, 0.054426592654496245: 1, 0.054420458066035085: 1, 0
.05441635470742066: 1, 0.054409626734399925: 1, 0.054409025569714414: 1, 0.05440508796376413: 1, 0
.05440468908528234: 1, 0.05439804566908057: 1, 0.05439589201532529: 1, 0.0543940267986224: 1,
0.054390348089812225: 1, 0.05439014771878948: 1, 0.05438639152851526: 1, 0.05437969774840448: 1,
0.054376557496522496: 1, 0.054371665252136936: 1, 0.05435517202460289: 1, 0.05434328070156224: 1,
0.05432261303828312: 1, 0.05431960954052746: 1, 0.054306640795755194: 1, 0.05429991782977525: 1, 0
.05429922708974397: 1, 0.05429820361299515: 1, 0.05429684806940541: 1, 0.05428612389623087: 1,
0.05427812338547582: 1, 0.05427271223830562: 1, 0.05427092889159875: 1, 0.05426863988356455: 1,
0.054262729439691355: 1, 0.05425949802781047: 1, 0.05425564134523558: 1, 0.054251555519483456: 1,
0.05424348682202366: 1, 0.05423460202769728: 1, 0.05423342057856646: 1, 0.05421505679261438: 1,
0.05421357713678443: 1, 0.05421351326507826: 1, 0.05420754355213914: 1, 0.05420693795743315: 1,
0.05418179628067658: 1, 0.05418111301460222: 1, 0.05417381737040655: 1, 0.05416705901514155: 1,
0.05416098061622687: 1, 0.05414838259656045: 1, 0.05414019555190434: 1, 0.054138501575695636: 1, 0
.054138042930143696: 1, 0.05413549268908723: 1, 0.05412475690927978: 1, 0.05412099938778459: 1,
0.05411819809047788: 1, 0.054114267504418966: 1, 0.05410785933391985: 1, 0.05410774909377267: 1, 0
.05410729624637403: 1, 0.05410718426698746: 1, 0.05410469002698617: 1, 0.054104046639233516: 1,
0.054102590356121034: 1, 0.05410099697280402: 1, 0.05409799928486665: 1, 0.054097905168382934: 1,
0.054093961524430724: 1, 0.054079971652369795: 1, 0.05407280866715885: 1, 0.05407719111481726: 1,
0.05407299254083972: 1, 0.0540716465725878: 1, 0.05406791694673466: 1, 0.05406518630147752: 1,
0.054051475468130494: 1, 0.054050995913613904: 1, 0.05404790423174226: 1, 0.05403472191871546: 1,
0.05403425253868671: 1, 0.05403111066306433: 1, 0.05400580332663626: 1, 0.05400520474261211: 1,
0.05400397256609391: 1, 0.053998615923651724: 1, 0.053992889595564114: 1, 0.053991864750289144: 1,
0.053983307363507316: 1, 0.05397667780850206: 1, 0.0539658534696716: 1, 0.05394709618621853: 1,
0.05394303303602161: 1, 0.05394048867520777: 1, 0.053935297691085446: 1, 0.05393436447036814: 1, 0
.05392966895121768: 1, 0.053926733779894744: 1, 0.053910952772243864: 1, 0.0539080636870931: 1, 0
.05390665697471392: 1, 0.05390215462931262: 1, 0.053896418828632726: 1, 0.0538840757630187: 1,
0.05387144915018246: 1, 0.05385396605243076: 1, 0.05384111922127427: 1, 0.05383421222783716: 1,
0.05382779753570794: 1, 0.05382714911598998: 1, 0.05382054181005053: 1, 0.053814639536154216: 1, 0
.053781136485080525: 1, 0.053779032136378635: 1, 0.05377699925148388: 1, 0.05376783501114892: 1, 0
.05376354296114361: 1, 0.053752821863519255: 1, 0.0537509627475766184: 1, 0.053743001692297426: 1,
0.05374157838689177: 1, 0.05372303262377706: 1, 0.05371752828635168: 1, 0.053715543144300604: 1, 0
.05368898566369565: 1, 0.05368877198649823: 1, 0.05368376774895662: 1, 0.053664781709854566: 1,
0.05366142353215488: 1, 0.05366128927891363: 1, 0.05366065538552464: 1, 0.053660151083420426: 1, 0
.0536566537084098: 1, 0.053635075127407304: 1, 0.05363239197251923: 1, 0.05362864171296437: 1,
0.05362787598738796: 1, 0.0536134319867723: 1, 0.05360101749485122: 1, 0.05359053137479291: 1,
0.05358885500304615: 1, 0.053579551294551594: 1, 0.05357792640462405: 1, 0.053567427631179935: 1,
0.05356366843244328: 1, 0.05356067024939278: 1, 0.053527701034110094: 1, 0.05351934708215794: 1, 0
.05351554941079198: 1, 0.05350930704396571: 1, 0.05349845885500472: 1, 0.053497174063634446: 1,
0.0534943708482019: 1, 0.05349384441887261: 1, 0.05348912677015464: 1, 0.05348766996449549: 1,
0.05348691499686964: 1, 0.053486092850383166: 1, 0.053486045856693046: 1, 0.05348413510987475: 1,
0.053481225648665275: 1, 0.053477099726334826: 1, 0.053469012737748886: 1, 0.05346733652316728: 1,
0.053457339944933145: 1, 0.05345223742405866: 1, 0.05344906513100804: 1, 0.053448058159490656: 1,
0.05342097106626379: 1, 0.053419336764388856: 1, 0.05341032751169767: 1, 0.053408499146826216: 1,
0.0534027873579443: 1, 0.05339443736313962: 1, 0.05339410205572113: 1, 0.05339172159094511: 1,
0.05339075350987181: 1, 0.05338452076983896: 1, 0.05338001712369428: 1, 0.053379525674257036: 1, 0
.053373777151742456: 1, 0.05337105322845702: 1, 0.053366124537301725: 1, 0.05336481501311409: 1, 0

.05336274298988099: 1, 0.053350700443313054: 1, 0.05334522818232851: 1, 0.05334266671488771: 1,
0.05333478402035305: 1, 0.05333034306960471: 1, 0.0532229092255515: 1, 0.05332134843457571: 1,
0.053317683552281295: 1, 0.053314033909318055: 1, 0.053309953170565604: 1, 0.053304196929733844: 1
, 0.05330222867676605: 1, 0.05328903123529187: 1, 0.053286683212562934: 1, 0.05328052188626737: 1,
0.05327827060635142: 1, 0.05327694234503495: 1, 0.05327525261292107: 1, 0.05326973704517592: 1,
0.053269717577522524: 1, 0.053264751306970205: 1, 0.053256199853782: 1, 0.05324450611389721: 1,
0.05324386466793587: 1, 0.05324174848823447: 1, 0.05323667732418374: 1, 0.053229026488208986: 1, 0
.0532286308229554: 1, 0.05322714855141544: 1, 0.05322701559560966: 1, 0.05322016210480436: 1,
0.0532196262487202: 1, 0.05320504089241786: 1, 0.0531973201090606: 1, 0.05318658035737378: 1,
0.053179610349101916: 1, 0.05317918261116605: 1, 0.053175671260674066: 1, 0.05317558820444705: 1,
0.053166643701239566: 1, 0.053163503949214076: 1, 0.05316052116088334: 1, 0.05315680391573617: 1,
0.05315191784178098: 1, 0.05314993320197253: 1, 0.05314969020798118: 1, 0.053139154523456494: 1, 0
.05313372200041926: 1, 0.05312698818597801: 1, 0.0531163941344101: 1, 0.053109170900555926: 1,
0.05310305230626758: 1, 0.05310268540503003: 1, 0.05308990681423789: 1, 0.05308640425038824: 1,
0.05308418338294546: 1, 0.05306715644543865: 1, 0.05306290090095089: 1, 0.05304779057813105: 1,
0.053047677368661825: 1, 0.05304458697598385: 1, 0.05303100308315139: 1, 0.053011704744870644: 1,
0.053006235262719636: 1, 0.053005480080376303: 1, 0.05300428459796159: 1, 0.05300322385672912: 1,
0.05300241722754315: 1, 0.05299846973962048: 1, 0.052994411650562304: 1, 0.05299233620903275: 1, 0
.0529825197952582: 1, 0.05298131717431585: 1, 0.05297437924392215: 1, 0.05295635785409305: 1,
0.05294983195223429: 1, 0.052945447691958296: 1, 0.052934556424138586: 1, 0.05292676609878229: 1,
0.05291532523341956: 1, 0.05291514432937796: 1, 0.05291292341096601: 1, 0.05289396091221708: 1,
0.05289368436340157: 1, 0.05289079192347008: 1, 0.052890441996427895: 1, 0.0528875175250551: 1, 0
.05287720108386856: 1, 0.05286973654086283: 1, 0.05286948561284825: 1, 0.052868805846030986: 1,
0.052862998010576326: 1, 0.052862584617514606: 1, 0.0528302625778121: 1, 0.05283021315325798: 1, 0
.05282177703299802: 1, 0.0528123591962486: 1, 0.052801404459179434: 1, 0.05279925543550155: 1,
0.052788929329548276: 1, 0.05277783480799951: 1, 0.0527745983564626: 1, 0.05277319064867976: 1,
0.05277249465506732: 1, 0.052769056937142664: 1, 0.05276829876021977: 1, 0.052768109254902995: 1,
0.05276035572082319: 1, 0.05275826979954371: 1, 0.052756979112017266: 1, 0.05275618871886711: 1, 0
.05274741614697859: 1, 0.05274466051984106: 1, 0.05274463393270941: 1, 0.05273947525083756: 1,
0.05273497799464712: 1, 0.05273090893858876: 1, 0.0527305857959958: 1, 0.05272952403148373: 1,
0.052725750627102365: 1, 0.05271761841408079: 1, 0.05270464453485437: 1, 0.052690488193228094: 1,
0.05268852114688556: 1, 0.05268676115514115: 1, 0.052673419083451335: 1, 0.052672018252604764: 1,
0.0526668204433761: 1, 0.05265915741543227: 1, 0.052656006857033186: 1, 0.052647726824036324: 1, 0
.05264275163327782: 1, 0.05264244468561351: 1, 0.052639635312423744: 1, 0.052633430368796294: 1, 0
.05262990134797853: 1, 0.05262868326654822: 1, 0.05262196676818726: 1, 0.0526212741332137: 1,
0.05261684980085976: 1, 0.052614756803852795: 1, 0.052613259507227755: 1, 0.05261208821066986: 1,
0.05260901813929374: 1, 0.052604669786071104: 1, 0.05260456856720617: 1, 0.05260196888457964: 1, 0
.05259757202846329: 1, 0.05259280844224882: 1, 0.05259198473971625: 1, 0.05258926034223192: 1,
0.05258795875448266: 1, 0.052579232986549804: 1, 0.05257392642305223: 1, 0.0525689564697735: 1, 0
.052564891284884036: 1, 0.05255178649378722: 1, 0.05255136012520828: 1, 0.052545689126528024: 1, 0
.05253609608424192: 1, 0.05253218782803344: 1, 0.05252585180414256: 1, 0.05251599623624738: 1,
0.05251567335202142: 1, 0.05251422845869309: 1, 0.052514219783414: 1, 0.0525106183321196: 1,
0.05250247586502558: 1, 0.0524994325513002: 1, 0.05249697691660616: 1, 0.05248289744175427: 1,
0.05246814694330299: 1, 0.0524653290054419: 1, 0.05246464588972198: 1, 0.05246188002782705: 1,
0.05245675347093411: 1, 0.05245468133610108: 1, 0.05245226156392724: 1, 0.05245129406143226: 1,
0.05244501003169709: 1, 0.05244358259955044: 1, 0.0524341561899006: 1, 0.05243408856172525: 1,
0.052430966947387005: 1, 0.052430818440442804: 1, 0.05242890090959414: 1, 0.05242298667345597: 1,
0.05239427591916609: 1, 0.05238759740142905: 1, 0.052371915657948284: 1, 0.052371611795420984: 1,
0.05236128630624154: 1, 0.052356569522631985: 1, 0.05235647661809784: 1, 0.05232852572764886: 1, 0
.0523270783321242: 1, 0.05232240638965536: 1, 0.05231942215544733: 1, 0.05231775238981683: 1,
0.05229594709090882: 1, 0.05228161198385947: 1, 0.05227940259454636: 1, 0.0522749660274764: 1,
0.0522677944562787: 1, 0.05226123626820358: 1, 0.05224590138101162: 1, 0.05222261120422067: 1,
0.05222204489234491: 1, 0.05222119746950431: 1, 0.05221909599954434: 1, 0.0522103911883456: 1,
0.052203809878892164: 1, 0.052200396632648374: 1, 0.05218102268414213: 1, 0.052176309790544724: 1,
0.052174905883957054: 1, 0.05217392907716707: 1, 0.05217244328220989: 1, 0.05215688179471456: 1,
0.05214286099184472: 1, 0.052141368314319765: 1, 0.052124718551357696: 1, 0.05212388474705661: 1,
0.05211852800305357: 1, 0.052113677026916765: 1, 0.052110656774769525: 1, 0.05210773976583285: 1,
0.052106302737791856: 1, 0.0521020307418727: 1, 0.0520946472274659: 1, 0.05209213182041185: 1,
0.052088843265626864: 1, 0.05208690123831297: 1, 0.052071880715477685: 1, 0.05205803559995691: 1,
0.05204772056065152: 1, 0.05204650674617077: 1, 0.0520464894624928: 1, 0.05203949815992554: 1,
0.05203407367386863: 1, 0.052023332501858296: 1, 0.05201653264985682: 1, 0.05201632222015146: 1,
0.05201422557762262: 1, 0.05201269785072005: 1, 0.05199448328322179: 1, 0.05199008864136417: 1,
0.05198967268269781: 1, 0.05198166040990986: 1, 0.05197991722867721: 1, 0.05197684271260515: 1,
0.05196881687880982: 1, 0.051966246558756715: 1, 0.05196357365975239: 1, 0.051962645694575565: 1,
0.051960645365557282: 1, 0.051955381445379915: 1, 0.05195269983553259: 1, 0.05195025024314386: 1, 0
.05194662022155945: 1, 0.051940279466510544: 1, 0.05193606017146662: 1, 0.05193223454128969: 1,
0.051928639563593684: 1, 0.051923313138826296: 1, 0.05191645826463622: 1, 0.0519163324438797: 1, 0
.05191541765438468: 1, 0.05191448231103263: 1, 0.05191036628127521: 1, 0.05190790903954198: 1,
0.05190324976957584: 1, 0.05190213219803095: 1, 0.0518985729994758: 1, 0.0518975426117363: 1,
0.05188812765825665: 1, 0.051887360589731396: 1, 0.05188685432017036: 1, 0.051881487037774544: 1,
0.0518803021958238: 1, 0.05187995940757314: 1, 0.05187502536521477: 1, 0.05186827552585412: 1,
0.051866419013847156: 1, 0.051863162279390494: 1, 0.051856832883065876: 1, 0.05185560602449081: 1,
0.05184781679625339: 1, 0.051847324906130976: 1, 0.051846950961021036: 1, 0.05184146434279906: 1,
0.051836832679206: 1, 0.051833704663325486: 1, 0.051825758344888014: 1, 0.05180003190051574: 1, 0.
.051786945133390716: 1, 0.05178132612515109: 1, 0.0517803747657778: 1, 0.05178000756864737: 1,
0.05177179366795786: 1, 0.05177176240616076: 1, 0.051763735940903916: 1, 0.05175497913884208: 1, 0
.05175327555590053: 1, 0.05174572672359683: 1, 0.051745669621390614: 1, 0.05173849012034571: 1,

0.05173593355265045: 1, 0.051730039523067844: 1, 0.051725006840559085: 1, 0.051721984057691864: 1, 0.0517213940915126: 1, 0.0517128767214774: 1, 0.05171249300558727: 1, 0.051686493301020514: 1, 0.05168432288085142: 1, 0.05168409716918594: 1, 0.05167671047730653: 1, 0.05167544350274719: 1, 0.05167300467947987: 1, 0.05167217822395158: 1, 0.05166483540220848: 1, 0.051664262506869355: 1, 0.05165879761427238: 1, 0.05165827023192733: 1, 0.051653196931677255: 1, 0.05165264388338388: 1, 0.051648002219446: 1, 0.05164700569529237: 1, 0.05163359468189258: 1, 0.051618137064810575: 1, 0.05160688680543509: 1, 0.05160273988187128: 1, 0.051594545337213284: 1, 0.051588987764369695: 1, 0.0515853980908824: 1, 0.05158435299420456: 1, 0.05158035845563512: 1, 0.05157464174099098: 1, 0.05157317124059897: 1, 0.051571034258561674: 1, 0.05155743215380453: 1, 0.051556330988152786: 1, 0.05154926025196383: 1, 0.05154213732994729: 1, 0.051539610150966766: 1, 0.05153469520837199: 1, 0.0515324839303336: 1, 0.05152604930795077: 1, 0.051524406141825504: 1, 0.05151904385161113: 1, 0.05151785032699353: 1, 0.051505454632248135: 1, 0.051500322694544194: 1, 0.05149935634533147: 1, 0.05149853700772528: 1, 0.051494223046765444: 1, 0.05147671115742387: 1, 0.05146843366542035: 1, 0.05146629407984362: 1, 0.05146159382843381: 1, 0.0514590733080218: 1, 0.05144616591169981: 1, 0.05144300026196243: 1, 0.051441386083414656: 1, 0.051436821359083174: 1, 0.05142449025775274: 1, 0.05142345820621494: 1, 0.051411371248528924: 1, 0.051404386786488857: 1, 0.051400661292449384: 1, 0.051399337887460525: 1, 0.051391652643676164: 1, 0.05137648264645721: 1, 0.05137542466930209: 1, 0.05137418100459276: 1, 0.05135570993411506: 1, 0.05135220857530273: 1, 0.05134857954448106: 1, 0.051347477422085785: 1, 0.051344246849878636: 1, 0.0513407865476881: 1, 0.05131645908596299: 1, 0.05130183201367123: 1, 0.0512971595946169: 1, 0.05129268532955607: 1, 0.05128473049135677: 1, 0.05128189966813988: 1, 0.05128010938968131: 1, 0.05127063365215615: 1, 0.05127055321157581: 1, 0.05126978260987222: 1, 0.051255671915344206: 1, 0.05125179337036158: 1, 0.051247374289037216: 1, 0.051246110554095455: 1, 0.05124402646944641: 1, 0.0512389829945304: 1, 0.05123696162245708: 1, 0.0512355125240893: 1, 0.05123243848244675: 1, 0.05122852976052028: 1, 0.05122570085212627: 1, 0.051214105502319925: 1, 0.05121402628730047: 1, 0.05121212168729449: 1, 0.051205795947280176: 1, 0.05120515120887321: 1, 0.05120303100791907: 1, 0.051199838931200274: 1, 0.051195378233097194: 1, 0.05118959383839221: 1, 0.05117244959839934: 1, 0.05116620025559158: 1, 0.05116127631632823: 1, 0.0511604955068517: 1, 0.051160173301604696: 1, 0.051157581106439: 1, 0.05114990054363178: 1, 0.0511461313752235: 1, 0.051135773429991836: 1, 0.05112790273981407: 1, 0.05112305706534106: 1, 0.05112205839114165: 1, 0.051119234479337604: 1, 0.05111740274656188: 1, 0.05110410020543533: 1, 0.051103755700162366: 1, 0.05110360784360469: 1, 0.05110335296161139: 1, 0.0511032058734693: 1, 0.051089338395526596: 1, 0.0510867678744806: 1, 0.051082549092475955: 1, 0.051072522825333054: 1, 0.0510692577841781: 1, 0.05104986894936974: 1, 0.05104237835559984: 1, 0.051040909680461446: 1, 0.05103286206485747: 1, 0.05103123891816236: 1, 0.051015677981402406: 1, 0.051015122988565045: 1, 0.05100929607657068: 1, 0.05099085372050288: 1, 0.05098338923775412: 1, 0.05098092469544234: 1, 0.05095790209180144: 1, 0.050954861894994374: 1, 0.05095318067792958: 1, 0.050949547342061356: 1, 0.05094755621654676: 1, 0.05094449893972725: 1, 0.05094273427804408: 1, 0.05094161535683815: 1, 0.050929450481988825: 1, 0.050929202718362744: 1, 0.05092209499124807: 1, 0.05092057695755356: 1, 0.050907763691694335: 1, 0.05089813898870425: 1, 0.05089694339021686: 1, 0.05088721562728293: 1, 0.05088636060305261: 1, 0.0508789302804017: 1, 0.050876940325168984: 1, 0.050870767230384174: 1, 0.050869859760996186: 1, 0.05086809910305197: 1, 0.05086596514889387: 1, 0.05086249896949466: 1, 0.050852058908376165: 1, 0.05083370650078656: 1, 0.05082925597768945: 1, 0.05082692446467707: 1, 0.05082380367422629: 1, 0.050815658146384814: 1, 0.050809456851617786: 1, 0.050785922719437396: 1, 0.05078574419442051: 1, 0.05077722415401442: 1, 0.05076393793788141: 1, 0.05075893887036912: 1, 0.050757913971251276: 1, 0.05075528743024878: 1, 0.050741723781775175: 1, 0.05074054943997887: 1, 0.05073836227669027: 1, 0.05073196720576211: 1, 0.05072251843165155: 1, 0.05072045420862525: 1, 0.05071890713959986: 1, 0.0507164765283972: 1, 0.05071606818743664: 1, 0.0507013987390383: 1, 0.05069867542054019: 1, 0.05069573945671714: 1, 0.05068466945145479: 1, 0.05068149755970483: 1, 0.05067346028643542: 1, 0.05067016407984015: 1, 0.05067001999535199: 1, 0.05066929154906887: 1, 0.05066925022299926: 1, 0.05064445203722133: 1, 0.050644216301654124: 1, 0.05064085411297552: 1, 0.05063095120661864: 1, 0.0506222426602974: 1, 0.05061745299742331: 1, 0.05061389501389483: 1, 0.05059320941200943: 1, 0.05058533075987261: 1, 0.05058427057737633: 1, 0.0505611988777673: 1, 0.05055984419700717: 1, 0.0505532761019956: 1, 0.050536664214439746: 1, 0.050528901307941784: 1, 0.05052650540730126: 1, 0.05051939960855728: 1, 0.05051611303097592: 1, 0.05051609634093142: 1, 0.05051115120274761: 1, 0.05050563170970089: 1, 0.05050511903938461: 1, 0.05050348811969106: 1, 0.050502084929367086: 1, 0.05049793323609935: 1, 0.05049044379970297: 1, 0.05048566960363701: 1, 0.05047985258284712: 1, 0.05046931362594822: 1, 0.05046468350790134: 1, 0.05046034716652483: 1, 0.0504325706745797: 1, 0.05043194467952709: 1, 0.05042646547022141: 1, 0.050424019051792786: 1, 0.05041763863568785: 1, 0.05041757757535421: 1, 0.05041587664912242: 1, 0.05040608615058278: 1, 0.0504000320107493: 1, 0.050399386334557525: 1, 0.05039120603886711: 1, 0.05038984764381303: 1, 0.05038974768820523: 1, 0.05037596185736406: 1, 0.05036838720113748: 1, 0.05036621097908081: 1, 0.05036038017386902: 1, 0.05035797000614071: 1, 0.050353648822120095: 1, 0.05032071285644382: 1, 0.050318535106871995: 1, 0.050312405209573904: 1, 0.05031111953200844: 1, 0.05026303055514143: 1, 0.05026298647601293: 1, 0.05025015802422595: 1, 0.05024935040306201: 1, 0.05024886138176064: 1, 0.05024659946327281: 1, 0.05024585073631033: 1, 0.05024222885137457: 1, 0.05024108763096545: 1, 0.0502304928105219: 1, 0.05022227261651466: 1, 0.050219586805887104: 1, 0.05021693516442335: 1, 0.05021474867552903: 1, 0.05019796738791809: 1, 0.05019360646406469: 1, 0.05019175323457643: 1, 0.05018992924871579: 1, 0.05018871231137971: 1, 0.050184302245966636: 1, 0.05018231532600109: 1, 0.05018134743722158: 1, 0.050177060312425706: 1, 0.05017630012583322: 1, 0.050176132373769805: 1, 0.05016714817492876: 1, 0.050147418480570034: 1, 0.05014177162703693: 1, 0.05013689183256448: 1, 0.05012944655281036: 1, 0.050129096292564825: 1, 0.050118967586333336: 1, 0.0501012744803242855: 1, 0.05010596772025601: 1, 0.050104338156218: 1, 0.05010271007743688: 1, 0.05010241837384125: 1, 0.050100002356814166: 1, 0.05009899588864293: 1, 0.050093405552066816: 1, 0.050089900234891814: 1, 0.0500895549699962: 1, 0.05008932585342338: 1, 0.050086128552699664: 1, 0.050071223527010864: 1, 0.05005865562079524: 1, 0.050057611881810606: 1, 0.050056439541441004: 1, 0.0500540144303011: 1, 0.0500529449244598: 1, 0.05004477420144116: 1, 0.050044064967285966: 1, 0.05004331455479867: 1, 0.0500385067387944: 1, 0.050038290834171134: 1, 0.0500358032305778: 1, 0.05003499168082456: 1,

.048435896737637554: 1, 0.04843406552597718: 1, 0.04842501342988212: 1, 0.048424637485201136: 1, 0
.04841920425618749: 1, 0.04841565954572409: 1, 0.048396692517926276: 1, 0.04839364732579023: 1,
0.04838265457773765: 1, 0.048380487975093096: 1, 0.048378733079139376: 1, 0.048375618202389926: 1,
0.04837086519450683: 1, 0.048370364442447376: 1, 0.048369737266989246: 1, 0.04836676800130468: 1,
0.04836537726920802: 1, 0.04835777362033978: 1, 0.04835696198321172: 1, 0.048356435212907896: 1, 0
.04835578604252278: 1, 0.0483420545995215: 1, 0.04833746270775409: 1, 0.04832915141376906: 1,
0.04832190702317515: 1, 0.04832021158911747: 1, 0.04831584794016629: 1, 0.048312214945183805: 1, 0
.04831034941837062: 1, 0.04830599578741165: 1, 0.048303414117080806: 1, 0.048292082905363264: 1, 0
.048291209741043145: 1, 0.048286734535744655: 1, 0.048286097642825015: 1, 0.0482860414413636: 1, 0
.048281274411597394: 1, 0.048280813558403364: 1, 0.048271846229818366: 1, 0.048261552997532604: 1,
0.04825977394862721: 1, 0.04825814662592605: 1, 0.04825759742167131: 1, 0.048252568055949074: 1, 0
.048252534962683204: 1, 0.048250415364759554: 1, 0.048248790565237905: 1, 0.04824264207224488: 1,
0.04823584254012312: 1, 0.04822501430419273: 1, 0.048222262330733526: 1, 0.04821934745746472: 1, 0
.04818836733962399: 1, 0.04818260642648503: 1, 0.04817652913926324: 1, 0.04816566236848617: 1,
0.048165280865568: 1, 0.0481651312124506: 1, 0.04816341547410936: 1, 0.04816122460033909: 1,
0.04816030140401232: 1, 0.048158969555807646: 1, 0.048136472946838094: 1, 0.048122666747006736: 1,
0.04812092727714211: 1, 0.048115915236570626: 1, 0.04811499032923145: 1, 0.04811244684839887: 1, 0
.0480842687934733: 1, 0.048084083089767624: 1, 0.04808039612736248: 1, 0.048079019476746754: 1, 0
.0480647906742061: 1, 0.0480525453575058: 1, 0.04805079832457535: 1, 0.048045710253996995: 1,
0.048044406015807714: 1, 0.04803550855996077: 1, 0.048035333390523495: 1, 0.048032597992525586: 1,
0.048029909113817305: 1, 0.04802651124082287: 1, 0.048026298970879136: 1, 0.04802085254844418: 1,
0.048014902991673804: 1, 0.04801192600731552: 1, 0.048009603616203364: 1, 0.04800659290832396: 1,
0.048006471199933974: 1, 0.047999316243770934: 1, 0.04799086249452973: 1, 0.04798717470503333: 1,
0.04798507726306922: 1, 0.047978183919546086: 1, 0.04797162320118125: 1, 0.0479713991489731: 1, 0
.0479692158190868: 1, 0.04795931984991429: 1, 0.04795784661237934: 1, 0.047957724596585115: 1,
0.04795640422676669: 1, 0.04794914067444074: 1, 0.04794656622473519: 1, 0.04794260281854445: 1,
0.04793565068226895: 1, 0.047929698970666124: 1, 0.047927509677185266: 1, 0.047923681126493096: 1,
0.04792078916157046: 1, 0.047912324813389806: 1, 0.04790958134691354: 1, 0.04790708063416596: 1, 0
.047906686230718476: 1, 0.04790577660358303: 1, 0.04790313865407826: 1, 0.04790093725177244: 1,
0.04789810695049787: 1, 0.04789570863911581: 1, 0.04789538936727367: 1, 0.047893963199741166: 1, 0
.04789160949592665: 1, 0.04787958935563698: 1, 0.04787816262712501: 1, 0.047873878068086545: 1,
0.04787235595219456: 1, 0.04787064662664142: 1, 0.04787058444140946: 1, 0.04786348550365261: 1,
0.04786276161191755: 1, 0.047851954973805705: 1, 0.047850879467569024: 1, 0.04784709132178536: 1,
0.04783572215507588: 1, 0.04782244342846344: 1, 0.04781750431839928: 1, 0.04781266848821615: 1,
0.04781204244039587: 1, 0.04780656400317482: 1, 0.04780002558763187: 1, 0.04779935387847177: 1,
0.04779597284531875: 1, 0.047794791638007525: 1, 0.04778905666813279: 1, 0.04778866607065323: 1, 0
.047787527070601986: 1, 0.04778448848076986: 1, 0.047780289301296575: 1, 0.04777981854721865: 1, 0
.04776990460059968: 1, 0.047757633846095895: 1, 0.04774575440521581: 1, 0.04774428748158555: 1,
0.04774109934105107: 1, 0.04773916946994606: 1, 0.04773459199871278: 1, 0.04772517241630241: 1,
0.04772260224161307: 1, 0.0477116309542253: 1, 0.047709923929370596: 1, 0.047690747054759584: 1, 0
.04768915436526489: 1, 0.047681957136891655: 1, 0.047654669324967945: 1, 0.047652655053776284: 1,
0.047652054718971465: 1, 0.04762981777973303: 1, 0.04762063726447507: 1, 0.04761949530078507: 1,
0.047617738420836: 1, 0.047617502866677125: 1, 0.047615755204344794: 1, 0.04761409362178837: 1, 0
.04761077843440438: 1, 0.0475990497128761: 1, 0.04759848343537346: 1, 0.047588341428373544: 1,
0.04758175442464083: 1, 0.04758160789557741: 1, 0.047579235782238216: 1, 0.04757562590112407: 1, 0
.047560573763333794: 1, 0.04755336968854144: 1, 0.047550710738726486: 1, 0.04754815669298028: 1, 0
.0475329742343616: 1, 0.047528868068697695: 1, 0.047519319143771825: 1, 0.047513751333782474: 1, 0
.04751189823783618: 1, 0.04750541662715944: 1, 0.04749664460728185: 1, 0.047491445866071444: 1,
0.047485241658725245: 1, 0.04748204289641638: 1, 0.04747936207950358: 1, 0.04747759085228902: 1,
0.047472528590518835: 1, 0.04746762026433803: 1, 0.04746231846441022: 1, 0.04746125273560915: 1,
0.04743556215303497: 1, 0.04743486900989605: 1, 0.047432206378560694: 1, 0.04742628309475331: 1, 0
.04741713794319963: 1, 0.04741447551724397: 1, 0.04740806016002308: 1, 0.04740268475646252: 1,
0.047394754216204975: 1, 0.04739221795838023: 1, 0.04738971129614868: 1, 0.04738718176883578: 1,
0.047380320038775396: 1, 0.04737703267516754: 1, 0.04737579653738148: 1, 0.047372463429362806: 1,
0.047371617267561714: 1, 0.04735317808034469: 1, 0.047343148886019835: 1, 0.04734169301192488: 1,
0.047323903352518626: 1, 0.04732380227539719: 1, 0.04730234223043164: 1, 0.047301774362185064: 1,
0.04729755789163553: 1, 0.04729476060615309: 1, 0.047285254564283646: 1, 0.04727625613478911: 1, 0
.047274785135312886: 1, 0.04727397226051868: 1, 0.04726716253793914: 1, 0.04726452633339962: 1,
0.0472610058101229: 1, 0.04725169022441695: 1, 0.04725149949883383: 1, 0.047237169538415016: 1,
0.04723185972347217: 1, 0.0472278360319756: 1, 0.04722566684857631: 1, 0.04722514567139224: 1,
0.04721080751297542: 1, 0.04721056028843613: 1, 0.047203817309599196: 1, 0.04720307576043575: 1, 0
.0472007471947119: 1, 0.04719155510985898: 1, 0.04718480302391549: 1, 0.04717042495582341: 1,
0.04715706260949497: 1, 0.0471560656599617104: 1, 0.0471497578765557175: 1, 0.04714596191484123: 1,
0.047143527770757296: 1, 0.047141575496129504: 1, 0.04713866499185449: 1, 0.04713732418741779: 1,
0.04713672615807644: 1, 0.04713289860967342: 1, 0.04713218706832115: 1, 0.04712913783860354: 1,
0.04712251546643128: 1, 0.04712182502516209: 1, 0.04711859843379234: 1, 0.04711344618541752: 1,
0.04710764053541567: 1, 0.04710459260673813: 1, 0.04709868780534547: 1, 0.04709402632139317: 1,
0.04708924994040043: 1, 0.04708664957359955: 1, 0.04708076141944113: 1, 0.04707348108274103: 1,
0.047071049751836055: 1, 0.04706985476822922: 1, 0.04706744640029326: 1, 0.04706624629289172: 1,
0.04706103758589501: 1, 0.04704635862174827: 1, 0.04704538581501749: 1, 0.04704507566111101: 1,
0.04703670387482487: 1, 0.04703523717345412: 1, 0.04702475953191981: 1, 0.04702361634758413: 1,
0.04701631607210141: 1, 0.04701509093647155: 1, 0.04699734282380613: 1, 0.04699287780273712: 1,
0.04698667522956431: 1, 0.04697907907860287: 1, 0.04697726036758344: 1, 0.046973767858465826: 1, 0
.04697056907304948: 1, 0.04696350265554387: 1, 0.04696237257001701: 1, 0.04696217890405603: 1,
0.04695850204950435: 1, 0.04695320990401813: 1, 0.04693619207186587: 1, 0.04693487376234412: 1,
0.04693382738228867: 1, 0.04693169137999204: 1, 0.04692841855414407: 1, 0.04692771532797951: 1,
0.04691412702255811: 1, 0.046908662610691286: 1, 0.046907528810390064: 1, 0.046900165757730705: 1,

0.04689878012767538: 1, 0.0468981464469781: 1, 0.04689256387943237: 1, 0.04689020069763435: 1,
0.04687465501147004: 1, 0.04687080931059566: 1, 0.046863543604976375: 1, 0.046863057836029856: 1,
0.04686125758140077: 1, 0.046858121042171796: 1, 0.04685668764826082: 1, 0.04685443848868663: 1, 0
.046854298914372546: 1, 0.046851791518089755: 1, 0.046851084861907956: 1, 0.046851053179110834: 1,
0.046846234159435785: 1, 0.04683881364350524: 1, 0.04683813242473135: 1, 0.04683537152898247: 1,
0.04682878219032903: 1, 0.046817200583048266: 1, 0.04681247286724473: 1, 0.04680402470165057: 1, 0
.046795536994224986: 1, 0.04678931638457816: 1, 0.046785816287129654: 1, 0.04678518683133038: 1, 0
.046782954768990886: 1, 0.04677384894863222: 1, 0.046768222270706115: 1, 0.04676708070369395: 1, 0
.04675512225915505: 1, 0.046751859109852224: 1, 0.046742231125988756: 1, 0.046739596620472654: 1,
0.04673907656185473: 1, 0.04673822990336435: 1, 0.04673627096713536: 1, 0.04673480392351016: 1,
0.04673066300710176: 1, 0.04673084353398506: 1, 0.04673070190220632: 1, 0.04672930153450959: 1,
0.04672775595948224: 1, 0.04672577061051915: 1, 0.04672348786366172: 1, 0.046722886110124366: 1, 0
.04671997438588545: 1, 0.046716764294691036: 1, 0.046712705508009995: 1, 0.046711701868255434: 1,
0.04671135412185988: 1, 0.0467108638935294: 1, 0.04670457638160198: 1, 0.046684447568120756: 1, 0
.04668340428778789: 1, 0.04668338183665726: 1, 0.04667310432403198: 1, 0.046671413505005: 1,
0.046669272042808393: 1, 0.04666194477031966: 1, 0.046653927148777315: 1, 0.04664375277746052: 1,
0.04664318790108223: 1, 0.04663954142140621: 1, 0.04663951200881375: 1, 0.04663855284909353: 1,
0.04663736490786714: 1, 0.04663339398876372: 1, 0.04663168583734433: 1, 0.046619294777565545: 1, 0
.04661272757573602: 1, 0.04660062415270349: 1, 0.046599503569201506: 1, 0.04659556878023767: 1,
0.04658632956291372: 1, 0.04658310640152488: 1, 0.04658026393827903: 1, 0.04657989504521856: 1,
0.046577711464396356: 1, 0.046573140835548456: 1, 0.04657247758831202: 1, 0.046559707024365356: 1,
0.04655887606907687: 1, 0.04655248349564844: 1, 0.04654895626231272: 1, 0.04654410709144215: 1,
0.04653983730195561: 1, 0.046535384439964286: 1, 0.04653022366492291: 1, 0.04651927312809456: 1, 0
.046513219804653165: 1, 0.04651170151622111: 1, 0.046493291981862625: 1, 0.04648571668969133: 1, 0
.04648418481827079: 1, 0.0464807668083732: 1, 0.04648050897100485: 1, 0.046480272503196196: 1,
0.04647413426747188: 1, 0.04647292905186496: 1, 0.046466995429718994: 1, 0.046464181446394824: 1,
0.046458084067923414: 1, 0.04644469692978109: 1, 0.046442729745469355: 1, 0.04644007755068303: 1,
0.046426826051258016: 1, 0.046408757880897315: 1, 0.04640011932369114: 1, 0.04639209978774363: 1,
0.046389976522957: 1, 0.04638591498973631: 1, 0.046384080561599865: 1, 0.046376490955453: 1,
0.04637508222127691: 1, 0.046369199741063884: 1, 0.04636755691385325: 1, 0.046366447304541494: 1,
0.046364729610754586: 1, 0.04636378850373672: 1, 0.04635737921947859: 1, 0.04635600646483892: 1,
0.04634786399215997: 1, 0.04634532938233989: 1, 0.046338707228573875: 1, 0.04632101496072795: 1, 0
.04631828559112497: 1, 0.04631735805539767: 1, 0.04631308867796159: 1, 0.04631282961762799: 1,
0.04631200178527633: 1, 0.04629894340691526: 1, 0.04629223613225035: 1, 0.04627225505961334: 1,
0.04627224100284782: 1, 0.0462662897094432: 1, 0.04625427830004216: 1, 0.04624968633805656: 1,
0.046249128481133855: 1, 0.046224566908856415: 1, 0.04621379299840489: 1, 0.0462100632536168: 1, 0
.04620713041761176: 1, 0.0461932982237259: 1, 0.04619112754474426: 1, 0.04619106393592929: 1,
0.046190709677648725: 1, 0.046186548203431654: 1, 0.04618576958557981: 1, 0.046185531830813996: 1,
0.04618322131308308: 1, 0.04617393222649968: 1, 0.04617294861641605: 1, 0.046162898119838515: 1, 0
.04616049439607757: 1, 0.04615340114298773: 1, 0.0461507916317391: 1, 0.04614895370466874: 1,
0.04614851376538839: 1, 0.04614489328449908: 1, 0.046138995228726935: 1, 0.046135752436363545: 1,
0.04613186472594879: 1, 0.04612312809154377: 1, 0.04611983386790906: 1, 0.04611870847538188: 1,
0.046106776754709713: 1, 0.0460950503911098: 1, 0.046094405792793794: 1, 0.04607977250903629: 1,
0.046078027650397875: 1, 0.04607768998216073: 1, 0.046074262996118553: 1, 0.0460529341577412: 1, 0
.04605252571669516: 1, 0.04604298058842904: 1, 0.046035837107852334: 1, 0.04603163796858247: 1,
0.04603150475887934: 1, 0.04602573474509335: 1, 0.04601590379536952: 1, 0.046011880701216604: 1, 0
.04600555272624576: 1, 0.046004814360750226: 1, 0.04600412642825064: 1, 0.04599077977594016: 1,
0.04598767142861476: 1, 0.04598613206603334: 1, 0.045985343706794135: 1, 0.04597953733549584: 1, 0
.045976657794732936: 1, 0.045968601314849734: 1, 0.045965386629868946: 1, 0.04595868822723646: 1,
0.04595606688360044: 1, 0.04595337265027991: 1, 0.04594784569189237: 1, 0.04592997054169064: 1,
0.04592314590951296: 1, 0.04591215109447: 1, 0.04591169804504988: 1, 0.0459097396334234: 1,
0.045907185923350066: 1, 0.04589806503136932: 1, 0.04589226932761313: 1, 0.04588781751961747: 1,
0.04588706542190341: 1, 0.04588665349246454: 1, 0.045883433594045696: 1, 0.04587790519616488: 1, 0
.04587613820599282: 1, 0.04586924010592885: 1, 0.04586296835341329: 1, 0.045853976851151446: 1,
0.04584382251000707: 1, 0.04583666164476396: 1, 0.04583511914406416: 1, 0.04583275541644194: 1,
0.04583040671419824: 1, 0.04582420129905321: 1, 0.045818380941229434: 1, 0.045818181878097185: 1,
0.04581742401825158: 1, 0.04581701359827335: 1, 0.04581425120486006: 1, 0.04580869359428426: 1,
0.045806127575175944: 1, 0.045806105879935055: 1, 0.04580354072988374: 1, 0.045802888864427974: 1,
0.04577175161053958: 1, 0.0457601632609977: 1, 0.04575222251838469: 1, 0.04575084349032922: 1,
0.04574522136233388: 1, 0.045721443460919366: 1, 0.04571752663577161: 1, 0.045715397468832145: 1,
0.045712587882562855: 1, 0.04570487729045909: 1, 0.04569766350122276: 1, 0.04569714347918438: 1,
0.04569294635340576: 1, 0.04569221025455765: 1, 0.04569201259143976: 1, 0.045679901557542014: 1, 0
.04567460312705546: 1, 0.04567088511922539: 1, 0.0456630287082739: 1, 0.045658378914153835: 1,
0.04565443566140051: 1, 0.04565243204264145: 1, 0.04564517250379708: 1, 0.045635718315656784: 1, 0
.0456322947320153: 1, 0.04563037260360272: 1, 0.04562798439564851: 1, 0.04560712744380421: 1,
0.045602817565269876: 1, 0.045596972014769845: 1, 0.04559083037382879: 1, 0.045587458877735604: 1,
0.04557607435213576: 1, 0.04557326540170476: 1, 0.04557244465920034: 1, 0.045567153422009295: 1, 0
.04556085174917156: 1, 0.045560790999527354: 1, 0.04555993265705825: 1, 0.04555907917988506: 1,
0.04555702101970111: 1, 0.04554719126673584: 1, 0.04554344126202344: 1, 0.04553776387341031: 1,
0.04553755578544869: 1, 0.04553254710504447: 1, 0.04551771192289661: 1, 0.04551055411775746: 1,
0.045500657669138106: 1, 0.04550022203744083: 1, 0.04549636797541551: 1, 0.04549192412188737: 1,
0.045486334252493946: 1, 0.04548378377252681: 1, 0.04548235785186164: 1, 0.045482199253980865: 1,
0.04547636629700126: 1, 0.04546377313561606: 1, 0.04546375386609342: 1, 0.04546056273910142: 1,
0.045458282264937026: 1, 0.04545157943018689: 1, 0.0454446921013026: 1, 0.04544292733209916: 1, 0
.045438317112790054: 1, 0.04541785713640611: 1, 0.04541174766781664: 1, 0.045411244143091306: 1, 0
.04540648317727915: 1, 0.045400643406270785: 1, 0.045397618294436066: 1, 0.04539467549792648: 1, 0
.045390546968157114: 1. 0.045390452261318555: 1. 0.04538929343128376: 1. 0.045386511832146766: 1.

0.04538230142996068: 1, 0.04538097102384899: 1, 0.04536616527773722: 1, 0.045363401485973405: 1, 0
0.0453512894346815: 1, 0.04534246187588872: 1, 0.04533594204918983: 1, 0.0453277505046924: 1,
0.045320159138348325: 1, 0.0453168579973142: 1, 0.04531678984842079: 1, 0.04530301073591035: 1,
0.04529946818477019: 1, 0.04529384292880541: 1, 0.04529253506735267: 1, 0.045287555654938555: 1, 0
0.04528481001398923: 1, 0.045263254788791424: 1, 0.04526016625426635: 1, 0.045259602755309575: 1, 0
0.04525516248168071: 1, 0.04525330266465551: 1, 0.0452408914038273: 1, 0.04524081285036672: 1,
0.045239725224234376: 1, 0.045224194273290164: 1, 0.045217902317234084: 1, 0.04521737866333016: 1,
0.04521355977382274: 1, 0.045211738039758864: 1, 0.04519094614501243: 1, 0.04518961623974594: 1, 0
0.04518905575447832: 1, 0.0451856693863029: 1, 0.04518546082747722: 1, 0.04517795631749155: 1,
0.04517481005495991: 1, 0.045171917001607706: 1, 0.045170181530856446: 1, 0.04515074821982925: 1,
0.045147055515364694: 1, 0.045146979296917515: 1, 0.04514271334513888: 1, 0.04514005681979566: 1,
0.045129080538488395: 1, 0.045128461982661766: 1, 0.04511203542981872: 1, 0.04510911512089385: 1,
0.04510289943505625: 1, 0.04509783404131841: 1, 0.04509360262445757: 1, 0.04508900589424036: 1,
0.045084635469715015: 1, 0.04507988695574562: 1, 0.04507605366345227: 1, 0.045070998362067856: 1,
0.045068245456168284: 1, 0.045065756819468165: 1, 0.04506234631039842: 1, 0.0450612151068239: 1, 0
.04505361307683578: 1, 0.04505065993753768: 1, 0.04504878779408355: 1, 0.0450444651002402: 1,
0.045035302600563126: 1, 0.04503513754885609: 1, 0.045032815779222996: 1, 0.045032449443677555: 1,
0.04502608425173025: 1, 0.045022919721638965: 1, 0.04502005442995133: 1, 0.045015692245702024: 1,
0.044998028652861774: 1, 0.04498966235716875: 1, 0.04498773344581851: 1, 0.04498647024101504: 1,
0.04498337200646305: 1, 0.04498245297701066: 1, 0.044982214608028495: 1, 0.044980299530944144: 1,
0.044978579217381826: 1, 0.04497744236080328: 1, 0.04497453840804452: 1, 0.04497196367804807: 1,
0.04496929931090869: 1, 0.04496899654133656: 1, 0.044962835905601066: 1, 0.04495740636203885: 1, 0
.0449561225456182: 1, 0.04494439179280883: 1, 0.044943823033825304: 1, 0.04492968537893595: 1,
0.044926888298821265: 1, 0.04492604602767121: 1, 0.04492464350215281: 1, 0.04491872631059827: 1,
0.04491561804383838: 1, 0.04491206319459528: 1, 0.04490869394450025: 1, 0.04490307069856465: 1,
0.04488896790351681: 1, 0.04488493051377824: 1, 0.044879247345307106: 1, 0.044877937554609434: 1,
0.04487425766997129: 1, 0.04486414402649484: 1, 0.044861685558222106: 1, 0.044855484872810915: 1,
0.0448416551966734: 1, 0.044837222730393804: 1, 0.04483601541551444: 1, 0.04482688436538801: 1,
0.04481766019931821: 1, 0.04481424417667511: 1, 0.04480042532816904: 1, 0.044769592465258974: 1, 0
.04476902579508671: 1, 0.04476573294622125: 1, 0.044752858771673086: 1, 0.04475269575190996: 1,
0.04475089932349832: 1, 0.04474706459092714: 1, 0.044743215522144164: 1, 0.04473888134961186: 1,
0.04473491564303101: 1, 0.044730766966526794: 1, 0.04472748073584036: 1, 0.04472549264411917: 1, 0
.04471968039991073: 1, 0.04470865280493734: 1, 0.044708005012730784: 1, 0.04470544412868315: 1,
0.044704694557808344: 1, 0.04470194593538288: 1, 0.044698784148484244: 1, 0.04469308586663039: 1,
0.044690123395526735: 1, 0.04468965955656208: 1, 0.044680761238985935: 1, 0.04468050604996689: 1,
0.044678969235625324: 1, 0.04467704745515053: 1, 0.04467303913983601: 1, 0.04467079814250445: 1,
0.04467012288611579: 1, 0.04466955836603958: 1, 0.04466278406118506: 1, 0.04465528086108728: 1,
0.04465389689913784: 1, 0.04465383800855373: 1, 0.04465370910648594: 1, 0.044647159131595525: 1, 0
.04464277209882905: 1, 0.044640933150489: 1, 0.04463966961686838: 1, 0.04463631841724879: 1,
0.044631246036570295: 1, 0.044615627202182914: 1, 0.04461473184584: 1, 0.04461327969382506: 1, 0
.04460674467923653: 1, 0.04460571307354512: 1, 0.04460267491843531: 1, 0.04460043586412678: 1,
0.0445909089680469: 1, 0.044588579879993: 1, 0.04458731909143414: 1, 0.044580663664150456: 1,
0.04457485704572539: 1, 0.044560231223781124: 1, 0.0445564726375995: 1, 0.044556245408838215: 1, 0
.04454902677025006: 1, 0.04453957930130401: 1, 0.04453077061817327: 1, 0.04452558590520171: 1,
0.04452119750125076: 1, 0.04452117774481034: 1, 0.044520752267074894: 1, 0.04451972335903654: 1, 0
.04451496515087544: 1, 0.04450986513755466: 1, 0.044494283316123366: 1, 0.044490714996112304: 1, 0
.044484599417532925: 1, 0.04448448015472785: 1, 0.04447939943203529: 1, 0.04447910893790623: 1,
0.0444782238120434: 1, 0.044476761843599014: 1, 0.04447663755747407: 1, 0.04447094030575993: 1,
0.0444680222031449: 1, 0.04445517875105598: 1, 0.044444919918022394: 1, 0.04444409004236928: 1, 0
.04443326713727972: 1, 0.044432677732584594: 1, 0.044426733711744305: 1, 0.0444250386861533: 1, 0
.04441426232271036: 1, 0.04441139756979577: 1, 0.04440841452912116: 1, 0.04440706486571909: 1,
0.04440449101599587: 1, 0.04440428627203326: 1, 0.04439677610401478: 1, 0.044395052069868185: 1, 0
.04439321243640984: 1, 0.044392974907384926: 1, 0.04438805552204451: 1, 0.04438314063844141: 1,
0.04438257899009886: 1, 0.044379172577727714: 1, 0.044377180745095675: 1, 0.04437233415528159: 1,
0.04437098980264052: 1, 0.04436797205269283: 1, 0.044365052714207265: 1, 0.04435486012716375: 1, 0
.04435060554196933: 1, 0.044349336600201184: 1, 0.04434870960641357: 1, 0.04433230409929072: 1,
0.044322395526597023: 1, 0.044317972391263165: 1, 0.04431215003357746: 1, 0.04431053904373039: 1,
0.04430128958047318: 1, 0.04429946291106859: 1, 0.04427562673395022: 1, 0.04427562406454931: 1,
0.04426668475787525: 1, 0.044262392053948094: 1, 0.04426001117020772: 1, 0.04425089244377181: 1, 0
.04424145807533641: 1, 0.04422647645127134: 1, 0.04422641468388401: 1, 0.044205457057680336: 1,
0.04420428531493563: 1, 0.04420355760698167: 1, 0.0441989724499603: 1, 0.04419763367573294: 1,
0.0441915809472191: 1, 0.044185837320512025: 1, 0.044166170047887254: 1, 0.04416043643923944: 1, 0
.04415854620243731: 1, 0.04415697146044046: 1, 0.044141285372108506: 1, 0.0441331880209481: 1,
0.04413036158824699: 1, 0.044129799844031994: 1, 0.04412012823811963: 1, 0.044119571459970475: 1,
0.044112669998514764: 1, 0.04410895305565254: 1, 0.04410140404540013: 1, 0.04410065071453361: 1,
0.044097420891690914: 1, 0.04409256012234864: 1, 0.04408943502532329: 1, 0.04408854482619079: 1,
0.04408830613745749: 1, 0.04408766155614739: 1, 0.04408200303560876: 1, 0.044076121117133084: 1,
.04407104358891861: 1, 0.0440704623130365: 1, 0.04406996092263989: 1, 0.044044557913678936: 1,
0.04404230296158604: 1, 0.04404173007606049: 1, 0.044040675998680445: 1, 0.04403434163409905: 1, 0
.04402943367393314: 1, 0.04402866066029369: 1, 0.04402851171982893: 1, 0.04400156338319189: 1,
0.04398327973851297: 1, 0.04397105951010287: 1, 0.04397089723775291: 1, 0.04396862970467981: 1,
0.0439696093404566: 1, 0.04396262322916885: 1, 0.043957848673105156: 1, 0.04395720184206323: 1, 0
.043953089162490536: 1, 0.043952402586484716: 1, 0.043949198498184884: 1, 0.04394669076201413: 1,
0.043942609809909994: 1, 0.04394140735195898: 1, 0.04392642525217827: 1, 0.043923524091713365: 1,
0.04392338433522079: 1, 0.043922813800899116: 1, 0.0439216639820079: 1, 0.04391699160678922: 1, 0
.043911045629505804: 1, 0.0438908689126338: 1, 0.04388780961772329: 1, 0.04388748563927868: 1,
0.043882585325730944: 1, 0.04388254690165383: 1, 0.04387492171050044: 1, 0.04387036440637114: 1.

0.04386425356469206: 1, 0.04385673796318136: 1, 0.04385508550910801: 1, 0.0438549057105249: 1, 0.04385447254283721: 1, 0.043848865189519984: 1, 0.04384567306049885: 1, 0.0438385946680887: 1, 0.04383392233334114: 1, 0.0438273442370116: 1, 0.04382698256513477: 1, 0.043825973185101154: 1, 0.04381949354591372: 1, 0.04381878823797122: 1, 0.04381798482318455: 1, 0.043816589569592876: 1, 0.04381172653068255: 1, 0.04381124266226629: 1, 0.043808669722271966: 1, 0.04380259624500581: 1, 0.043795734984579504: 1, 0.04379409901521028: 1, 0.043785578195682504: 1, 0.04378530042600659: 1, 0.043783329511122814: 1, 0.043771380647267336: 1, 0.04376661797687187: 1, 0.04376438176100226: 1, 0.04375762929472911: 1, 0.04375125259353503: 1, 0.043751178241711194: 1, 0.043750364481167245: 1, 0.04374837421973738: 1, 0.0437284153024116: 1, 0.04372276495746731: 1, 0.043720915850476626: 1, 0.04369761299455398: 1, 0.04369652851004515: 1, 0.04369380548601464: 1, 0.04369334930285169: 1, 0.04369303097833725: 1, 0.043684704247800396: 1, 0.04368441967768694: 1, 0.043675067783265666: 1, 0.04367316638964518: 1, 0.043668909837726436: 1, 0.04366849065907691: 1, 0.04365643957391583: 1, 0.04365389565857403: 1, 0.043649380676532464: 1, 0.0436482873302272: 1, 0.043645653852390894: 1, 0.043634822720896665: 1, 0.04363227750948978: 1, 0.04363121154624803: 1, 0.043627208258395805: 1, 0.043625957617155695: 1, 0.043623800074473286: 1, 0.04361630614993716: 1, 0.04361599446440191: 1, 0.043615618676814905: 1, 0.04360748303662403: 1, 0.04359777717058104: 1, 0.04359757195439842: 1, 0.04359531637534618: 1, 0.04359056932107836: 1, 0.04357499818837522: 1, 0.043570178174247354: 1, 0.0435673941646418: 1, 0.043566508866493825: 1, 0.043559434258526514: 1, 0.0435580956175859: 1, 0.0435543856520711: 1, 0.04355373027530597: 1, 0.04354518582180452: 1, 0.04354375614237554: 1, 0.043542864138040996: 1, 0.043541776898364776: 1, 0.04353849709338184: 1, 0.0435235908451064: 1, 0.04351328758249978: 1, 0.0435099634265354: 1, 0.043483155590980115: 1, 0.043482032499868706: 1, 0.043480235502852876: 1, 0.04346901609631022: 1, 0.04346716797342597: 1, 0.0434667176583774: 1, 0.043447611199673206: 1, 0.04344513870213849: 1, 0.043435712921980445: 1, 0.043424281968262576: 1, 0.04342362177605033: 1, 0.04342104083678178: 1, 0.04341774671158712: 1, 0.04341726218573132: 1, 0.04341531369373096: 1, 0.04341043861594247: 1, 0.04340906350721925: 1, 0.04340308554019393: 1, 0.04339837361346394: 1, 0.04339467592531406: 1, 0.04338621581647731: 1, 0.04338230372291985: 1, 0.043382146089967134: 1, 0.04337442898645842: 1, 0.04337329374838094: 1, 0.04337216992963022: 1, 0.04336941056035655: 1, 0.04336916326161242: 1, 0.043362883944429755: 1, 0.04336197685607015: 1, 0.04335857878452677: 1, 0.04335821935326025: 1, 0.043355738917501385: 1, 0.04335101647323516: 1, 0.043347345669497606: 1, 0.04334584287073781: 1, 0.04334436912087559: 1, 0.04332984301277185: 1, 0.043327111512385798: 1, 0.04332644490496742: 1, 0.04331181446154769: 1, 0.04331151657623248: 1, 0.043298624651617906: 1, 0.04329333749910054: 1, 0.04329255087576351: 1, 0.04328605676576701: 1, 0.043283744993918995: 1, 0.043282641377144146: 1, 0.043282309492725296: 1, 0.043278933275190605: 1, 0.043278239436458574: 1, 0.043274159337488405: 1, 0.043273074424809536: 1, 0.04326455386869552: 1, 0.04326177536529631: 1, 0.043261084368134764: 1, 0.04325566651717514: 1, 0.04325515675534131: 1, 0.0432497116086907: 1, 0.04324925511547202: 1, 0.04324336784885471: 1, 0.04323980541709385: 1, 0.04322165001308579: 1, 0.04321923453897616: 1, 0.043214958648298454: 1, 0.04320960785983269: 1, 0.0432094616349602: 1, 0.04320898579024189: 1, 0.04319890179228046: 1, 0.04319517073253204: 1, 0.04318838009074614: 1, 0.043185918214017294: 1, 0.04317900068729724: 1, 0.04317819820017696: 1, 0.043178109630268496: 1, 0.043173908736154495: 1, 0.04317164657081364: 1, 0.043171264753573815: 1, 0.043150623469359224: 1, 0.043149178868573695: 1, 0.04314769592211827: 1, 0.04314287612676009: 1, 0.04314145443384432: 1, 0.04313991399004378: 1, 0.043131504455424345: 1, 0.04313000540920701: 1, 0.04312387132356319: 1, 0.0431235240587345: 1, 0.043120894323102656: 1, 0.043117661736180965: 1, 0.04309610199768765: 1, 0.04309426241804831: 1, 0.043087226290108145: 1, 0.04308648101782352: 1, 0.04307873188455465: 1, 0.04307711345569795: 1, 0.043071857134807906: 1, 0.04305303452433693: 1, 0.04305224430863288: 1, 0.04304964614673868: 1, 0.043048146269826844: 1, 0.0430461593550499: 1, 0.04304573003623448: 1, 0.04303848472177529: 1, 0.043037626983358654: 1, 0.04303715036585807: 1, 0.04303549575500797: 1, 0.043031056987851285: 1, 0.04303032269633054: 1, 0.04302434090485689: 1, 0.04302393063291116: 1, 0.04302032261451737: 1, 0.043011183399749936: 1, 0.04301024693987157: 1, 0.04300926706170028: 1, 0.043008445989229906: 1, 0.042999879286451832: 1, 0.04299981556419082: 1, 0.04299674822027172: 1, 0.04298567378893475: 1, 0.042985108372260675: 1, 0.04298139157495023: 1, 0.04297258814545216: 1, 0.04297021039014358: 1, 0.04296216970779135: 1, 0.042957414972628206: 1, 0.042954664042447674: 1, 0.042951702907416435: 1, 0.04295161472709876: 1, 0.0429353532748326: 1, 0.04292978693090298: 1, 0.04292110892135847: 1, 0.042915068118812905: 1, 0.042914282073076314: 1, 0.042911547310816325: 1, 0.04291054577195099: 1, 0.04290923888521387: 1, 0.04290577865229137: 1, 0.042898417784362396: 1, 0.04289674612259769: 1, 0.04289469216567944: 1, 0.042866993191858535: 1, 0.042860613767846854: 1, 0.04285466765365041: 1, 0.042852134522050236: 1, 0.042849205886493116: 1, 0.04284876564565804: 1, 0.04284567973486871: 1, 0.04284285402568816: 1, 0.042834777289715076: 1, 0.042829377903157426: 1, 0.042822547800465335: 1, 0.04281568069825295: 1, 0.042814594268339765: 1, 0.042810314335853916: 1, 0.04280676894000385: 1, 0.04280599461128558: 1, 0.04280319477341446: 1, 0.04280133580053474: 1, 0.042792143268864005: 1, 0.04279074783476516: 1, 0.04279018118947426: 1, 0.04278918120070077: 1, 0.04278580559011456: 1, 0.04277676224239585: 1, 0.042775470873162844: 1, 0.042774273084848435: 1, 0.04276666175375464: 1, 0.042764606146189356: 1, 0.04276203061668081: 1, 0.04275819929213268: 1, 0.042754420626424: 1, 0.04274798460831513: 1, 0.042740160146766494: 1, 0.042739831279539404: 1, 0.04273670694592066: 1, 0.04273516149992399: 1, 0.04273291095214231: 1, 0.04273189754403301: 1, 0.0427314126697988: 1, 0.04272672054608644: 1, 0.042721761674347956: 1, 0.042712583455266094: 1, 0.042712111854583845: 1, 0.04270183904672331: 1, 0.042700977786356537: 1, 0.04269788229987605: 1, 0.04268813634433211: 1, 0.04268109603878571: 1, 0.04267977086856604: 1, 0.04267383763115885: 1, 0.04267371532793118: 1, 0.042670480179140574: 1, 0.04266574508345702: 1, 0.042664307391927656: 1, 0.04266299592004082: 1, 0.04265152108798404: 1, 0.042638745316048665: 1, 0.04263155362633211: 1, 0.042630132552300415: 1, 0.04262909969641189: 1, 0.04262585723810161: 1, 0.04261887492178141: 1, 0.04261306302890277: 1, 0.04260736912133968: 1, 0.04260642714237678: 1, 0.042597551739812375: 1, 0.042594061867461994: 1, 0.04259266592303845: 1, 0.042584507516746806: 1, 0.04258292885929349: 1, 0.04257887736601121: 1, 0.04257785075007896: 1, 0.04257683226432054: 1, 0.04257258000790263: 1, 0.04256005073542547: 1, 0.04255468252442748: 1, 0.042544028782920115: 1, 0.0425406253543418: 1, 0.042532163227130215: 1, 0.042529048700090964: 1, 0.042525743830152056: 1, 0.042504441019312: 1, 0.042506195900335435: 1, 0.04249379056905771: 1, 0.0424917399361046: 1

0.04248729888651486: 1, 0.0424861719335001: 1, 0.042483645731927144: 1, 0.04247397881425964: 1, 0.04246804389899427: 1, 0.04246474595871409: 1, 0.042461708075589924: 1, 0.042460086129594274: 1, 0.04245915482122369: 1, 0.04245623325075165: 1, 0.042451451240331325: 1, 0.042450006656922605: 1, 0.04244303004289447: 1, 0.04243689699102561: 1, 0.042423571169949804: 1, 0.0424234795849755: 1, 0.04241401073132944: 1, 0.042412606627325156: 1, 0.04241257963983047: 1, 0.04241252288292259: 1, 0.042408728233996135: 1, 0.04240568027783152: 1, 0.042402388904499655: 1, 0.042399018309712155: 1, 0.042383871069612666: 1, 0.04238277625046533: 1, 0.04238078281184024: 1, 0.04237829114105333: 1, 0.04236445099304162: 1, 0.04236389659222452: 1, 0.042363867913043834: 1, 0.042362147824200544: 1, 0.04235979493228685: 1, 0.042354971157924824: 1, 0.042352670070052646: 1, 0.04235231181549218: 1, 0.04235057100703324: 1, 0.04234954534603755: 1, 0.042345466363381434: 1, 0.04234490211138342: 1, 0.0423430118084181: 1, 0.042341607605817594: 1, 0.04233611605968289: 1, 0.04232351665306229: 1, 0.04231981720586176: 1, 0.042303289545665805: 1, 0.042298263279613814: 1, 0.04228874801775597: 1, 0.04228745229335051: 1, 0.04228513047554158: 1, 0.04228147526939409: 1, 0.042280075996993856: 1, 0.04227498688266251: 1, 0.04227434134236087: 1, 0.04227113447978138: 1, 0.042254543241863: 1, 0.04224160776502245: 1, 0.04223764770637084: 1, 0.04223704960288685: 1, 0.04223618887453215: 1, 0.042231031848294784: 1, 0.04222502100449647: 1, 0.042215720169320195: 1, 0.04221031282557004: 1, 0.04220850298595705: 1, 0.04220553411624497: 1, 0.04220342802749468: 1, 0.04219843750104065: 1, 0.04219656555261486: 1, 0.04219299610330679: 1, 0.042188919563990096: 1, 0.04218620437324411: 1, 0.04218274011521798: 1, 0.042177892289494374: 1, 0.042172081329905915: 1, 0.04217202835604984: 1, 0.042166552370691265: 1, 0.04216377075111015: 1, 0.042161673689414814: 1, 0.04216093435423832: 1, 0.042158431708522466: 1, 0.04215741003364395: 1, 0.042154272365607294: 1, 0.04214649116729498: 1, 0.04214293453490207: 1, 0.04213849885853058: 1, 0.04213434509079192: 1, 0.04213106187854978: 1, 0.042121962315191136: 1, 0.042118449603099975: 1, 0.04211024169169601: 1, 0.0421081617621076: 1, 0.0421037250243572: 1, 0.0420946290637584: 1, 0.04209258035914073: 1, 0.04209255962187817: 1, 0.04208716350473164: 1, 0.04208478835966035: 1, 0.04208277807342314: 1, 0.04207519011277714: 1, 0.04206350063118967: 1, 0.04205730272315894: 1, 0.04204596509844274: 1, 0.04204422263930168: 1, 0.04204181427537316: 1, 0.042041666995341516: 1, 0.042026153684111375: 1, 0.042015512163494834: 1, 0.042014615356494985: 1, 0.04200423452339992: 1, 0.04199531062050495: 1, 0.041992959315661646: 1, 0.041991796957541655: 1, 0.04198961951645984: 1, 0.041974189913037786: 1, 0.04196934128623265: 1, 0.041950125470720905: 1, 0.0419451285103355: 1, 0.04194302301552758: 1, 0.041937854099041605: 1, 0.04193420331145844: 1, 0.0419215801548453: 1, 0.0419199522720205: 1, 0.04191645928631083: 1, 0.041914770422108553: 1, 0.04190715856797243: 1, 0.04190649977756061: 1, 0.04190456510757221: 1, 0.04190451762787978: 1, 0.04189996671801713: 1, 0.04189851536108682: 1, 0.041880618051777604: 1, 0.04187503368217255: 1, 0.04187150508076924: 1, 0.041871117202161155: 1, 0.0418659235940545: 1, 0.04186488394738899: 1, 0.041860385182425915: 1, 0.04185943662916342: 1, 0.04185422543108737: 1, 0.04184242464824637: 1, 0.04183231599051585: 1, 0.041830413577581785: 1, 0.04182515535472898: 1, 0.041823469333122594: 1, 0.041818106939714154: 1, 0.04180341466439497: 1, 0.04179621616568355: 1, 0.041793799263423255: 1, 0.04179219840599811: 1, 0.041789453309203806: 1, 0.04178784951667688: 1, 0.04178140060222727: 1, 0.041778593028170316: 1, 0.041774312567979546: 1, 0.0417685425348183: 1, 0.04176184485984359: 1, 0.041749538528972514: 1, 0.04174925503216505: 1, 0.04174825581476965: 1, 0.041740983708362: 1, 0.04174020874442002: 1, 0.04173719784071267: 1, 0.0417319776725857: 1, 0.0417240922717763: 1, 0.041721343903876766: 1, 0.04171055621249284: 1, 0.04171208905473806: 1, 0.04170410428693806: 1, 0.041699182832729526: 1, 0.04169866012521486: 1, 0.04168733397144246: 1, 0.04168501205180305: 1, 0.0416759082598843: 1, 0.04167245135481819: 1, 0.04167122879719907: 1, 0.04166563765396213: 1, 0.04166449051149335: 1, 0.04166305256313172: 1, 0.04166255826017904: 1, 0.041653959420600004: 1, 0.041650524229746376: 1, 0.041643646206769955: 1, 0.0416436076035416: 1, 0.041643346241774036: 1, 0.041642823354798374: 1, 0.04164225682270255: 1, 0.04164179750324341: 1, 0.04163866284286349: 1, 0.041630698811577355: 1, 0.04162646878933261: 1, 0.041625310631164446: 1, 0.041621996920876966: 1, 0.041619006370062495: 1, 0.04161176964568142: 1, 0.041608152520283714: 1, 0.041607150069193695: 1, 0.041604033860073344: 1, 0.04159732336304001: 1, 0.04159613860676278: 1, 0.04159409776787085: 1, 0.04158606061830711: 1, 0.041574995307587403: 1, 0.04157446564027563: 1, 0.0415600733032334: 1, 0.041555635086084265: 1, 0.041551975089915635: 1, 0.04155147056049863: 1, 0.04155041542700905: 1, 0.04154914207625203: 1, 0.04154767906239702: 1, 0.04154734084156414: 1, 0.041547294745237204: 1, 0.04154541242937418: 1, 0.041541798701541024: 1, 0.04152315433800655: 1, 0.04152197478263617: 1, 0.041521711096462716: 1, 0.041507779130511166: 1, 0.04150663440916043: 1, 0.04149821850170114: 1, 0.04149611481681522: 1, 0.04149515190590298: 1, 0.04149473922562828: 1, 0.041488100869838146: 1, 0.04148757963774201: 1, 0.04148682539893902: 1, 0.04148475339409375: 1, 0.04148120629441845: 1, 0.0414774803054135: 1, 0.04147531545929025: 1, 0.041471267594538584: 1, 0.041462725269023275: 1, 0.041453623819181544: 1, 0.04145356552711298: 1, 0.04144328917812622: 1, 0.041442647703993835: 1, 0.04143953089014074: 1, 0.04143270133113772: 1, 0.04143167734814696: 1, 0.0414311882023571: 1, 0.04142437311540624: 1, 0.041422640134330405: 1, 0.041420335010855: 1, 0.041415403735573605: 1, 0.04140820668162838: 1, 0.04140214962086394: 1, 0.04140038835866181: 1, 0.041397030321962056: 1, 0.04139256937397086: 1, 0.041389745458970624: 1, 0.041379535041046606: 1, 0.04137921269858141: 1, 0.0413779907251676: 1, 0.04137776879497827: 1, 0.041369573993289034: 1, 0.04136899047307857: 1, 0.04135951104950917: 1, 0.041359275607253755: 1, 0.04135132940553094: 1, 0.041348862202246: 1, 0.04134088671852329: 1, 0.04134083767438622: 1, 0.041335536431431764: 1, 0.04133430190847717: 1, 0.041332957119648656: 1, 0.04132744971994251: 1, 0.0413273694913465: 1, 0.041323189985456324: 1, 0.04131883172009783: 1, 0.041315038003825626: 1, 0.0413123236802258: 1, 0.04129873531130039: 1, 0.04129473356378974: 1, 0.04129380811088042: 1, 0.04128732707956693: 1, 0.041280971017285624: 1, 0.041261924136677695: 1, 0.04126029288437251: 1, 0.04125571735516031: 1, 0.04124956811312934: 1, 0.04124580031635887: 1, 0.0412457634691598: 1, 0.0412343608151811: 1, 0.04122781632272676: 1, 0.0412266974049522: 1, 0.04122279377806097: 1, 0.04120779634779652: 1, 0.041202087967998055: 1, 0.04120205920590828: 1, 0.041199528415735404: 1, 0.04119576473718995: 1, 0.041194921908242116: 1, 0.041188335203632666: 1, 0.041186613544289666: 1, 0.041180549606958126: 1, 0.04118050719197258: 1, 0.04117864490558482: 1, 0.04117734460433045: 1, 0.041175931929359505: 1, 0.04117102535112123: 1, 0.04116914966467897: 1, 0.041165131263074764: 1, 0.04115938114947389: 1, 0.041156765361719: 1, 0.04113862039892861: 1, 0.041132700323303402: 1, 0.04113261900063011: 1

.0.0411293422898747: 1, 0.04112501009709625: 1, 0.041124993101312984: 1, 0.04112353547108012: 1, 0.041122716925408816: 1, 0.041106747487405275: 1, 0.04110069765998204: 1, 0.041098934996901745: 1, 0.04108287981874786: 1, 0.04108157974556205: 1, 0.04107963257735782: 1, 0.041075956055265345: 1, 0.041072367116172945: 1, 0.04105924148810781: 1, 0.04105605909630235: 1, 0.041053364251918315: 1, 0.041048135394659076: 1, 0.04103743266871323: 1, 0.041034537491463394: 1, 0.04103352611210066: 1, 0.04103183192036852: 1, 0.04102018467162291: 1, 0.041016571030363755: 1, 0.04101620122896398: 1, 0.04101164308944208: 1, 0.041005776572116626: 1, 0.04100083849230374: 1, 0.040993037709533726: 1, 0.04099150025444377: 1, 0.04098836654593082: 1, 0.040987281188683784: 1, 0.04098156232164319: 1, 0.04097646992002893: 1, 0.04096701704804243: 1, 0.040965151911820215: 1, 0.04095965682605423: 1, 0.04095869290741115: 1, 0.04094414110674023: 1, 0.0409366659079906: 1, 0.04093125130063183: 1, 0.04092732642493806: 1, 0.04092146729042029: 1, 0.04092039270477037: 1, 0.040915534589193246: 1, 0.04091179196848261: 1, 0.04091153783828222: 1, 0.04088852677845302: 1, 0.040886538445998946: 1, 0.040886199417436764: 1, 0.04088616897780625: 1, 0.04087528381855569: 1, 0.04087521649776644: 1, 0.040868264550483265: 1, 0.040864650054636405: 1, 0.04086558375006183: 1, 0.04086358875813534: 1, 0.04086346973695076: 1, 0.04085875470308711: 1, 0.0408564193857344: 1, 0.04085401789771683: 1, 0.04085232920878692: 1, 0.04084395575350462: 1, 0.04084026294652916: 1, 0.04083547739882446: 1, 0.04082538295992914: 1, 0.04082485649430505: 1, 0.04081977779114437: 1, 0.0408133099360069: 1, 0.040812008319449505: 1, 0.040806691975044426: 1, 0.04080662294961015: 1, 0.040801415267448196: 1, 0.04080086530158895: 1, 0.04079828866777201: 1, 0.040793401159204955: 1, 0.040791292949131246: 1, 0.040789809020222376: 1, 0.040784307929787586: 1, 0.040777613889193626: 1, 0.040776214836995756: 1, 0.040769658181008445: 1, 0.04076274438943125: 1, 0.040761829425832834: 1, 0.040748971384918474: 1, 0.040742732852217474: 1, 0.04073553152769789: 1, 0.04072822901634736: 1, 0.040721141373181335: 1, 0.040720225468956275: 1, 0.04071741895838283: 1, 0.04071669386675122: 1, 0.04070739971493123: 1, 0.040707326213158666: 1, 0.0406917067150155: 1, 0.04069045547084277: 1, 0.04068920879740674: 1, 0.04068358080748337: 1, 0.04068142042850394: 1, 0.040680971971225784: 1, 0.040679514941770675: 1, 0.04067301717274717: 1, 0.04065327598824943: 1, 0.04065208634936982: 1, 0.04065099154679412: 1, 0.04064252677695586: 1, 0.04064256806715708: 1, 0.04064203208887921: 1, 0.040641383737804015: 1, 0.04063858059061268: 1, 0.04063538884289671: 1, 0.04062869145121784: 1, 0.04062177906549736: 1, 0.040610649846144896: 1, 0.040608935844455823: 1, 0.040607235683446936: 1, 0.040606644943645374: 1, 0.04060480249716323: 1, 0.040596310385182716: 1, 0.04059424974188465: 1, 0.04058195873594276: 1, 0.040580996744811484: 1, 0.040575209209412266: 1, 0.040575179318930586: 1, 0.04057370496019228: 1, 0.040569077788666856: 1, 0.04056796849525652: 1, 0.04056781509756018: 1, 0.04056468213937736: 1, 0.04055459727097784: 1, 0.04053929272851461: 1, 0.040529366828014515: 1, 0.040527507727216465: 1, 0.04051465629052907: 1, 0.040508380165796: 1, 0.040506244259086666: 1, 0.040503046341592: 1, 0.040502311278920795: 1, 0.04049659111596083: 1, 0.040491660269042655: 1, 0.04048163228239065: 1, 0.04047817286724281: 1, 0.04047580669969038: 1, 0.04046938516373484: 1, 0.040462739068005224: 1, 0.040460764644725665: 1, 0.04045443752463081: 1, 0.040449426979853896: 1, 0.04044213984283395: 1, 0.04043697165836596: 1, 0.04043320742055292: 1, 0.040428276965483116: 1, 0.04042775219621454: 1, 0.04042356215776823: 1, 0.04042305834981591: 1, 0.040418210048865415: 1, 0.040416904854324844: 1, 0.040413545733524056: 1, 0.04040745834005367: 1, 0.04040698703982004: 1, 0.04040582099184876: 1, 0.0403913876103713: 1, 0.04039867564037808: 1, 0.040397933150017426: 1, 0.04039030106713804: 1, 0.040385729470752106: 1, 0.04038547631915536: 1, 0.04038428414557585: 1, 0.04038388532066654: 1, 0.040382258353766694: 1, 0.04037879117323147: 1, 0.04037416417149106: 1, 0.04036217033149929: 1, 0.04034569746721953: 1, 0.040342646432781105: 1, 0.040338569510990775: 1, 0.04033207955124017: 1, 0.040326256771438765: 1, 0.04032329358713674: 1, 0.04032048925986447: 1, 0.04031623974162599: 1, 0.040315917422312435: 1, 0.040314659221453296: 1, 0.04031045773357349: 1, 0.04030742607317714: 1, 0.040306153942811895: 1, 0.04030411983140125: 1, 0.040301333021001425: 1, 0.040297488062310115: 1, 0.04029665946527032: 1, 0.040288208233713235: 1, 0.04028026783239564: 1, 0.04027386687737586: 1, 0.040269503930752744: 1, 0.04026899038694968: 1, 0.040262326786243065: 1, 0.04025686883626227: 1, 0.040256736293817555: 1, 0.04024505986888134: 1, 0.04024333594738948: 1, 0.04023958494791867: 1, 0.04023896855966542: 1, 0.0402363545249594: 1, 0.040233512846256994: 1, 0.040215656917414494: 1, 0.04021368945963126: 1, 0.04020969061550125: 1, 0.04020940714264729: 1, 0.040208956963610376: 1, 0.04020162491573048: 1, 0.040199994871783606: 1, 0.040198855452707974: 1, 0.04019678216787952: 1, 0.04019675697293231: 1, 0.0401919169608579363: 1, 0.04018952350601899: 1, 0.040183025924835636: 1, 0.04018162589815298: 1, 0.04017586072384855: 1, 0.04017235592642955: 1, 0.04016739731683257: 1, 0.04014742851023208: 1, 0.04014328480643663: 1, 0.040139880117472215: 1, 0.04013232674374419: 1, 0.040126937303921265: 1, 0.04012364516412346: 1, 0.04012149442863952: 1, 0.04012034455329454: 1, 0.04011035311181599: 1, 0.04010426925410206: 1, 0.04010386882224073: 1, 0.04010313975104403: 1, 0.04008453357844522: 1, 0.04008432460803896: 1, 0.04007583232135619: 1, 0.04007351066155666: 1, 0.04007174627429869: 1, 0.04005077435529755: 1, 0.04004991291778044: 1, 0.04004717730989587: 1, 0.0400457765611012: 1, 0.04002398628628598: 1, 0.040018765482771584: 1, 0.040017430877752176: 1, 0.040013600018335274: 1, 0.04000701109574958: 1, 0.0400068718473375: 1, 0.03999564549536968: 1, 0.03999418288955136: 1, 0.039988515760553414: 1, 0.03998338072083615: 1, 0.03998213799239055: 1, 0.03998180207878471: 1, 0.03998176772034575: 1, 0.0399806517627145: 1, 0.039973379834429994: 1, 0.03997158718926966: 1, 0.03996265854221786: 1, 0.03996105349811206: 1, 0.03995978611554068: 1, 0.039957855238904647: 1, 0.039954419349811816: 1, 0.03993298814200572: 1, 0.03992911051192034: 1, 0.039928147364721986: 1, 0.03991596001705804: 1, 0.0399133395113071: 1, 0.03990925622519381: 1, 0.03990373220986923: 1, 0.03990253578753321: 1, 0.03989506168346252: 1, 0.03989406958302139: 1, 0.039892715593170223: 1, 0.03988722835917165: 1, 0.0398834226259061: 1, 0.03988045143388395: 1, 0.03987849168723349: 1, 0.03987821246996788: 1, 0.03987429667908444: 1, 0.03987084928876941: 1, 0.03986929828103659: 1, 0.03986617993876922: 1, 0.039862782460150153: 1, 0.039861720183776955: 1, 0.03986063171079253: 1, 0.03984815665706036: 1, 0.03984023548618438: 1, 0.039838844037432604: 1, 0.03982875637076872: 1, 0.039821493555879495: 1, 0.03981716578383032: 1, 0.03981301187489915: 1, 0.03981062715638825: 1, 0.039808394419108536: 1, 0.039804477010020295: 1, 0.039800326378823456: 1, 0.03979869622437385: 1, 0.03979602413013947: 1, 0.0397927956876443: 1, 0.03979000431865565: 1, 0.03978532082783931: 1, 0.039781082837557: 1, 0.03977956973488623: 1, 0.039778555134460145: 1, 0.03976002002700603: 1, 0.039766002002700603: 1, 0.039761110001113600: 1, 0.039761110001113600: 1

05/09/18020905/00093: 1, 0.059/18002030104/102: 1, 0.059/18444400/10/001: 1, 0.059/10111900440002: 1, 0.039731006829619456: 1, 0.03972813506495573: 1, 0.0397251480144971: 1, 0.039720960976868655: 1, 0.039720505334362645: 1, 0.03971060665243775: 1, 0.0397067310156614: 1, 0.039705322089659635: 1, 0.039687795522019585: 1, 0.03968370337955375: 1, 0.039681636197530935: 1, 0.039681397849215025: 1, 0.039679655371190586: 1, 0.03966660513465068: 1, 0.03966564085177427: 1, 0.03966368765268801: 1, 0.039661271109108234: 1, 0.03965849883569829: 1, 0.03965165181946908: 1, 0.03965064465489982: 1, 0.039648475943773395: 1, 0.03964828236687868: 1, 0.03963237800720242: 1, 0.039626730142042176: 1, 0.03962653641715811: 1, 0.03962438220855368: 1, 0.03961921403417493: 1, 0.039610182878293265: 1, 0.039603482397299945: 1, 0.039601679900000554: 1, 0.039600251553787866: 1, 0.03959810814130556: 1, 0.03959808837460316: 1, 0.03959100749796223: 1, 0.03957327123682071: 1, 0.0395622575307593: 1, 0.03956131961151794: 1, 0.03955925510447683: 1, 0.03954182963508036: 1, 0.039520418329484185: 1, 0.039519939513156244: 1, 0.03951588839645832: 1, 0.03951446118892264: 1, 0.03951177818471149: 1, 0.03950786031096737: 1, 0.03950751454191126: 1, 0.03950438888481127: 1, 0.03950015209101121: 1, 0.03949996737411013: 1, 0.03949499433471747: 1, 0.03949455039337493: 1, 0.03949150289032374: 1, 0.03949120984472377: 1, 0.03949018799931611: 1, 0.039486482766533756: 1, 0.0394750946934352: 1, 0.039471230752505124: 1, 0.03945507649068441: 1, 0.039454322980693124: 1, 0.039450427740121315: 1, 0.03944459723772177: 1, 0.039437621621369816: 1, 0.0394282771745075: 1, 0.03941973860226643: 1, 0.03940589639864216: 1, 0.039405374373225485: 1, 0.03940485826231005: 1, 0.039394871119937266: 1, 0.0393924534750332: 1, 0.03939164804262174: 1, 0.039391643557282204: 1, 0.03938791033896019: 1, 0.039387603694795985: 1, 0.03938643387072541: 1, 0.039385769500076925: 1, 0.03938363862945118: 1, 0.03937619003171748: 1, 0.03937513852283476: 1, 0.03937205613345267: 1, 0.03936703241456857: 1, 0.039364507229059646: 1, 0.0393640288339454: 1, 0.03936225802076809: 1, 0.03935735601787826: 1, 0.03934919491215959: 1, 0.039344290721348665: 1, 0.03934191523239302: 1, 0.03933238653524007: 1, 0.03932731881452633: 1, 0.03932438951923445: 1, 0.039322839785008674: 1, 0.039309888064788766: 1, 0.039307464866676134: 1, 0.03930054687083045: 1, 0.039299423049810864: 1, 0.03929935602417058: 1, 0.039298032433078306: 1, 0.039295309059818914: 1, 0.03928879801685752: 1, 0.039288505914049844: 1, 0.03927777380380947: 1, 0.039275663510788136: 1, 0.03927138270920852: 1, 0.039269771156242486: 1, 0.039269281041003065: 1, 0.039260990685160514: 1, 0.0392579523785191: 1, 0.03925236669065249: 1, 0.03924317407322118: 1, 0.039242577894420164: 1, 0.03923379713177809: 1, 0.03923076519865388: 1, 0.03921612664789344: 1, 0.039214341327707514: 1, 0.039211625675505526: 1, 0.03920687713556731: 1, 0.039204368518436075: 1, 0.039196889222741255: 1, 0.03919625944906775: 1, 0.03919489755330873: 1, 0.039192505703685585: 1, 0.03918965714769457: 1, 0.03917809299898526: 1, 0.039173109866109716: 1, 0.039172570247739874: 1, 0.03915274161734973: 1, 0.0391512325333957: 1, 0.039151051918925255: 1, 0.0391483575364376: 1, 0.039146859986792557: 1, 0.03913856861042273: 1, 0.03913840696454704: 1, 0.03913418981931799: 1, 0.0391306553060881: 1, 0.039128329146648565: 1, 0.03912237538914505: 1, 0.03912068667105636: 1, 0.03911899828474645: 1, 0.03911851689406448: 1, 0.03910089521625709: 1, 0.03909529811507424: 1, 0.039094930201755154: 1, 0.039082187619060835: 1, 0.03908057449471302: 1, 0.03907099613432292: 1, 0.0390673138556237: 1, 0.0390673082828212: 1, 0.03906411232899438: 1, 0.039055070039972974: 1, 0.03904892793340456: 1, 0.03904458662928647: 1, 0.039044564459382: 1, 0.03904361360870064: 1, 0.03904149245969273: 1, 0.03904034554134478: 1, 0.03903746001426318: 1, 0.03903122425204333: 1, 0.039030611162305884: 1, 0.03901724192936111: 1, 0.039008860044407526: 1, 0.03899638742080416: 1, 0.03899551666994885: 1, 0.038995126123571464: 1, 0.03899295786800358: 1, 0.0389858439682713: 1, 0.03898501098248032: 1, 0.0389822090673412: 1, 0.03898052699914307: 1, 0.03897823164828871: 1, 0.038975327171656135: 1, 0.038972896781692426: 1, 0.03897271636187026: 1, 0.0389672278529639: 1, 0.03896458568196433: 1, 0.03896228476326959: 1, 0.0389582944878827: 1, 0.03894961482479383: 1, 0.038946738968780814: 1, 0.03894635743053428: 1, 0.03894172990706339: 1, 0.03894119208418888: 1, 0.038922024013431235: 1, 0.03892169227522203: 1, 0.0389202852430316: 1, 0.038919190171167656: 1, 0.038915769370758926: 1, 0.03890978050757882: 1, 0.038907909480661515: 1, 0.03890695927815646: 1, 0.03890590418524797: 1, 0.0389052038644013: 1, 0.03889980588516763: 1, 0.03889194501236452: 1, 0.03888884878410107: 1, 0.038888749952968676: 1, 0.03888222450156863: 1, 0.0388809641934304: 1, 0.03887510416816151: 1, 0.038874633574423396: 1, 0.038872472416259664: 1, 0.03887181719793349: 1, 0.03887138365568957: 1, 0.038869132388767345: 1, 0.03886600693268325: 1, 0.03886509282445109: 1, 0.038864577395948396: 1, 0.03886007995312055: 1, 0.03885621368074472: 1, 0.03885330295409722: 1, 0.0388467964940029: 1, 0.03884409661831398: 1, 0.03884172857223569: 1, 0.0388377519703589: 1, 0.03883305248197584: 1, 0.03882707528327709: 1, 0.03881616943031928: 1, 0.038812876487037455: 1, 0.038811798554103175: 1, 0.03880689727364928: 1, 0.03880096930788404: 1, 0.038800101575665165: 1, 0.03879776033675506: 1, 0.03879609145563215: 1, 0.0387922873903901: 1, 0.03878597194663748: 1, 0.03878387338704568: 1, 0.0387830617968295: 1, 0.03878200117431232: 1, 0.03877915237890392: 1, 0.03875325249276331: 1, 0.03874271312276832: 1, 0.038737500981044934: 1, 0.03873444573505865: 1, 0.0387294132375441: 1, 0.038728543652874134: 1, 0.0387258920027656: 1, 0.03872176239129216: 1, 0.03871508823215014: 1, 0.038714963089848425: 1, 0.0387015654188048: 1, 0.03870033776489819: 1, 0.038694395126384507: 1, 0.03868743463160661: 1, 0.03868098130574324: 1, 0.038673115004789864: 1, 0.03866817554246434: 1, 0.03866630846085471: 1, 0.038664911849047044: 1, 0.03866083085936088: 1, 0.03866020336788907: 1, 0.03865597371661317: 1, 0.03865075765077818: 1, 0.03864238046304801: 1, 0.038640023777889734: 1, 0.03863945265467597: 1, 0.03863627489738799: 1, 0.03863325494773013: 1, 0.03861544810569409: 1, 0.03861494549428584: 1, 0.03861247969817908: 1, 0.038606809677265534: 1, 0.03860633432702594: 1, 0.038604067616201033: 1, 0.0386010436703155: 1, 0.03859839575088592: 1, 0.03859760956565383: 1, 0.03859377730831744: 1, 0.038593344289907405: 1, 0.03858906575291906: 1, 0.03858637112731162: 1, 0.03858573278460985: 1, 0.038583613248091155: 1, 0.03857693738035646: 1, 0.03856329351152321: 1, 0.03856299614802363: 1, 0.038551803867063444: 1, 0.0385444925599502: 1, 0.03853551953046228: 1, 0.03853415775568611: 1, 0.03852918994629373: 1, 0.038522987489004804: 1, 0.03851997302764522: 1, 0.038519044804681844: 1, 0.03850531849226106: 1, 0.038502787247290275: 1, 0.03850240256926696: 1, 0.038502368832427754: 1, 0.03850140285151023: 1, 0.03850103573436255: 1, 0.038500378856952254: 1, 0.03849960702262684: 1, 0.03849753248456499: 1, 0.03849466312072148: 1, 0.03849450703047467: 1, 0.038491364658399016: 1, 0.038490399472189844: 1, 0.03848968915569239: 1, 0.038485305610025285: 1, 0.03847972504170188: 1, 0.03847743219133847: 1, 0.038470267103516: 1, 0.03844725825737683: 1, 0.03844548075478303: 1, 0.03844152744767234: 1, 0.03842040041242105: 1, 0.0384220412461041205: 1, 0.0384202002022352020: 1, 0.03842127600202020: 1,

0.03/1921/329120125: 1, 0.03/191/2896450/606: 1, 0.03/18083229/141156: 1, 0.03/1/3/366/93921: 1, 0
.037170265561963456: 1, 0.03715962602297422: 1, 0.03715948246155834: 1, 0.037159345475096806: 1, 0
.03714839667830948: 1, 0.0371406755473488: 1, 0.03714066337580802: 1, 0.03713974959940853: 1,
0.0371353866665625: 1, 0.03713153723338535: 1, 0.03713098442787105: 1, 0.03713063760635872: 1,
0.03712616405547677: 1, 0.03711541559471912: 1, 0.03710761682890687: 1, 0.03709847194336932: 1,
0.03709825132715185: 1, 0.03709566036449467: 1, 0.037090615899421094: 1, 0.03708643041356985: 1, 0
.03708085518831414: 1, 0.03707433063468401: 1, 0.03706628366205815: 1, 0.03706609254735011: 1,
0.03706120888623299: 1, 0.037059032743831745: 1, 0.03705735871130271: 1, 0.03705300289741435: 1, 0
.037052652538433546: 1, 0.03704192691961816: 1, 0.037038940884736825: 1, 0.037035804956136: 1,
0.037033128098151846: 1, 0.03702692565078135: 1, 0.037025148222844945: 1, 0.03702051574102589: 1,
0.037016354433737284: 1, 0.03701098543951779: 1, 0.03700446180414841: 1, 0.036999585866661015: 1,
0.036988364521344005: 1, 0.03697845731777611: 1, 0.03697450516670313: 1, 0.036969861023573566: 1,
0.03696977274539452: 1, 0.03696589783304214: 1, 0.03696426742500703: 1, 0.03696173284612873: 1,
0.036952145804668046: 1, 0.03694927307041573: 1, 0.036944051408878034: 1, 0.03694172958155785: 1,
0.036940086105829675: 1, 0.0369396544137995: 1, 0.0369375475503873: 1, 0.036935374129770174: 1, 0
.03692469443334627: 1, 0.03692156703448315: 1, 0.03692124236802298: 1, 0.03691088072623109: 1,
0.036909399356448394: 1, 0.03690215221045197: 1, 0.036900305618750816: 1, 0.036881040662772514: 1,
0.03686769664859706: 1, 0.036867072808254804: 1, 0.03685707440167889: 1, 0.03685333796041369: 1, 0
.036849480339084716: 1, 0.03684756570598123: 1, 0.03684394834871302: 1, 0.03684300608407314: 1,
0.03683673880093971: 1, 0.03682682440662257: 1, 0.03682137558464918: 1, 0.036817645402084945: 1, 0
.03680834000052054: 1, 0.036792947551467926: 1, 0.03679168501514265: 1, 0.03679077065521796: 1,
0.0367905561018777: 1, 0.03678346483767651: 1, 0.03678176457407382: 1, 0.03677628337748884: 1,
0.03677294696208526: 1, 0.03676564689391786: 1, 0.03676291651271874: 1, 0.03676048633757065: 1,
0.0367550009139361: 1, 0.03675037506397851: 1, 0.03674917959238515: 1, 0.03674712164463985: 1,
0.03674162313938314: 1, 0.036740047729263973: 1, 0.036734572387874455: 1, 0.03673370238028647: 1,
0.0367282456059877: 1, 0.03672321164201782: 1, 0.036719913870411: 1, 0.036719636751640236: 1,
0.036708059833745844: 1, 0.03670271621323649: 1, 0.03669693993089107: 1, 0.0366924950047527: 1,
0.03668525835999234: 1, 0.03668231117397722: 1, 0.03667892262262774: 1, 0.036677185713588065: 1, 0
.036676902186406554: 1, 0.03666167305157088: 1, 0.036652808028828476: 1, 0.03665201082138951: 1, 0
.036645402333618: 1, 0.036631559601774145: 1, 0.036627902432496535: 1, 0.03662186010174389: 1, 0.0
36619336482114996: 1, 0.03658758765332911: 1, 0.03658320073822317: 1, 0.036582047477764355: 1,
0.03658163567078649: 1, 0.03657260395666644: 1, 0.03657259610780203: 1, 0.03657196308460699: 1, 0
.03656679561712555: 1, 0.036565656486686607: 1, 0.03656378548508739: 1, 0.036560645873997474: 1,
0.036552325078717314: 1, 0.03654840284914744: 1, 0.03654483753571483: 1, 0.03653907461751372: 1,
0.03653848444083803: 1, 0.03653764038327317: 1, 0.03653005271247366: 1, 0.03652427531974773: 1,
0.03652391002747709: 1, 0.03652119557334091: 1, 0.03651863427672199: 1, 0.03651856035463341: 1,
0.03650160462102891: 1, 0.03649596506012578: 1, 0.03649464542266814: 1, 0.0364930972489139: 1,
0.0364881199761208: 1, 0.03647600733746814: 1, 0.036475393747886144: 1, 0.03647351246884327: 1,
0.03647095028285353: 1, 0.036468741564905656: 1, 0.036468169877732326: 1, 0.036465829154216936: 1,
0.03646326486350273: 1, 0.03646143854977637: 1, 0.03646032609774353: 1, 0.03644328501356579: 1,
0.03643183170164831: 1, 0.03642327776298859: 1, 0.036421529472477746: 1, 0.0363994251322511: 1, 0.
03639828751773986: 1, 0.036388427566364366: 1, 0.036387683118927996: 1, 0.03638759666858556: 1, 0.
03638032905045368: 1, 0.036373048735070634: 1, 0.03636369742646415: 1, 0.03635794738968654: 1,
0.03635690814494314: 1, 0.036355761343078025: 1, 0.03635481315303325: 1, 0.03635414557367037: 1, 0
.0363495417701385: 1, 0.03634816272650965: 1, 0.03634750618595401: 1, 0.03634197454511045: 1,
0.03634016377529316: 1, 0.036339259353294975: 1, 0.036338608889417624: 1, 0.036332956383440924: 1,
0.03632992171893808: 1, 0.03632437466480876: 1, 0.036323563918617824: 1, 0.03632292665133308: 1, 0
.03631000402139305: 1, 0.03630578645481879: 1, 0.03630482482099528: 1, 0.036303373270512466: 1,
0.03629807755589355: 1, 0.03628968625324165: 1, 0.0362749307059945: 1, 0.03627379193246368: 1,
0.036273017934395115: 1, 0.03626573459390245: 1, 0.036260480327810846: 1, 0.03625738880886553: 1,
0.03625323533421201: 1, 0.03625164665069186: 1, 0.036247326424753396: 1, 0.036241422035250784: 1,
0.0362336696413818: 1, 0.03622652112447222: 1, 0.03622568636845927: 1, 0.03622495165063971: 1,
0.03621867867579374: 1, 0.03620502054049576: 1, 0.03619770113134745: 1, 0.036196824469922: 1,
0.036196809548159195: 1, 0.03619509465857938: 1, 0.03619198761191523: 1, 0.0361908392153004: 1,
0.036188692850324: 1, 0.03618687168608885: 1, 0.03618463165495329: 1, 0.03617479877999491: 1,
0.03617305931971529: 1, 0.036163654654204624: 1, 0.036160495862109725: 1, 0.0361593298353323: 1, 0
.03615905982522504: 1, 0.036150680326951214: 1, 0.03614536532941594: 1, 0.03613527112048838: 1,
0.03613180130064231: 1, 0.036131417984620114: 1, 0.03612870649977018: 1, 0.03612366735243124: 1,
0.036123652532281614: 1, 0.036116615158712714: 1, 0.03611554872801608: 1, 0.036113504637687345: 1,
0.03611333886330905: 1, 0.03610953613252511: 1, 0.03610733079169723: 1, 0.03610680691395968: 1,
0.03610452450624595: 1, 0.036103347142082534: 1, 0.03609397358728347: 1, 0.036088090229221874: 1,
0.0360855655432904: 1, 0.036083182109084094: 1, 0.036077520938237184: 1, 0.0360751715946638234: 1,
0.03607182772735943: 1, 0.03607102898747169: 1, 0.036068764416968255: 1, 0.03606797090360435: 1, 0
.03606577551433447: 1, 0.03605940330104053: 1, 0.03605266291287084: 1, 0.036044538670271714: 1,
0.036027509503457636: 1, 0.03602595412801521: 1, 0.03601956866867516: 1, 0.03601909850629455: 1,
0.03601713010281046: 1, 0.03601509746687498: 1, 0.036011720852460384: 1, 0.03600963672784558: 1, 0
.0359991003739564: 1, 0.03599883128848544: 1, 0.035996324224318935: 1, 0.035993394014423225: 1, 0.
035982530668782306: 1, 0.03598047877049648: 1, 0.03597781547991129: 1, 0.03597631129220799: 1,
0.03596742110226506: 1, 0.03596605242808079: 1, 0.035963650155998644: 1, 0.03595933574631765: 1, 0
.0359573734496405: 1, 0.03595156978033373: 1, 0.035945969727763594: 1, 0.035943367142511645: 1, 0.
03593652163366242: 1, 0.03593602149496153: 1, 0.035928277437758116: 1, 0.03592693052936246: 1,
0.0359264269168454: 1, 0.03592136356495264: 1, 0.03592134962482567: 1, 0.03591763324121482: 1,
0.035913340521103516: 1, 0.03591297923326241: 1, 0.035902519474802795: 1, 0.035897197696073385: 1,
0.035896234411759285: 1, 0.03589399744678859: 1, 0.03588968699208249: 1, 0.0358872645683419: 1,
0.03587883875988168: 1, 0.0358723436286739: 1, 0.03586923240810708: 1, 0.0358675545120655: 1,
0.03586744951713921: 1, 0.035866568100184425: 1, 0.03586151944578016: 1, 0.03585783580392625: 1, 0
.03585179221756494: 1, 0.03584664613754361: 1, 0.035844488261248086: 1, 0.0358422117529591: 1,
~~~~~

0.035833255076388994: 1, 0.03582888700442727: 1, 0.03582664558067269: 1, 0.0358221148795699: 1,  
0.03582055777125122: 1, 0.03581988852886633: 1, 0.035819550596233: 1, 0.035817038033398994: 1,  
0.03580183863713226: 1, 0.03579826959664856: 1, 0.03579456708324345: 1, 0.03579390669160312: 1,  
0.03578608821865122: 1, 0.03577879732882299: 1, 0.035766429976087116: 1, 0.03576464190330816: 1, 0  
.03575484797505566: 1, 0.03573326344297545: 1, 0.03573280628937025: 1, 0.03572665242657762: 1,  
0.03571885674077558: 1, 0.03571607347288895: 1, 0.03571364211493959: 1, 0.03571303612161789: 1,  
0.03571297613326891: 1, 0.035712145576234755: 1, 0.035707502476582026: 1, 0.0357065423757574: 1, 0  
.03570525690760292: 1, 0.03570438298158869: 1, 0.035696400633311316: 1, 0.035693495948280744: 1, 0  
.035692832859114856: 1, 0.035690498776183174: 1, 0.03568684256060982: 1, 0.03568474605325557: 1, 0  
.03568222582872692: 1, 0.03567596530147846: 1, 0.035671168431985686: 1, 0.035664257183224385: 1, 0  
.03565960032766954: 1, 0.0356557843652692: 1, 0.03563718849479771: 1, 0.03563394483220089: 1,  
0.035616753499301185: 1, 0.035610349721846346: 1, 0.035610065235930737: 1, 0.03559788884946192: 1,  
0.03559636147072959: 1, 0.03559634916026608: 1, 0.035595781710247534: 1, 0.035594756432256416: 1,  
0.03559356088124411: 1, 0.03559192095799055: 1, 0.03559148440014677: 1, 0.03559075584119008: 1,  
0.035586692108114: 1, 0.0355859226071738: 1, 0.03558293637523682: 1, 0.035578244410831544: 1,  
0.035572694694879635: 1, 0.03557115424203977: 1, 0.03556445537661196: 1, 0.03555893780694867: 1,  
0.0355568781298172: 1, 0.035555855714722376: 1, 0.03555203412670023: 1, 0.03554160531393063: 1,  
0.03553745683648215: 1, 0.03553681957959393: 1, 0.03553475530483921: 1, 0.03553357626560155: 1,  
0.0355258487129691: 1, 0.035520849932079164: 1, 0.03551770225093778: 1, 0.03551525175400192: 1,  
0.03551487100220574: 1, 0.03550122190289953: 1, 0.03550049673613924: 1, 0.03549954311440374: 1,  
0.035497768016965574: 1, 0.03549691747309853: 1, 0.03549075613960441: 1, 0.03548990938498143: 1,  
0.03548413962191291: 1, 0.035481973207676244: 1, 0.03547421911866346: 1, 0.03547352937167515: 1, 0  
.035471069982035: 1, 0.035470027010863145: 1, 0.03546845963528129: 1, 0.03546840030460464: 1,  
0.03545978032444005: 1, 0.035459714632793474: 1, 0.03545817574576944: 1, 0.03545342397189344: 1, 0  
.03545001758124578: 1, 0.035445912428640834: 1, 0.035442250106846145: 1, 0.03543932603300664: 1, 0  
.03543849745595329: 1, 0.03543585526978536: 1, 0.03542378510831973: 1, 0.03541798746333947: 1,  
0.03541426260687707: 1, 0.03541356896751144: 1, 0.03541064781841016: 1, 0.035407105996132233: 1, 0  
.03540357307804423: 1, 0.03540263682800374: 1, 0.03539766093513357: 1, 0.03539541903865627: 1,  
0.03538926390583982: 1, 0.03538628646778145: 1, 0.035384184055925916: 1, 0.035383246371353066: 1,  
0.03537559421900414: 1, 0.03537234421440237: 1, 0.035371625834934: 1, 0.035370686988212205: 1,  
0.03537004566582375: 1, 0.035369442657875685: 1, 0.03536784330645016: 1, 0.035364887438001424: 1,  
0.03536459105775608: 1, 0.03535544966270521: 1, 0.03535286050321208: 1, 0.035351813277632566: 1, 0  
.0353509848580662: 1, 0.03534637367502177: 1, 0.03534479212753293: 1, 0.03533873231983886: 1,  
0.03533559589313626: 1, 0.03533523778898336: 1, 0.03533208782152951: 1, 0.035330359220468045: 1, 0  
.035330057420929775: 1, 0.035329421405061276: 1, 0.03532861238550085: 1, 0.03532634057482742: 1, 0  
.035324025718104876: 1, 0.03531221025841773: 1, 0.035311647951413484: 1, 0.03530590243152168: 1, 0  
.03530560181531927: 1, 0.03530487717701239: 1, 0.03528661588525533: 1, 0.035284022776172125: 1,  
0.035275804818190926: 1, 0.035260950140997255: 1, 0.03526006047741736: 1, 0.035257455384674403: 1,  
0.03525374456601153: 1, 0.03525316722500541: 1, 0.03525138915893884: 1, 0.03524832112654545: 1,  
0.03524127552558961: 1, 0.0352392612767866: 1, 0.03523422579974327: 1, 0.03523146166433136: 1,  
0.0352295371225185: 1, 0.03522344922890648: 1, 0.03521353172907075: 1, 0.03521181936573997: 1,  
0.03521094724402732: 1, 0.035202852400109653: 1, 0.03520282538799979: 1, 0.035201088819117786: 1,  
0.03519804034370768: 1, 0.03519421967300164: 1, 0.03518236239436991: 1, 0.03518071812014758: 1,  
0.035174861403831484: 1, 0.03517207950357649: 1, 0.03516592809548127: 1, 0.03516545516416638: 1,  
0.03516043948288233: 1, 0.035155579391901795: 1, 0.03514576359455322: 1, 0.03514502247865958: 1, 0  
.03514426462675197: 1, 0.03513951478696917: 1, 0.03513430523301962: 1, 0.03513325023791021: 1,  
0.03512557029542816: 1, 0.03511824565791772: 1, 0.03511623222731982: 1, 0.035108952501118396: 1, 0  
.03510483623119205: 1, 0.035104476621927595: 1, 0.03510410877428485: 1, 0.03508567087568531: 1,  
0.03508140043761417: 1, 0.03507104926013855: 1, 0.03506964549517604: 1, 0.03506894198521375: 1,  
0.03506440272341571: 1, 0.03506120366046181: 1, 0.03504404902299519: 1, 0.035043952428349706: 1, 0  
.035040100589073184: 1, 0.03503831956146254: 1, 0.035027231312493336: 1, 0.03502586157366834: 1, 0  
.03502281046131048: 1, 0.03501992737250616: 1, 0.03501732135990546: 1, 0.03501535770790698: 1,  
0.03501182344146729: 1, 0.03500833797450783: 1, 0.03500509163415063: 1, 0.03499954779261333: 1,  
0.0349973710487011: 1, 0.03499732379087339: 1, 0.0349913043236149: 1, 0.03498681121552255: 1,  
0.03498339213391109: 1, 0.034970509540600256: 1, 0.0349698947283314: 1, 0.03496889488762358: 1, 0  
.03496829652473595: 1, 0.03496443423957269: 1, 0.034958763694599826: 1, 0.034956977664970496: 1, 0  
.034945588642102204: 1, 0.034933679590951505: 1, 0.034932525985348725: 1, 0.03492973653185435: 1, 0  
.03491537027960283: 1, 0.0349149989039789: 1, 0.03490821743864807: 1, 0.03490355973577577: 1,  
0.03490339842980815: 1, 0.03490265494806881: 1, 0.03490184783015938: 1, 0.0349880673785549: 1,  
0.03489524169723073: 1, 0.03489352432146804: 1, 0.03489166213769716: 1, 0.034886535385840654: 1, 0  
.03488363506040522: 1, 0.03487933919864281: 1, 0.034877307085878946: 1, 0.03487615250234583: 1,  
0.03487320922970091: 1, 0.03487272159383762: 1, 0.034863742349136105: 1, 0.034860727435716214: 1,  
0.03485772354356988: 1, 0.034855015646225666: 1, 0.03484702664938016: 1, 0.03484143682614612: 1, 0  
.03483669364680454: 1, 0.034831177174297664: 1, 0.03482847400708145: 1, 0.03482501925009059: 1,  
0.034824899601773936: 1, 0.03481887922038992: 1, 0.03481668115808003: 1, 0.03481180786217262: 1,  
0.03481078742065723: 1, 0.03481045439381418: 1, 0.0348049608958182: 1, 0.0348006583629294: 1,  
0.03479093323213307: 1, 0.03479882967810507: 1, 0.03479426547431584: 1, 0.034792394114684516: 1, 0  
.034791601167166966: 1, 0.034784897397030806: 1, 0.03477991020539476: 1, 0.03477608853725836: 1, 0  
.034773890239523306: 1, 0.034773035502053615: 1, 0.0347665427697097: 1, 0.03476604031951219: 1, 0  
.03476325812707752: 1, 0.03476077744025747: 1, 0.03476018488460945: 1, 0.034758580493264496: 1,  
0.03475833268985119: 1, 0.03475468218781559: 1, 0.03474511477391469: 1, 0.034744063211382: 1,  
0.034740535824095545: 1, 0.03474035373427506: 1, 0.03473698324839717: 1, 0.03473520772019524: 1,  
0.03473131960869669: 1, 0.034728685604020204: 1, 0.03472857772883169: 1, 0.034723237612572316: 1,  
0.0347052336303713: 1, 0.03470430920157119: 1, 0.034701756584198204: 1, 0.0346980915040638: 1,  
0.03468467850419828: 1, 0.034683965075187145: 1, 0.034677016553438494: 1, 0.0346763478001434: 1,  
0.034673308325390576: 1, 0.034669250728264975: 1, 0.034661341446396286: 1, 0.03465892543054212: 1,  
0.03465397856115339: 1, 0.03465219097080954: 1, 0.034649149390787434: 1, 0.034647992282324375: 1,

0.034647551652992915: 1, 0.03464731801745531: 1, 0.03463964335821402: 1, 0.03463796261413889: 1, 0.03463011251990375: 1, 0.03462711981787346: 1, 0.034626577225395826: 1, 0.034623506272037974: 1, 0.03462218129868399: 1, 0.03462140634369211: 1, 0.03461460599944427: 1, 0.034613353859678654: 1, 0.03461198495207775: 1, 0.03460887916682537: 1, 0.03460407818275438: 1, 0.034603277466999365: 1, 0.03459645666271908: 1, 0.034596330189187466: 1, 0.034596116625250174: 1, 0.03458792088225319: 1, 0.03458618753847595: 1, 0.03458437267258954: 1, 0.034581572440778495: 1, 0.034560884068075164: 1, 0.034541932251172726: 1, 0.03454143535900331: 1, 0.034539659142923326: 1, 0.034532966072103516: 1, 0.0345324064443032: 1, 0.034530659771748115: 1, 0.034525014408686786: 1, 0.03452370139376518: 1, 0.03452152795436516: 1, 0.034511175021361286: 1, 0.03451116665191402: 1, 0.03450666773624928: 1, 0.03450564796298463: 1, 0.034504684803775394: 1, 0.03449916406123161: 1, 0.03449210204892181: 1, 0.03449182007099153: 1, 0.03449058765199667: 1, 0.03448833133012834: 1, 0.0344837618614133: 1, 0.034471589322079624: 1, 0.03447125492052815: 1, 0.034467419831447674: 1, 0.03446224173240219: 1, 0.03446155477590357: 1, 0.034459980702410055: 1, 0.03445920952546561: 1, 0.03445800704217341: 1, 0.03445427615632212: 1, 0.03445351870219201: 1, 0.034450998513147056: 1, 0.03444970161089789: 1, 0.034446248317175514: 1, 0.034442393002698864: 1, 0.03444211558615238: 1, 0.03443781139089198: 1, 0.03443409856880085: 1, 0.03442905411956036: 1, 0.03442870551407438: 1, 0.034427103637427514: 1, 0.034426878803658446: 1, 0.03441671824095901: 1, 0.0344161814799322: 1, 0.03441120550163346: 1, 0.034409672366374565: 1, 0.03440046746875684: 1, 0.03439910091468689: 1, 0.034398341342368105: 1, 0.0343945086856095: 1, 0.03438383456791016: 1, 0.03438178881243784: 1, 0.03438120841581395: 1, 0.03438001652274593: 1, 0.03437136131265117: 1, 0.03436680839928697: 1, 0.034366128870745014: 1, 0.034360882694506434: 1, 0.0343595862967903: 1, 0.03435655513703739: 1, 0.03434808793423877: 1, 0.03434724903891066: 1, 0.03434147242554291: 1, 0.03434032561390248: 1, 0.03433683214195502: 1, 0.034335796306347026: 1, 0.03433401062066615: 1, 0.034330845026565575: 1, 0.034325596304563964: 1, 0.034321889068495946: 1, 0.03431418891008613: 1, 0.034308241498062636: 1, 0.03429507826596321: 1, 0.03428702863780765: 1, 0.03428645484399292: 1, 0.034284998811796884: 1, 0.034273558693052916: 1, 0.03426187828844085: 1, 0.03425849732864321: 1, 0.0342582057650825: 1, 0.03424630960860721: 1, 0.03424130659444599: 1, 0.03423160126770629: 1, 0.0342270403744821: 1, 0.03422268617674751: 1, 0.03422192366826831: 1, 0.03421737936719374: 1, 0.0342156818446971: 1, 0.034211924851167815: 1, 0.034211851067963366: 1, 0.03421046082470662: 1, 0.034208507112060485: 1, 0.03419966326005192: 1, 0.03419812045337017: 1, 0.034195989043482145: 1, 0.03419183176834251: 1, 0.034187131103748485: 1, 0.03417606827147003: 1, 0.03417562547836908: 1, 0.03417523501625816: 1, 0.034174562816220534: 1, 0.034169843106908106: 1, 0.03416790897112178: 1, 0.0341645343957734: 1, 0.03416297803811896: 1, 0.03415401764067369: 1, 0.03414619917865709: 1, 0.03414491250546314: 1, 0.03413409918145735: 1, 0.03412757265041711: 1, 0.034124725918728546: 1, 0.03412286082802994: 1, 0.03412284056933233: 1, 0.03410795701442597: 1, 0.0341064609124896: 1, 0.034105570679966: 1, 0.03410190652854284: 1, 0.03410150736082612: 1, 0.034098732446767: 1, 0.03409013032969075: 1, 0.034085016952006345: 1, 0.034082030450498145: 1, 0.03407815845895047: 1, 0.03407469558816561: 1, 0.03407304422753974: 1, 0.03407272692489699: 1, 0.03406424129529145: 1, 0.03406116444926613: 1, 0.03405629250475348: 1, 0.03405154549489705: 1, 0.03404522674149763: 1, 0.0340443383764936: 1, 0.034024227181243996: 1, 0.03402261974433756: 1, 0.03401406649242582: 1, 0.03400827547199678: 1, 0.034004259754745934: 1, 0.03400150565103591: 1, 0.03399973995169001: 1, 0.03399775361745483: 1, 0.03399041304793428: 1, 0.03397309475113918: 1, 0.03396832194049202: 1, 0.03396612184429178: 1, 0.033964114690568065: 1, 0.033961583675350286: 1, 0.03395872352166251: 1, 0.0339579028903037: 1, 0.03395584232220157: 1, 0.03395501891200246: 1, 0.03395494629822485: 1, 0.03395352809853173: 1, 0.033953349526590876: 1, 0.03395251045613634: 1, 0.033952207158489414: 1, 0.033949657629008936: 1, 0.033949566932225034: 1, 0.03394578533820137: 1, 0.03394211871880645: 1, 0.03393898595002784: 1, 0.03393865477102867: 1, 0.03393606801137132: 1, 0.033934790316383995: 1, 0.03393453019265196: 1, 0.03393369600029195: 1, 0.033925874418247126: 1, 0.033902674358744396: 1, 0.03390201839124535: 1, 0.03390184018307666: 1, 0.0339007056444789: 1, 0.03388780283238946: 1, 0.03387554356275531: 1, 0.03387274408947069: 1, 0.03387251932602202: 1, 0.033867059842103524: 1, 0.03386153720313387: 1, 0.03386074418438885: 1, 0.03385959686709705: 1, 0.03385375801841902: 1, 0.033846847727266205: 1, 0.033845117879579466: 1, 0.03384018286202637: 1, 0.03382041491753599: 1, 0.033820003792944614: 1, 0.03381205916034059: 1, 0.03380754753096716: 1, 0.033805111515214675: 1, 0.03379980779131195: 1, 0.03379622868576297: 1, 0.033792083556142834: 1, 0.033790482764845496: 1, 0.03378360321515725: 1, 0.033778164181422946: 1, 0.03377640479532808: 1, 0.033771536475822546: 1, 0.03376905649057993: 1, 0.03375648725435668: 1, 0.033750333519074624: 1, 0.03374628171742388: 1, 0.03372496026705478: 1, 0.03371995207560005: 1, 0.03371953879346489: 1, 0.033714107086510715: 1, 0.033705594353087905: 1, 0.033703671295483316: 1, 0.03369849816129884: 1, 0.03369174521242658: 1, 0.033689524422419855: 1, 0.03368247419002172: 1, 0.03367305158240227: 1, 0.03367123639713847: 1, 0.03366687385733889: 1, 0.033664776318980474: 1, 0.033663767976590334: 1, 0.03366162333868178: 1, 0.03366087225564028: 1, 0.033655748003945246: 1, 0.0336547427820402: 1, 0.033648843213324876: 1, 0.03364532465222411: 1, 0.033643785138565835: 1, 0.03364186795056114: 1, 0.033636442661596565: 1, 0.033627481519000975: 1, 0.03362273709361723: 1, 0.03362129408162241: 1, 0.03362031567146261: 1, 0.03361420560251125: 1, 0.03361408103225864: 1, 0.03360428489239499: 1, 0.033596326314440095: 1, 0.03359624842462037: 1, 0.03359572663586544: 1, 0.033593549325311105: 1, 0.03358763591706165: 1, 0.033583535135946536: 1, 0.033579650601484205: 1, 0.0335762372270616: 1, 0.033572568283265936: 1, 0.033563229929398176: 1, 0.033562164687827384: 1, 0.033560902498782505: 1, 0.033557176624259305: 1, 0.03355077527481957: 1, 0.0335329152716355: 1, 0.03352872695793154: 1, 0.03352039178924199: 1, 0.03350970454225779: 1, 0.03350928704971251: 1, 0.033507864385860155: 1, 0.03350507705684323: 1, 0.03350078802493617: 1, 0.033496315142977524: 1, 0.03349534216689133: 1, 0.03349302192975301: 1, 0.033492477824619324: 1, 0.033484811351607795: 1, 0.03348251087059017: 1, 0.03348129377138816: 1, 0.03347667810401897: 1, 0.033476598410501754: 1, 0.03347159684337899: 1, 0.033463497528247094: 1, 0.033460864506902305: 1, 0.03345993640159095: 1, 0.033459834966211584: 1, 0.03345534516023348: 1, 0.03345002402513954: 1, 0.033447772738481416: 1, 0.03344500427939062: 1, 0.033444501025601286: 1, 0.03344025573566832: 1, 0.03343828112695647: 1, 0.033436738954301735: 1, 0.03343229281387198: 1, 0.033427729660270175: 1, 0.033425223031452456: 1, 0.03342515902863562: 1, 0.03342189073653066: 1, 0.03341683636414049: 1, 0.033415937473411414: 1, 0.03341471250846467: 1, 0.03341268251263997: 1, 0.03341224129009655: 1, 0.03341163529846124: 1

0.033409691352415914: 1, 0.03340641039817642: 1, 0.033404517867127184: 1, 0.0334044652231909: 1, 0  
.03340168012431816: 1, 0.0334006810006504: 1, 0.033400632744859535: 1, 0.03339936442239191: 1,  
0.03339249780424573: 1, 0.033382332845929764: 1, 0.03338230043067941: 1, 0.03338122585375475: 1, 0  
.03338067062611159: 1, 0.03338020871214456: 1, 0.03337940990044259: 1, 0.03337667132681702: 1,  
0.033375392092615405: 1, 0.033374956077248635: 1, 0.03335778699579565: 1, 0.03335690561118751: 1,  
0.033353647695199724: 1, 0.033352754617304976: 1, 0.033349182539019466: 1, 0.03334856141702544: 1,  
0.03334224845426835: 1, 0.033329694780254306: 1, 0.03331220638520721: 1, 0.03330160292773491: 1, 0  
.03330115695079497: 1, 0.03330033070779059: 1, 0.03328980657527298: 1, 0.033283535079380505: 1,  
0.03328145556990882: 1, 0.033280947286094986: 1, 0.03327464234833259: 1, 0.033273668518120386: 1,  
0.03326370319248606: 1, 0.033257687945820937: 1, 0.033254047870116: 1, 0.03325217487936526: 1,  
0.03325080455409725: 1, 0.033250679459645986: 1, 0.033249940052271276: 1, 0.03324575407427774: 1,  
0.03324380710560265: 1, 0.033243190407001716: 1, 0.03324193227878238: 1, 0.03323864728199936: 1, 0  
.03323069044990937: 1, 0.03322997532276747: 1, 0.033221478948449804: 1, 0.03321844315030127: 1,  
0.03321271103885319: 1, 0.03321163854624676: 1, 0.03321146892215028: 1, 0.033210714273550185: 1, 0  
.03320942225049815: 1, 0.03320673540919757: 1, 0.03319744351476347: 1, 0.03319245671334356: 1,  
0.03319154950185842: 1, 0.03318543236603881: 1, 0.033180959580330384: 1, 0.03317747965803807: 1, 0  
.033174043097662344: 1, 0.03317309343691796: 1, 0.03316250453856298: 1, 0.0331621765720476: 1,  
0.03315547447376563: 1, 0.03314945955295042: 1, 0.03314791022782908: 1, 0.03314577554679649: 1,  
0.033137540702911875: 1, 0.033137052154785386: 1, 0.033136717572993614: 1, 0.03313440688036102: 1,  
0.03313403925783729: 1, 0.033130134265906164: 1, 0.03312796411330089: 1, 0.03312545528368581: 1, 0  
.033124731180093965: 1, 0.033123925433469814: 1, 0.03311945786677903: 1, 0.03311579083383536: 1, 0  
.03310930779323753: 1, 0.03309712379001125: 1, 0.03308975587473538: 1, 0.03308782683955532: 1,  
0.033083822183664055: 1, 0.03308256584872038: 1, 0.03307843726775838: 1, 0.03307303767912573: 1,  
0.033072999936508085: 1, 0.033071170112512885: 1, 0.033063022019519224: 1, 0.03305749549253442: 1,  
0.03305356196265888: 1, 0.033049290217498424: 1, 0.033046501665775115: 1, 0.033043293707557805: 1,  
0.03303686330106683: 1, 0.03303427640833577: 1, 0.033033765581740406: 1, 0.03302867487063685: 1, 0  
.033018353275817036: 1, 0.03301809565697581: 1, 0.033018051518613326: 1, 0.03301755691610334: 1, 0  
.033008152530205864: 1, 0.033005707803180837: 1, 0.03300471417963359: 1, 0.03300272872270582: 1, 0  
.032991848138799684: 1, 0.032989679605844716: 1, 0.03298645489076767: 1, 0.03298274245216079: 1, 0  
.032975954045012336: 1, 0.032975676151281996: 1, 0.03297522102592668: 1, 0.032971071949066226: 1,  
0.03296865091801265: 1, 0.032965072226295807: 1, 0.03295697798124282: 1, 0.032952058998577255: 1,  
0.03294974954054453: 1, 0.03294870194382109: 1, 0.03294297702696513: 1, 0.032937218237774034: 1, 0  
.0329371117995544: 1, 0.032932794894874814: 1, 0.03293087993766167: 1, 0.03292915187337361: 1,  
0.032916567837981865: 1, 0.032916209812778464: 1, 0.03291074173073864: 1, 0.032909912117168344: 1,  
0.032907688659948815: 1, 0.03288149611703266: 1, 0.03288070560159586: 1, 0.03287929969827227: 1,  
0.032878292278349: 1, 0.03287729077693831: 1, 0.03287631109896434: 1, 0.032873491440853705: 1,  
0.03286797498851718: 1, 0.032865849245793145: 1, 0.032863262605487824: 1, 0.032853550476530456: 1,  
0.03285162284865037: 1, 0.032836951081851216: 1, 0.032831697910111673: 1, 0.03282934123111288: 1,  
0.032821380704090145: 1, 0.03281842102262054: 1, 0.03281759660457503: 1, 0.03281554789736144: 1,  
0.03281449929734353: 1, 0.032813735242579224: 1, 0.03281364458686827: 1, 0.03280435199299485: 1, 0  
.032803622941235934: 1, 0.032803136882500736: 1, 0.032798621748969026: 1, 0.032793501400796336: 1,  
0.03278556040011203: 1, 0.032781405456098894: 1, 0.032780855111976766: 1, 0.03277608112127699: 1,  
0.032774421123934104: 1, 0.03274979531214357: 1, 0.032749452108347635: 1, 0.032744911447811935: 1,  
0.0327386856853286: 1, 0.03273663537594741: 1, 0.03273493154614215: 1, 0.03272547326775091: 1,  
0.03272264946179293: 1, 0.03272066157339895: 1, 0.03271883973599758: 1, 0.03271652498275063: 1,  
0.03271253598462479: 1, 0.03271168376348728: 1, 0.03271089281058524: 1, 0.03271025695652768: 1,  
0.0327094902058776: 1, 0.03269965066879431: 1, 0.03269748638490498: 1, 0.03269484042257492: 1,  
0.03268625274074199: 1, 0.03268545877851011: 1, 0.032683962217729234: 1, 0.03268268544428174: 1, 0  
.032672886535633855: 1, 0.032672529160488815: 1, 0.03266810660165885: 1, 0.03266642645909031: 1, 0  
.03266494598983585: 1, 0.03266089468024712: 1, 0.032654809273403085: 1, 0.03265077099680374: 1,  
0.03265043423526222: 1, 0.03264946590251885: 1, 0.032648077559725194: 1, 0.032642134319279724: 1,  
0.03263793296023286: 1, 0.03263251094953218: 1, 0.03263227082960015: 1, 0.03262870292180933: 1,  
0.03262801930138462: 1, 0.032625417373581225: 1, 0.032624018271633595: 1, 0.03262249533558473: 1,  
0.03262182820837547: 1, 0.032618361797216396: 1, 0.03261524584977033: 1, 0.03261069369765582: 1, 0  
.03261037448794081: 1, 0.032602887057735064: 1, 0.03259943118525948: 1, 0.03258746517773287: 1,  
0.03258342243706864: 1, 0.032576657901157685: 1, 0.03257354800285094: 1, 0.0325684941314478: 1, 0  
.032566734647457386: 1, 0.0325592767066014: 1, 0.0325482798692197: 1, 0.032542840761557244: 1,  
0.03253892033066817: 1, 0.03253491363093364: 1, 0.0325320080623332: 1, 0.032530968046597414: 1, 0  
.032530186105508146: 1, 0.03252883610150214: 1, 0.032527876371315344: 1, 0.03251975202620516: 1, 0  
.032510476732103374: 1, 0.03250853609138132: 1, 0.032506651516378285: 1, 0.03250643598563434: 1, 0  
.032504889632590864: 1, 0.03249520150715399: 1, 0.032493206125242306: 1, 0.03249066855525597: 1, 0  
.03248883789771041: 1, 0.03248837996898332: 1, 0.03247921447782881: 1, 0.032474338301644486: 1,  
0.032472005538800065: 1, 0.03246998832630888: 1, 0.03246857282214412: 1, 0.03246731493417813: 1,  
0.03246555727313127: 1, 0.032460185701274326: 1, 0.03245274916147343: 1, 0.03245040825033188: 1, 0  
.03244668865972985: 1, 0.03243911788441595: 1, 0.03243807255015023: 1, 0.03243451632805647: 1,  
0.03243422685565241: 1, 0.032427208621339555: 1, 0.032425818354472835: 1, 0.032419883429047974: 1,  
0.03240884777043934: 1, 0.03240718508712884: 1, 0.03239741478711826: 1, 0.032396900993840655: 1,  
0.0323963205764414: 1, 0.03239581889744585: 1, 0.03239178962347314: 1, 0.03238911863133991: 1,  
0.03237861614674679: 1, 0.03237091960449916: 1, 0.032370251360563186: 1, 0.032370156182945226: 1,  
0.03236961603256063: 1, 0.032365967188594254: 1, 0.032364625244755724: 1, 0.032357918057973965: 1,  
0.0323574055179847: 1, 0.03234958010912704: 1, 0.03234622982406168: 1, 0.03234076084372754: 1,  
0.03234013353772493: 1, 0.03234008642166933: 1, 0.0323351221769557: 1, 0.03233321206414397: 1,  
0.03233100636300724: 1, 0.0323234879664306: 1, 0.03231235162620216: 1, 0.03231088364858252: 1,  
0.032310496390983046: 1, 0.03230560144140292: 1, 0.03230528893135916: 1, 0.03230295900624571: 1,  
0.03229701946021919: 1, 0.0322954722084539: 1, 0.03229396285598006: 1, 0.03228682669108544: 1,  
0.03227261418550478: 1, 0.0322666840098847: 1, 0.032266168401166306: 1, 0.03226228316065116: 1, 0  
.03226025242882934: 1, 0.032259330692898276: 1, 0.03225292993810699: 1, 0.03224673549810211: 1,

0.03223482732732757: 1, 0.03222996735671619: 1, 0.032214217953398586: 1, 0.03221074562852684: 1, 0  
.03220462137478641: 1, 0.03220327447796559: 1, 0.03220298221737974: 1, 0.03219695524862945: 1,  
0.032193645367958754: 1, 0.032192347919405166: 1, 0.032192122144106924: 1, 0.032187205613736725: 1  
, 0.0321828269039467: 1, 0.032177936177804164: 1, 0.03217733141763622: 1, 0.032166859421031674: 1,  
0.03216442031146069: 1, 0.03216262964960645: 1, 0.0321570244764181: 1, 0.03215496953279377: 1,  
0.03215267119004614: 1, 0.03214815461948784: 1, 0.03214556336945153: 1, 0.03214219957274916: 1,  
0.03213191933379417: 1, 0.032126465924540486: 1, 0.03212086282551441: 1, 0.03212059771100831: 1, 0  
.03212043435175774: 1, 0.032119493047182805: 1, 0.03211847267053357: 1, 0.03211636700945378: 1,  
0.03211612256040984: 1, 0.03211323456683479: 1, 0.03210138135138252: 1, 0.03209485070403079: 1,  
0.03209354910354844: 1, 0.032092224793802894: 1, 0.032090829974690815: 1, 0.03209031178415916: 1,  
0.03208952058865902: 1, 0.032084529910734065: 1, 0.03208216400126866: 1, 0.03208206172113034: 1, 0  
.03207305316632142: 1, 0.032071009080377855: 1, 0.032070195537850635: 1, 0.032069489748018265: 1,  
0.032064420749180964: 1, 0.03206061719900278: 1, 0.03205826852823809: 1, 0.03205692112023321: 1,  
0.03205674280213759: 1, 0.032056044048063725: 1, 0.03204674288154498: 1, 0.03204089916316115: 1, 0  
.03204002950104683: 1, 0.03203907979154372: 1, 0.03203435782745433: 1, 0.03203117441749514: 1,  
0.032026924023628736: 1, 0.03201903969034555: 1, 0.03201396250517115: 1, 0.03201124424810054: 1,  
0.03200896380965576: 1, 0.031999230072376345: 1, 0.03199299091183741: 1, 0.03198661830304441: 1, 0  
.03198440754193626: 1, 0.03198252266311503: 1, 0.03198050519812699: 1, 0.03197397614887555: 1,  
0.03197205143225562: 1, 0.0319603875106628: 1, 0.03195667215232734: 1, 0.031946376944130606: 1, 0  
.03194244013308453: 1, 0.03194154206539682: 1, 0.031940062916383336: 1, 0.03193297839508552: 1,  
0.03192458291873925: 1, 0.031918829805552745: 1, 0.031917745588216855: 1, 0.03191393624053286: 1,  
0.03190391686306736: 1, 0.031901658911853946: 1, 0.03189939484106326: 1, 0.031894965212595806: 1,  
0.0318928596873733: 1, 0.031889822212671934: 1, 0.031889738127520564: 1, 0.03188882438607907: 1, 0  
.031882455522811576: 1, 0.031880049454517806: 1, 0.03187754956528705: 1, 0.031876481131153114: 1,  
0.031873519232778556: 1, 0.03187100990158324: 1, 0.03187095833802421: 1, 0.03186436490335317: 1,  
0.031859705437962696: 1, 0.031857387207693925: 1, 0.031856228558792346: 1, 0.031856070773377015: 1  
, 0.03185431746971244: 1, 0.03184979625809076: 1, 0.03184780444784313: 1, 0.03184679386000449: 1,  
0.031844630347173455: 1, 0.03183934282767704: 1, 0.031836966177758365: 1, 0.031834930386995114: 1,  
0.03183311781172906: 1, 0.03181732644371998: 1, 0.03181663262900461: 1, 0.031812328554847245: 1, 0  
.031806493412911904: 1, 0.03180024714470901: 1, 0.03179952190456746: 1, 0.031797906896068026: 1, 0  
.03179644775565908: 1, 0.031787638466498395: 1, 0.03177352492607629: 1, 0.03177307632440357: 1,  
0.031765662272070436: 1, 0.03175856553741599: 1, 0.03175149419874488: 1, 0.0317471357755647: 1,  
0.03174166514351567: 1, 0.031740594987911624: 1, 0.031733663935506334: 1, 0.03173132770937284: 1,  
0.03172416596612067: 1, 0.03172240761337376: 1, 0.03171995051772094: 1, 0.03171959067795526: 1,  
0.03170250977419288: 1, 0.0316988651904937: 1, 0.031697650366589905: 1, 0.03169764116260424: 1, 0  
.031694804633341976: 1, 0.03169232754810849: 1, 0.031691369769716905: 1, 0.03167587130235826: 1,  
0.031666805138521645: 1, 0.03166473801404179: 1, 0.031662868770442124: 1, 0.03166255327424652: 1,  
0.03165922062323577: 1, 0.031657124432127856: 1, 0.03165537158373087: 1, 0.03165235086380747: 1, 0  
.03165082497525579: 1, 0.031649793853131915: 1, 0.03164519025602175: 1, 0.031644797161919425: 1, 0  
.03163468367717324: 1, 0.03162124310906328: 1, 0.03161977845561684: 1, 0.03161876297089776: 1,  
0.031612068391883845: 1, 0.03161139406060962: 1, 0.031610886413962716: 1, 0.031590655897290015: 1,  
0.03159062072513189: 1, 0.03158945668651112: 1, 0.031585297020608985: 1, 0.03158416638228963: 1, 0  
.03158369025053355: 1, 0.03157698104263622: 1, 0.03157625668947108: 1, 0.03157204708856803: 1,  
0.03156668181695258: 1, 0.03156573697817387: 1, 0.03156413055520729: 1, 0.03155540534252081: 1,  
0.03155039843191647: 1, 0.03155010999857351: 1, 0.03154970062281899: 1, 0.03154740845251253: 1,  
0.03154495855254559: 1, 0.031539598535412314: 1, 0.03153257372458012: 1, 0.03153175014781553: 1, 0  
.03151614367392129: 1, 0.03151319827211246: 1, 0.03151171302301203: 1, 0.03150916624389134: 1,  
0.031506912585984675: 1, 0.031503885192639046: 1, 0.031502096936707184: 1, 0.03148844919108535: 1,  
0.03148843800610184: 1, 0.031483545353870074: 1, 0.03148076173016179: 1, 0.03147815943351465: 1, 0  
.0314663739084535: 1, 0.031460681709759256: 1, 0.03145689601025592: 1, 0.03145688717520066: 1,  
0.031453546530698887: 1, 0.03144511344609684: 1, 0.031443882738835194: 1, 0.03144320066875047: 1,  
0.03144302769248675: 1, 0.031442470724247794: 1, 0.03143439580295959: 1, 0.031433602144223: 1, 0  
.031422756443171176: 1, 0.031418742088234544: 1, 0.03141868524424793: 1, 0.03141278976833722: 1, 0  
.03140769595894029: 1, 0.031407517814974424: 1, 0.031403511793107984: 1, 0.031400284169698145: 1,  
0.031399512064397846: 1, 0.031393350051468275: 1, 0.03139301029473899: 1, 0.031392100594199945: 1,  
0.03139003170094716: 1, 0.03138966648710762: 1, 0.031377020385905105: 1, 0.03137665195393269: 1, 0  
.03137436895205892: 1, 0.0313718300070132: 1, 0.03137039923107354: 1, 0.03137028198576803: 1,  
0.03136974733052648: 1, 0.03136755024991455: 1, 0.03136554397643511: 1, 0.031364865926683465: 1, 0  
.031362532795879874: 1, 0.031360348667475904: 1, 0.03135666356855769: 1, 0.03135619432880282: 1, 0  
.031352812848043254: 1, 0.03135057281728854: 1, 0.031345375900337376: 1, 0.03134291351297179: 1, 0  
.03134251617120331: 1, 0.03133636250918017: 1, 0.03132105862366651: 1, 0.031316695648682696: 1,  
0.031301243179655866: 1, 0.0312994469206566: 1, 0.03129589054835344: 1, 0.03128486270682157: 1,  
0.031283857300500505: 1, 0.03127973618940194: 1, 0.031278892024849736: 1, 0.0312679286566: 1,  
0.031264789917360855: 1, 0.031261166585123845: 1, 0.031261009812526046: 1, 0.0312601864808078: 1,  
0.03125986085032911: 1, 0.03125927455541011: 1, 0.03125446797887019: 1, 0.031250275553154044: 1, 0  
.03124341013459107: 1, 0.03124241205551333: 1, 0.031237262439359058: 1, 0.03123593267243608: 1,  
0.031233498454868894: 1, 0.031232437963041457: 1, 0.031214962961872365: 1, 0.031214675014361547: 1  
, 0.031201463023172442: 1, 0.03119961878749486: 1, 0.031195291843725576: 1, 0.031193533453380037:  
1, 0.031193259972999862: 1, 0.031192906690208945: 1, 0.031188181610993432: 1,  
0.031187132139377082: 1, 0.03118205287340075: 1, 0.03118075732163931: 1, 0.03117637870948439: 1,  
0.03117573496718733: 1, 0.03117290061123814: 1, 0.031169607781099028: 1, 0.031169242785146642: 1,  
0.031156739037510935: 1, 0.031155371921396995: 1, 0.0311504347159832: 1, 0.03114848877680467: 1, 0  
.0311425555684033: 1, 0.03114196301593888: 1, 0.031137308714561034: 1, 0.031133805734020036: 1, 0  
.03113224204480154: 1, 0.031131184151851253: 1, 0.0311307815133056113: 1, 0.0311281209640337: 1, 0  
.03112140640194047: 1, 0.031118534429203055: 1, 0.03111781347780552: 1, 0.031117369766003124: 1, 0  
.03111643438677851: 1, 0.0311062779123317: 1, 0.03110396357817691: 1, 0.031103014841864323: 1,  
0.031094946888052172: 1, 0.031094294125119475: 1, 0.031086968918282113: 1, 0.031084982638324814: 1

, 0.031083950499556437: 1, 0.031082112420851887: 1, 0.031078642970843298: 1, 0.031073800910499393: 1, 0.031072893096843947: 1, 0.031065513647352033: 1, 0.031065140567434507: 1, 0.031062584867480376: 1, 0.031061814090539135: 1, 0.03105868200605686: 1, 0.03105627569325118: 1, 0.031051585760142972: 1, 0.031048312376008295: 1, 0.031046030190819904: 1, 0.031043335053671482: 1, 0.031042894604552788: 1, 0.031038010864460265: 1, 0.03103092028081607: 1, 0.03102865302208976: 1, 0.031028399386546154: 1, 0.031025512339814754: 1, 0.031022898318755973: 1, 0.031022890988366893: 1, 0.031009155428811504: 1, 0.031005212280203052: 1, 0.031004737562118585: 1, 0.031004381537417563: 1, 0.031002296823311702: 1, 0.031001476099921876: 1, 0.03099409271295904: 1, 0.03098883873602948: 1, 0.03098084322894605: 1, 0.0309804004443703: 1, 0.03097667459138176: 1, 0.03097295668495521: 1, 0.03097118885315058: 1, 0.03097049047995348: 1, 0.030965859044034698: 1, 0.03096297719172262: 1, 0.030957912358674573: 1, 0.03095122876767526: 1, 0.030944599701762956: 1, 0.030940684397642308: 1, 0.030937627149521557: 1, 0.03093505099120397: 1, 0.030931836450126392: 1, 0.030928703925695637: 1, 0.030924727347942025: 1, 0.030921734040588116: 1, 0.030921494089585243: 1, 0.030915262514338078: 1, 0.03091372775438201: 1, 0.030912559603549147: 1, 0.0309073706978197: 1, 0.030904967063282447: 1, 0.030904500242465303: 1, 0.03090337353135933: 1, 0.030899698102683042: 1, 0.03089921174743966: 1, 0.0308984211324222: 1, 0.030898342922705754: 1, 0.03088611620199577: 1, 0.03088289834448612: 1, 0.030875406780789746: 1, 0.030875198386299416: 1, 0.030871687395238677: 1, 0.030869631941398613: 1, 0.030868542194440605: 1, 0.0308650108217935: 1, 0.03085761326297503: 1, 0.030853615961844702: 1, 0.03085219924244063: 1, 0.030851224856407462: 1, 0.030849197066611683: 1, 0.030844575315101583: 1, 0.030844284576728005: 1, 0.030841420772377948: 1, 0.03083632368499431: 1, 0.030829720889415647: 1, 0.030829647375439067: 1, 0.030828977103422986: 1, 0.0308241943825614: 1, 0.03082370491157679: 1, 0.030819644743211482: 1, 0.03081678866995529: 1, 0.030814119512569148: 1, 0.030812014207209137: 1, 0.03080825046652662: 1, 0.03080551409038073: 1, 0.030804106003571495: 1, 0.030800937863285277: 1, 0.0307990937526402: 1, 0.03079534063729445: 1, 0.030794933443960726: 1, 0.030792624061600837: 1, 0.030791623182746045: 1, 0.0307855304844412: 1, 0.030785575178581544: 1, 0.030784532276498765: 1, 0.030778097821386612: 1, 0.03076887487080306: 1, 0.03076657772143103: 1, 0.0307521299850179: 1, 0.030751777388802626: 1, 0.030751765778403797: 1, 0.03074920788234028: 1, 0.030748610733553255: 1, 0.03074827078689361: 1, 0.030747595255709533: 1, 0.0307442772982348: 1, 0.03074372166425458: 1, 0.03074358095739216: 1, 0.030737955801915802: 1, 0.03073757385521357: 1, 0.030736876329590226: 1, 0.030733301494064162: 1, 0.030730300053195523: 1, 0.03072713282887944: 1, 0.03072468819147997: 1, 0.03072468433286273: 1, 0.030705083881995495: 1, 0.030704842199139794: 1, 0.030704663062117638: 1, 0.030701849454223287: 1, 0.030690763490311582: 1, 0.030673635158396183: 1, 0.030672313379584742: 1, 0.030672015844995217: 1, 0.030668157574404244: 1, 0.0306673419311596: 1, 0.03065152251367046: 1, 0.030645081059984872: 1, 0.0306439373509611: 1, 0.030640282996753615: 1, 0.030627578395360185: 1, 0.030624063832787318: 1, 0.0306083896243064: 1, 0.030608279024115108: 1, 0.030608111396689352: 1, 0.030607917730846333: 1, 0.03060687958165044: 1, 0.03060321660785925: 1, 0.030602078382270626: 1, 0.030596472131005824: 1, 0.030592780384857746: 1, 0.03059225380229168: 1, 0.030591198246757156: 1, 0.030590488075297968: 1, 0.03058734789468242: 1, 0.030586393095768914: 1, 0.030583516742529942: 1, 0.030580728081969825: 1, 0.030575270162065557: 1, 0.030573521260316944: 1, 0.03057175196241483: 1, 0.030569677971516468: 1, 0.03055807589299135: 1, 0.030557637057958276: 1, 0.030552454570551172: 1, 0.030551097853264382: 1, 0.030550368097502077: 1, 0.03054555210783908: 1, 0.03054335811892342: 1, 0.03054028404788748: 1, 0.030535883787998444: 1, 0.030532791332286036: 1, 0.030531753387344884: 1, 0.030531750045335558: 1, 0.03052637593551734: 1, 0.03050080830028431: 1, 0.030499991815841742: 1, 0.030499549402504253: 1, 0.030498037008493503: 1, 0.03049068585251499: 1, 0.030485304614097812: 1, 0.030481448205575766: 1, 0.030473883122891947: 1, 0.03047289522006175: 1, 0.03047179777174928: 1, 0.030468399544391185: 1, 0.03046728827953716: 1, 0.03046332212385716: 1, 0.03046041870908903: 1, 0.030459685743832787: 1, 0.030448601229336295: 1, 0.03044613791067886: 1, 0.030439714541713396: 1, 0.03043879536232129: 1, 0.030436544823948874: 1, 0.03043007159255729: 1, 0.030414675765308572: 1, 0.030413862050001357: 1, 0.030408599145422245: 1, 0.030405195710109984: 1, 0.030400208360523318: 1, 0.03039745571567109: 1, 0.03039694584490546: 1, 0.03039496862814898: 1, 0.030394260016967482: 1, 0.030385890895487593: 1, 0.030385045606186028: 1, 0.030378573832287172: 1, 0.0303705785376086: 1, 0.030368421244228328: 1, 0.03036622286097925: 1, 0.030364616251850073: 1, 0.03036056703569558: 1, 0.030356707151490716: 1, 0.030349403243714632: 1, 0.030346802528233935: 1, 0.030341690751906205: 1, 0.03033834010964747: 1, 0.030326991332306763: 1, 0.03032626922495555: 1, 0.030325054288213436: 1, 0.03032370440409241: 1, 0.030317343149990607: 1, 0.030308912658595685: 1, 0.030302195898103765: 1, 0.030300027682720363: 1, 0.030295236129985803: 1, 0.030291152233263834: 1, 0.030284351604083083: 1, 0.030283755779276535: 1, 0.03027656383070112: 1, 0.030272369605725657: 1, 0.030270382485408517: 1, 0.030269937797354263: 1, 0.030268180119355437: 1, 0.03026499967291406: 1, 0.030254971154811437: 1, 0.030233934268436503: 1, 0.030233568673523645: 1, 0.03023262193634717: 1, 0.03023217175753358: 1, 0.03023010363785275: 1, 0.030224954671901817: 1, 0.030222874856167974: 1, 0.03021969995249156: 1, 0.030216888271469636: 1, 0.030212276029978738: 1, 0.0302099315445206: 1, 0.030209551870662064: 1, 0.030203973069703148: 1, 0.0302020096197926: 1, 0.030200338970000313: 1, 0.030197814729884656: 1, 0.030191327983317646: 1, 0.030186012247573564: 1, 0.030183395859870926: 1, 0.03018311950777305: 1, 0.030182658490261832: 1, 0.030182032078568774: 1, 0.03017947138465312: 1, 0.03017840672002932: 1, 0.03017534415496878: 1, 0.030174522421012807: 1, 0.030173089423298955: 1, 0.030171006678879037: 1, 0.0301700497225109: 1, 0.030169292540003813: 1, 0.03016812141396096: 1, 0.03016298709141302: 1, 0.030160836609217912: 1, 0.030160811433934568: 1, 0.030158932899314577: 1, 0.03015616853681375: 1, 0.030154685780666903: 1, 0.030153356575380943: 1, 0.03015018177545553: 1, 0.030138354359096543: 1, 0.030136240575242893: 1, 0.030125881302626414: 1, 0.030122665561008115: 1, 0.030115368672499292: 1, 0.030110624941756644: 1, 0.030107808225709107: 1, 0.030106367439611537: 1, 0.030105921852451617: 1, 0.030105600115064118: 1, 0.030105416794335867: 1, 0.030105030300344546: 1, 0.030098940524042047: 1, 0.030095635958450648: 1, 0.030094695048167287: 1, 0.0300946012512234: 1, 0.030094515920927604: 1, 0.0300898469301539: 1, 0.03008592433406188: 1, 0.030084652303838944: 1, 0.03007155810784874: 1, 0.030068848553589348: 1, 0.030058621887704688: 1, 0.030045959537935298: 1, 0.030043500230920932: 1, 0.030041197425722154: 1, 0.030040337361291154: 1, 0.030036773021289875: 1, 0.030033560162585942: 1, 0.0300326491957072: 1, 0.030027604990014015: 1, 0.03001845369190946: 1,

0.030015825840845556: 1, 0.030014469412094392: 1, 0.030012355123183346: 1, 0.03001157202326816: 1, 0.030008606161122473: 1, 0.030005355279476773: 1, 0.030003931640966597: 1, 0.029997973481276318: 1, 0.02998892996479424: 1, 0.02998548039536945: 1, 0.029982224817120415: 1, 0.029971711436988773: 1, 0.029968714740073822: 1, 0.029964102187167236: 1, 0.02995964424343915: 1, 0.029958946065398433: 1, 0.029958705260320788: 1, 0.02995617410184222: 1, 0.029953451877129778: 1, 0.02995111836928381: 1, 0.029950438615042194: 1, 0.029950099145055833: 1, 0.029947005057548215: 1, 0.029943206380532054: 1, 0.02994191460775966: 1, 0.029933960829746607: 1, 0.029923882008240338: 1, 0.029922223344225087: 1, 0.029917301179722203: 1, 0.029916219876075064: 1, 0.029912058272648822: 1, 0.029911932121418093: 1, 0.02990633823176675: 1, 0.02990361609847199: 1, 0.029898035420897834: 1, 0.0298918960889309: 1, 0.029887302044134215: 1, 0.02988358338181034: 1, 0.029880069995871596: 1, 0.029871770974310978: 1, 0.02987128671337411: 1, 0.02986662072389351: 1, 0.029860247836935836: 1, 0.02984937532545394: 1, 0.029847841340018284: 1, 0.02984238294914081: 1, 0.029839218432948386: 1, 0.02983431411200752: 1, 0.029823211318644433: 1, 0.029823100288398116: 1, 0.029821353237487618: 1, 0.029818385817368682: 1, 0.02981655886323156: 1, 0.029805410843080058: 1, 0.029803483343302545: 1, 0.029803230825489316: 1, 0.029799315459415124: 1, 0.02979806735950893: 1, 0.02978313477074089: 1, 0.029781408752516097: 1, 0.02977773570229826: 1, 0.02976857078605607: 1, 0.029764399293234357: 1, 0.029763570070259354: 1, 0.029756090372442305: 1, 0.02975215943704126: 1, 0.029749568750705904: 1, 0.029748425556595: 1, 0.029738948029692864: 1, 0.029734737471988733: 1, 0.029732780420976976: 1, 0.029732017962918036: 1, 0.02972420256925694: 1, 0.02971824663397677: 1, 0.02971783251057798: 1, 0.02971630422481733: 1, 0.029704661511341275: 1, 0.029698122175883395: 1, 0.029693649020132266: 1, 0.02969081126365527: 1, 0.029688385541140817: 1, 0.029686711992393467: 1, 0.029683545913520924: 1, 0.029683119928525938: 1, 0.0296830338535444: 1, 0.029673006787722576: 1, 0.02967204930869581: 1, 0.029668241225493025: 1, 0.02966362755353228: 1, 0.02965779155000964: 1, 0.029655808550670182: 1, 0.029655003207623005: 1, 0.029653141196930848: 1, 0.02964928404037428: 1, 0.029647744981641265: 1, 0.029644110536777506: 1, 0.02963857740156097: 1, 0.029636936945146353: 1, 0.02963618455084177: 1, 0.02963295257625219: 1, 0.029632824249031953: 1, 0.029630390992798482: 1, 0.029630327503035424: 1, 0.029629451908112447: 1, 0.029622190782354733: 1, 0.02962090777379488: 1, 0.029610756955859886: 1, 0.02960849844230329: 1, 0.02960610136209385: 1, 0.02960378132934315: 1, 0.02959915640624089: 1, 0.02959892072569216: 1, 0.029597325116099908: 1, 0.02959621751760661: 1, 0.02958991817023917: 1, 0.02958242450150831: 1, 0.02958228536964042: 1, 0.02957914354169231: 1, 0.029577534195979464: 1, 0.029577220716642094: 1, 0.02956697019423083: 1, 0.029565118781128948: 1, 0.02955872222717045: 1, 0.029553193706038636: 1, 0.029552794845416386: 1, 0.02955228736924054: 1, 0.029547483635778766: 1, 0.029545969841577226: 1, 0.029545592248289617: 1, 0.0295395999951872: 1, 0.029536974362717027: 1, 0.029529743410457783: 1, 0.029528284209386045: 1, 0.029525424317386813: 1, 0.02952328749202597: 1, 0.029519973258924286: 1, 0.0295155505321652: 1, 0.029512425945677566: 1, 0.029497859799074027: 1, 0.029496640860660908: 1, 0.029492946226770917: 1, 0.029487630954679246: 1, 0.02947968353521664: 1, 0.029474979306358576: 1, 0.029473115857510876: 1, 0.029467986062940422: 1, 0.029467634306779764: 1, 0.029463419801867376: 1, 0.029460904557767432: 1, 0.029458164485750254: 1, 0.02944748098861738: 1, 0.02944628659148086: 1, 0.029435025835043885: 1, 0.029431989422550348: 1, 0.029430628790673093: 1, 0.02942425069972017: 1, 0.02942193580212186: 1, 0.029418577704340147: 1, 0.02941095006487554: 1, 0.02940987791166894: 1, 0.029408376245034083: 1, 0.02940818622510909: 1, 0.029407820699691313: 1, 0.029404636806414232: 1, 0.029402001047694512: 1, 0.0294006456716918: 1, 0.02939935613896906: 1, 0.029398023193155026: 1, 0.02939764005172156: 1, 0.02939749455378596: 1, 0.02938763182053587: 1, 0.029387005810842918: 1, 0.02938641789368757: 1, 0.02936961414863088: 1, 0.029369434593482888: 1, 0.029367753634787462: 1, 0.029365285380044497: 1, 0.029361558701336523: 1, 0.029356676740825524: 1, 0.029356206198768563: 1, 0.029349484175671216: 1, 0.029349079485805774: 1, 0.02934237883714074: 1, 0.029341447443096497: 1, 0.029338332735759632: 1, 0.029335358689922167: 1, 0.02933713658488178: 1, 0.029330482658785385: 1, 0.029329147590914373: 1, 0.02932816798543021: 1, 0.029310996920441895: 1, 0.029310667465331383: 1, 0.029306092270406654: 1, 0.029304578581764038: 1, 0.02930362505848845: 1, 0.029293501934054625: 1, 0.02929195196198147: 1, 0.02929193899715975: 1, 0.029290546990981114: 1, 0.02928574184023328: 1, 0.02928535407374415: 1, 0.029283865366779724: 1, 0.029277506312622527: 1, 0.029276163154194377: 1, 0.029275124557312775: 1, 0.029274916543929146: 1, 0.029274358557793617: 1, 0.029271615537000965: 1, 0.029261723944838235: 1, 0.029261012722098564: 1, 0.02925943479686533: 1, 0.029247062796387294: 1, 0.029239867653478885: 1, 0.02923789387020514: 1, 0.02923554026965735: 1, 0.029234617567772958: 1, 0.029227538474582548: 1, 0.029225204048836974: 1, 0.029224386879538385: 1, 0.029207050383141996: 1, 0.02920458981774151: 1, 0.029203669953975935: 1, 0.029200353311746342: 1, 0.02919973735654813: 1, 0.029188932862445262: 1, 0.029184014122999227: 1, 0.02917837768511051: 1, 0.029174983409830352: 1, 0.029165336447720704: 1, 0.029159244544021544: 1, 0.029143597812761088: 1, 0.029142693981978718: 1, 0.029137885632957664: 1, 0.02913511978283434: 1, 0.029129325295057535: 1, 0.029126676065957986: 1, 0.029126511912392027: 1, 0.02912641792098076: 1, 0.029125854736612493: 1, 0.029124357358216637: 1, 0.02912196226882001: 1, 0.02912163480130673: 1, 0.02911933366785901: 1, 0.02911823919750059: 1, 0.029117200464367776: 1, 0.029115545667234947: 1, 0.02910510230448271: 1, 0.02910423037603979: 1, 0.029097318246810687: 1, 0.029095950524861008: 1, 0.029092400044551256: 1, 0.029091822711634324: 1, 0.029090443049215722: 1, 0.02909020081454051: 1, 0.02908963911519209: 1, 0.029087480379164664: 1, 0.029087433254421233: 1, 0.02908439888379233: 1, 0.029082953362098093: 1, 0.029077639992790383: 1, 0.029071930006597253: 1, 0.02907037328825165: 1, 0.029069338607694638: 1, 0.02906746855728789: 1, 0.029061781620598637: 1, 0.029060855231609527: 1, 0.029060100425833863: 1, 0.02905765038760755: 1, 0.029055552136305077: 1, 0.029051620760168016: 1, 0.029049215618997558: 1, 0.02904213686593861: 1, 0.02904143292995198: 1, 0.02904120915610811: 1, 0.02903895716844693: 1, 0.029035647878944262: 1, 0.029028259696185964: 1, 0.02902480474668837: 1, 0.02901510459615281: 1, 0.02901005608020945: 1, 0.029008223547572574: 1, 0.029007214784297356: 1, 0.0289957623200819: 1, 0.02899501337467963: 1, 0.028992911337503976: 1, 0.028992068256709247: 1, 0.028987190088544716: 1, 0.028981176582449683: 1, 0.028979277887934588: 1, 0.028967371073371113: 1, 0.028964248482298033: 1, 0.028961558706142827: 1, 0.028960486655782103: 1, 0.028955481783482118: 1, 0.028953516275131028: 1, 0.02895187248694632: 1, 0.028950414621619663: 1, 0.02894639906727016: 1, 0.028944886107783792: 1, 0.028933806221926976: 1, 0.028921903630765827: 1, 0.02891687300753036: 1, 0.02891105342568049: 1, 0.028907193383903507: 1, 0.028901773723755176: 1, 0.02890076772796955:

1, 0.028899082561337483: 1, 0.02889785165846432: 1, 0.028892053722043166: 1, 0.028883868690145274: 1, 0.028875850390710528: 1, 0.02887154016482321: 1, 0.028864713694613894: 1, 0.02886017875092603: 1, 0.028856131897097542: 1, 0.02884815472330135: 1, 0.028847626963498706: 1, 0.028846398898779553: 1, 0.028844136989800997: 1, 0.028843738692981624: 1, 0.028843681215573534: 1, 0.028841741696139303: 1, 0.028834168732745143: 1, 0.02883311362948018: 1, 0.028829717457767516: 1, 0.028827780789042835: 1, 0.02881702932825117: 1, 0.028811463567162465: 1, 0.02878516372717846: 1, 0.02878417527497148: 1, 0.028776287027839773: 1, 0.02877118249894804: 1, 0.028771074841635696: 1, 0.02876776453133222: 1, 0.02876615872366547: 1, 0.028763370727313404: 1, 0.028762823782823924: 1, 0.028761616242800395: 1, 0.0287585176622001: 1, 0.028756115576182403: 1, 0.02874702486172314: 1, 0.028744828388706962: 1, 0.02874162959292016: 1, 0.028738628521622865: 1, 0.028735850030626564: 1, 0.028725785468030295: 1, 0.02871659712325695: 1, 0.028716255193871932: 1, 0.02871445122911464: 1, 0.028713300655284338: 1, 0.028709864792077336: 1, 0.028708959482324194: 1, 0.02870718524127419: 1, 0.028701425659159268: 1, 0.028692045970702837: 1, 0.02869166151535378: 1, 0.02869153177838715: 1, 0.02868923316957339: 1, 0.028688186830455667: 1, 0.02868810801351571: 1, 0.02868093238063721: 1, 0.02866838411629358: 1, 0.028667323486697295: 1, 0.028666579613482047: 1, 0.028662725940254364: 1, 0.028653375701725915: 1, 0.028649085945775293: 1, 0.02864134740573538: 1, 0.028637399185497757: 1, 0.028633163310890834: 1, 0.02862924820858366: 1, 0.028623509840175913: 1, 0.028621972336156924: 1, 0.02861923915496626: 1, 0.02861194515170177: 1, 0.028604805324581796: 1, 0.028604684112049323: 1, 0.02860465783750734: 1, 0.02860452924477621: 1, 0.028604366821699603: 1, 0.02860387112225822: 1, 0.028602172193186073: 1, 0.028596264244871224: 1, 0.02859187428563586: 1, 0.02859166674140442: 1, 0.028587941048859006: 1, 0.02858144229562445: 1, 0.02858008157668407: 1, 0.028578979605733693: 1, 0.028578631658913944: 1, 0.028577523400533197: 1, 0.02857506825386537: 1, 0.028571926618486395: 1, 0.028566586956032605: 1, 0.02856347519164635: 1, 0.02855830042714465: 1, 0.028551411582313856: 1, 0.02855053554568334: 1, 0.02854905429297755: 1, 0.02854712698943846: 1, 0.02854703188532659: 1, 0.028541473981588236: 1, 0.028539005982976352: 1, 0.028538764083458866: 1, 0.028532720684127204: 1, 0.02853178327732043: 1, 0.02853160592455456: 1, 0.028531496767969806: 1, 0.028531460746155847: 1, 0.028530948913027335: 1, 0.02853048916627237: 1, 0.02852744708072788: 1, 0.028514094853118756: 1, 0.028512672830124812: 1, 0.02850474912074903: 1, 0.028495312594539936: 1, 0.02849505823066982: 1, 0.028487943730485115: 1, 0.028487747383505062: 1, 0.02848560070430242: 1, 0.02847944548237738: 1, 0.028477943884188943: 1, 0.028476331688549055: 1, 0.028473232011081633: 1, 0.0284714591812716: 1, 0.02845954996564554: 1, 0.028441171204967693: 1, 0.028440028188207046: 1, 0.028439352471869607: 1, 0.028431137442089548: 1, 0.02842371159587692: 1, 0.02842240519358368: 1, 0.028421883540766617: 1, 0.02841483675325659: 1, 0.028412619660847373: 1, 0.028412519216295493: 1, 0.028411290756403286: 1, 0.028410250139023967: 1, 0.028401488699767496: 1, 0.02840111159480868: 1, 0.028398857750593635: 1, 0.02839627088938567: 1, 0.02839512466915823: 1, 0.02839065743286011: 1, 0.0283864182802804: 1, 0.028386304023420805: 1, 0.02838604506261711: 1, 0.02837794980661444: 1, 0.028377607228523376: 1, 0.0283749357089544: 1, 0.028370937944985887: 1, 0.02836381918122549: 1, 0.028356398238082635: 1, 0.028344742815687995: 1, 0.02834151567197209: 1, 0.02833528668435504: 1, 0.028328920814261728: 1, 0.02832596583581745: 1, 0.028325655696529086: 1, 0.028319188982396323: 1, 0.028318980023894196: 1, 0.02831875867608214: 1, 0.028308865606453033: 1, 0.02830418647783125: 1, 0.02830260872778412: 1, 0.028298085839755797: 1, 0.02829745977197024: 1, 0.028296082283573252: 1, 0.02829509689437797: 1, 0.028294550047207368: 1, 0.02829076751480141: 1, 0.028289783408863563: 1, 0.02828959185632688: 1, 0.02828744752719855: 1, 0.028282386475677452: 1, 0.028277226330431865: 1, 0.028276385461911652: 1, 0.028275470967336704: 1, 0.028260028471848136: 1, 0.028258065526571396: 1, 0.02825501285190909: 1, 0.02824876862073552: 1, 0.028248456644095747: 1, 0.02824183271573193: 1, 0.028238545067683394: 1, 0.02823500991609239: 1, 0.02823170640172602: 1, 0.0282281139672544: 1, 0.02822060175837074: 1, 0.028212205446408768: 1, 0.028212026348515537: 1, 0.028208587130981448: 1, 0.028191933114004013: 1, 0.02818867275152837: 1, 0.028183354670330802: 1, 0.02817434523566772: 1, 0.02817356779829966: 1, 0.028157920341961195: 1, 0.02815435341565042: 1, 0.02815263143452035: 1, 0.02815132571877466: 1, 0.02814580781926683: 1, 0.028144866049754583: 1, 0.028143575941297145: 1, 0.02814082497036781: 1, 0.028129383626037084: 1, 0.028129312589589252: 1, 0.028127045325766483: 1, 0.028122916156278925: 1, 0.028114095633317092: 1, 0.028113413689621784: 1, 0.028112814493608466: 1, 0.028111967725145313: 1, 0.028109998731439496: 1, 0.028108375417451: 1, 0.028106328887698297: 1, 0.028100209207289607: 1, 0.028097989195038406: 1, 0.028095757184538495: 1, 0.02809449057092447: 1, 0.02808102766112054: 1, 0.02807767618712944: 1, 0.028072068393211577: 1, 0.028070309862640995: 1, 0.028069201968556806: 1, 0.02806908818282158: 1, 0.02806816922217463: 1, 0.02806758961128862: 1, 0.028066729658354876: 1, 0.028062354224150182: 1, 0.02806205579823304: 1, 0.02806072033695394: 1, 0.028052541941316806: 1, 0.02805217505622388: 1, 0.028049158751534933: 1, 0.028041121460263902: 1, 0.028033509641234404: 1, 0.02803325994988309: 1, 0.02803074303945805: 1, 0.02802969996718714: 1, 0.028028855761176655: 1, 0.028019877931660487: 1, 0.028012570186422198: 1, 0.028011071506079278: 1, 0.028006181012020074: 1, 0.028002691592607303: 1, 0.027993095561319584: 1, 0.027990993031037106: 1, 0.027990320677596187: 1, 0.02798954542880195: 1, 0.027988425076609712: 1, 0.027975412249305782: 1, 0.02796181308444842: 1, 0.02796097212363948: 1, 0.027954388746659092: 1, 0.027953430933470462: 1, 0.027951770718247407: 1, 0.027944489806690547: 1, 0.02792518499618208: 1, 0.027921486806174532: 1, 0.027911503443144275: 1, 0.02790949929962572: 1, 0.0279030197100176: 1, 0.027901702567412253: 1, 0.02789771634620768: 1, 0.027896595421683264: 1, 0.027882160055033352: 1, 0.027880165878768588: 1, 0.027876941995070258: 1, 0.027876221846228545: 1, 0.027872773399853643: 1, 0.027869726882368287: 1, 0.027869671381168824: 1, 0.027865359426666476: 1, 0.027858779015249822: 1, 0.02785600637004369: 1, 0.02784653600240264: 1, 0.02784221999686835: 1, 0.027838429681662027: 1, 0.027837229339842638: 1, 0.02783652634788135: 1, 0.027834324826044702: 1, 0.027833462128892955: 1, 0.02782853511662292: 1, 0.027825700298669667: 1, 0.027824128060777813: 1, 0.0278113625632349: 1, 0.027808967038874137: 1, 0.02780849640170522: 1, 0.027787941606137005: 1, 0.027782747936341223: 1, 0.027775958961011177: 1, 0.02777594852958005: 1, 0.027773404925063867: 1, 0.02776318836207903: 1, 0.027757681552541782: 1, 0.02775650888550242: 1, 0.02775456934146479: 1, 0.027751554843940686: 1, 0.027749562025297526: 1, 0.02774755268042024: 1, 0.027744996471043146: 1, 0.0277400883483159: 1, 0.027731102201298957: 1, 0.027731002134614255: 1, 0.027721865389984925: 1, 0.027713322440471234: 1, 0.02770117258403573: 1, 0.0276949986913767: 1, 0.027694066740402756: 1, 0.027687006612964263: 1, 0.02768006181012020074: 1

.027678161848594687: 1, 0.027674834724433457: 1, 0.02766893685801681: 1, 0.02766722787227328: 1, 0  
.027663018789955376: 1, 0.027653274733076404: 1, 0.027651970020188286: 1, 0.027647234923190895: 1,  
0.027645827379018155: 1, 0.027639975943361074: 1, 0.027623771999683223: 1, 0.02762327702024072: 1  
, 0.027616709067517235: 1, 0.027611282359636405: 1, 0.02761070640351938: 1, 0.02760019458180301: 1  
, 0.0275990565585329: 1, 0.027586600378627743: 1, 0.027585669599161897: 1, 0.027584093508535697: 1  
, 0.027578936760504904: 1, 0.02757799597496028: 1, 0.0275730404849591: 1, 0.02755913504734646: 1,  
0.027555586679077933: 1, 0.027549968706625717: 1, 0.027545285096568606: 1, 0.027542535038030943: 1  
, 0.02753656552164881: 1, 0.0275250844213408: 1, 0.027522531037378704: 1, 0.027521357169940423: 1,  
0.027520670729282097: 1, 0.02751644397878412: 1, 0.02751316060999026: 1, 0.027511288132169485: 1,  
0.027503721056238037: 1, 0.02749946634513615: 1, 0.027498805945556364: 1, 0.02749726838199671: 1,  
0.027495063866659532: 1, 0.027494531631424436: 1, 0.02748064506448332: 1, 0.027480343278622917: 1,  
0.027479593494486053: 1, 0.027474818551763678: 1, 0.027471221314796863: 1, 0.027468715308519624: 1  
, 0.027467917322606852: 1, 0.02746544201637955: 1, 0.027456337986001896: 1, 0.02745326359048758: 1  
, 0.027451256101039153: 1, 0.02744967664137819: 1, 0.027449118738444883: 1, 0.027447024505686955:  
1, 0.02744272930202416: 1, 0.027439379773386775: 1, 0.02743310540525979: 1, 0.027429327248882796:  
1, 0.02742868044793686: 1, 0.027423584107508326: 1, 0.027418523858922232: 1, 0.027416655647795794:  
1, 0.027411591615931312: 1, 0.027407704934893248: 1, 0.027407322293579083: 1, 0.02740410438773557:  
1, 0.027403427891603726: 1, 0.027401567126232228: 1, 0.027400935291589906: 1,  
0.027396608666887146: 1, 0.027395229686572743: 1, 0.027386725113575247: 1, 0.02738626070114223: 1,  
0.027385842606111866: 1, 0.027380228215509735: 1, 0.027379279944985443: 1, 0.027375292756678226: 1  
, 0.027373286770786164: 1, 0.02737322980722192: 1, 0.0273709291110666: 1, 0.02735980898720689: 1,  
0.027359496304353303: 1, 0.02735926610208775: 1, 0.027357577622463974: 1, 0.027349180127194887: 1,  
0.02734519210376396: 1, 0.027341181575673956: 1, 0.027339534841126046: 1, 0.02733013505621786: 1,  
0.027321001977211143: 1, 0.02731258470465593: 1, 0.02730837197825123: 1, 0.027307146602969064: 1,  
0.02728647719919262: 1, 0.027280673872074494: 1, 0.027280615321637502: 1, 0.027276747489707726: 1,  
0.027276429713350783: 1, 0.027272838395051145: 1, 0.02727027101640877: 1, 0.027268116671054964: 1,  
0.027267028286928216: 1, 0.027264857380663532: 1, 0.027263868515934955: 1, 0.027261243863386818: 1  
, 0.02726073930954133: 1, 0.027258606935826213: 1, 0.027257765959887582: 1, 0.02725757845274389: 1  
, 0.027257322199558287: 1, 0.027254891904622255: 1, 0.027251185887842103: 1, 0.027250230555919776:  
1, 0.02724955602184804: 1, 0.02724723090205234: 1, 0.027246094104103544: 1, 0.027245571307160953:  
1, 0.027242611991996145: 1, 0.02724140706325695: 1, 0.027239861778311714: 1, 0.027229484782931905:  
1, 0.027224210930150462: 1, 0.027211375040915708: 1, 0.027202247091012318: 1, 0.02720123082698378:  
1, 0.027193796616043472: 1, 0.027193508221649156: 1, 0.02719299165250674: 1, 0.02719154072634282:  
1, 0.027186661836408072: 1, 0.027184803533796896: 1, 0.027184260037034558: 1,  
0.027184020919381907: 1, 0.02718119054520174: 1, 0.027175710036210353: 1, 0.027175386364717537: 1,  
0.027175096421655335: 1, 0.027174687521703607: 1, 0.02717365938185587: 1, 0.027170911486351704: 1,  
0.027167342268273095: 1, 0.027158185913809273: 1, 0.02715187402857075: 1, 0.02715050589787136: 1,  
0.027149559901869073: 1, 0.027147659436410256: 1, 0.0271405285990771: 1, 0.02713507842922562: 1, 0  
.02713438514226161: 1, 0.027134339483622608: 1, 0.027133855620219076: 1, 0.02712840084358923: 1, 0  
.027127138290379764: 1, 0.027126322292749572: 1, 0.027124231133109286: 1, 0.02712092046320219: 1,  
0.0271193506846532: 1, 0.027118421729097158: 1, 0.02711793315905905: 1, 0.02711451733380988: 1,  
0.027112446947426982: 1, 0.02710313026632001: 1, 0.02710112039994472: 1, 0.027101084011684196: 1,  
0.027099775235518854: 1, 0.027094031207638522: 1, 0.027092359753476954: 1, 0.027089290988770776: 1  
, 0.027086633789639783: 1, 0.027080083996487262: 1, 0.027076524868273166: 1, 0.027069217224610056:  
1, 0.02706766752388691: 1, 0.027051071778439177: 1, 0.027050429121902086: 1, 0.027048803204882226:  
1, 0.027047972356540315: 1, 0.027046585507598836: 1, 0.027044805521044206: 1,  
0.027042035762198213: 1, 0.027040075879086016: 1, 0.02703530073734734: 1, 0.02702959100750444: 1,  
0.02702883536436322: 1, 0.02702122094701933: 1, 0.027020778869561928: 1, 0.02701181790942644: 1, 0  
.0270083497506254: 1, 0.027007900713476578: 1, 0.02700105226072754: 1, 0.026998081832088936: 1, 0  
.02699759078775403: 1, 0.02699451951956741: 1, 0.026989241911710204: 1, 0.02698181772700361: 1,  
0.02698166874561782: 1, 0.026977848358193654: 1, 0.02697080063720815: 1, 0.02696214528320483: 1, 0  
.02696168977481339: 1, 0.026961458384571237: 1, 0.02696137825293429: 1, 0.02696004003938455: 1,  
0.02695854675689018: 1, 0.02695854421017348: 1, 0.02695047853224513: 1, 0.026942552701357272: 1, 0  
.02694249764078162: 1, 0.02694046334620287: 1, 0.02693883705908872: 1, 0.02693819404773417: 1,  
0.02692950786826914: 1, 0.026918374086574076: 1, 0.026916392902338028: 1, 0.026905878906021585: 1,  
0.026900357175547476: 1, 0.026894624525134064: 1, 0.026893831974165294: 1, 0.026887823544091465: 1  
, 0.02687667983255914: 1, 0.026876565406898693: 1, 0.02687169908390709: 1, 0.026860137319649657: 1  
, 0.026859900420826897: 1, 0.026859454506919556: 1, 0.026858270074674333: 1, 0.026857798615625497:  
1, 0.026856069718031172: 1, 0.026855020015388125: 1, 0.02685274393588091: 1, 0.026848921692737587:  
1, 0.026848181364843966: 1, 0.026841254213979874: 1, 0.026836086015158606: 1, 0.02683380405294194:  
1, 0.026832373255934867: 1, 0.0268280776935955: 1, 0.02682259324754784: 1, 0.026821757945810477: 1  
, 0.026802475121428186: 1, 0.026801697652522306: 1, 0.026792365433345372: 1, 0.026790886388974266:  
1, 0.026780137848528104: 1, 0.026779508478012068: 1, 0.026774451652175076: 1,  
0.026771070020533725: 1, 0.0267617257309466: 1, 0.026750788503239826: 1, 0.026746124583574366: 1,  
0.02674443863053005: 1, 0.026741554714087734: 1, 0.026732116257361462: 1, 0.026729437006210395: 1,  
0.026725006900923522: 1, 0.026722013278607563: 1, 0.02672083098953405: 1, 0.026719233648781197: 1,  
0.026715430133175327: 1, 0.0267143107900608: 1, 0.02671053070433243: 1, 0.026706608112941344: 1, 0  
.02670406269048437: 1, 0.02670079922959569: 1, 0.026698122395755926: 1, 0.026696007245922335: 1, 0  
.026690611747418602: 1, 0.02669019412216343: 1, 0.026689894555281934: 1, 0.026667690921804835: 1, 0  
.026670883235226567: 1, 0.0266663640492744334: 1, 0.026662383061019056: 1, 0.02666189297562744: 1,  
0.02666015521343078: 1, 0.02665690433754736: 1, 0.026651484996421487: 1, 0.02665036534893969: 1, 0  
.0266492615304889902: 1, 0.026648887115532975: 1, 0.026647017908526215: 1, 0.026642232566632503: 1,  
0.026641810204169065: 1, 0.02663313219682254: 1, 0.026628385548591968: 1, 0.026627994776479293: 1,  
0.02662411550749387: 1, 0.026621594477526624: 1, 0.026610301293207683: 1, 0.02660760138009863: 1,  
0.02660589376156671: 1, 0.026605313725575806: 1, 0.02660202587768698: 1, 0.026601544547899696: 1,  
0.02660124926765995: 1, 0.02659770120289435: 1, 0.026597242745092065: 1, 0.0265933551366117: 1, 0  
.02658819200328612: 1, 0.02658374936010441: 1, 0.02657476046651512: 1, 0.02657399740755903: 1,

0.026571799549400383: 1, 0.026565223535099: 1, 0.0265642971274768: 1, 0.02656242480262803: 1, 0.026560393478029465: 1, 0.026551423023993777: 1, 0.026550530667532043: 1, 0.02654697320357237: 1, 0.026545807331751423: 1, 0.026545323076267002: 1, 0.026543688145091535: 1, 0.026539490146385455: 1, 0.026523532844291254: 1, 0.026522691959338887: 1, 0.026520047963800173: 1, 0.0265170579788971: 1, 0.026516265405442302: 1, 0.02651288083072832: 1, 0.02650994999810978: 1, 0.02650978215806631: 1, 0.026504703502632676: 1, 0.026489616599741254: 1, 0.0264726666335243: 1, 0.0264762840609092: 1, 0.026472036443268846: 1, 0.026457545174457725: 1, 0.02644891383421554: 1, 0.026443185008699827: 1, 0.026442749914482457: 1, 0.026436402560532424: 1, 0.0264342017500812: 1, 0.026428635600184804: 1, 0.02642367033862045: 1, 0.02642310664918893: 1, 0.02642000834822969: 1, 0.02641740758810946: 1, 0.02641486148763346: 1, 0.026405609784570974: 1, 0.02639580596818279: 1, 0.026394860638164326: 1, 0.026393432333960243: 1, 0.026391347075242988: 1, 0.026390227446276344: 1, 0.02637530022911467: 1, 0.026374783585485423: 1, 0.02637267248759211: 1, 0.026366310192070863: 1, 0.02634797525482236: 1, 0.026344964700606033: 1, 0.026331853091284545: 1, 0.026330387214481124: 1, 0.026325409293367005: 1, 0.02632276689530941: 1, 0.026322670144121138: 1, 0.026321397902188806: 1, 0.026319890545190523: 1, 0.02631946147516418: 1, 0.02631927401861194: 1, 0.026315559070562877: 1, 0.026313862952549637: 1, 0.026311952402350576: 1, 0.026311491932726104: 1, 0.026309395489738475: 1, 0.02630681889927103: 1, 0.026301604053340595: 1, 0.02628859158662248: 1, 0.026288333320537892: 1, 0.02627866119204069: 1, 0.026278057698714663: 1, 0.026269858173217035: 1, 0.026263989248500805: 1, 0.026263692346455873: 1, 0.02626188501369219: 1, 0.02625987579414345: 1, 0.02625758859640232: 1, 0.026257560286507817: 1, 0.026256253390000053: 1, 0.026251252958065078: 1, 0.02625090325903344: 1, 0.026245091689138238: 1, 0.026242847327509186: 1, 0.026239808839283552: 1, 0.026237104936763046: 1, 0.026233436087957557: 1, 0.026229318826225752: 1, 0.0262286335094403: 1, 0.026221488412474528: 1, 0.02622076169164926: 1, 0.02622036151155973: 1, 0.02621840505309352: 1, 0.026210011075506388: 1, 0.02620846020686919: 1, 0.026201598125271397: 1, 0.026200900871842715: 1, 0.026199807892655833: 1, 0.02619909181579129: 1, 0.026185205664782774: 1, 0.026171449399625867: 1, 0.026168064230448988: 1, 0.026162140704740912: 1, 0.02615872731162597: 1, 0.026144849656874768: 1, 0.026142176782135724: 1, 0.0261401438338715: 1, 0.026139399460981264: 1, 0.026109632317610713: 1, 0.02610914078011348: 1, 0.026108504370239812: 1, 0.026104413534988165: 1, 0.026102977223152253: 1, 0.0260948640871678: 1, 0.026088814180028244: 1, 0.026085745950750115: 1, 0.02608425153245255: 1, 0.02608127960668159: 1, 0.026080819700689643: 1, 0.026079576790313454: 1, 0.026078979333636017: 1, 0.02607085397753668: 1, 0.02606917508855988: 1, 0.026068984764917445: 1, 0.026065950994717414: 1, 0.02606534457490845: 1, 0.0260580179530405: 1, 0.02605843941726856: 1, 0.026057331200413546: 1, 0.026056766938458115: 1, 0.026055057593524555: 1, 0.026052890540132462: 1, 0.026047084197739413: 1, 0.026029497256948135: 1, 0.02602403038448386: 1, 0.02602260780615545: 1, 0.02602145606275627: 1, 0.026019252388315345: 1, 0.02601808099896197: 1, 0.026017423788179977: 1, 0.026014026766590002: 1, 0.026013389458380762: 1, 0.02600308628937211: 1, 0.02600061315003936: 1, 0.026000525435504386: 1, 0.025998919260600294: 1, 0.025987802693728662: 1, 0.025979637631976867: 1, 0.025968834361359897: 1, 0.0259687246765075: 1, 0.025965702331133163: 1, 0.025960850651807546: 1, 0.025958040914285038: 1, 0.02595388684071105: 1, 0.025951799766937386: 1, 0.025938695643241392: 1, 0.02592928137468756: 1, 0.02592552262092189: 1, 0.025924934902689625: 1, 0.025920891610125375: 1, 0.02591992668146817: 1, 0.025911959347904696: 1, 0.02591067509685414: 1, 0.02590448002008202: 1, 0.025897320257934623: 1, 0.025894061511896892: 1, 0.025893989923033767: 1, 0.025892415869701854: 1, 0.025891887621368875: 1, 0.025891608803674488: 1, 0.025886607221747505: 1, 0.025886004724499707: 1, 0.025881886017811336: 1, 0.02587625979122695: 1, 0.02587337602151085: 1, 0.02587127332049484: 1, 0.02586614934105413: 1, 0.025865599794764726: 1, 0.025861223470117864: 1, 0.025860365265863973: 1, 0.025859858003561286: 1, 0.0258571453958409: 1, 0.025857070719197375: 1, 0.025855769570449168: 1, 0.025847014638131386: 1, 0.02584048322527853: 1, 0.025839757834859: 1, 0.025838504607734427: 1, 0.02583703727433307: 1, 0.02583616208114921: 1, 0.02583070826296233: 1, 0.02582417908682517: 1, 0.025823626753753826: 1, 0.025815136073809964: 1, 0.02581488381234784: 1, 0.025811626845639604: 1, 0.025807380935838526: 1, 0.025806641725402587: 1, 0.025793095278105558: 1, 0.02579272505879907: 1, 0.025792686111123692: 1, 0.025787840051249226: 1, 0.025786448235432427: 1, 0.02578089578039104: 1, 0.025780679204420582: 1, 0.025773869089775508: 1, 0.0257734516869578: 1, 0.025769174450557313: 1, 0.02576573977672916: 1, 0.025760736292948432: 1, 0.025755311543991473: 1, 0.025751107646105692: 1, 0.025749216583246574: 1, 0.025747021364975572: 1, 0.025746941514854745: 1, 0.02574589875269959: 1, 0.0257447545429015024: 1, 0.025738196799067074: 1, 0.02573402242616233: 1, 0.025727459370132953: 1, 0.025726784722641123: 1, 0.025720894738642183: 1, 0.02571574285232913: 1, 0.02571536834181554: 1, 0.025712388464377664: 1, 0.02569965255192879: 1, 0.025696610563239845: 1, 0.025693148509775537: 1, 0.02569214689166505: 1, 0.025690830813897884: 1, 0.025690188621254974: 1, 0.025686362447428526: 1, 0.02568463602832357: 1, 0.02567351224365877: 1, 0.025671937355322617: 1, 0.025670439425029182: 1, 0.02566971198378972: 1, 0.025669094293269728: 1, 0.02566636808405819: 1, 0.025658810338352118: 1, 0.025653531916516672: 1, 0.02564956785262409: 1, 0.025648153705010994: 1, 0.02564348680931846: 1, 0.025643381717165226: 1, 0.025635782776411264: 1, 0.0256246408916853: 1, 0.02562087055555744: 1, 0.025620156395930183: 1, 0.025616405389704767: 1, 0.025615817838672617: 1, 0.025615569255427163: 1, 0.025612217877797473: 1, 0.025610737621340807: 1, 0.02560593190880926: 1, 0.025603198411305764: 1, 0.025602720602624293: 1, 0.025599309768058333: 1, 0.025595290433787502: 1, 0.025592891397266712: 1, 0.025591111629895275: 1, 0.02559059715017368: 1, 0.02557945050475434: 1, 0.025574833700528963: 1, 0.02556418184940562: 1, 0.025562570620465526: 1, 0.025551125032912264: 1, 0.025550399866135103: 1, 0.025547409893249898: 1, 0.025544977021466853: 1, 0.025542437596616924: 1, 0.025537913801144393: 1, 0.025536911264244157: 1, 0.02553495042145804: 1, 0.025533887195111776: 1, 0.02552884170222021: 1, 0.02552582794787337: 1, 0.025525532191611484: 1, 0.025520199719874813: 1, 0.025518908058468535: 1, 0.025518469454638835: 1, 0.025508070098540746: 1, 0.025515930931556637: 1, 0.02551324307832559: 1, 0.02550971179851192: 1, 0.025508070098540746: 1, 0.0255056735984238: 1, 0.025498931491350157: 1, 0.02549807843744134: 1, 0.02549384383623199: 1, 0.02549224231039457: 1, 0.025488279554305524: 1, 0.02548665210421845: 1, 0.025485866006054295: 1, 0.025480410129187028: 1, 0.025479742384806943: 1, 0.025479621408619445: 1, 0.02546658324246025: 1, 0.025466245414581305: 1, 0.025461070797548974: 1, 0.025450065010099873: 1, 0.025448820158805924: 1, 0.02544039612764875: 1, 0.025431275228464393: 1, 0.025427795212019683: 1, 0.025427100746100884: 1, 0.025425324321762206: 1, 0.0254236034782895: 1, 0.02542056312006435: 1, 0.025418972632079772: 1

, 0.025417688694704586: 1, 0.02541691025070101: 1, 0.025413586292915985: 1, 0.025407311853006084: 1, 0.02540669123336645: 1, 0.02540313411453328: 1, 0.025402386574119175: 1, 0.025401532389917998: 1, 0.025398046137781356: 1, 0.02539492290885611: 1, 0.025394584717448994: 1, 0.025389525578185537: 1, 0.025383220381922388: 1, 0.025377465727501304: 1, 0.025377093531376342: 1, 0.025376608182615945: 1, 0.025375225242256015: 1, 0.025374822127296314: 1, 0.02537361591310101: 1, 0.02536918135264612: 1, 0.02536621372807693: 1, 0.025366144886450965: 1, 0.02536525605060683: 1, 0.02535930892294234: 1, 0.025359887270826872: 1, 0.0253589825006599: 1, 0.025342385513852612: 1, 0.02533920078241351: 1, 0.025335258145268442: 1, 0.02532040189741855: 1, 0.025314581931917046: 1, 0.02530747958734753: 1, 0.02530645625618147: 1, 0.02530600977973401: 1, 0.025301795544904214: 1, 0.025300263803826807: 1, 0.02529207672409473: 1, 0.025289762608061303: 1, 0.02528961381487959: 1, 0.02528927394496742: 1, 0.025287236187300246: 1, 0.025286077394887193: 1, 0.02526746687163851: 1, 0.025265329963414997: 1, 0.025249747600210475: 1, 0.025247594930968554: 1, 0.02524676614228452: 1, 0.025243905691517923: 1, 0.02523973582761095: 1, 0.025238218306041883: 1, 0.025237448899933047: 1, 0.025236242382958813: 1, 0.025230917439376922: 1, 0.025226586086861465: 1, 0.02522415995650625: 1, 0.025223299317805016: 1, 0.025212521246896692: 1, 0.025210558516267283: 1, 0.02520859616848981: 1, 0.02519714872577196: 1, 0.025196708414553494: 1, 0.02519627135493667: 1, 0.02519461268362607: 1, 0.025189898792446874: 1, 0.02518781592781716: 1, 0.02518776236921677: 1, 0.02518661199016479: 1, 0.02518612240713427: 1, 0.025185013101158844: 1, 0.025181852778479966: 1, 0.025181425774371793: 1, 0.02518064819866573: 1, 0.025177278248569242: 1, 0.025169959782823714: 1, 0.025164951459927015: 1, 0.02516369890333571: 1, 0.025163055778642425: 1, 0.025162237968145453: 1, 0.025159454997361594: 1, 0.02515408008197728: 1, 0.02515197759385351: 1, 0.025147692027707145: 1, 0.02514557926748965: 1, 0.025140541421234053: 1, 0.025137744144324323: 1, 0.025131514822234503: 1, 0.025120998366527373: 1, 0.025120336821983093: 1, 0.025119756912600617: 1, 0.025116849897880066: 1, 0.025114981249633423: 1, 0.025111505450135352: 1, 0.02511096797502351: 1, 0.02510921704404553: 1, 0.02510178584298672: 1, 0.025099553564201824: 1, 0.025096324769606076: 1, 0.025092826994097296: 1, 0.025092367328253963: 1, 0.025090353098549716: 1, 0.02508903484360897: 1, 0.0250885061093647: 1, 0.025085877483305798: 1, 0.0250842591113446: 1, 0.025073458956647254: 1, 0.025073328953925295: 1, 0.025072594039790907: 1, 0.025063808141927376: 1, 0.025063162948892655: 1, 0.025062308095200127: 1, 0.025059546044074954: 1, 0.025053071154043906: 1, 0.02505191764655073: 1, 0.025048635294043723: 1, 0.025047847944105424: 1, 0.02504332547412255: 1, 0.02504275841052793: 1, 0.025040932691872603: 1, 0.025039297062113098: 1, 0.02503713858810557: 1, 0.025032189923996057: 1, 0.025029721736300418: 1, 0.025023642358181598: 1, 0.025016581936971802: 1, 0.025015969015901255: 1, 0.025014217659842908: 1, 0.025007245508059488: 1, 0.025000843124181424: 1, 0.02499958676072207: 1, 0.024991119107729158: 1, 0.02498733992454698: 1, 0.024987315216931323: 1, 0.024987077502822704: 1, 0.024986646294601473: 1, 0.024985558924348082: 1, 0.024973278426459074: 1, 0.024968732422639965: 1, 0.02496756686672864: 1, 0.024962202446612854: 1, 0.024959058123611037: 1, 0.02495674270391199: 1, 0.024956314324736457: 1, 0.02495125198565902: 1, 0.024943909331601934: 1, 0.024943811257998327: 1, 0.024940195129718245: 1, 0.02492920611907832: 1, 0.024924424361597614: 1, 0.024920156379847815: 1, 0.024912745064366214: 1, 0.024909926419603594: 1, 0.024905763955339874: 1, 0.024898304824919372: 1, 0.02489641606629316: 1, 0.02489000675529673: 1, 0.02488298545225824: 1, 0.024880681911788483: 1, 0.024873761920152254: 1, 0.024869689407323196: 1, 0.024869505585267078: 1, 0.02486822205360833: 1, 0.0248590561608859: 1, 0.024857254012260008: 1, 0.024850765965896474: 1, 0.02485053328135649: 1, 0.024849944247926307: 1, 0.024847473636990993: 1, 0.024842114322434508: 1, 0.024841984711694742: 1, 0.02483461923315154: 1, 0.024833811677980634: 1, 0.02483059381154793: 1, 0.02482032697041909: 1, 0.02482002957967762: 1, 0.024817156187095256: 1, 0.024816612561521373: 1, 0.024815602141353314: 1, 0.02481538616286201: 1, 0.024809024225296007: 1, 0.024804845971810374: 1, 0.024795718985746427: 1, 0.024788823140185802: 1, 0.024788741513690538: 1, 0.024784331267672828: 1, 0.024783865238397478: 1, 0.02478302501296277: 1, 0.024776858538213316: 1, 0.02477219958961141: 1, 0.024768556183917143: 1, 0.024766001954140377: 1, 0.024764268466775378: 1, 0.02476342403585881: 1, 0.024762679510023228: 1, 0.024756340287358278: 1, 0.02475360392910696: 1, 0.024743373848945496: 1, 0.024742991887880164: 1, 0.024733860502654248: 1, 0.024733252941953266: 1, 0.024731763677399165: 1, 0.024729129610796728: 1, 0.024709715191628095: 1, 0.0247091602391573: 1, 0.02470848509258721: 1, 0.02468470980848537: 1, 0.024684271128228526: 1, 0.02468159676510623: 1, 0.02467896160505603: 1, 0.024677506560103712: 1, 0.0246704961701792: 1, 0.024664609595008154: 1, 0.024661458303836578: 1, 0.024655629236619726: 1, 0.024654961412663275: 1, 0.02465421516804233: 1, 0.024651523543962155: 1, 0.02464719121455563: 1, 0.024637747053427632: 1, 0.024637598795751302: 1, 0.024635280384194175: 1, 0.02463317434779872: 1, 0.024632892638912284: 1, 0.024632513650568337: 1, 0.02462990583766548: 1, 0.024622196264583618: 1, 0.024617552401798606: 1, 0.024608339235197733: 1, 0.024607255013659388: 1, 0.0246072030581789: 1, 0.024605370147796707: 1, 0.024598380720511064: 1, 0.02459809129524263: 1, 0.024597370731470107: 1, 0.024592193360401013: 1, 0.024580648806337195: 1, 0.024579501266919546: 1, 0.024575721448196895: 1, 0.024571420445428364: 1, 0.02456463477452059: 1, 0.024561133760870563: 1, 0.02455093734908572: 1, 0.024550522629536047: 1, 0.024546920264714323: 1, 0.024546467699321988: 1, 0.02454406126458269: 1, 0.024532423532470225: 1, 0.024527847182948207: 1, 0.024523943415587748: 1, 0.024510815190140815: 1, 0.024509702505188597: 1, 0.024508102873070682: 1, 0.024506135127649813: 1, 0.02450541778575724: 1, 0.024504975595023962: 1, 0.024502320480809987: 1, 0.02449667934077332: 1, 0.024496603229938976: 1, 0.024492135872242755: 1, 0.024489361010641426: 1, 0.024484316635337337: 1, 0.024470579063127683: 1, 0.024461562994708357: 1, 0.02446029967526172: 1, 0.024458527130936537: 1, 0.02445732492336023: 1, 0.024457262232045644: 1, 0.024456882089352778: 1, 0.024454408323124916: 1, 0.024442683483139882: 1, 0.02443625521897657: 1, 0.024427125999893655: 1, 0.024426988172365854: 1, 0.0244118158731973: 1, 0.02441078841040892: 1, 0.02441063307567598: 1, 0.024385185477483202: 1, 0.02438359831313862: 1, 0.02438318024397259: 1, 0.024380722356652385: 1, 0.0243804395533979477: 1, 0.02437748189782641: 1, 0.02437705671345962: 1, 0.024372878746212346: 1, 0.024370685107801007: 1, 0.02435673085062202: 1, 0.02435657925462629: 1, 0.024353944255922758: 1, 0.024350741620402305: 1, 0.024344392920353043: 1, 0.024342365609011762: 1, 0.0243391464810582: 1, 0.024337866551839563: 1, 0.024335884966721913: 1, 0.024333531154133926: 1, 0.024327376466377084: 1, 0.024323799429692303: 1, 0.02431532531339033: 1, 0.024309645529778365: 1, 0.024307294202012254: 1, 0.024306458461818597: 1, 0.024305130759725874: 1, 0.02430429436431379: 1, 0.024300248661735982: 1

1, 0.024298738273132614: 1, 0.02429629625066662: 1, 0.02428099613465235: 1, 0.024261212355799: 1, 0.024253961048855632: 1, 0.02424681812047625: 1, 0.0242414430535689: 1, 0.024240309871940525: 1, 0.024236088888493997: 1, 0.024226181701753436: 1, 0.024218973229296517: 1, 0.02421612806751398: 1, 0.02421383278427444: 1, 0.024209798989188226: 1, 0.024202997987373947: 1, 0.0241993090088534: 1, 0.024199174100659068: 1, 0.02419902929865992: 1, 0.02419374873134609: 1, 0.02418867716895203: 1, 0.02418598703197594: 1, 0.024168797329210047: 1, 0.024159411160330126: 1, 0.024155501548165363: 1, 0.024152542498400358: 1, 0.024146338564025836: 1, 0.02414533502693452: 1, 0.024144878303141538: 1, 0.02414355002290838: 1, 0.02414132073917427: 1, 0.024141041055438232: 1, 0.024140914852016533: 1, 0.024138408508947513: 1, 0.024137636471597588: 1, 0.024136372767833397: 1, 0.02413027084228553: 1, 0.024120880439312525: 1, 0.024115469604844404: 1, 0.024106592796438692: 1, 0.024100936837641335: 1, 0.02409978662985205: 1, 0.024096675320483135: 1, 0.024095324274251782: 1, 0.024091856277382633: 1, 0.024090940917439567: 1, 0.024086723341751437: 1, 0.024086095817708576: 1, 0.024081633686217643: 1, 0.024072758832700117: 1, 0.02407114026656352: 1, 0.024062097787186466: 1, 0.02405982860875338: 1, 0.024059204950086586: 1, 0.024055138978154037: 1, 0.02405467627732715: 1, 0.024053715566768025: 1, 0.024045669236580913: 1, 0.024044700691341136: 1, 0.02404383042906724: 1, 0.024043420217256712: 1, 0.024041052865960685: 1, 0.024034103985474283: 1, 0.02403357068104342: 1, 0.024028104174981316: 1, 0.02401615578494727: 1, 0.02401513724863052: 1, 0.023999248231052976: 1, 0.02399098215247684: 1, 0.023989903809270918: 1, 0.023987539921422874: 1, 0.023985850899210067: 1, 0.023981589171605262: 1, 0.02397932723330276: 1, 0.02397695759588101: 1, 0.02397398234817106: 1, 0.023973430261493116: 1, 0.023972513337866704: 1, 0.023969347919806025: 1, 0.023969061067271973: 1, 0.02396840516302587: 1, 0.02396754781248923: 1, 0.023967044100196233: 1, 0.023958042512909436: 1, 0.023944718480138176: 1, 0.023944451104365067: 1, 0.023937926009823817: 1, 0.02393816835563703: 1, 0.02393078296842863: 1, 0.02392046846074304: 1, 0.0239201266462818: 1, 0.02391970441971941: 1, 0.02391490091734934: 1, 0.023912246411796012: 1, 0.023910709035875215: 1, 0.023909614218956297: 1, 0.02390903135778165: 1, 0.02390743998282975: 1, 0.023907429123724306: 1, 0.023906055807720566: 1, 0.023902248762977432: 1, 0.023899008824284976: 1, 0.023892319131120974: 1, 0.023891106981662028: 1, 0.023893196385413: 1, 0.023885410497558688: 1, 0.02388410728961262: 1, 0.023879172775203156: 1, 0.023872688147289895: 1, 0.023870526410315673: 1, 0.023867868454129942: 1, 0.0238535353653952981: 1, 0.023853275093555514: 1, 0.023852786833160507: 1, 0.023851165109173934: 1, 0.023850428569403517: 1, 0.02384173344133883: 1, 0.023841683933899606: 1, 0.023838323441742693: 1, 0.023834713965635988: 1, 0.02383423994062968: 1, 0.023830501489519634: 1, 0.02382757660137493: 1, 0.02382671930769522: 1, 0.023819880205211495: 1, 0.023810764471859237: 1, 0.02380519836085639: 1, 0.023802800981451846: 1, 0.023801352320295996: 1, 0.0238009926297868: 1, 0.02379209388367572: 1, 0.023791886865080367: 1, 0.023790228694481184: 1, 0.02378927212942772: 1, 0.023776012579612843: 1, 0.023775228044692277: 1, 0.02377260567073511: 1, 0.023768590454844335: 1, 0.02376746868123821: 1, 0.0237672932283689: 1, 0.02376707599197167: 1, 0.023764377930465937: 1, 0.023759075556259772: 1, 0.023757607972631878: 1, 0.023753264909762685: 1, 0.023751353974888523: 1, 0.02374558475302243: 1, 0.02374230841521956: 1, 0.023740126339972037: 1, 0.02373486135278413: 1, 0.02373405971871778: 1, 0.023732793936953545: 1, 0.023721702951139772: 1, 0.023713931416922025: 1, 0.023706418879220974: 1, 0.023704446809279033: 1, 0.023699411405647956: 1, 0.023694309992583682: 1, 0.023693710648683704: 1, 0.023681266228252812: 1, 0.023677519895751085: 1, 0.023677447784187282: 1, 0.023675096392712917: 1, 0.023674145550876463: 1, 0.023668851411674092: 1, 0.023664636072858486: 1, 0.02366408521962856: 1, 0.023660789875229772: 1, 0.023659272039243413: 1, 0.02365428421119309: 1, 0.023650313029647152: 1, 0.023647374184480822: 1, 0.023646744396233505: 1, 0.023643828901669266: 1, 0.02363662297382236: 1, 0.023633949778200807: 1, 0.02362738886610339: 1, 0.023626804490061257: 1, 0.023623961529807766: 1, 0.02361547058402563: 1, 0.02361215440293709: 1, 0.023611400772933375: 1, 0.02361071043763757: 1, 0.023602037651276202: 1, 0.023593461866259085: 1, 0.02359198401781007: 1, 0.02358854485351162: 1, 0.023586408875533926: 1, 0.02358272139052493: 1, 0.023571689251996496: 1, 0.023568869310190595: 1, 0.02356717825499318: 1, 0.023566840002398243: 1, 0.02356680781692612: 1, 0.023565728813279174: 1, 0.023563160332982593: 1, 0.023561786327712223: 1, 0.023560695019345327: 1, 0.023559340690282725: 1, 0.023554974976864006: 1, 0.023552982321732967: 1, 0.02355284570659947: 1, 0.02355252785615679: 1, 0.023548356741114336: 1, 0.02354816309621112: 1, 0.02354706724031733: 1, 0.02353471032999623: 1, 0.023524379353097022: 1, 0.023523719760176136: 1, 0.023521432062559036: 1, 0.02352128223039303: 1, 0.023521049107064138: 1, 0.02351780636643075: 1, 0.023517198524065284: 1, 0.023506144685995996: 1, 0.02350613427543122: 1, 0.023503902812016853: 1, 0.023497221644246183: 1, 0.023481302568653203: 1, 0.02347955582093384: 1, 0.0234786425213553: 1, 0.023476171237242785: 1, 0.023474373462961787: 1, 0.023467178158210374: 1, 0.023465564903509047: 1, 0.0234681221611252: 1, 0.02346015367504672: 1, 0.02345908001364061: 1, 0.023455135909640046: 1, 0.023454180280621895: 1, 0.023440571392455645: 1, 0.023440400041820946: 1, 0.02342996816478652: 1, 0.023428727438130136: 1, 0.02342806715776397: 1, 0.02342513257656377: 1, 0.023422304253723807: 1, 0.02341794285964087: 1, 0.023407278380690743: 1, 0.02340529263610743: 1, 0.02340395798389603: 1, 0.02339989854645023: 1, 0.0233987988855339: 1, 0.02339897078072001: 1, 0.023397250255062577: 1, 0.023394834280783167: 1, 0.02339343256287138: 1, 0.02339306351595717: 1, 0.023392925998461437: 1, 0.023373024772153035: 1, 0.0233692157964867: 1, 0.023369095829486417: 1, 0.02336820753107551: 1, 0.023362647736781896: 1, 0.023360165017467426: 1, 0.023356367624572535: 1, 0.02335445986938768: 1, 0.023351058288387058: 1, 0.023344629884984383: 1, 0.023343363915312384: 1, 0.023342915430271657: 1, 0.023342631919551708: 1, 0.02334035847530458: 1, 0.023336989734494475: 1, 0.023333312490980637: 1, 0.02333239730183167: 1, 0.023328625034179363: 1, 0.023327675743793495: 1, 0.023316339049973694: 1, 0.023315889013215546: 1, 0.023314849697185842: 1, 0.02331095472349238: 1, 0.02331024158220689: 1, 0.02330600886053373: 1, 0.023302378132077448: 1, 0.023296092076718043: 1, 0.02329569412633585: 1, 0.023280235482832607: 1, 0.023272786504980866: 1, 0.023263910104585162: 1, 0.023258555549066452: 1, 0.02325045219868594: 1, 0.023244183271704213: 1, 0.02323946632346492: 1, 0.023238494641303672: 1, 0.023233168874223855: 1, 0.023230736421485605: 1, 0.023224341651312645: 1, 0.023223646956128007: 1, 0.023220128976307458: 1, 0.023214425676942395: 1, 0.023210483565307742: 1, 0.023206037833381418: 1, 0.023205923251503634: 1, 0.023205071033341934: 1, 0.02320486219911896: 1, 0.02320317382132974: 1, 0.02320168864635947: 1, 0.023200773687495672: 1, 0.023198736993891318: 1, 0.02319688148153365: 1, 0.023193052770414495: 1, 0.02319153980554184: 1, 0.023191423974827645: 1, 0.023188330153207252: 1, 0.023187854250725747:

, 0.02310100001101: 1, 0.0231011200102010: 1, 0.0231000010001000: 1, 0.0231000010001000: 1, 0.0231866689493444: 1, 0.023181196265117825: 1, 0.02317856947989791: 1, 0.02317201643463501: 1, 0.02316317810859176: 1, 0.0231612949958417: 1, 0.023159351799280845: 1, 0.023158573876625517: 1, 0.023157939964102592: 1, 0.023156088908499683: 1, 0.02315023299527538: 1, 0.02314614874521716: 1, 0.02314406268170221: 1, 0.023142167646569903: 1, 0.02314159973575372: 1, 0.023140890700657304: 1, 0.02313809976296717: 1, 0.023136357396420597: 1, 0.02313208414351874: 1, 0.023131984643567402: 1, 0.023128444194441135: 1, 0.023125709337333877: 1, 0.023120604145967838: 1, 0.023117347027313488: 1, 0.023115519056219513: 1, 0.023115086019861918: 1, 0.023108455117804294: 1, 0.023106424245635936: 1, 0.023085490028979715: 1, 0.0230823833423422: 1, 0.023081787978689875: 1, 0.023080375161363152: 1, 0.023079941613192007: 1, 0.023078223506871394: 1, 0.023075533677533393: 1, 0.023073411465906954: 1, 0.02307264329282528: 1, 0.023061269765327186: 1, 0.023059352869638193: 1, 0.023054818283423834: 1, 0.023050805462816293: 1, 0.023049824834134314: 1, 0.02304965423090994: 1, 0.023048779410016623: 1, 0.023047918440326307: 1, 0.023047896131197072: 1, 0.023042261413797893: 1, 0.023040200331998273: 1, 0.023039536540242343: 1, 0.023015243041985076: 1, 0.02301224090771209: 1, 0.023001219220631752: 1, 0.02299633715134395: 1, 0.02299617573225768: 1, 0.022996156105425408: 1, 0.022995512387623512: 1, 0.02298770893863796: 1, 0.022984175482305913: 1, 0.02298211312857583: 1, 0.022981990409138717: 1, 0.02296298737316775: 1, 0.02296019002191868: 1, 0.022958887255828474: 1, 0.02294955596577404: 1, 0.02294945154979504: 1, 0.022948687186230138: 1, 0.022945506007560276: 1, 0.02294062653700487: 1, 0.02293734582605579: 1, 0.02293346343486821: 1, 0.022930718862920797: 1, 0.022928766877923005: 1, 0.02292858164869728: 1, 0.022925290656657653: 1, 0.022923984708201235: 1, 0.022923006348490246: 1, 0.02291448405284057: 1, 0.02291910048005195: 1, 0.0229157729382915: 1, 0.022914240401505814: 1, 0.02291182922068515: 1, 0.02290191225225377: 1, 0.02289980882886342: 1, 0.02289391124587817: 1, 0.0228925553678982: 1, 0.02289800526431532: 1, 0.022895293773226286: 1, 0.02288966453859016: 1, 0.022884403896813683: 1, 0.022881363491850513: 1, 0.022880593202637314: 1, 0.022878061374694527: 1, 0.022874425987299087: 1, 0.022868335597256602: 1, 0.022865153750678963: 1, 0.022850167152580307: 1, 0.022849907537249033: 1, 0.02284680517806097: 1, 0.022842709784552197: 1, 0.022839554691595834: 1, 0.022835286327724393: 1, 0.02283074321960838: 1, 0.022822637141431977: 1, 0.0228166064833074: 1, 0.02281570344455841: 1, 0.022814566131600104: 1, 0.022813587770191622: 1, 0.02280658519048331: 1, 0.022805866103784586: 1, 0.022804839234068022: 1, 0.022802486167931617: 1, 0.022800982544561928: 1, 0.022800955264527814: 1, 0.0228008772728515: 1, 0.022800721216253997: 1, 0.022799364834599503: 1, 0.022797655253206345: 1, 0.022797145162186394: 1, 0.022796549539407657: 1, 0.022789651684546382: 1, 0.022789039471798674: 1, 0.022782659486313195: 1, 0.022780065045002584: 1, 0.022778870843646083: 1, 0.022778815925519797: 1, 0.022767731992897146: 1, 0.02276683668578387: 1, 0.022766625382275092: 1, 0.02276357560912691: 1, 0.02276257937189569: 1, 0.022749871471722527: 1, 0.02274849022252792: 1, 0.022741918724634658: 1, 0.022741544217641914: 1, 0.022739542348645954: 1, 0.022734973715931903: 1, 0.02273404929425535: 1, 0.022731475373785788: 1, 0.022730668668094794: 1, 0.022725661529746827: 1, 0.022722909178039524: 1, 0.02271342829439507: 1, 0.0227110457442316: 1, 0.022709261513367586: 1, 0.02270790296645086: 1, 0.0227069410469066: 1, 0.022698645605308793: 1, 0.02269666089027409: 1, 0.022696428059990743: 1, 0.022696233174649423: 1, 0.022691340423715015: 1, 0.022691023583091417: 1, 0.022689919045109037: 1, 0.02268865340186786: 1, 0.02268776671745087: 1, 0.02268757127210739: 1, 0.022684042404076107: 1, 0.022683955002876205: 1, 0.022681837822971212: 1, 0.022675438238838174: 1, 0.022673345743741274: 1, 0.022668480970367284: 1, 0.022665227347347543: 1, 0.022664786922176376: 1, 0.022663577218044018: 1, 0.022657254292688913: 1, 0.022651092492894445: 1, 0.022650648403618093: 1, 0.022649009937830016: 1, 0.022648560956845833: 1, 0.022647683365483166: 1, 0.022646633873099807: 1, 0.022644795249694892: 1, 0.022640032367356448: 1, 0.022637760800730482: 1, 0.022636957169688932: 1, 0.02263601411777244: 1, 0.02262011911050307: 1, 0.022614582023376448: 1, 0.022601126789043004: 1, 0.022594071544930386: 1, 0.022586989784012912: 1, 0.022584669802933: 1, 0.022581198161566486: 1, 0.022579702851339672: 1, 0.022576305910082594: 1, 0.022567127202455323: 1, 0.02256573052994851: 1, 0.022564668566574075: 1, 0.022558401286145377: 1, 0.02255064867522092: 1, 0.022548864681767755: 1, 0.022546710115811854: 1, 0.022539098237398667: 1, 0.022537608405792886: 1, 0.02253753037291232: 1, 0.022535172962193033: 1, 0.022532833711603768: 1, 0.02252947255213116: 1, 0.022529080489465808: 1, 0.02252445945378978: 1, 0.022520078028610127: 1, 0.02251375208503838: 1, 0.02251372799061917: 1, 0.022512607848214822: 1, 0.02251202101171017: 1, 0.02250609134792696: 1, 0.022506044388774862: 1, 0.022495607468336606: 1, 0.022493885880273307: 1, 0.022473822762255423: 1, 0.022471958346820354: 1, 0.02246899395209938: 1, 0.0224600655116219: 1, 0.022452997448150037: 1, 0.022420075172788472: 1, 0.022419126221076106: 1, 0.022417323623331493: 1, 0.02241718053035316: 1, 0.022416191630490103: 1, 0.022412705489133315: 1, 0.02240913963267156: 1, 0.022405697272905558: 1, 0.02240165969338398: 1, 0.022397081842327235: 1, 0.022392220725711197: 1, 0.022385059345858088: 1, 0.022384498096035: 1, 0.02236938454209301: 1, 0.02236929261732403: 1, 0.022369010904844153: 1, 0.02235504762405272: 1, 0.022351424925593385: 1, 0.02234956536004586: 1, 0.022340896989719933: 1, 0.022337362227351023: 1, 0.022332020922883958: 1, 0.02233052540409012: 1, 0.022324277635184006: 1, 0.02231529240077816: 1, 0.022313443936405927: 1, 0.022308813266837934: 1, 0.02230508775598023: 1, 0.02230333558233593: 1, 0.02229873112640125: 1, 0.022296710053311648: 1, 0.022293816348105525: 1, 0.022292059143533584: 1, 0.022280948983057706: 1, 0.022275148083819075: 1, 0.02226946021147827: 1, 0.022267088758713437: 1, 0.022261093750245618: 1, 0.022258348323052034: 1, 0.022250887559225566: 1, 0.022249869992403234: 1, 0.022246943698492783: 1, 0.02224676447935286: 1, 0.022245094773419394: 1, 0.02224071476345366: 1, 0.02223005528613973: 1, 0.02222767262318813: 1, 0.022226728545163724: 1, 0.022219228268117924: 1, 0.022210274992497586: 1, 0.02220855935609172: 1, 0.02218035028827833: 1, 0.02217212156448838: 1, 0.02216961681752725: 1, 0.022165726343186875: 1, 0.02216307214687869: 1, 0.02216207661651189: 1, 0.022154941918657772: 1, 0.02215192235638929: 1, 0.022137127542059286: 1, 0.02212948873782422: 1, 0.022122569696951377: 1, 0.02212047540132922: 1, 0.02211777237122837: 1, 0.022110233696596066: 1, 0.02210691767898012: 1, 0.022105285994270352: 1, 0.022103364820380077: 1, 0.022103199996435972: 1, 0.02209993486643945: 1, 0.022098997560756343: 1, 0.02209557232143717: 1, 0.02209285183886842: 1, 0.022092368398436677: 1, 0.0220668119743012: 1, 0.02206679737019196: 1, 0.02206235969209354: 1, 0.02206201168680167: 1, 0.022052358261857023: 1, 0.02205060563384966: 1, 0.02205011434454119: 1, 0.022046505319319967: 1, 0.02204011527497394: 1, 0.02204006863233665: 1, 0.022037137322882486: 1, 0.0220338387216003542: 1, 0.022029075276968407: 1, 0.022026495810684683: 1, 0.022025300605979795: 1



0.020937250515626206: 1, 0.020934294322618893: 1, 0.020931922673548965: 1, 0.020926114261195655: 1, 0.02092044089998844: 1, 0.02091931287136178: 1, 0.020919205593211924: 1, 0.020911268877708746: 1, 0.02091002518300226: 1, 0.02090011750198001: 1, 0.020897248196698002: 1, 0.02089723733947037: 1, 0.02089665627599658: 1, 0.020895415095796937: 1, 0.02088748846051964: 1, 0.02088686104578408: 1, 0.02088536037961474: 1, 0.020884931881165514: 1, 0.02088398358466986: 1, 0.02088060613080816: 1, 0.020870730160148163: 1, 0.020870231951398116: 1, 0.02086991354413923: 1, 0.02086820566573679: 1, 0.0208675352270538: 1, 0.020859936316122665: 1, 0.020857695201061968: 1, 0.020857527193930466: 1, 0.02083230354757353: 1, 0.0208274840957337: 1, 0.020826547886057024: 1, 0.020823962035225047: 1, 0.020823025777760885: 1, 0.020822369281058593: 1, 0.020819942012414397: 1, 0.02081754299915289: 1, 0.02081428548520076: 1, 0.02081238924500281: 1, 0.020810189306464826: 1, 0.0208049864920421: 1, 0.020803446441093883: 1, 0.020797122631217795: 1, 0.02079570797237356: 1, 0.020793999978084628: 1, 0.020786701096924473: 1, 0.020785927314088296: 1, 0.020783272835172225: 1, 0.020782416768282498: 1, 0.02077658888816801: 1, 0.020775785146516915: 1, 0.02077262225731254: 1, 0.020772132558544276: 1, 0.02077095148119922: 1, 0.02076936332310887: 1, 0.020765833433270382: 1, 0.020759734025916306: 1, 0.020747282750848594: 1, 0.020739759613320034: 1, 0.02073734923451465: 1, 0.020731621625420464: 1, 0.020725498309079413: 1, 0.02071794959248356: 1, 0.020710146239596564: 1, 0.02070728632842151: 1, 0.02070552901418736: 1, 0.020703959162130494: 1, 0.02070250002048135: 1, 0.020700196188452664: 1, 0.020699388189876426: 1, 0.02069277442345906: 1, 0.020687022046954467: 1, 0.02067918140808108: 1, 0.020678040520029656: 1, 0.020674381705642356: 1, 0.02067062748591356: 1, 0.020669331886051134: 1, 0.02066687297798367: 1, 0.020664083540675074: 1, 0.020660707783067406: 1, 0.020656801182682788: 1, 0.020646549115244495: 1, 0.02064196193920889: 1, 0.020639994569124853: 1, 0.02063995858221961: 1, 0.020638652567871014: 1, 0.020636005251101673: 1, 0.020622345237906445: 1, 0.020622333520296382: 1, 0.020618166256336883: 1, 0.020612136623316284: 1, 0.02060745906472118: 1, 0.02060734574268215: 1, 0.020601850690554136: 1, 0.02059939974212338: 1, 0.020595045411640683: 1, 0.02059400381751067: 1, 0.02059222319152701: 1, 0.020590926352095775: 1, 0.02058759616303294: 1, 0.020580499621814508: 1, 0.020576075448649197: 1, 0.02057279230094023: 1, 0.020568757218226964: 1, 0.020568650555973473: 1, 0.020568481142105667: 1, 0.020563459332362623: 1, 0.02056262981284582: 1, 0.02056016282147402: 1, 0.02055895350427836: 1, 0.02055702089097182: 1, 0.020553112633938445: 1, 0.020546396725987032: 1, 0.020542188923647734: 1, 0.020536420296943407: 1, 0.02053169533268112: 1, 0.020530767409240227: 1, 0.020530173760240765: 1, 0.020520998324132785: 1, 0.020519585233809957: 1, 0.020513396685317903: 1, 0.020511499086821573: 1, 0.020509488512039598: 1, 0.020508665299630947: 1, 0.020506777944570242: 1, 0.02050637721869865: 1, 0.020506148440400693: 1, 0.02050217616097427: 1, 0.02049560536717996: 1, 0.02048971648706228: 1, 0.020489551581097082: 1, 0.020483415545748795: 1, 0.020480946287878648: 1, 0.020480541292800167: 1, 0.020474699087677177: 1, 0.020474030236743254: 1, 0.020470683149594285: 1, 0.020469345914139563: 1, 0.02046626368647014: 1, 0.020454206689371302: 1, 0.020453612473337688: 1, 0.02045168165870064: 1, 0.020449875939853403: 1, 0.020446736994964437: 1, 0.02044165364532723: 1, 0.020439152081730416: 1, 0.020439141932160787: 1, 0.02043714025592138: 1, 0.020436734365081102: 1, 0.02043429456009989: 1, 0.020432596836006636: 1, 0.02043230226902161: 1, 0.02043142703728487: 1, 0.020430013715230434: 1, 0.02042108243685336: 1, 0.020419200957869064: 1, 0.020418287254423226: 1, 0.020418279941289794: 1, 0.020416584003856698: 1, 0.020409176958278173: 1, 0.020404479646356076: 1, 0.02039840878112615: 1, 0.02039223561425979: 1, 0.0203824197952298: 1, 0.020388050671359632: 1, 0.02038778738679087: 1, 0.02038197274023477: 1, 0.020374428354867292: 1, 0.020364977538402326: 1, 0.020359365420698827: 1, 0.02035388569673365: 1, 0.02034989530441048: 1, 0.020343534606155428: 1, 0.020343459891482184: 1, 0.020336859081904968: 1, 0.020325799452263284: 1, 0.02031434464434185: 1, 0.020309014020861764: 1, 0.020305290048116337: 1, 0.020297679561392255: 1, 0.02029742180326972: 1, 0.020296594435808845: 1, 0.0202961010200427: 1, 0.020295056576859094: 1, 0.02029250707330714: 1, 0.020280693196569166: 1, 0.02027789684147966: 1, 0.020270882368190635: 1, 0.020266776572288696: 1, 0.020264051900569322: 1, 0.020260851444486846: 1, 0.020256264694068535: 1, 0.02023832109797004: 1, 0.020235066515396895: 1, 0.02023414485768195: 1, 0.020233315096759713: 1, 0.020231822119349808: 1, 0.02023164042664284: 1, 0.020229341276137534: 1, 0.02022703557893637: 1, 0.020226435233861806: 1, 0.020219304029789248: 1, 0.02021610976624362: 1, 0.020205989377670534: 1, 0.02020265959645339: 1, 0.02020081293866392: 1, 0.020200131925278437: 1, 0.02020005928024027: 1, 0.020199684256854606: 1, 0.020199390036868423: 1, 0.02019662761071514: 1, 0.020196603919223025: 1, 0.020193244367140675: 1, 0.020192088126862462: 1, 0.020187675895892716: 1, 0.02018584563404207: 1, 0.020174833882125626: 1, 0.020174589012408765: 1, 0.020174402188041028: 1, 0.02016518987267453: 1, 0.020158966717054076: 1, 0.020155431185103805: 1, 0.020150160861057115: 1, 0.02014955369007673: 1, 0.02014884005672713: 1, 0.02014635343565615: 1, 0.02013855685491859: 1, 0.020138033117993434: 1, 0.020135850670540717: 1, 0.020134403937635256: 1, 0.02013392387301123: 1, 0.02013033650156683: 1, 0.020119908739483376: 1, 0.02011856453684603: 1, 0.020116950176092697: 1, 0.02011684593236787: 1, 0.02011036145210758: 1, 0.020109637315152886: 1, 0.020104097738222616: 1, 0.02010228206385498: 1, 0.020101066130327083: 1, 0.020098640947618145: 1, 0.02009679315050107: 1, 0.02009538667322863: 1, 0.020092447482305535: 1, 0.02009075219857043: 1, 0.02008994805532406: 1, 0.020089333360056957: 1, 0.020088761424319777: 1, 0.020085796228471474: 1, 0.020080578845283928: 1, 0.02007540836669654: 1, 0.020074428033979505: 1, 0.02007307107594896: 1, 0.02007051625751677: 1, 0.02006688761938827: 1, 0.02006672142390555: 1, 0.020062046393068123: 1, 0.020058041161171904: 1, 0.02004906832328709: 1, 0.020042326095841247: 1, 0.020041081836277133: 1, 0.02002677186215884: 1, 0.020024652671066998: 1, 0.020023849510555587: 1, 0.0200161897415882: 1, 0.02000764569457342: 1, 0.02000177630736154: 1, 0.01999869549706909: 1, 0.019996751212906217: 1, 0.019996338174550776: 1, 0.01999467722024537: 1, 0.01999413199853163: 1, 0.01999334238091059: 1, 0.019990543379238147: 1, 0.019990117386297853: 1, 0.019990104924463792: 1, 0.01998681670227173: 1, 0.01998641604901228: 1, 0.019982123733531105: 1, 0.019980494222993972: 1, 0.019978701632674935: 1, 0.01997525585339395: 1, 0.0199640739689013: 1, 0.01996603895210044: 1, 0.019958857911265764: 1, 0.019954733307028516: 1, 0.01995275025283305: 1, 0.019944472082558007: 1, 0.019936722967793887: 1, 0.019932071867859134: 1, 0.01992538139263524: 1, 0.019923291585935157: 1, 0.019921752152244388: 1, 0.019917639239571194: 1, 0.01991232399945231: 1, 0.019893510146620202: 1, 0.019893189417659135: 1, 0.01989230487852041: 1, 0.019891816907004714: 1, 0.019891017669184004: 1, 0.019885090767891623: 1, 0.019880029779117493: 1, 0.0198796056002210062: 1, 0.01987700020020120115: 1, 0.01987220010001010105: 1, 0.0198716005071714267.

1, 0.019869596314226495: 1, 0.0198677663700499: 1, 0.019866716966943126: 1, 0.01986230841872288: 1, 0.019857795913480858: 1, 0.019853915683452794: 1, 0.019851670972378797: 1, 0.019847417147537405: 1, 0.01984239078600543: 1, 0.01984117826166782: 1, 0.0198307085134369: 1, 0.019827286556053265: 1, 0.019824227125265433: 1, 0.01981849961030303: 1, 0.019811276318455855: 1, 0.019805336495943134: 1, 0.019803778655701612: 1, 0.019803157812925028: 1, 0.019800917204679497: 1, 0.019797797441272275: 1, 0.01978839203346611: 1, 0.019787454431536265: 1, 0.019775852198509903: 1, 0.019774870667670228: 1, 0.019772542811665725: 1, 0.01976668416582561: 1, 0.01976312553377867: 1, 0.019755221431657158: 1, 0.01975446098765203: 1, 0.019749956453457534: 1, 0.019747823081528837: 1, 0.01974740490706328: 1, 0.01974530173939238: 1, 0.019745276378537062: 1, 0.01974265356746878: 1, 0.01974145842608339: 1, 0.019741000168406388: 1, 0.0197403130597384: 1, 0.019739112480793915: 1, 0.019737392687278525: 1, 0.01973470874007006: 1, 0.019728895623312266: 1, 0.01972467002970089: 1, 0.019723795342834916: 1, 0.01971840024369423: 1, 0.019716677132947204: 1, 0.019715749944896468: 1, 0.01971383988333223: 1, 0.01971133216199944: 1, 0.01971061246014172: 1, 0.019710267266603007: 1, 0.01970934250553689: 1, 0.019698497834370353: 1, 0.019694519410171824: 1, 0.01969403639322808: 1, 0.019691630592678363: 1, 0.019686074847003604: 1, 0.01967590611397916: 1, 0.019673961800367425: 1, 0.019672658162011927: 1, 0.019672644000325156: 1, 0.019668142147952674: 1, 0.019667057072754398: 1, 0.01966510852589261: 1, 0.019665080784842162: 1, 0.019664540470541322: 1, 0.01964421937014922: 1, 0.019637454288577296: 1, 0.019636232426531508: 1, 0.019635797560884093: 1, 0.01963506566403096: 1, 0.0196326138630929: 1, 0.019631548372163275: 1, 0.019623642554169703: 1, 0.01962358042012823: 1, 0.019622382651145714: 1, 0.019619995542742026: 1, 0.019618743979435423: 1, 0.019614307124758056: 1, 0.019612261742545708: 1, 0.019604870359571158: 1, 0.019597418084408853: 1, 0.01959727599416909: 1, 0.019591643927778568: 1, 0.0195873191032552: 1, 0.019585450459610847: 1, 0.019585244314981917: 1, 0.019583254890533933: 1, 0.019581767241761038: 1, 0.019581518511220974: 1, 0.01957401198273704: 1, 0.019571305250150682: 1, 0.019568733506296107: 1, 0.019567880922520334: 1, 0.019560659224663608: 1, 0.019558943232451026: 1, 0.01953876937186425: 1, 0.019534668172763905: 1, 0.019530373558044354: 1, 0.019528851575503325: 1, 0.019520374366400396: 1, 0.019515742261342048: 1, 0.01951287949367016: 1, 0.01951284680775641: 1, 0.01950538264534544: 1, 0.01950014968720353: 1, 0.019497079463154186: 1, 0.019493797911060186: 1, 0.019479644752383868: 1, 0.01947867836931627: 1, 0.019475434293549573: 1, 0.019475184056148266: 1, 0.01947430079988756: 1, 0.019464759300674095: 1, 0.01946048644893498: 1, 0.019455419107441342: 1, 0.019449921966910252: 1, 0.01944573975286346: 1, 0.019444252222062648: 1, 0.019441308717028743: 1, 0.019436727983038173: 1, 0.019433321925427093: 1, 0.01942758984018647: 1, 0.019425277281800542: 1, 0.019422249428140036: 1, 0.019412069674520388: 1, 0.019394431956250978: 1, 0.019392163091192755: 1, 0.01938852140543933: 1, 0.019385803924073963: 1, 0.019379644975791054: 1, 0.019379559071796428: 1, 0.019379051850400827: 1, 0.019377645391200578: 1, 0.019375986039956276: 1, 0.019375449639729616: 1, 0.019373038296350283: 1, 0.019371883927715276: 1, 0.019371113322511773: 1, 0.01936863721229986: 1, 0.01936786650622192: 1, 0.019362184632505913: 1, 0.019360478793359785: 1, 0.019354330592738958: 1, 0.019351636495841297: 1, 0.01935009098361791: 1, 0.019348704000069328: 1, 0.019345259522762025: 1, 0.019344646738707266: 1, 0.019334276417796864: 1, 0.01932876380087102: 1, 0.019327654739441577: 1, 0.01932651761890082: 1, 0.019324859941055168: 1, 0.019323128542912786: 1, 0.019313174995136247: 1, 0.01930795607345522: 1, 0.019304714935864088: 1, 0.019302747833218586: 1, 0.019300747957718502: 1, 0.019299857694137286: 1, 0.01929706399887713: 1, 0.019297024045453096: 1, 0.019296062546214965: 1, 0.019286453226346527: 1, 0.01928588141553906: 1, 0.01928203384007689: 1, 0.01927447061755505: 1, 0.01927205447925486: 1, 0.019268728927790107: 1, 0.019266008581199118: 1, 0.019264521938453315: 1, 0.019260734595223702: 1, 0.019259129834570347: 1, 0.019258854257604596: 1, 0.019256412992435287: 1, 0.019251382366614916: 1, 0.019242200867093506: 1, 0.019235299044354295: 1, 0.019235204060350505: 1, 0.0192340420668366: 1, 0.019230386821096557: 1, 0.01923008310881777: 1, 0.019225164764855973: 1, 0.019220519705165744: 1, 0.019218696828634325: 1, 0.019218494252474735: 1, 0.019218007996343493: 1, 0.019204418024423766: 1, 0.019203007850889298: 1, 0.01920174356647733: 1, 0.01920159600035879: 1, 0.019196614884960165: 1, 0.019195611040589842: 1, 0.01919073990595234: 1, 0.01918727672853336: 1, 0.019185658965449576: 1, 0.019184809198054285: 1, 0.0191821984474509: 1, 0.01917999399767694: 1, 0.019173211508500602: 1, 0.01917101274350183: 1, 0.019165297110837403: 1, 0.019159393178249592: 1, 0.01915733013865597: 1, 0.019155254783349993: 1, 0.019154565625529649: 1, 0.019152686148628605: 1, 0.019144992332711237: 1, 0.019142392856418323: 1, 0.019140319014217717: 1, 0.01913260537718312: 1, 0.0191320729701788: 1, 0.01912855885494693: 1, 0.01910960457548294: 1, 0.019105098384209814: 1, 0.019101530758187508: 1, 0.019097361967962093: 1, 0.019095472501203224: 1, 0.01909324531229102: 1, 0.019089632114359687: 1, 0.019089437698286665: 1, 0.01908864386713021: 1, 0.019057311718391073: 1, 0.01905311920309173: 1, 0.01905047803395074: 1, 0.019047500722069087: 1, 0.01903680347604141: 1, 0.01902696183488327: 1, 0.01902421883172966: 1, 0.019020309537416815: 1, 0.019015674456996617: 1, 0.01901510598263595: 1, 0.01901391756057904: 1, 0.019013379346195444: 1, 0.019010814573389948: 1, 0.019004254252388705: 1, 0.018996991533351233: 1, 0.018995427902568574: 1, 0.018994056687845238: 1, 0.0189936631027912: 1, 0.01899127157430852: 1, 0.01898976512583363: 1, 0.018988227139237923: 1, 0.018980957138456024: 1, 0.01898000704834148: 1, 0.018969473473378455: 1, 0.01896754916274043: 1, 0.018957910995431374: 1, 0.018955668113447847: 1, 0.01895206287434742: 1, 0.01895140620104419: 1, 0.01894754358886453: 1, 0.018941327799035405: 1, 0.018941236602500935: 1, 0.01894051295357243: 1, 0.018935806310896815: 1, 0.018931095002218644: 1, 0.01893027262187508: 1, 0.018929358297429137: 1, 0.01892619793999885: 1, 0.018922035568841904: 1, 0.01891823315985576: 1, 0.018916923727832092: 1, 0.018915442060989437: 1, 0.01891093217316768: 1, 0.01890818966729862: 1, 0.01890365962406689: 1, 0.018903483535146672: 1, 0.01890323512256889: 1, 0.018900656874260534: 1, 0.018900556001836672: 1, 0.018899750518293925: 1, 0.018895784565822832: 1, 0.01889554192468926: 1, 0.01889416844683538: 1, 0.018892845437364872: 1, 0.018891599866122894: 1, 0.018890472581980955: 1, 0.01888859910520018: 1, 0.018888243924777892: 1, 0.018887569875019647: 1, 0.018880796466966172: 1, 0.0188870481175026828: 1, 0.0188870314982789342: 1, 0.018868809743470147: 1, 0.018867958605070522: 1, 0.018860108990046597: 1, 0.018858612939031447: 1, 0.018857419243881228: 1, 0.018848124619558964: 1, 0.0188436952700140727: 1, 0.01883572026014462: 1, 0.0188325521720652817: 1, 0.0188220770725232112: 1, 0.01882140144161207: 1, 0.01882120200015162662: 1

0.018827860886894473: 1, 0.018826951458727807: 1, 0.01882441710010563: 1, 0.01882415714590051: 1, 0.018823629128002225: 1, 0.018823590376529708: 1, 0.018821659440439613: 1, 0.01881332511589705: 1, 0.018811783382347375: 1, 0.01880454297072052: 1, 0.018796621895474614: 1, 0.0187962299071333507: 1, 0.01879247723758669: 1, 0.018790805923130132: 1, 0.01878893592724698: 1, 0.01878308807739812: 1, 0.0187776668070832: 1, 0.018773538957411788: 1, 0.01877338809002423: 1, 0.018772369173034775: 1, 0.018771346498264025: 1, 0.018769431420718498: 1, 0.018767363373757028: 1, 0.018758424539735218: 1, 0.01875798899998349: 1, 0.018751389404781552: 1, 0.018751285842750497: 1, 0.018748349589458372: 1, 0.01874392112283223: 1, 0.018742890049834572: 1, 0.018740630613309384: 1, 0.01873893668576323: 1, 0.01872837473347523: 1, 0.018725890912982622: 1, 0.01872133631036916: 1, 0.018721334150111506: 1, 0.018718599082596297: 1, 0.01871234648437963: 1, 0.0187114849556687: 1, 0.01870510301981739: 1, 0.01870439272147965: 1, 0.0186933392813148: 1, 0.018693297415050405: 1, 0.018688898935430662: 1, 0.018686694788124326: 1, 0.01868237544175332: 1, 0.018679531534665554: 1, 0.018674960197885934: 1, 0.018669155600422073: 1, 0.018663749839468634: 1, 0.018660906288475356: 1, 0.01866069609522559: 1, 0.018659277949538543: 1, 0.018657079621047838: 1, 0.01865693018800227: 1, 0.018654196227880553: 1, 0.018648172901734407: 1, 0.018647301189640704: 1, 0.018646951792847175: 1, 0.018639837079033123: 1, 0.018637498580604633: 1, 0.018634760591998603: 1, 0.018628943073122635: 1, 0.018626132071697582: 1, 0.01862575848648539: 1, 0.018622437765086063: 1, 0.018618959378141633: 1, 0.018611025325711995: 1, 0.018609685581042378: 1, 0.018606608264423334: 1, 0.01860463748036957: 1, 0.01860213671527279: 1, 0.018600863391430647: 1, 0.018600575157422056: 1, 0.01859675000549227: 1, 0.018593032056591602: 1, 0.018587919924496706: 1, 0.018585753745052475: 1, 0.01858214094102515: 1, 0.0185658777720573: 1, 0.01855240432172748: 1, 0.018538500603911396: 1, 0.01853184947685696: 1, 0.018530337962629807: 1, 0.018526274144277863: 1, 0.018521439935216828: 1, 0.018521339847940632: 1, 0.018517279604962886: 1, 0.01851644292611793: 1, 0.01850663074697484: 1, 0.018503682049262365: 1, 0.0184994388514091: 1, 0.018495946039272012: 1, 0.018494766221955852: 1, 0.018490244104723053: 1, 0.01848671583384383: 1, 0.01848472893549289: 1, 0.018483486449809648: 1, 0.01847913527797466: 1, 0.018466949345119922: 1, 0.018465031960973745: 1, 0.018460198691993817: 1, 0.018458713866201445: 1, 0.01844612631418703: 1, 0.018444100767961387: 1, 0.018443980007549758: 1, 0.018437118659205533: 1, 0.01843563989991121: 1, 0.018434660827579524: 1, 0.01843399102139475: 1, 0.01843156504325436: 1, 0.01842880105993846: 1, 0.018423443617242352: 1, 0.01842062835834126: 1, 0.01842029080463273: 1, 0.018418836334314286: 1, 0.018417249945332934: 1, 0.018417039372032477: 1, 0.01841665203926168: 1, 0.018409213571575184: 1, 0.018403781534442637: 1, 0.01840114247703045: 1, 0.018400485442061975: 1, 0.018393652665205557: 1, 0.018390662991991782: 1, 0.018389518822252166: 1, 0.01838340926445068: 1, 0.018377155556892923: 1, 0.01837479499374504: 1, 0.018372241808523357: 1, 0.01836955478900929: 1, 0.018367960434160346: 1, 0.018360518639783267: 1, 0.018357245416791332: 1, 0.018356836302058165: 1, 0.018354165619652987: 1, 0.018344014790138325: 1, 0.018334690887041993: 1, 0.018334409113576648: 1, 0.018333772510776367: 1, 0.01832161550657576: 1, 0.018317761273338826: 1, 0.018311260971101556: 1, 0.01830459328919777: 1, 0.018303892128682147: 1, 0.01830284795411534: 1, 0.018301012455423385: 1, 0.018298475680849642: 1, 0.018294835862405493: 1, 0.018291576317151836: 1, 0.018290757790412577: 1, 0.018284311837222553: 1, 0.018283041526415696: 1, 0.018282161487890664: 1, 0.018279110264991474: 1, 0.01827612344286154: 1, 0.018275424646129867: 1, 0.018272114273288682: 1, 0.01826523022562221: 1, 0.01826338048720226: 1, 0.018263305210548118: 1, 0.018261155814818974: 1, 0.01825970738200339: 1, 0.018256716109059976: 1, 0.018253898353475583: 1, 0.018252044280780654: 1, 0.018239716311479165: 1, 0.018238498315700097: 1, 0.01823416993032534: 1, 0.018233104030959197: 1, 0.018230716770803485: 1, 0.018225113757575795: 1, 0.018223864394824454: 1, 0.018223140914867694: 1, 0.018219046154409307: 1, 0.01821614149891511: 1, 0.01821130539469384: 1, 0.018210453319809: 1, 0.018209824894887244: 1, 0.01820495822798792: 1, 0.018202615414834505: 1, 0.01820098629157626: 1, 0.018197559810205724: 1, 0.01818558700562757: 1, 0.018173075188690685: 1, 0.01816566510236179: 1, 0.018165058520868277: 1, 0.0181626917347269: 1, 0.018162328723127136: 1, 0.018161035475231544: 1, 0.018159668316623426: 1, 0.018156801221992654: 1, 0.018155469265820304: 1, 0.018150749580911372: 1, 0.01814849214237908: 1, 0.01814185677326948: 1, 0.018134179702247323: 1, 0.018134127833935434: 1, 0.018131544761276937: 1, 0.01813144733246451: 1, 0.01812973330340038: 1, 0.018127985254553135: 1, 0.01812476622195931: 1, 0.018124684799110058: 1, 0.01812096615663256: 1, 0.018104409843754058: 1, 0.018095385241971403: 1, 0.01809511473353058: 1, 0.018090813847715513: 1, 0.01808705688616393: 1, 0.0180851912717179484: 1, 0.01808252543985947: 1, 0.018075974562724247: 1, 0.018075462938348975: 1, 0.01807436870051231: 1, 0.018073855302668765: 1, 0.018073436855250445: 1, 0.018069461468644805: 1, 0.018065600913054706: 1, 0.018065429213046925: 1, 0.018061679680469452: 1, 0.018061193524056454: 1, 0.018057086683013295: 1, 0.01805105440329323: 1, 0.018047455527871268: 1, 0.01804717621875767: 1, 0.018042940149040523: 1, 0.018036639419881803: 1, 0.018036443237091478: 1, 0.018031316758935836: 1, 0.018029460233805757: 1, 0.018027107796873654: 1, 0.018024234972599213: 1, 0.018022694694121735: 1, 0.018015701414908977: 1, 0.018010823627299034: 1, 0.018008071776317486: 1, 0.01800176700910293: 1, 0.01799835687785699: 1, 0.0179864116167713: 1, 0.01798730379591464: 1, 0.0179871555724681: 1, 0.01798452030902704: 1, 0.017962371659157577: 1, 0.017956580376425106: 1, 0.017952830472441585: 1, 0.017937423822215703: 1, 0.01793587356524544: 1, 0.017932251774163875: 1, 0.017928756189342167: 1, 0.017922545927313918: 1, 0.01791055505793722: 1, 0.017909946654257203: 1, 0.017902282797239856: 1, 0.017898808851078654: 1, 0.017895920801993967: 1, 0.017893530296786704: 1, 0.01789330751044152: 1, 0.017888294402105293: 1, 0.017887922593981124: 1, 0.01787767284656349: 1, 0.01787180263570365: 1, 0.017867231444883745: 1, 0.017865760337592785: 1, 0.01786090648197861: 1, 0.01786036822937128: 1, 0.017858330995319117: 1, 0.017858220041734454: 1, 0.017856561397373568: 1, 0.01785290892949797: 1, 0.017852822286978726: 1, 0.017851692131679635: 1, 0.017845933398919565: 1, 0.01784308469665245: 1, 0.017840676414761635: 1, 0.017834807781909774: 1, 0.01783298953766574: 1, 0.017829291865998152: 1, 0.01782824082724144: 1, 0.0178247825113081: 1, 0.017823166005952438: 1, 0.017821778065643574: 1, 0.01782168914231513: 1, 0.017819212766448916: 1, 0.01781038140881603: 1, 0.01780017541683348: 1, 0.017799763224413713: 1, 0.0177985386479697: 1, 0.017794444822261883: 1, 0.017793415384784652: 1, 0.017786623235007506: 1, 0.017783787827510868: 1, 0.01777869336919902: 1, 0.017766052104695527: 1, 0.017769776914536798: 1, 0.0177642609985117: 1, 0.01776536951285224: 1, 0.01776473233428974: 1, 0.01776247145415055: 1, 0.017762204868502017: 1, 0.017761408788406225: 1, 0.01775602662622015: 1, 0.01775202662622015: 1, 0.017741612610520074: 1, 0.01774140252005247

1, 0.011159366106238815: 1, 0.01115886222150013: 1, 0.011148180195590/4: 1, 0.01114144285382534: 1, 0.0177412836287621: 1, 0.017740153716303206: 1, 0.017733485169230036: 1, 0.01772143162747538: 1, 0.017720908895799817: 1, 0.017718413589032363: 1, 0.017712887776008747: 1, 0.017711816884835602: 1, 0.017708082548022308: 1, 0.017704812086043374: 1, 0.01770454835858263: 1, 0.01770091086810045: 1, 0.017696601366943992: 1, 0.017694906342688128: 1, 0.01768953091443128: 1, 0.017678955021980292: 1, 0.017674870396356294: 1, 0.017673559083217393: 1, 0.017673101634185177: 1, 0.017672524297275234: 1, 0.01766795796726135: 1, 0.01766568603261344: 1, 0.01765998257902033: 1, 0.017658098645876235: 1, 0.017654735512108118: 1, 0.01765263339591233: 1, 0.017651571367619807: 1, 0.017648746284758654: 1, 0.017644593377842674: 1, 0.0176407752275608: 1, 0.01762923582916186: 1, 0.017623341007117068: 1, 0.01762024822030559: 1, 0.017619322589653565: 1, 0.017618331295270673: 1, 0.017618171767745477: 1, 0.017608230771400342: 1, 0.017607591250028694: 1, 0.01760467524533454: 1, 0.017604514930124743: 1, 0.017598240481337: 1, 0.017585895244595327: 1, 0.01758122018237414: 1, 0.017574130153504692: 1, 0.017574069716597227: 1, 0.017572454722001838: 1, 0.017569997798184387: 1, 0.01756905129273248: 1, 0.01756790827087404: 1, 0.01756522119762286: 1, 0.017557161533255736: 1, 0.017556031111826832: 1, 0.017550231830534866: 1, 0.017547914327803935: 1, 0.017546402961621577: 1, 0.017545098428212724: 1, 0.01754380445511935: 1, 0.017542674858707655: 1, 0.017540739143282278: 1, 0.01753529820488202: 1, 0.017533705109284092: 1, 0.01753187981097771: 1, 0.0175288879152721: 1, 0.017526229486736926: 1, 0.017525123475580117: 1, 0.01752446797942495: 1, 0.017524172508207383: 1, 0.01752377068861855: 1, 0.0175169919452142: 1, 0.017513850229252982: 1, 0.017513674934050365: 1, 0.017511445995906025: 1, 0.017504091620044328: 1, 0.017499315348024347: 1, 0.017496242543221456: 1, 0.017493083625092394: 1, 0.017489327804308036: 1, 0.017482764553472863: 1, 0.0174819677686011: 1, 0.01748084869350611: 1, 0.01747273071721781: 1, 0.0174696838394809: 1, 0.017462843398654282: 1, 0.017462638832644914: 1, 0.017461686968981725: 1, 0.01746035142015608: 1, 0.01745420832817211: 1, 0.017453991142151105: 1, 0.01745388127193552: 1, 0.017453110659587066: 1, 0.01745241856515327: 1, 0.01744514901601741: 1, 0.017437233576522347: 1, 0.017431759982840987: 1, 0.017422802425883954: 1, 0.017422716035709537: 1, 0.01742047275036369: 1, 0.01741971105881785: 1, 0.017415367224518863: 1, 0.01741330263358832: 1, 0.01740565309096434: 1, 0.017403806797714923: 1, 0.017403511210410904: 1, 0.017403401882569326: 1, 0.017401330242262838: 1, 0.017398530318294865: 1, 0.01739291920767046: 1, 0.017387247674985055: 1, 0.017385722794268307: 1, 0.01738264567083206: 1, 0.017380501137268495: 1, 0.01737543013753634: 1, 0.0173666459267251: 1, 0.017361794296943178: 1, 0.01735420047210591: 1, 0.017352906964243957: 1, 0.01735273358293065: 1, 0.01734244246066597: 1, 0.01734192180917221: 1, 0.017339537458906325: 1, 0.017335830856974953: 1, 0.017328663957288513: 1, 0.017327992625643808: 1, 0.017323501467124514: 1, 0.017321529160216457: 1, 0.017314876558726777: 1, 0.01730681417296976: 1, 0.017306348388980722: 1, 0.01730596659821481: 1, 0.01730381994515342: 1, 0.01730248948392916: 1, 0.01730194014559845: 1, 0.01729573231862182: 1, 0.017295536514478717: 1, 0.017293204797060986: 1, 0.017287906371419175: 1, 0.017283393171361176: 1, 0.017278659053184337: 1, 0.017278440490348664: 1, 0.01727594565749541: 1, 0.017268489604708632: 1, 0.017266677620459664: 1, 0.01726096348812409: 1, 0.017260344613885432: 1, 0.017258762975723884: 1, 0.017257475074623538: 1, 0.01725254685777657: 1, 0.01724812527558171: 1, 0.017246952730111332: 1, 0.017237755909313576: 1, 0.017233001411291013: 1, 0.017232355641588308: 1, 0.01723173722942267: 1, 0.017228115092879144: 1, 0.01722659079733032: 1, 0.017225256258603907: 1, 0.017221458566987383: 1, 0.017218645101872376: 1, 0.017215831225123844: 1, 0.0172125285317683: 1, 0.01720866824852467: 1, 0.017194911729027543: 1, 0.01719450746576567: 1, 0.01719285092051374: 1, 0.017191830828547177: 1, 0.01718926622014625: 1, 0.01718786225999865: 1, 0.017174348085310303: 1, 0.017170726529223204: 1, 0.017161722525645216: 1, 0.017161311735389824: 1, 0.017160224416958095: 1, 0.0171554213509812: 1, 0.0171532333821902: 1, 0.01714479480295477: 1, 0.01714199610407242: 1, 0.017140536804321708: 1, 0.017137565424163934: 1, 0.01713671851591927: 1, 0.01713419288668961: 1, 0.01713445961820313: 1, 0.01712945520322106: 1, 0.01712765707191669: 1, 0.017117552739473: 1, 0.01711733405500237: 1, 0.01711344122017258: 1, 0.017111773724718917: 1, 0.01710830246936167: 1, 0.017101169010895874: 1, 0.01709754056815924: 1, 0.017090302131905644: 1, 0.01708895916557264: 1, 0.017088763458743654: 1, 0.01708430195238573: 1, 0.017082822150170398: 1, 0.017079138456776367: 1, 0.01707683101526726: 1, 0.017072354786675244: 1, 0.017071535753685252: 1, 0.01706323796338123: 1, 0.01705133083247807: 1, 0.017050014593186086: 1, 0.01704888165138791: 1, 0.0170487035820493: 1, 0.017048019881317322: 1, 0.017047991713466118: 1, 0.017041768283882704: 1, 0.01703821661125171: 1, 0.017037250037486643: 1, 0.0170369922448949: 1, 0.01703508933268381: 1, 0.017022595510487903: 1, 0.017020254966485127: 1, 0.017018859848321178: 1, 0.017011468159761747: 1, 0.016995989637781796: 1, 0.016995315725927468: 1, 0.016990826184510466: 1, 0.016981773675748234: 1, 0.01697857115493365: 1, 0.016975300035638602: 1, 0.016974675012003546: 1, 0.01696462012901177: 1, 0.016962420184169567: 1, 0.01695448281461461: 1, 0.01694556251248865: 1, 0.016945064526892623: 1, 0.016944714213957997: 1, 0.016942192250379132: 1, 0.016939689018660366: 1, 0.016939308774474044: 1, 0.016932996091737554: 1, 0.016924886456816498: 1, 0.01690963816096734: 1, 0.016906700214049015: 1, 0.016901644151425053: 1, 0.016897427864590874: 1, 0.016886472529390257: 1, 0.01688387806306722: 1, 0.016871990061580994: 1, 0.016869427646829718: 1, 0.016869187373174593: 1, 0.016868174888558404: 1, 0.016865716948188347: 1, 0.01686440368082845: 1, 0.016847594203696338: 1, 0.01683843736468398: 1, 0.016832066996884457: 1, 0.016830944925527974: 1, 0.016829903716593212: 1, 0.016829621735545176: 1, 0.01682867644231444: 1, 0.016825824065426993: 1, 0.016819512298267773: 1, 0.016815568937068814: 1, 0.016814819937658307: 1, 0.016812371735845412: 1, 0.01681107414034287: 1, 0.016804342851040904: 1, 0.016792843198605283: 1, 0.016780253320070264: 1, 0.016774645300073273: 1, 0.016769142625838198: 1, 0.016767392140175315: 1, 0.016760825832967594: 1, 0.01676082891416186: 1, 0.016758986361193315: 1, 0.016737279811708642: 1, 0.016733150094946685: 1, 0.016721078483254596: 1, 0.01671652226203762: 1, 0.016714480291104495: 1, 0.016713666256542088: 1, 0.016711910417572584: 1, 0.01670972899286779: 1, 0.01670899858507638: 1, 0.01670840596380116: 1, 0.016705339999105805: 1, 0.016705135893882086: 1, 0.016702858433958405: 1, 0.01669388601238874: 1, 0.016692225482111363: 1, 0.016692106643538537: 1, 0.016688708351901664: 1, 0.01668793210294688: 1, 0.01668674299988236: 1, 0.016684900851327136: 1, 0.016684459170441635: 1, 0.016680128493580137: 1, 0.01666304993736264: 1, 0.016657180965360625: 1, 0.016644068967163334: 1, 0.0166363944515687: 1, 0.016628098524245807: 1, 0.016619209897042752: 1, 0.016616899949769268: 1, 0.016613328118508096: 1, 0.016606335559283844: 1, 0.016600365495345007: 1, 0.01660024891118474: 1, 0.01659194203975403: 1

, 0.016576891530638505: 1, 0.016576884329728772: 1, 0.016567809195776596: 1, 0.016566459468583632: 1, 0.01656466119628954: 1, 0.016562330760589633: 1, 0.016558984595968336: 1, 0.01655716951770352: 1, 0.016548720292860277: 1, 0.016538068759218497: 1, 0.016536595862198942: 1, 0.016536335406538753: 1, 0.016525312495303: 1, 0.016524844978160473: 1, 0.016521185594446652: 1, 0.01651783957596672: 1, 0.01650722175327901: 1, 0.016504977050451352: 1, 0.016501560483019807: 1, 0.01649895899549754: 1, 0.016492131752948953: 1, 0.01648189530491393: 1, 0.016478400688025002: 1, 0.016477683790915895: 1, 0.016474904867710156: 1, 0.016466636094113522: 1, 0.016465785705280497: 1, 0.016463167585650366: 1, 0.016462447530006204: 1, 0.016457658506084796: 1, 0.01645525612366272: 1, 0.01644732178196341: 1, 0.0164468712700856: 1, 0.016444535573285735: 1, 0.0164428555228712: 1, 0.01643744999992894: 1, 0.01643099695157481: 1, 0.016424005366779945: 1, 0.016423967065070516: 1, 0.016419913564543677: 1, 0.016418925020454982: 1, 0.016418576214789857: 1, 0.016415618876558728: 1, 0.01641366740948677: 1, 0.01640771921607111: 1, 0.016407119664227577: 1, 0.01640358172952512: 1, 0.016398033530196213: 1, 0.016396451377507996: 1, 0.0163854621258468: 1, 0.01638471419298625: 1, 0.01638369258576463: 1, 0.016373038061744727: 1, 0.016365092786468825: 1, 0.01636077584012391: 1, 0.016359293853014115: 1, 0.016358680304669523: 1, 0.016352538060016235: 1, 0.016348663067027026: 1, 0.016344263321400317: 1, 0.016339831456898993: 1, 0.016337542968036207: 1, 0.01632818493299566: 1, 0.01631999585305107: 1, 0.016317144274606656: 1, 0.01631512796842091: 1, 0.016314026560827307: 1, 0.016313281821363372: 1, 0.016312301488149734: 1, 0.016310505344234207: 1, 0.01629962546073197: 1, 0.01628099370100666: 1, 0.016279041251863725: 1, 0.016274394158921044: 1, 0.01627259385501264: 1, 0.016271296424099232: 1, 0.01627091988432039: 1, 0.01626485596378035: 1, 0.016261705699826667: 1, 0.01625880264350571: 1, 0.016256034666964653: 1, 0.016254968656176705: 1, 0.016250844942627497: 1, 0.01625059295063877: 1, 0.01624643060624698: 1, 0.01623307293823327: 1, 0.01623299480511038: 1, 0.016231914672592232: 1, 0.016213329695923887: 1, 0.016211823090189932: 1, 0.0162087841643544: 1, 0.016206018667456516: 1, 0.016205398607070827: 1, 0.016204050122947834: 1, 0.01620202556097082: 1, 0.01619926165895136: 1, 0.016197202899178795: 1, 0.016194855089511816: 1, 0.016189814643633667: 1, 0.01618971950430049: 1, 0.016186241991844184: 1, 0.01617671891690907: 1, 0.01616906132806408: 1, 0.016163246568032176: 1, 0.016161858820273895: 1, 0.016155386470990782: 1, 0.01614679096293726: 1, 0.016144932935657774: 1, 0.01613463193390036: 1, 0.01612906967907491: 1, 0.016128975709998435: 1, 0.01612448873642857: 1, 0.01612392763589943: 1, 0.016123752804872403: 1, 0.016114012257321054: 1, 0.016113943016544: 1, 0.01611371826764709: 1, 0.016112382602312264: 1, 0.01611152462278794: 1, 0.01610205888235936: 1, 0.016093602806868362: 1, 0.01609000309800634: 1, 0.016083469587294237: 1, 0.01608032275808821: 1, 0.016078782196570534: 1, 0.01607658356307657: 1, 0.01607601314941305: 1, 0.016075055932062723: 1, 0.016070563163413258: 1, 0.016068797508536688: 1, 0.016064710693632085: 1, 0.01606341932479882: 1, 0.016062529532305327: 1, 0.016060512453937976: 1, 0.01604590981899767: 1, 0.016044239287911984: 1, 0.016037350985490764: 1, 0.016036133067142043: 1, 0.016032364205505606: 1, 0.01602760567776027: 1, 0.01602541268920968: 1, 0.016021227006469196: 1, 0.016016661564759182: 1, 0.01601276578174043: 1, 0.01600948607988513: 1, 0.01600536076157033: 1, 0.016003499315342756: 1, 0.01600305268463932: 1, 0.0159910446946774: 1, 0.015989489927298924: 1, 0.01598537211366452: 1, 0.01597891264168468: 1, 0.015976639389465308: 1, 0.015962397114666377: 1, 0.015957651938066843: 1, 0.0159570360374139: 1, 0.015956821685358398: 1, 0.015945846196082962: 1, 0.015945682721873165: 1, 0.01593944527127352: 1, 0.015937796763477178: 1, 0.0159311460042821: 1, 0.01592738326210527: 1, 0.015914823217333996: 1, 0.015911726882700376: 1, 0.015909715965877903: 1, 0.01590387358126914: 1, 0.01590201525051872: 1, 0.015899674281452614: 1, 0.015897098341015912: 1, 0.015896901410461923: 1, 0.01588765681004689: 1, 0.015881619097659207: 1, 0.015869403732810247: 1, 0.015861589064172277: 1, 0.01585285268837994: 1, 0.01584108242464152: 1, 0.015839637457033876: 1, 0.015829169194571672: 1, 0.01582680567848165: 1, 0.015820768547311577: 1, 0.0158144438985634: 1, 0.015812667563674426: 1, 0.015811017472835538: 1, 0.015809260600533094: 1, 0.015807980386989745: 1, 0.01580257557566057: 1, 0.015799849253803448: 1, 0.01579948797661146: 1, 0.0157954957385582: 1, 0.01579432864091017: 1, 0.0157915320054117: 1, 0.015786659230142386: 1, 0.015786473713388153: 1, 0.015775920210825627: 1, 0.015775248528807392: 1, 0.01576706809443021: 1, 0.015767007454455386: 1, 0.015755594852311615: 1, 0.015745367655718424: 1, 0.01574401728160086: 1, 0.01574081208972518: 1, 0.015734338358458128: 1, 0.01573335962298212: 1, 0.015730507383909267: 1, 0.01572858081616117: 1, 0.015721306711562594: 1, 0.01571464308752421: 1, 0.0157073402798527: 1, 0.015702215083842095: 1, 0.015701806021673745: 1, 0.015701292051294415: 1, 0.015701152693641036: 1, 0.015699005321688584: 1, 0.01569652517948056: 1, 0.015695700310090686: 1, 0.015695523518384: 1, 0.01569314176896671: 1, 0.015692015221309738: 1, 0.01569158931185225: 1, 0.015686698697980957: 1, 0.0156864370063379: 1, 0.015684002604957177: 1, 0.0156811578045105: 1, 0.015678883270611232: 1, 0.01567728119028519: 1, 0.015671691760460026: 1, 0.015668241807706776: 1, 0.01566666534910126: 1, 0.015659271978538475: 1, 0.015652202344767756: 1, 0.015651221268427277: 1, 0.01564785810741929: 1, 0.015646585001884948: 1, 0.015642037655726065: 1, 0.01563800558141085: 1, 0.015623823048393503: 1, 0.015621068812176618: 1, 0.015616812166007599: 1, 0.015616663963840621: 1, 0.015610940676081136: 1, 0.015610648591707374: 1, 0.015608090702175746: 1, 0.015605126305182165: 1, 0.015599600971540435: 1, 0.015583348654289186: 1, 0.015579230780767905: 1, 0.0155775877428053: 1, 0.015576495606845648: 1, 0.015576324418966468: 1, 0.015571107530395844: 1, 0.015559740691427173: 1, 0.01555954187378692: 1, 0.015550829822123571: 1, 0.01554825779029883: 1, 0.0155482310831579: 1, 0.015548201688714246: 1, 0.015544190637429279: 1, 0.015544039464901415: 1, 0.01553933253503708: 1, 0.015537766108688619: 1, 0.015536078501304094: 1, 0.015523932958839463: 1, 0.01551523861666444: 1, 0.015507822460110825: 1, 0.015502456913809273: 1, 0.015498190328234396: 1, 0.015497558672321813: 1, 0.015497179646215687: 1, 0.0154908247062885: 1, 0.015485234602798973: 1, 0.015468767069054708: 1, 0.015466409124047798: 1, 0.015465845286914356: 1, 0.015462998411604631: 1, 0.015462624659430628: 1, 0.015459873899304578: 1, 0.01545667523849932: 1, 0.01545229489013605: 1, 0.015447081827611975: 1, 0.015442369723923908: 1, 0.015434927075162377: 1, 0.015433306311470978: 1, 0.015426694369887525: 1, 0.015411554680976339: 1, 0.015407698933843072: 1, 0.015401950494677097: 1, 0.015400265020333127: 1, 0.015396927674990705: 1, 0.015393762910085308: 1, 0.015389574458448832: 1, 0.015389223651316414: 1, 0.015387005606069079: 1, 0.015386867891730605: 1, 0.015384850043139622: 1, 0.015384702087732648: 1, 0.015384194093262724: 1, 0.015376883760397704: 1, 0.015371121959935325: 1, 0.015370865766970039: 1, 0.015365108840552819: 1, 0.015364172197171792: 1, 0.015354463876325317: 1, 0.015350495926897337:

1, 0.015342275909721093: 1, 0.015340825187879378: 1, 0.015340050664336777: 1,  
0.015333147816840139: 1, 0.015331385759618059: 1, 0.015331066806728851: 1, 0.015328947417206227: 1  
, 0.015319304943624774: 1, 0.015317484057861437: 1, 0.015301523913332865: 1, 0.01529902032427006:  
1, 0.015285571650862086: 1, 0.015282044042758939: 1, 0.015280254272720242: 1,  
0.015274723121362011: 1, 0.015272573081030024: 1, 0.015269656491149652: 1, 0.01526884110259097: 1,  
0.015267978475118535: 1, 0.015267930205080613: 1, 0.015267139603572013: 1, 0.015262713960965672: 1  
, 0.015261133246381595: 1, 0.015248371559485033: 1, 0.015239836329596163: 1, 0.015238928517719415:  
1, 0.015235892908073558: 1, 0.015234670195395695: 1, 0.0152339783184329: 1, 0.01522877769086606:  
1, 0.015228454039788387: 1, 0.015225801352358945: 1, 0.015216595351685756: 1, 0.01521327382440838:  
1, 0.015205129014900506: 1, 0.015198617512832985: 1, 0.015196677329463327: 1,  
0.015170343710862462: 1, 0.0151697441495907: 1, 0.015164079280806715: 1, 0.015157342037778219: 1,  
0.015156308089822955: 1, 0.015147749651433133: 1, 0.015144478473599933: 1, 0.015143639752686865: 1  
, 0.015141209710701344: 1, 0.015138724756479833: 1, 0.015136671233488459: 1, 0.015132789443511402:  
1, 0.015132253261088148: 1, 0.015130721863906571: 1, 0.015125519401866683: 1,  
0.015125489994686967: 1, 0.01512446656782098: 1, 0.015123733876811651: 1, 0.01512111642256915: 1,  
0.015117516387491543: 1, 0.015105663010271199: 1, 0.015102208217076273: 1, 0.015101127101744622: 1  
, 0.015099353777276725: 1, 0.015094055035746066: 1, 0.01509239991228484: 1, 0.015092263972813887:  
1, 0.015080262654405614: 1, 0.0150767498172394: 1, 0.015066904869245749: 1, 0.015064562752038765:  
1, 0.01505828826535989: 1, 0.015056964613617538: 1, 0.015055512452045915: 1, 0.01505266318110732:  
1, 0.015051427919988501: 1, 0.015049654265014704: 1, 0.015045306271355878: 1,  
0.015036466624753695: 1, 0.01503308653564862: 1, 0.015024162095594897: 1, 0.015019757798785904: 1,  
0.015019553665670801: 1, 0.015018368226045574: 1, 0.015018059320257664: 1, 0.015016777613751994: 1  
, 0.01501391687313878: 1, 0.015003680230178689: 1, 0.014999332061352427: 1, 0.014979628323708385:  
1, 0.014978300908537773: 1, 0.014971163318225119: 1, 0.014970383467399668: 1,  
0.014962167731962555: 1, 0.014961699170046912: 1, 0.01496017164918675: 1, 0.014953941904449514: 1,  
0.01495362016914101: 1, 0.014950660734631646: 1, 0.014936488417935882: 1, 0.014927297128836557: 1,  
0.014914774216264727: 1, 0.01490092534658609: 1, 0.01489268396616051: 1, 0.014881582510644881: 1,  
0.01488156909381988: 1, 0.014879828462529464: 1, 0.014875340560770391: 1, 0.014875114255441033: 1,  
0.014873284385558867: 1, 0.014872798712233931: 1, 0.01487124891873893: 1, 0.014855030257001852: 1,  
0.014852038215218195: 1, 0.014839462001926488: 1, 0.014839279037333989: 1, 0.01483773124085071: 1,  
0.014837100086646985: 1, 0.014835906394161215: 1, 0.014831704237323079: 1, 0.014826873420874572: 1  
, 0.014826824498106374: 1, 0.014826144583715013: 1, 0.014822660133176862: 1, 0.014821213685107285:  
1, 0.014809463211325315: 1, 0.01480870743926712: 1, 0.014808232852220462: 1, 0.014806853284871822:  
1, 0.014801177601917275: 1, 0.01479970753701896: 1, 0.014790126922189426: 1, 0.014790087441344269:  
1, 0.014786716993989386: 1, 0.014771144701335094: 1, 0.01476695468246964: 1,  
0.014766713359183035: 1, 0.014758355023287812: 1, 0.014756049891947879: 1, 0.014749563299057696: 1  
, 0.014746539050712892: 1, 0.014746067695004757: 1, 0.014743491405065581: 1, 0.014742186182234149:  
1, 0.014742084660679668: 1, 0.01473682319569429: 1, 0.014727351696038287: 1, 0.014726529263460984:  
1, 0.014715644202136953: 1, 0.014701572696182504: 1, 0.014698576588920443: 1,  
0.014694690952081408: 1, 0.0146885627954364: 1, 0.014687792306209872: 1, 0.014678216020350167: 1,  
0.014670563421203351: 1, 0.014669852236909062: 1, 0.014665797825472789: 1, 0.014664794983646754: 1  
, 0.014664776121383186: 1, 0.014659775608303179: 1, 0.014654858503793: 1, 0.014651318994257888: 1,  
0.014645548383791923: 1, 0.014638941100199572: 1, 0.014637304417866391: 1, 0.014635786895102912: 1  
, 0.01462846047136631: 1, 0.014621695681393793: 1, 0.01461549558199327: 1, 0.014612534839297524: 1  
, 0.014611297174291481: 1, 0.014609289992815284: 1, 0.01460480815608283: 1, 0.01460124169793006: 1  
, 0.014591724363166437: 1, 0.014583065406460672: 1, 0.014581664629056055: 1, 0.014578549268456073:  
1, 0.014577389928232449: 1, 0.01457659643019438: 1, 0.014573688671256772: 1, 0.014565382565889753:  
1, 0.014556144784573625: 1, 0.01455146439213989: 1, 0.014545801858081214: 1, 0.01453934434620109:  
1, 0.014538583080280429: 1, 0.014529937212592103: 1, 0.014528352642023729: 1,  
0.014499568682453064: 1, 0.014499557494359487: 1, 0.014498141316122731: 1, 0.014495407593272343: 1  
, 0.014486718570947379: 1, 0.014483350906311962: 1, 0.014481357265616756: 1, 0.014467783308016215:  
1, 0.014463649185496051: 1, 0.014460043427026979: 1, 0.01444423071089449: 1, 0.014439490284012948:  
1, 0.014433421148650613: 1, 0.01442441029189345: 1, 0.014423246525201753: 1, 0.014421235211633228:  
1, 0.014414151941491508: 1, 0.0144139106633299: 1, 0.014412315458673657: 1, 0.014412259937455487:  
1, 0.014409071392147517: 1, 0.01440799033039665: 1, 0.014405357933663047: 1, 0.014401516210652133:  
1, 0.01439901076116511: 1, 0.014392969033522163: 1, 0.014390748927165055: 1, 0.014368029783990217:  
1, 0.014343988266472523: 1, 0.014340745951558577: 1, 0.014335374134075712: 1,  
0.014332347986528009: 1, 0.014325994246966262: 1, 0.014312641896068835: 1, 0.014310965637888126: 1  
, 0.014309807640756487: 1, 0.014297139542878541: 1, 0.014296057716256572: 1, 0.014294890766782878:  
1, 0.014279797492642007: 1, 0.014276810728802528: 1, 0.014275541218986543: 1, 0.01427210394997693:  
1, 0.014268096216993834: 1, 0.014264232648631366: 1, 0.014256178894070416: 1,  
0.014253081882723426: 1, 0.014252336622742709: 1, 0.014251220828408594: 1, 0.014249759146613554: 1  
, 0.014249716866020466: 1, 0.014241629586248566: 1, 0.014235909480995936: 1, 0.014235123284039275:  
1, 0.014231567756047317: 1, 0.014225299050134933: 1, 0.01421352297352748: 1, 0.01420630537702281:  
1, 0.01420455397745184: 1, 0.014198905480529808: 1, 0.01419293049362274: 1, 0.01418797326664646:  
1, 0.014184979623101942: 1, 0.014178738214017833: 1, 0.014168848162776854: 1,  
0.014165870649387282: 1, 0.014163447541201062: 1, 0.014163203082705638: 1, 0.014161490958333946: 1  
, 0.014160525082386837: 1, 0.014159946769981011: 1, 0.014153507855696239: 1, 0.014152430851471111:  
1, 0.014147393452863356: 1, 0.014140705658534109: 1, 0.014137887697337724: 1,  
0.014129495112909639: 1, 0.01412880604604248: 1, 0.014124897241500653: 1, 0.014122214133156664: 1,  
0.014111585406023924: 1, 0.014106407691809455: 1, 0.0141060705118516: 1, 0.014099284162033415: 1  
, 0.014097227604493539: 1, 0.014097085788261535: 1, 0.014092898714100462: 1, 0.01408485706185435:  
1, 0.014080942087684085: 1, 0.014069976888023144: 1, 0.014059688637217332: 1, 0.01403827750005781:  
1, 0.01403594757642005: 1, 0.014032719947468826: 1, 0.014028968388349654: 1, 0.01402453439071233:  
1, 0.014022780233631156: 1, 0.014020849518347863: 1, 0.014015585005239712: 1,  
0.014015038714633745: 1, 0.014004717066461447: 1, 0.014002105143768094: 1, 0.013996988364519191: 1  
, 0.013988411984430963: 1, 0.013985434376748512: 1, 0.013981723751091552: 1, 0.013979439175963303:

1, 0.013966015174026954: 1, 0.013946954603278104: 1, 0.013941981455655218: 1,  
0.013941292438959446: 1, 0.013940824127726206: 1, 0.013939078057464499: 1, 0.013930836229040507: 1  
, 0.013929696128112352: 1, 0.013925464127704193: 1, 0.013922658663340241: 1, 0.013918539238859847:  
1, 0.0139146765676989: 1, 0.013913072169231445: 1, 0.013912185845592378: 1, 0.013890742485824118:  
1, 0.013888773411728231: 1, 0.013888072428679909: 1, 0.013882713364138445: 1,  
0.013864413855702603: 1, 0.013861099597349902: 1, 0.013858937359312807: 1, 0.013858005957897318: 1  
, 0.013849033168822477: 1, 0.013848375633573018: 1, 0.013842577958833209: 1, 0.01382610672851929:  
1, 0.013819760416034214: 1, 0.013819228078856934: 1, 0.01381357040026161: 1, 0.013809046575922584:  
1, 0.013806913183211613: 1, 0.013805247996136073: 1, 0.01379995747495506: 1, 0.013781422695602966:  
1, 0.013776176258974523: 1, 0.013775534560899416: 1, 0.013774505625415982: 1,  
0.013771659568360246: 1, 0.01376980976909932: 1, 0.013769206679043057: 1, 0.013769071490806983: 1  
, 0.013765682913825765: 1, 0.01375981491483337: 1, 0.013759754945425272: 1, 0.013758822035310394:  
1, 0.013752663938185502: 1, 0.013751745008159432: 1, 0.013743298513917732: 1,  
0.013732078055199826: 1, 0.013719980762033571: 1, 0.013716159484920719: 1, 0.013709162553171138: 1  
, 0.013704764555510993: 1, 0.013700086303017174: 1, 0.01369190257143541: 1, 0.013690355484249518:  
1, 0.013678460089596082: 1, 0.013669392769402098: 1, 0.01364181074284116: 1, 0.013639744979044117:  
1, 0.013639138659634054: 1, 0.01363875756256747: 1, 0.01363625517057184: 1, 0.013632685217448759:  
1, 0.013628042679910836: 1, 0.01361942262036444: 1, 0.013619288515497409: 1, 0.013602542588273432:  
1, 0.01360098693885221: 1, 0.013592437814999294: 1, 0.013592325689642649: 1, 0.013590304401588366:  
1, 0.013590281717379214: 1, 0.013587997562274242: 1, 0.013577534893787302: 1,  
0.013572671602327243: 1, 0.013570304651428274: 1, 0.013543974670283626: 1, 0.013542216588947916: 1  
, 0.013541386344539939: 1, 0.013534577785259096: 1, 0.013525817854075483: 1, 0.013515420255184669:  
1, 0.0135124336091026: 1, 0.01350684706792531: 1, 0.013506751834856777: 1, 0.013496813893567428: 1  
, 0.013495056653877709: 1, 0.013494881649618025: 1, 0.01349436116826895: 1, 0.013484076752376124:  
1, 0.013474462029003325: 1, 0.01346988913966753: 1, 0.013465159796420175: 1, 0.013461450510473013:  
1, 0.01345618026306538: 1, 0.013455863752538991: 1, 0.013455429740685186: 1, 0.01345525125026715:  
1, 0.013452221638507768: 1, 0.013446553767112155: 1, 0.013446505306979765: 1,  
0.013446364485997555: 1, 0.013439484338477392: 1, 0.013429621363675124: 1, 0.013424423527928272: 1  
, 0.01342212117942921: 1, 0.013422048973666535: 1, 0.013406105203104507: 1, 0.01340073149736747:  
1, 0.013395387469903864: 1, 0.013393503198584024: 1, 0.013393178479558798: 1, 0.01339122217334282:  
1, 0.013391012164471357: 1, 0.013386624924181596: 1, 0.01338268246933449: 1, 0.013374261066225409:  
1, 0.013372565226430363: 1, 0.013369496295538356: 1, 0.01336533165983789: 1, 0.013361006639303782:  
1, 0.013360423908513943: 1, 0.01335013126034646: 1, 0.013342560970481348: 1, 0.013342521518509246:  
1, 0.01333316912827513: 1, 0.01332915550130722: 1, 0.013326540069580664: 1, 0.0133242458482934: 1,  
0.013319135304684065: 1, 0.01331651337221344: 1, 0.013309422973298008: 1, 0.013306340652681187: 1,  
0.01328785186000202: 1, 0.013278284794709591: 1, 0.013277654633879546: 1, 0.013267623498222626:  
1, 0.013266786947572187: 1, 0.013258967428224036: 1, 0.013256080556737118: 1, 0.013256031909241009: 1  
, 0.013249058194568135: 1, 0.013245158676232023: 1, 0.013243074819606872: 1, 0.01323967478795442:  
1, 0.013223867113915001: 1, 0.01321597132641614: 1, 0.013213234805021463: 1, 0.013211355175573912:  
1, 0.013203846156978734: 1, 0.0131954577288655: 1, 0.013192489799110793: 1, 0.013191190791601382:  
1, 0.013176565088394841: 1, 0.013171670405238995: 1, 0.013170916871217301: 1,  
0.013164456373018735: 1, 0.013164427312990157: 1, 0.013159398725722173: 1, 0.01315204940040254: 1,  
0.013145640349550701: 1, 0.013145029741316878: 1, 0.013136551574851055: 1, 0.013115189766618058: 1  
, 0.013107187032910205: 1, 0.013101312483758579: 1, 0.013096516436977124: 1, 0.013089418674039847:  
1, 0.013085282473044288: 1, 0.013078013650719884: 1, 0.013077684249982121: 1,  
0.013073883224996311: 1, 0.013070773974326915: 1, 0.013063051260148919: 1, 0.013059494863445327: 1  
, 0.013056740969097758: 1, 0.01305370384553435: 1, 0.01305192853731578: 1, 0.013041026129492666: 1  
, 0.013035134581146685: 1, 0.013031541307955096: 1, 0.013029092034079096: 1, 0.013026145630506792:  
1, 0.013025834079686133: 1, 0.013017632566156963: 1, 0.01301735050224654: 1, 0.013006918181619842:  
1, 0.01298797244923604: 1, 0.012987897874371206: 1, 0.012984208112944168: 1, 0.012981745857712269:  
1, 0.012968869859971153: 1, 0.01296838719748703: 1, 0.012966864470329808: 1, 0.012958968432316292:  
1, 0.012955277603928964: 1, 0.01294807011124497: 1, 0.01294706778974589: 1, 0.012934332768030934:  
1, 0.012929404498406849: 1, 0.012927681122257732: 1, 0.012922388503895503: 1,  
0.012915944427317212: 1, 0.012914744941785192: 1, 0.01291274984019598: 1, 0.012905696162034797: 1,  
0.012901391071331748: 1, 0.012890727111920498: 1, 0.012876190257721845: 1, 0.01287532253595995: 1  
, 0.012873826933773433: 1, 0.012860619230149641: 1, 0.01285359884240154: 1, 0.012840114485337466:  
1, 0.01283175021612605: 1, 0.012818924051429759: 1, 0.012815735465817577: 1, 0.012807153424950705:  
1, 0.012804295494583954: 1, 0.012804143356273846: 1, 0.01280313924060458: 1, 0.0127950244320303: 1  
, 0.01279439474516693: 1, 0.012794287807751291: 1, 0.012784711520674483: 1, 0.012779996821292817:  
1, 0.012777273012746268: 1, 0.012775814696818611: 1, 0.012772366556048683: 1, 0.01274533680664217:  
1, 0.012735245425907746: 1, 0.01273034431128532: 1, 0.012726920172383298: 1,  
0.012726040464553069: 1, 0.012716541200227577: 1, 0.01270983572216286: 1, 0.012709700975143352: 1,  
0.012702162432337988: 1, 0.012701602449381826: 1, 0.012695233142694514: 1, 0.01269453762528746: 1,  
0.012694002092023121: 1, 0.01268083057949417: 1, 0.012664335203773976: 1, 0.012656264355602128: 1,  
0.012654238529563575: 1, 0.01264493708458953: 1, 0.01264153821203827: 1, 0.012631543006284685: 1,  
0.01263132162113154: 1, 0.01261730519259516: 1, 0.012608672552804581: 1, 0.012607097645419774: 1,  
0.012595698121476897: 1, 0.012590213265280734: 1, 0.012580364388141828: 1, 0.012561917969654786: 1  
, 0.012526953134392288: 1, 0.01251656696365756: 1, 0.01251104456477344: 1, 0.012496986260811228: 1  
, 0.0124877623539053: 1, 0.012477617482732751: 1, 0.012475477720979932: 1, 0.012473554465764475:  
1, 0.012472099188981784: 1, 0.012470755548580903: 1, 0.012468119417885955: 1, 0.01246583144544097:  
1, 0.01244392900663499: 1, 0.012440466038096946: 1, 0.01243747930846467: 1, 0.01243451159608389: 1  
, 0.012422695295806319: 1, 0.012422783997769355: 1, 0.0124222942219181: 1, 0.012412761491326517: 1,  
0.012411621947325306: 1, 0.012408003980514282: 1, 0.012404262772306501: 1, 0.012391388775701211: 1  
, 0.012382145998504287: 1, 0.01237447106725962: 1, 0.012373389355749147: 1, 0.012367490879015503:  
1, 0.0123660282146979: 1, 0.012364088538916547: 1, 0.0123569092882172: 1, 0.01235382008217041: 1,  
0.012349673004199209: 1, 0.012349051892431271: 1, 0.012336028709327299: 1, 0.012333682266846922: 1  
, 0.012325815495340847: 1, 0.01232398844645266: 1, 0.012307922374627377: 1, 0.012305001313691529:

1, 0.012294468764559911: 1, 0.012293474151234926: 1, 0.012284395258802802: 1, 0.01227975385919278: 1, 0.01227357344357247: 1, 0.012267460641080427: 1, 0.012266243728633688: 1, 0.012259259179244806: 1, 0.012248942573178007: 1, 0.012247933559558003: 1, 0.012242984114487876: 1, 0.01224195912580741: 1, 0.012240957681402976: 1, 0.012240509192404067: 1, 0.01223786108642511: 1, 0.012224650466282754: 1, 0.012212313522996098: 1, 0.012210874807463436: 1, 0.012205995386690089: 1, 0.01220360473823574: 1, 0.012188521493277378: 1, 0.012184142368069972: 1, 0.012183917451509891: 1, 0.012175556605394499: 1, 0.012170441473066595: 1, 0.012165535011738572: 1, 0.012159812176942399: 1, 0.012141570282173456: 1, 0.012136625243506637: 1, 0.012125801601408914: 1, 0.012124645910748254: 1, 0.012119947453619363: 1, 0.012117665081698687: 1, 0.01210880287891087: 1, 0.012108549002361852: 1, 0.012105812752113126: 1, 0.012099875287173488: 1, 0.012096229585093446: 1, 0.012078116268569049: 1, 0.012070201226716662: 1, 0.012069523716439559: 1, 0.012069483471737728: 1, 0.012068298666099946: 1, 0.012068237402757573: 1, 0.01206714100283414: 1, 0.012048471379468628: 1, 0.012046679746577235: 1, 0.012043358618312145: 1, 0.012033959587011473: 1, 0.012025043498112101: 1, 0.012022158666776082: 1, 0.01201846898584815: 1, 0.012014038470298541: 1, 0.011982492301775066: 1, 0.01197278258667338: 1, 0.011968625204453161: 1, 0.01196195503314384: 1, 0.011960512839183287: 1, 0.011954461126529679: 1, 0.011950011514913202: 1, 0.011938066512392525: 1, 0.01193337804495565: 1, 0.011930398601339789: 1, 0.01192866447307711: 1, 0.011926016583787401: 1, 0.011898417490140003: 1, 0.011895196945318032: 1, 0.011892255772939998: 1, 0.01189040726618056: 1, 0.011889065468224134: 1, 0.011888413690276538: 1, 0.011885695751877104: 1, 0.011883124360817352: 1, 0.011880183940623183: 1, 0.01186861139021831: 1, 0.011866464781465302: 1, 0.011862393559680983: 1, 0.011862165450346993: 1, 0.011860725886303516: 1, 0.011858077840945485: 1, 0.011851520944991579: 1, 0.011850701461577741: 1, 0.01184486133487052: 1, 0.011840611261092374: 1, 0.011833360924964243: 1, 0.01183114663036494: 1, 0.01181308279506446: 1, 0.011808730478307376: 1, 0.011802674997437734: 1, 0.01179952453962762: 1, 0.011796448886292736: 1, 0.011783313988249038: 1, 0.011780139899675636: 1, 0.011778552785182696: 1, 0.011768750877943726: 1, 0.011759402597465772: 1, 0.011747553244133842: 1, 0.011745267643367979: 1, 0.0117422463482848: 1, 0.011740394324694696: 1, 0.011739892209033615: 1, 0.011737859855018167: 1, 0.011737123883294587: 1, 0.011735882880179868: 1, 0.011734048315316006: 1, 0.011726751301942022: 1, 0.011726715811977368: 1, 0.011724477403488413: 1, 0.011722896810025718: 1, 0.011720073434687214: 1, 0.011718192948990411: 1, 0.01171287310459834: 1, 0.011702500791824215: 1, 0.011694495847653186: 1, 0.011692901890754535: 1, 0.011671747626054798: 1, 0.011649544670588652: 1, 0.011649197124058788: 1, 0.011647712295679388: 1, 0.011640863935831646: 1, 0.011637238026481481: 1, 0.011636186169252051: 1, 0.011634599775340643: 1, 0.01163088091966348: 1, 0.011628017108598296: 1, 0.01162757072012804: 1, 0.011627053459309155: 1, 0.011616499986675419: 1, 0.011614989352055674: 1, 0.01159490084897746: 1, 0.011596027060735179: 1, 0.01158757572793942: 1, 0.011584622157074825: 1, 0.011582814043874162: 1, 0.011579455860120005: 1, 0.011574008845847653: 1, 0.011570588323769766: 1, 0.011569690120268402: 1, 0.01156773513591583: 1, 0.01155644434662909: 1, 0.011555392099254895: 1, 0.011550944502909374: 1, 0.011538864703907007: 1, 0.01152947403833646: 1, 0.011528688723582696: 1, 0.011523348385003065: 1, 0.011516872065073167: 1, 0.011514811972421338: 1, 0.011509135551805268: 1, 0.01150088526575086: 1, 0.011486273217796961: 1, 0.011482602896865176: 1, 0.011480933569373342: 1, 0.011477756261674982: 1, 0.01147297487897015: 1, 0.011471213458124147: 1, 0.011463576517881515: 1, 0.011457253942600911: 1, 0.0114493464459978: 1, 0.011448127813716756: 1, 0.011440467995008414: 1, 0.011438208181517988: 1, 0.011413937659974047: 1, 0.011407334724181617: 1, 0.011396435416542705: 1, 0.01137903020973571: 1, 0.011378373035724147: 1, 0.01137760856415872: 1, 0.01136819900068241: 1, 0.011363341940321467: 1, 0.0113555228721158: 1, 0.01134218309848157: 1, 0.011328422577562565: 1, 0.011326963816056865: 1, 0.011325801374292158: 1, 0.011322900299899016: 1, 0.011318553791104361: 1, 0.011316224248996053: 1, 0.011315571285278122: 1, 0.011311191163335553: 1, 0.01130603902107311: 1, 0.011303410458963489: 1, 0.011301817086884373: 1, 0.01129657526169652: 1, 0.011294522455802689: 1, 0.011291959956318924: 1, 0.011280367707031185: 1, 0.011279361860820621: 1, 0.011277178493756219: 1, 0.01127681697558486: 1, 0.011275809067094229: 1, 0.011275417225325813: 1, 0.011253151677311765: 1, 0.011234453125203856: 1, 0.011229466785549303: 1, 0.01122804011377727: 1, 0.011223974528863668: 1, 0.011220083239824817: 1, 0.011214444206341158: 1, 0.011212740989678316: 1, 0.011206677712227716: 1, 0.011204811364690918: 1, 0.011186169671510749: 1, 0.011182117640520892: 1, 0.011181474529752747: 1, 0.011180140482309605: 1, 0.011173687962959438: 1, 0.011172924638482488: 1, 0.011152704889814707: 1, 0.011152391023098278: 1, 0.011150798585628535: 1, 0.011143162210006849: 1, 0.011130763968617303: 1, 0.011110130134559238: 1, 0.011109769541020973: 1, 0.01110644575424006: 1, 0.011098074150835528: 1, 0.011087309027363624: 1, 0.011085550066117632: 1, 0.011081850205786878: 1, 0.011067569853340068: 1, 0.011061755261020009: 1, 0.011042973161564856: 1, 0.01104010039125683: 1, 0.011031301556676303: 1, 0.011007203227279353: 1, 0.01099687302140381: 1, 0.01099314290208916: 1, 0.01098330061675877: 1, 0.010977881783797766: 1, 0.010958103453891694: 1, 0.01095484800760865: 1, 0.010953367530753436: 1, 0.010939449685832148: 1, 0.010938309038522212: 1, 0.010929106318316246: 1, 0.010915407727695375: 1, 0.01091322781639677: 1, 0.010900557690719348: 1, 0.01089433112253942: 1, 0.010890436282241766: 1, 0.010884976624964592: 1, 0.010878935051028703: 1, 0.010870190035911421: 1, 0.010866220266594832: 1, 0.010860487557946174: 1, 0.010860228951194742: 1, 0.010856164710482601: 1, 0.010842008538478342: 1, 0.010829307593989708: 1, 0.010817301121458414: 1, 0.010787833738099474: 1, 0.010787617264642628: 1, 0.010768141661581515: 1, 0.010759772144359945: 1, 0.010759422153792421: 1, 0.01075860020321137: 1, 0.010752457469077622: 1, 0.0107470408663026: 1, 0.01072836028839308: 1, 0.010716974436878125: 1, 0.010716558834849541: 1, 0.010711028846323543: 1, 0.010709847973389783: 1, 0.010697152521284158: 1, 0.010687484209665019: 1, 0.010683844392589934: 1, 0.010682241945554408: 1, 0.010679666698470416: 1, 0.01067798739053821: 1, 0.010674680265234073: 1, 0.010674304825767894: 1, 0.010673952514373093: 1, 0.01066682614540154: 1, 0.01066509391698454: 1, 0.010659191893834487: 1, 0.010658419519894378: 1, 0.010658365647906681: 1, 0.010652916466322864: 1, 0.010652875854708258: 1, 0.010644110762333583: 1, 0.010630354767618389: 1, 0.010627604212350879: 1, 0.010621303334690168: 1, 0.010620695485354098: 1, 0.01061866401542556: 1, 0.010617731506623141: 1, 0.01060368482426174: 1, 0.010600382830373414: 1, 0.010593244178061989: 1, 0.010593012194564953: 1, 0.01059197821567391: 1, 0.010585782659351393: 1, 0.010575735188947895: 1

1, 0.010569079655777948: 1, 0.010564782959554573: 1, 0.010562796078119536: 1, 0.01055894999246311: 1, 0.010554947923206204: 1, 0.010553813895590323: 1, 0.010551582435870717: 1, 0.01054784227750267: 1, 0.010538788975642059: 1, 0.010536068751770097: 1, 0.010533942845855187: 1, 0.010525068699297742: 1, 0.01051708221319781: 1, 0.010484802249061937: 1, 0.010471281920310039: 1, 0.010470383737705508: 1, 0.010462512552158434: 1, 0.0104570305279794708: 1, 0.010452918548014799: 1, 0.010451723453277544: 1, 0.01044224968615787: 1, 0.010442165742127932: 1, 0.010427153488038538: 1, 0.010413334605789573: 1, 0.010412819029056263: 1, 0.010410526354957154: 1, 0.010407703311496323: 1, 0.010407166787984215: 1, 0.01040540181704933: 1, 0.01039920268492462: 1, 0.010397470192430276: 1, 0.010393519626537725: 1, 0.010390652776974438: 1, 0.010389230616801495: 1, 0.010387488109614566: 1, 0.010386571245573429: 1, 0.01035868060938695: 1, 0.010341322668466556: 1, 0.010333323482098913: 1, 0.010328628898115266: 1, 0.010324153487600293: 1, 0.010322335968457873: 1, 0.010319187218609766: 1, 0.01031754696641419: 1, 0.010311201610602809: 1, 0.010309835069704877: 1, 0.010306120871590142: 1, 0.010305334588893413: 1, 0.010300366366252013: 1, 0.010288914767663738: 1, 0.010286550080878592: 1, 0.01026262516838923: 1, 0.01024656840806469: 1, 0.010245047841404604: 1, 0.010239308759857582: 1, 0.010237985081111296: 1, 0.010230856498737471: 1, 0.010210350544057004: 1, 0.010203681594038269: 1, 0.010201186286682248: 1, 0.010188313294470022: 1, 0.010183745427268995: 1, 0.010182758566752152: 1, 0.010181380247009984: 1, 0.010166592755655015: 1, 0.010157049177211894: 1, 0.010153284928200335: 1, 0.010146365435764384: 1, 0.010139696988183653: 1, 0.010134541692354702: 1, 0.01013066537040995: 1, 0.010129770833292522: 1, 0.010127836527891614: 1, 0.010124721623121752: 1, 0.010115793607172782: 1, 0.010109677922013156: 1, 0.010106330313006307: 1, 0.010103168783734727: 1, 0.010095589003920694: 1, 0.010091498890364396: 1, 0.010089437332281317: 1, 0.010082968423725167: 1, 0.010070781532943461: 1, 0.010057525453451767: 1, 0.010038748502715987: 1, 0.010025384510150854: 1, 0.010001435568951635: 1, 0.009988564325748985: 1, 0.009985211491040659: 1, 0.009984151007030507: 1, 0.009969749490507517: 1, 0.00996774017180749: 1, 0.009965580704371622: 1, 0.009959845753069966: 1, 0.009944370375438681: 1, 0.009917225381520355: 1, 0.00991482566827147: 1, 0.00991388501996309: 1, 0.009912137592461453: 1, 0.009909055132033629: 1, 0.009906714845568794: 1, 0.0098913774054712: 1, 0.009878391275837247: 1, 0.009874019684598006: 1, 0.009868810891837249: 1, 0.009860462076927767: 1, 0.009831307755417407: 1, 0.009826259804298042: 1, 0.009822013768772985: 1, 0.009809371989717711: 1, 0.009804208524518635: 1, 0.009801309975909795: 1, 0.00979126580570072: 1, 0.009787536820622379: 1, 0.009781213654789877: 1, 0.009769385651225149: 1, 0.009745980093007468: 1, 0.00973294453236994: 1, 0.009732524980076433: 1, 0.00972967163929135: 1, 0.009709417870740785: 1, 0.009706109055385131: 1, 0.009693684895610509: 1, 0.009684952432944939: 1, 0.009680155971337442: 1, 0.009645773021101797: 1, 0.009645148759838254: 1, 0.009633140071776004: 1, 0.009632580144976203: 1, 0.009621022091322096: 1, 0.009612999955564687: 1, 0.009606317098460467: 1, 0.009605230806604503: 1, 0.009601248464525288: 1, 0.009568108926798274: 1, 0.00956661714304002: 1, 0.009565435282999683: 1, 0.009556821922081174: 1, 0.00953986350337554: 1, 0.009538245526919708: 1, 0.009537531174051268: 1, 0.009537226550159173: 1, 0.009523147461170589: 1, 0.009514862488561211: 1, 0.009507458026536908: 1, 0.009503467877486588: 1, 0.0094967237314078: 1, 0.009494151740263409: 1, 0.00949123086602521: 1, 0.009476534131942509: 1, 0.009449256014653271: 1, 0.009446571280431124: 1, 0.009443247113560338: 1, 0.009434404871735073: 1, 0.009422995004571427: 1, 0.009414956298875756: 1, 0.009412556815875276: 1, 0.009405402961628553: 1, 0.009405101965321305: 1, 0.009403753283271381: 1, 0.009398145793693451: 1, 0.00939196298350586: 1, 0.009383117903300212: 1, 0.009378307572210146: 1, 0.009368662980982476: 1, 0.009356458660271854: 1, 0.009355596122066684: 1, 0.009334846827319259: 1, 0.009318482350828654: 1, 0.009297504669308064: 1, 0.009296843286355709: 1, 0.009279419071207187: 1, 0.009275612001387379: 1, 0.009268167966589977: 1, 0.009267293790865657: 1, 0.009238450902383576: 1, 0.009201164313151267: 1, 0.009198927899829415: 1, 0.009165023653725804: 1, 0.00916005672328361: 1, 0.009158238274140463: 1, 0.009152734853595478: 1, 0.00912708999308119: 1, 0.009123448566850087: 1, 0.009111461283248991: 1, 0.009106574831935905: 1, 0.00909060185197858: 1, 0.00908386083865011: 1, 0.009083593804942131: 1, 0.009081649817558872: 1, 0.009081391497486156: 1, 0.009046900949558897: 1, 0.009044762993922168: 1, 0.009033419383472758: 1, 0.00903236912366201: 1, 0.009028911792619618: 1, 0.009026520511792726: 1, 0.009004558201165502: 1, 0.008978488148894416: 1, 0.008977901407280785: 1, 0.0089722360125807: 1, 0.008973841103934104: 1, 0.008968934757011096: 1, 0.008942853944272593: 1, 0.008926973257852766: 1, 0.008926089904257034: 1, 0.008902871134132568: 1, 0.008886807846622831: 1, 0.008880202164018233: 1, 0.008872446647439244: 1, 0.008848177025683482: 1, 0.008843855355716886: 1, 0.008829272282225659: 1, 0.008828021055989746: 1, 0.008805026416869475: 1, 0.008798402126017051: 1, 0.008770131620341492: 1, 0.008764527253800032: 1, 0.008729515702027756: 1, 0.008725254455262331: 1, 0.008697988295864557: 1, 0.008686255521850228: 1, 0.008680765788038123: 1, 0.008675378373093323: 1, 0.008672004357857527: 1, 0.008647171981080124: 1, 0.008635668441986682: 1, 0.008606642459865678: 1, 0.008600559715208544: 1, 0.008574955140990747: 1, 0.008561008945897175: 1, 0.008553221234727196: 1, 0.00853134501858624: 1, 0.008521991614914952: 1, 0.008506391348810354: 1, 0.00850132187638171: 1, 0.008499560972601274: 1, 0.008480120386927786: 1, 0.008459693083851303: 1, 0.008455457734877981: 1, 0.008424858017758587: 1, 0.008417299562805883: 1, 0.00839422129726791: 1, 0.008377220358227997: 1, 0.008346053321769268: 1, 0.008326053566694025: 1, 0.008288744284900415: 1, 0.008284517280403619: 1, 0.008278626061540006: 1, 0.008268211983063278: 1, 0.008232982701821682: 1, 0.008211159636924054: 1, 0.008210858455685066: 1, 0.00819915973668677: 1, 0.008194353228005014: 1, 0.00818797956425826: 1, 0.008184752274016232: 1, 0.00814946566678561: 1, 0.008144151662969314: 1, 0.008139316532772285: 1, 0.008128643033204121: 1, 0.008102752883438716: 1, 0.008102012883194358: 1, 0.008078035579320821: 1, 0.008011579991938833: 1, 0.008008899471537798: 1, 0.007980607759870962: 1, 0.00795268322302481: 1, 0.007950743996500927: 1, 0.007923290045381358: 1, 0.007922471219952983: 1, 0.007917016120771929: 1, 0.007903260383624542: 1, 0.007888596225179807: 1, 0.007873334669795649: 1, 0.007871848842220058: 1, 0.007840697041311568: 1, 0.007823974334457246: 1, 0.007819034120604498: 1, 0.007764183935162148: 1, 0.0076985405676685366: 1, 0.007697598619260476: 1, 0.007695922775788365: 1, 0.007690629159171427: 1, 0.007677436282857641: 1, 0.007665293105556321: 1, 0.007663628415591126: 1, 0.007650622670679357: 1, 0.00763467621289954: 1,

```
0.007624761936567475: 1, 0.007612684188627686: 1, 0.0076067200186017165: 1, 0.00760183295217031: 1
, 0.007593273549367258: 1, 0.0075925942402280625: 1, 0.00757914318882873: 1, 0.00757458145271675:
1, 0.0075683914309223835: 1, 0.0075534183825202855: 1, 0.007502169499965227: 1,
0.0074797462468008235: 1, 0.007466268177009296: 1, 0.007449958656370611: 1, 0.007447352013125573:
1, 0.007439475426501132: 1, 0.007421311973338349: 1, 0.007390731819805528: 1,
0.007356001333859476: 1, 0.007321066254755749: 1, 0.0073095005486877185: 1, 0.007285802544531475:
1, 0.00719393175513096: 1, 0.007179538501904258: 1, 0.007155583826972817: 1, 0.007126623195385962:
1, 0.007115807384578666: 1, 0.0071123199158991115: 1, 0.007096454522463883: 1,
0.007065620596568039: 1, 0.007049391787502978: 1, 0.007035305192654441: 1, 0.007010819940775665: 1
, 0.006989706922383403: 1, 0.006961520985927672: 1, 0.006850062225587782: 1, 0.006821594338452042:
1, 0.006801406006321146: 1, 0.006751264691695797: 1, 0.006747761098230287: 1,
0.0067348079075364225: 1, 0.006727625625133575: 1, 0.006720156678169973: 1, 0.006713018462650757:
1, 0.006665037766226039: 1, 0.006645923735351323: 1, 0.0066451375195536455: 1,
0.006617662687853315: 1, 0.0066023637101553095: 1, 0.0066010602081741955: 1, 0.00659255496074753:
1, 0.006553364124772793: 1, 0.006525801417806301: 1, 0.006464585105010398: 1,
0.006421252403010434: 1, 0.006409154536857421: 1, 0.006402978298029176: 1, 0.006388313581318597: 1
, 0.006346649449229783: 1, 0.006283155079390096: 1, 0.006279210427714978: 1, 0.006239894760203428:
1, 0.006212415262062615: 1, 0.0061541449587073065: 1, 0.006125148117641788: 1,
0.006042972171695153: 1, 0.005945857250151064: 1, 0.005943653177757476: 1, 0.0058961917260110155:
1, 0.005888823427976616: 1, 0.0057980873940548594: 1, 0.005761339470581557: 1,
0.005752702429447937: 1, 0.00572896739232066: 1, 0.005590070241154803: 1, 0.005532583146137464: 1,
0.005402234576694833: 1, 0.005352463326396925: 1, 0.0052219425947933225: 1, 0.005150719057065297:
1, 0.005042840201060864: 1, 0.0044982006490696955: 1, 0.004392023646501871: 1})
```

In [48]:

```
# Train a Logistic regression+Calibration model using text features whicha re on-hot encoded
alpha = [10 ** x for x in range(-5, 1)]
```

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link:
#-----
```

```
cv_log_error_array=[]
for i in alpha:
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_text_feature_onehotCoding, y_train)

    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_text_feature_onehotCoding, y_train)
    predict_y = sig_clf.predict_proba(cv_text_feature_onehotCoding)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
    print('For values of alpha = ', i, "The log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
```

```
best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_text_feature_onehotCoding, y_train)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_text_feature_onehotCoding, y_train)
```

```

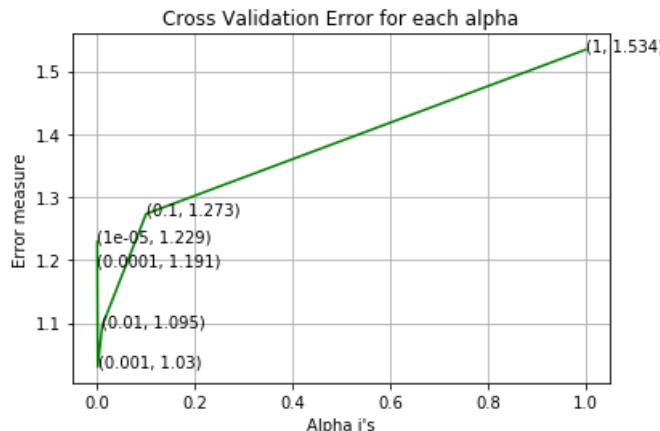
predict_y = sig_clf.predict_proba(train_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train,
predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_lo
ss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, p
redict_y, labels=clf.classes_, eps=1e-15))

```

```

For values of alpha = 1e-05 The log loss is: 1.229029358810357
For values of alpha = 0.0001 The log loss is: 1.1912475914280747
For values of alpha = 0.001 The log loss is: 1.030495310021128
For values of alpha = 0.01 The log loss is: 1.0953700805284334
For values of alpha = 0.1 The log loss is: 1.2732827929457122
For values of alpha = 1 The log loss is: 1.5338056574131516

```



```

For values of best alpha = 0.001 The train log loss is: 0.6615621458331723
For values of best alpha = 0.001 The cross validation log loss is: 1.030495310021128
For values of best alpha = 0.001 The test log loss is: 1.2101493128037166

```

**Q.** Is the Text feature stable across all the data sets (Test, Train, Cross validation)?

**Ans.** Yes, it seems like!

In [49]:

```

def get_intersec_text(df):
    df_text_vec = TfidfVectorizer(min_df=3)
    df_textfea = df_text_vec.fit_transform(df['TEXT'])
    df_text_features = df_text_vec.get_feature_names()

    df_textfea_counts = df_textfea.sum(axis=0).A1
    df_textfea_dict = dict(zip(list(df_text_features), df_textfea_counts))
    len1 = len(set(df_text_features))
    len2 = len(set(train_text_features) & set(df_text_features))
    return len1, len2

```

In [50]:

```

len1, len2 = get_intersec_text(test_df)
print(np.round((len2/len1)*100, 3), "% of word of test data appeared in train data")
len1, len2 = get_intersec_text(cv_df)
print(np.round((len2/len1)*100, 3), "% of word of Cross Validation appeared in train data")

```

```

95.676 % of word of test data appeared in train data
97.564 % of word of Cross Validation appeared in train data

```

## 4. Machine Learning Models

```
In [51]:
```

```
#Data preparation for ML models.

#Misc. functionns for ML models

def predict_and_plot_confusion_matrix(train_x, train_y, test_x, test_y, clf):
    clf.fit(train_x, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x, train_y)
    pred_y = sig_clf.predict(test_x)

    # for calculating log_loss we will provide the array of probabilities belongs to each class
    print("Log loss :", log_loss(test_y, sig_clf.predict_proba(test_x)))
    # calculating the number of data points that are misclassified
    print("Number of mis-classified points :", np.count_nonzero((pred_y - test_y))/test_y.shape[0])
    plot_confusion_matrix(test_y, pred_y)
```

```
In [52]:
```

```
def report_log_loss(train_x, train_y, test_x, test_y, clf):
    clf.fit(train_x, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x, train_y)
    sig_clf_probs = sig_clf.predict_proba(test_x)
    return log_loss(test_y, sig_clf_probs, eps=1e-15)
```

```
In [53]:
```

```
# this function will be used just for naive bayes
# for the given indices, we will print the name of the features
# and we will check whether the feature present in the test point text or not
def get_imptfeature_names(indices, text, gene, var, no_features):
    gene_count_vec = TfidfVectorizer()
    var_count_vec = TfidfVectorizer()
    text_count_vec = TfidfVectorizer(min_df=3)

    gene_vec = gene_count_vec.fit(train_df['Gene'])
    var_vec = var_count_vec.fit(train_df['Variation'])
    text_vec = text_count_vec.fit(train_df['TEXT'])

    feal_len = len(gene_vec.get_feature_names())
    fea2_len = len(var_count_vec.get_feature_names())

    word_present = 0
    for i, v in enumerate(indices):
        if (v < feal_len):
            word = gene_vec.get_feature_names()[v]
            yes_no = True if word == gene else False
            if yes_no:
                word_present += 1
                print(i, "Gene feature [{}]\ present in test data point [{}].format(word, yes_no)")
        elif (v < feal_len + fea2_len):
            word = var_vec.get_feature_names()[v - (feal_len)]
            yes_no = True if word == var else False
            if yes_no:
                word_present += 1
                print(i, "variation feature [{}]\ present in test data point [{}].format(word, yes_no"))
        else:
            word = text_vec.get_feature_names()[v - (feal_len + fea2_len)]
            yes_no = True if word in text.split() else False
            if yes_no:
                word_present += 1
                print(i, "Text feature [{}]\ present in test data point [{}].format(word, yes_no)")

    print("Out of the top ", no_features, " features ", word_present, " are present in query point")
```

## Stacking the three types of features

```
THE END.
```

```
In [54]:
```

```
# merging gene, variance and text features

# building train, test and cross validation data sets
# a = [[1, 2],
#       [3, 4]]
# b = [[4, 5],
#       [6, 7]]
# hstack(a, b) = [[1, 2, 4, 5],
#                  [3, 4, 6, 7]]

train_gene_var_onehotCoding =
hstack((train_gene_feature_onehotCoding, train_variation_feature_onehotCoding))
test_gene_var_onehotCoding =
hstack((test_gene_feature_onehotCoding, test_variation_feature_onehotCoding))
cv_gene_var_onehotCoding = hstack((cv_gene_feature_onehotCoding, cv_variation_feature_onehotCoding))

train_x_onehotCoding = hstack((train_gene_var_onehotCoding, train_text_feature_onehotCoding)).tocsr()
train_y = np.array(list(train_df['Class']))

test_x_onehotCoding = hstack((test_gene_var_onehotCoding, test_text_feature_onehotCoding)).tocsr()
test_y = np.array(list(test_df['Class']))

cv_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
cv_y = np.array(list(cv_df['Class']))

train_gene_var_responseCoding =
np.hstack((train_gene_feature_responseCoding, train_variation_feature_responseCoding))
test_gene_var_responseCoding =
np.hstack((test_gene_feature_responseCoding, test_variation_feature_responseCoding))
cv_gene_var_responseCoding =
np.hstack((cv_gene_feature_responseCoding, cv_variation_feature_responseCoding))

train_x_responseCoding = np.hstack((train_gene_var_responseCoding,
train_text_feature_responseCoding))
test_x_responseCoding = np.hstack((test_gene_var_responseCoding, test_text_feature_responseCoding))
cv_x_responseCoding = np.hstack((cv_gene_var_responseCoding, cv_text_feature_responseCoding))
```

```
In [55]:
```

```
print("One hot encoding features :")
print("number of data points * number of features) in train data = ", train_x_onehotCoding.shape)
print("number of data points * number of features) in test data = ", test_x_onehotCoding.shape)
print("number of data points * number of features) in cross validation data =", cv_x_onehotCoding.shape)
```

```
One hot encoding features :
```

```
(number of data points * number of features) in train data = (2124, 54766)
(number of data points * number of features) in test data = (665, 54766)
(number of data points * number of features) in cross validation data = (532, 54766)
```

```
In [56]:
```

```
print(" Response encoding features :")
print("number of data points * number of features) in train data = ", train_x_responseCoding.shape)
print("number of data points * number of features) in test data = ", test_x_responseCoding.shape)
print("number of data points * number of features) in cross validation data =", cv_x_responseCoding.shape)
```

```
Response encoding features :
```

```
(number of data points * number of features) in train data = (2124, 27)
(number of data points * number of features) in test data = (665, 27)
(number of data points * number of features) in cross validation data = (532, 27)
```

## 4.1. Base Line Model

## 4.1.1. Naive Bayes

### 4.1.1.1. Hyper parameter tuning

In [57]:

```
# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive_bayes.MultinomialNB.html
# -----
# default paramters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


alpha = [0.00001, 0.0001, 0.001, 0.1, 1, 10, 100,1000]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = MultinomialNB(alpha=i)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilités we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(np.log10(alpha), cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (np.log10(alpha[i]),cv_log_error_array[i]))
plt.grid()
plt.xticks(np.log10(alpha))
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
```

```

predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

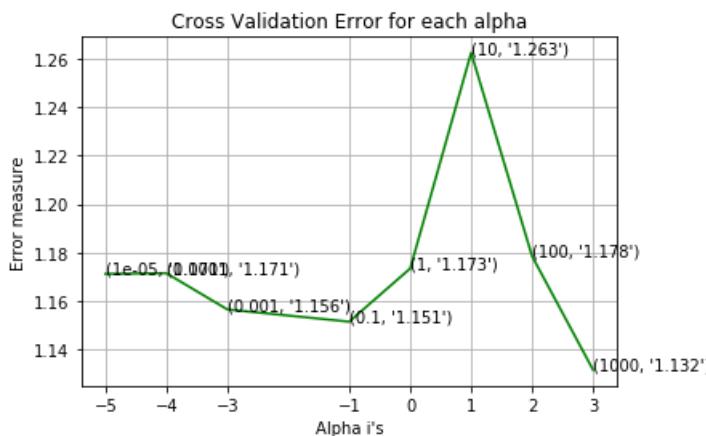
# Variables that will be used in the end to make comparison table of all models
nb_train = log_loss(y_train, sig_clf.predict_proba(train_x_onehotCoding), labels=clf.classes_, eps=1e-15)
nb_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_onehotCoding), labels=clf.classes_, eps=1e-15)
nb_test = log_loss(y_test, sig_clf.predict_proba(test_x_onehotCoding), labels=clf.classes_, eps=1e-15)

```

```

for alpha = 1e-05
Log Loss : 1.1711894686747462
for alpha = 0.0001
Log Loss : 1.1714746030303926
for alpha = 0.001
Log Loss : 1.1564993437516862
for alpha = 0.01
Log Loss : 1.1514463818760738
for alpha = 0.1
Log Loss : 1.173411160268107
for alpha = 1
Log Loss : 1.2625604210856933
for alpha = 10
Log Loss : 1.1784648001302314
for alpha = 100
Log Loss : 1.1315373983614954

```



```

For values of best alpha = 1000 The train log loss is: 0.9351768222596589
For values of best alpha = 1000 The cross validation log loss is: 1.1315373983614954
For values of best alpha = 1000 The test log loss is: 1.2630083768168237

```

#### 4.1.1.2. Testing the model with best hyper parameters

In [58]:

```

# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive_bayes.MultinomialNB.html
# -----
# default parameters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-

```

```

learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----
# -----
# to use log-probability estimates

clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)
sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
# to avoid rounding error while multiplying probabilités we use log-probability estimates
print("Log Loss :", log_loss(cv_y, sig_clf_probs))
print("Number of missclassified point :", np.count_nonzero((sig_clf.predict(cv_x_onehotCoding) - cv_y)/cv_y.shape[0]))
plot_confusion_matrix(cv_y, sig_clf.predict(cv_x_onehotCoding.toarray()))

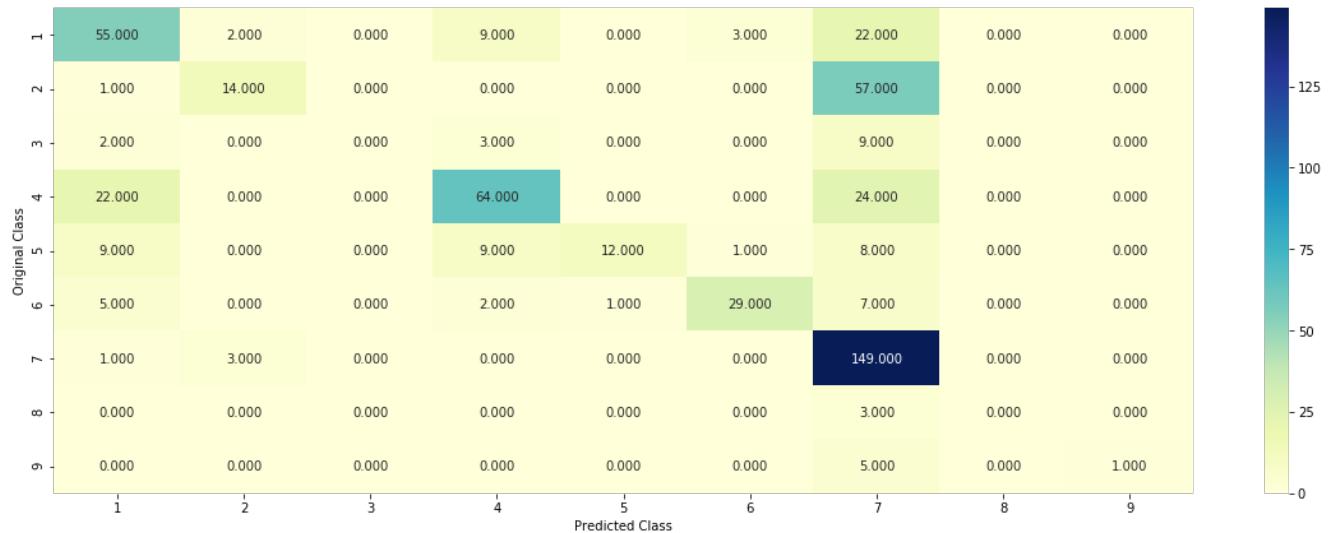
# Variables that will be used in the end to make comparison table of models
nb_missclassified = (np.count_nonzero((sig_clf.predict(cv_x_onehotCoding) - cv_y)/cv_y.shape[0]))*100

```

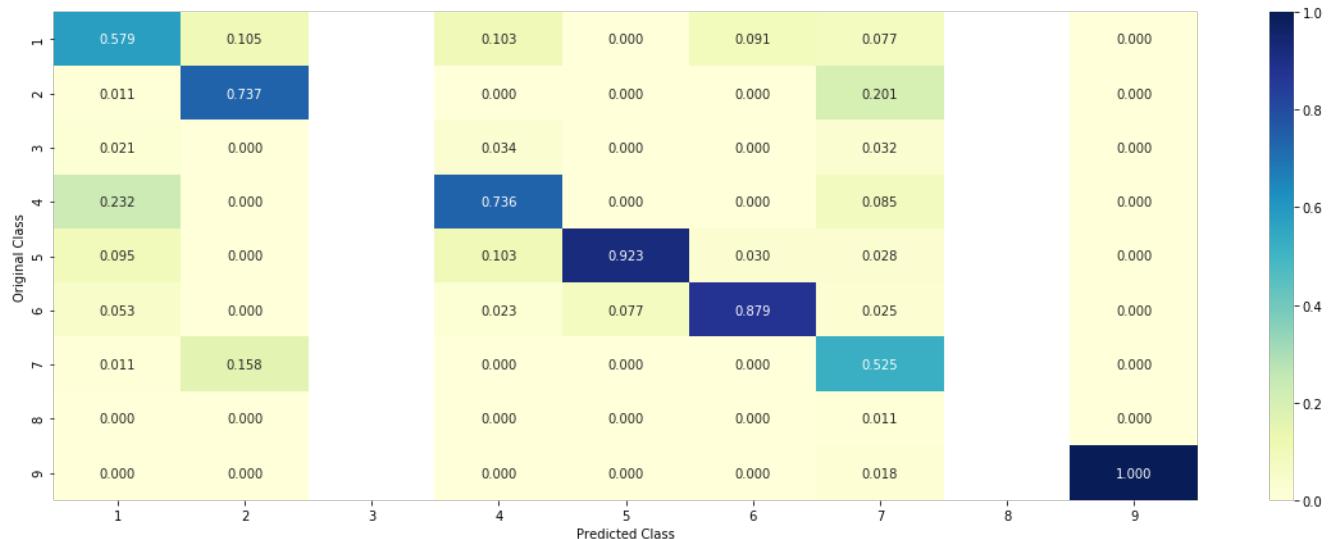
Log Loss : 1.1315373983614954

Number of missclassified point : 0.39097744360902253

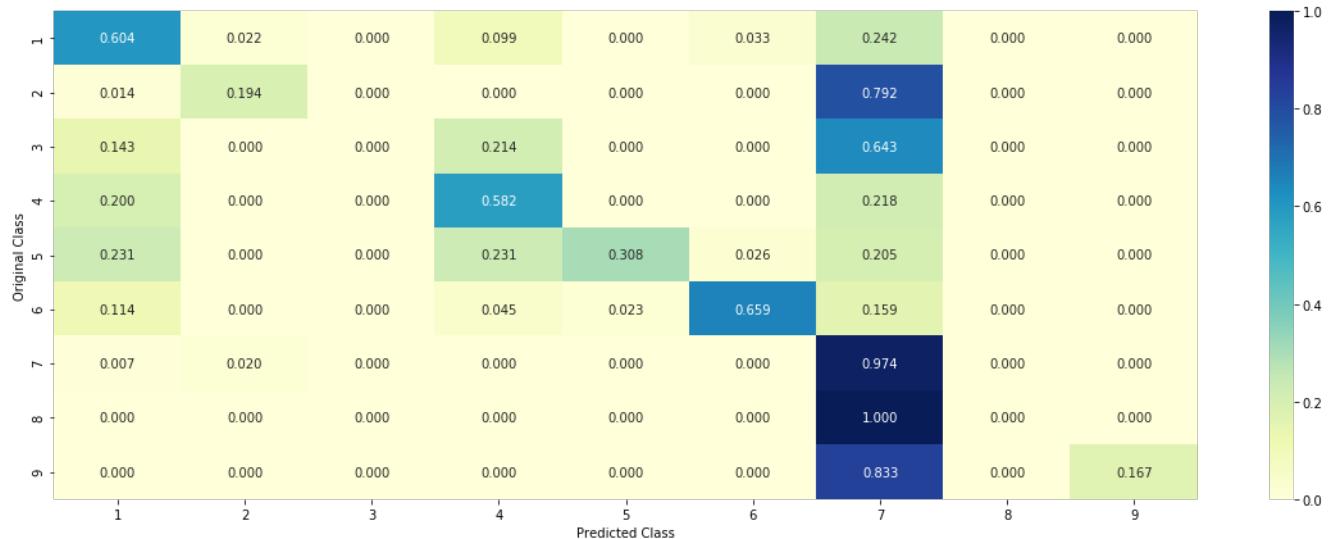
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



#### 4.1.1.3. Feature Importance, Correctly classified point

In [59]:

```
test_point_index = 1
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1] [:,:no_feature]
print("-" * 50)
get_imptfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)
```

```
Predicted Class : 2
Predicted Class Probabilities: [[0.0238 0.4587 0.0036 0.0319 0.0178 0.0168 0.4446 0.0021 0.0008]]
Actual Class : 7
```

```
-----  

12 Text feature [treatment] present in test data point [True]  

13 Text feature [patients] present in test data point [True]  

14 Text feature [clinical] present in test data point [True]  

15 Text feature [molecular] present in test data point [True]  

17 Text feature [therapy] present in test data point [True]  

18 Text feature [time] present in test data point [True]  

25 Text feature [10] present in test data point [True]  

26 Text feature [patient] present in test data point [True]  

27 Text feature [therapeutic] present in test data point [True]  

29 Text feature [case] present in test data point [True]  

30 Text feature [kinase] present in test data point [True]  

31 Text feature [mutation] present in test data point [True]  

33 Text feature [11] present in test data point [True]  

34 Text feature [may] present in test data point [True]  

35 Text feature [advanced] present in test data point [True]  

36 Text feature [confirmed] present in test data point [True]  

38 Text feature [study] present in test data point [True]  

39 Text feature [first] present in test data point [True]  

41 Text feature [however] present in test data point [True]  

42 Text feature [inhibitor] present in test data point [True]  

43 Text feature [13] present in test data point [True]  

44 Text feature [12] present in test data point [True]  

45 Text feature [using] present in test data point [True]  

46 Text feature [another] present in test data point [True]  

47 Text feature [including] present in test data point [True]  

48 Text feature [different] present in test data point [True]  

50 Text feature [also] present in test data point [True]  

51 Text feature [15] present in test data point [True]  

53 Text feature [sequencing] present in test data point [True]
```

```

54 Text feature [primary] present in test data point [True]
55 Text feature [mutations] present in test data point [True]
56 Text feature [18] present in test data point [True]
57 Text feature [small] present in test data point [True]
59 Text feature [tissue] present in test data point [True]
60 Text feature [positive] present in test data point [True]
62 Text feature [performed] present in test data point [True]
63 Text feature [single] present in test data point [True]
65 Text feature [respectively] present in test data point [True]
67 Text feature [higher] present in test data point [True]
68 Text feature [identified] present in test data point [True]
70 Text feature [presence] present in test data point [True]
71 Text feature [observed] present in test data point [True]
72 Text feature [reported] present in test data point [True]
73 Text feature [cases] present in test data point [True]
75 Text feature [one] present in test data point [True]
76 Text feature [detection] present in test data point [True]
77 Text feature [clinically] present in test data point [True]
78 Text feature [tumor] present in test data point [True]
79 Text feature [pcr] present in test data point [True]
81 Text feature [common] present in test data point [True]
82 Text feature [20] present in test data point [True]
85 Text feature [previously] present in test data point [True]
86 Text feature [revealed] present in test data point [True]
87 Text feature [subsequently] present in test data point [True]
88 Text feature [19] present in test data point [True]
90 Text feature [analysis] present in test data point [True]
91 Text feature [17] present in test data point [True]
92 Text feature [similar] present in test data point [True]
94 Text feature [new] present in test data point [True]
95 Text feature [present] present in test data point [True]
Out of the top 100 features 60 are present in query point

```

#### 4.1.1.4. Feature Importance, Incorrectly classified point

In [60]:

```

test_point_index = 100
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_impfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation']
.iloc[test_point_index], no_feature)

```

```

Predicted Class : 7
Predicted Class Probabilities: [[0.0517 0.1217 0.0058 0.0419 0.0258 0.0483 0.6999 0.003 0.0019]]
Actual Class : 7
-----
15 Text feature [cells] present in test data point [True]
16 Text feature [cell] present in test data point [True]
20 Text feature [contrast] present in test data point [True]
22 Text feature [activation] present in test data point [True]
23 Text feature [kinase] present in test data point [True]
24 Text feature [shown] present in test data point [True]
25 Text feature [factor] present in test data point [True]
27 Text feature [presence] present in test data point [True]
28 Text feature [phosphorylation] present in test data point [True]
29 Text feature [growth] present in test data point [True]
32 Text feature [also] present in test data point [True]
33 Text feature [addition] present in test data point [True]
34 Text feature [signaling] present in test data point [True]
35 Text feature [however] present in test data point [True]
38 Text feature [suggest] present in test data point [True]
40 Text feature [potential] present in test data point [True]
41 Text feature [independent] present in test data point [True]
42 Text feature [10] present in test data point [True]
43 Text feature [similar] present in test data point [True]
44 Text feature [compared] present in test data point [True]

```

```

46 Text feature [mutant] present in test data point [True]
50 Text feature [well] present in test data point [True]
52 Text feature [showed] present in test data point [True]
53 Text feature [treatment] present in test data point [True]
54 Text feature [including] present in test data point [True]
58 Text feature [la] present in test data point [True]
60 Text feature [various] present in test data point [True]
61 Text feature [mutations] present in test data point [True]
65 Text feature [tyrosine] present in test data point [True]
69 Text feature [using] present in test data point [True]
70 Text feature [may] present in test data point [True]
71 Text feature [pathways] present in test data point [True]
72 Text feature [constitutive] present in test data point [True]
73 Text feature [without] present in test data point [True]
74 Text feature [antibodies] present in test data point [True]
76 Text feature [fig] present in test data point [True]
77 Text feature [expression] present in test data point [True]
79 Text feature [total] present in test data point [True]
80 Text feature [obtained] present in test data point [True]
81 Text feature [activating] present in test data point [True]
84 Text feature [demonstrated] present in test data point [True]
87 Text feature [mutation] present in test data point [True]
88 Text feature [survival] present in test data point [True]
89 Text feature [role] present in test data point [True]
91 Text feature [observed] present in test data point [True]
92 Text feature [expressed] present in test data point [True]
93 Text feature [suggesting] present in test data point [True]
94 Text feature [absence] present in test data point [True]
95 Text feature [respectively] present in test data point [True]
97 Text feature [confirmed] present in test data point [True]
98 Text feature [serum] present in test data point [True]
Out of the top 100 features 51 are present in query point

```

## 4.2. K Nearest Neighbour Classification

### 4.2.1. Hyper parameter tuning

In [61]:

```

# find more about KNeighborsClassifier() here http://scikit-
learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifier.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a-toy-example-1/
#-----


# find more about CalibratedClassifierCV here at http://scikit-
learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [5, 11, 15, 21, 31, 41, 51, 99]

```

```

cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = KNeighborsClassifier(n_neighbors=i)
    clf.fit(train_x_responseCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_responseCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train,
predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_lo
ss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, p
redict_y, labels=clf.classes_, eps=1e-15))

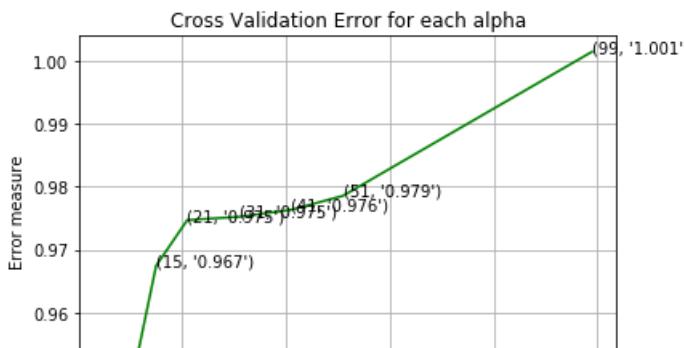
# Variables that will be used in the end to make comparison table of all models
knn_train = log_loss(y_train, sig_clf.predict_proba(train_x_responseCoding), labels=clf.classes_, e
ps=1e-15)
knn_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_responseCoding), labels=clf.classes_, eps=1e-15)
knn_test = log_loss(y_test, sig_clf.predict_proba(test_x_responseCoding), labels=clf.classes_, eps=
1e-15)

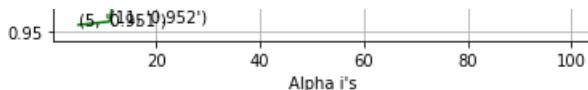
```

```

for alpha = 5
Log Loss : 0.9510146980808494
for alpha = 11
Log Loss : 0.9515392431383316
for alpha = 15
Log Loss : 0.9674232798933261
for alpha = 21
Log Loss : 0.9746875427753696
for alpha = 31
Log Loss : 0.9752062291224197
for alpha = 41
Log Loss : 0.9763160954900443
for alpha = 51
Log Loss : 0.9785453963185403
for alpha = 99
Log Loss : 1.0014682418830039

```





For values of best alpha = 5 The train log loss is: 0.4982291610852055  
 For values of best alpha = 5 The cross validation log loss is: 0.9510146980808494  
 For values of best alpha = 5 The test log loss is: 1.0900574517238337

#### 4.2.2. Testing the model with best hyper parameters

In [62]:

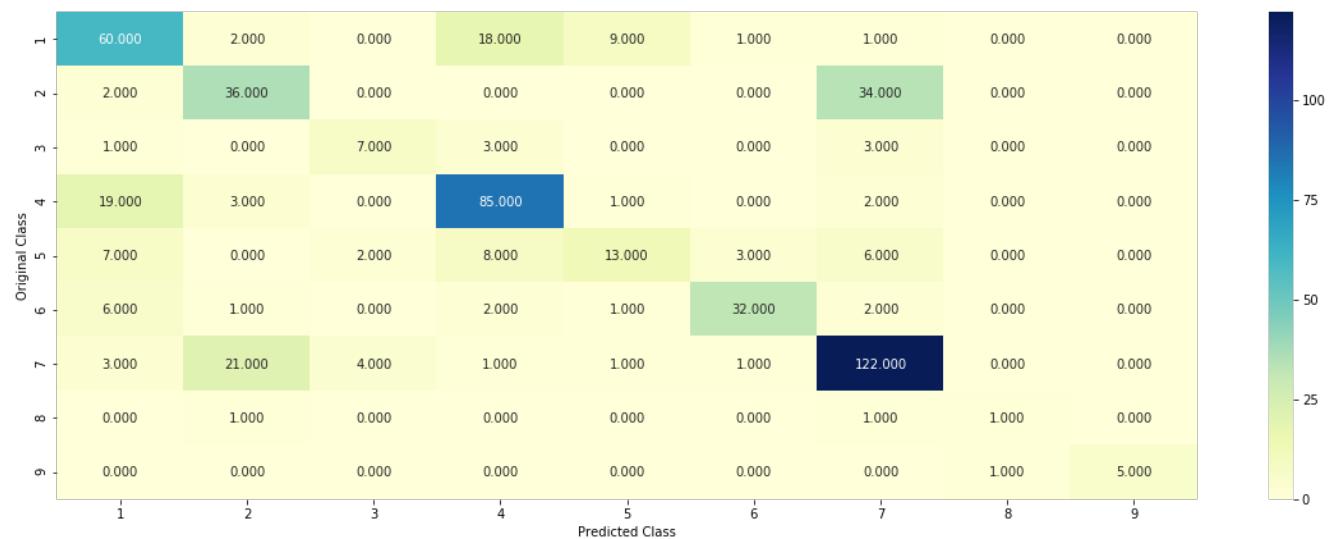
```
# find more about KNeighborsClassifier() here http://scikit-learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifier.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a-toy-example-1/
# -----
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)

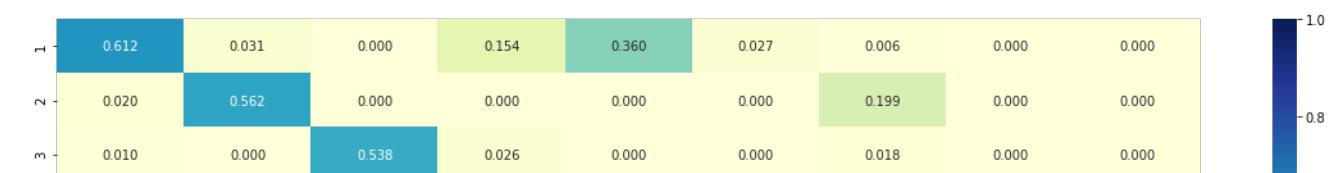
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

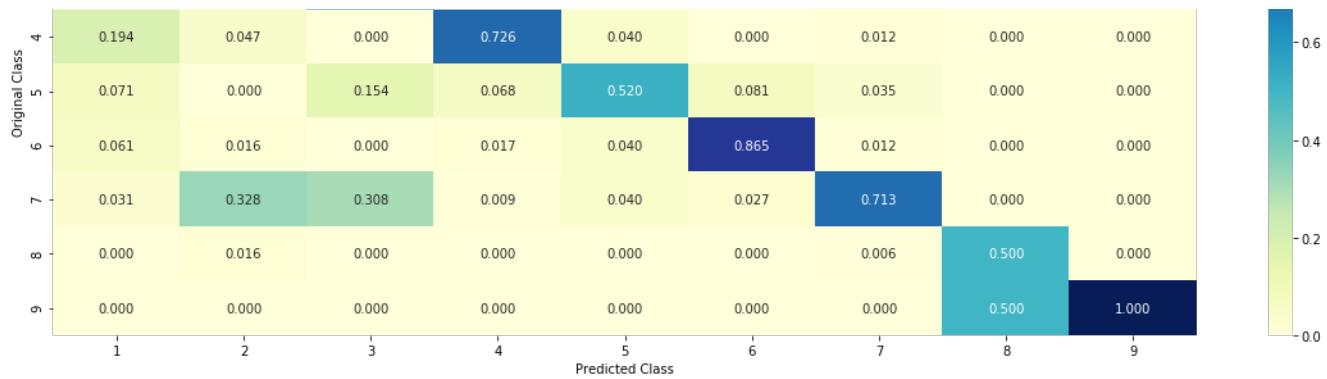
# Variables that will be used in the end to make comparison table of models
knn_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_responseCoding) - cv_y)) / cv_y.shape[0]) * 100
```

Log loss : 0.9510146980808494  
 Number of mis-classified points : 0.32142857142857145  
 ----- Confusion matrix -----

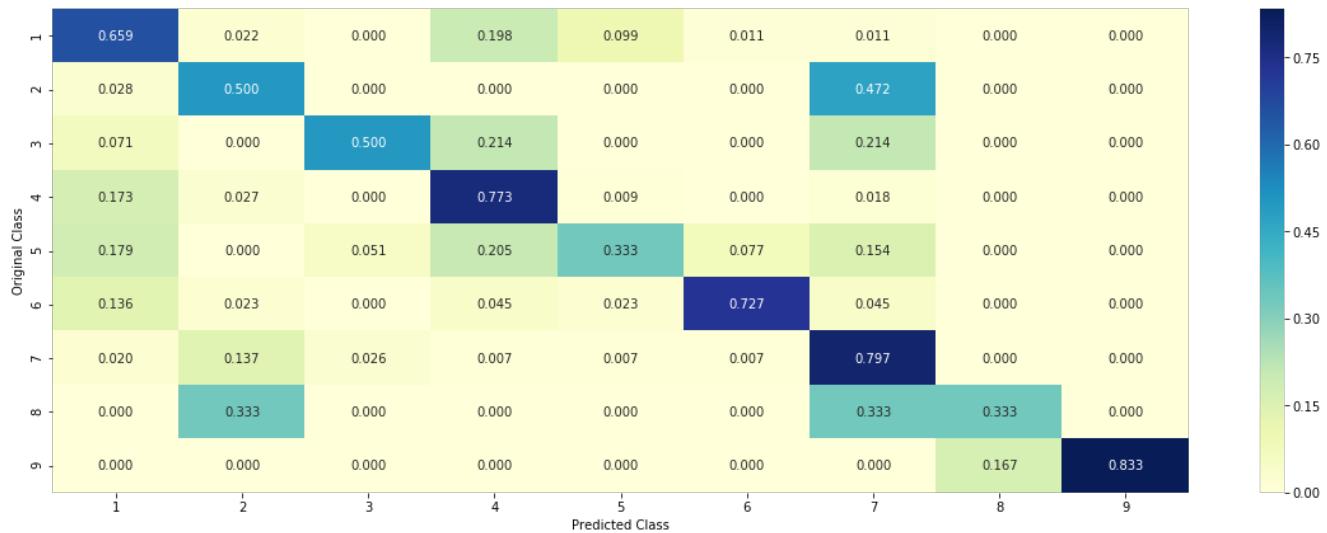


----- Precision matrix (Column Sum=1) -----





----- Recall matrix (Row sum=1) -----



#### 4.2.3. Sample Query point -1

In [63]:

```

clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

test_point_index = 1
predicted_cls = sig_clf.predict(test_x_responseCoding[0].reshape(1,-1))
print("Predicted Class : ", predicted_cls[0])
print("Actual Class : ", test_y[test_point_index])
neighbors = clf.kneighbors(test_x_responseCoding[test_point_index].reshape(1, -1), alpha[best_alpha])
print("The ",alpha[best_alpha]," nearest neighbours of the test points belongs to classes",train_y[neighbors[1][0]])
print("Frequency of nearest points : ",Counter(train_y[neighbors[1][0]]))

```

Predicted Class : 2

Actual Class : 7

The 5 nearest neighbours of the test points belongs to classes [2 2 7 6 2]

Frequency of nearest points : Counter({2: 3, 7: 1, 6: 1})

#### 4.2.4. Sample Query Point-2

In [64]:

```

clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

```

```

test_point_index = 100

predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Actual Class :", test_y[test_point_index])
neighbors = clf.kneighbors(test_x_responseCoding[test_point_index].reshape(1, -1), alpha[best_alpha])
print("the k value for knn is",alpha[best_alpha],"and the nearest neighbours of the test points be
longs to classes",train_y[neighbors[1][0]])
print("Frequency of nearest points :",Counter(train_y[neighbors[1][0]]))

```

```

Predicted Class : 7
Actual Class : 7
the k value for knn is 5 and the nearest neighbours of the test points belongs to classes [7 6 6 7
7]
Frequency of nearest points : Counter({7: 3, 6: 2})

```

## 4.3. Logistic Regression

### 4.3.1. With Class balancing

#### 4.3.1.1. Hyper parameter tuning

In [65]:

```

# read more about SGDClassifier() at http://scikit-
learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_i
ter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0
=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-in
tuition-1/
#-----

# find more about CalibratedClassifierCV here at http://scikit-
learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))

```

```

# to avoid rounding error while multiplying probalites we use log-probability estimates
print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

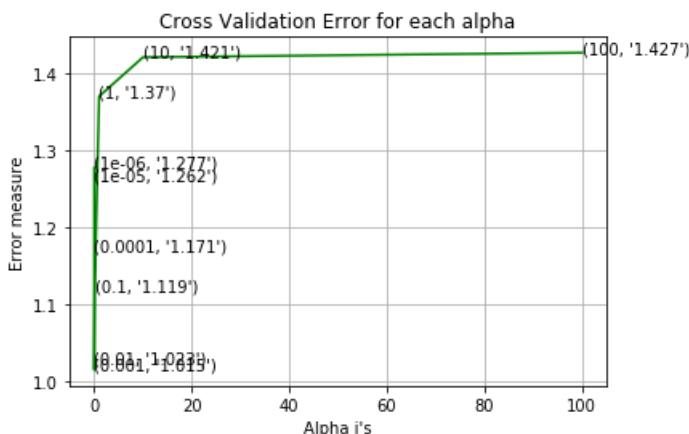
# Variables that will be used in the end to make comparison table of all models
lr_balance_train = log_loss(y_train, sig_clf.predict_proba(train_x_onehotCoding), labels=clf.classes_, eps=1e-15)
lr_balance_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_onehotCoding), labels=clf.classes_, eps=1e-15)
lr_balance_test = log_loss(y_test, sig_clf.predict_proba(test_x_onehotCoding), labels=clf.classes_, eps=1e-15)

```

```

for alpha = 1e-06
Log Loss : 1.2773586650039546
for alpha = 1e-05
Log Loss : 1.2615382157954655
for alpha = 0.0001
Log Loss : 1.170698475378687
for alpha = 0.001
Log Loss : 1.0154443081532507
for alpha = 0.01
Log Loss : 1.023423876731748
for alpha = 0.1
Log Loss : 1.1188092026481833
for alpha = 1
Log Loss : 1.370093304394974
for alpha = 10
Log Loss : 1.4207606708580434
for alpha = 100
Log Loss : 1.4266027743008265

```



```
For values of best alpha = 0.001 The train log loss is: 0.5805033283175989
For values of best alpha = 0.001 The cross validation log loss is: 1.0154443081532507
For values of best alpha = 0.001 The test log loss is: 1.1477666434689766
```

#### 4.3.1.2. Testing the model with best hyper parameters

In [66]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
# -----
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

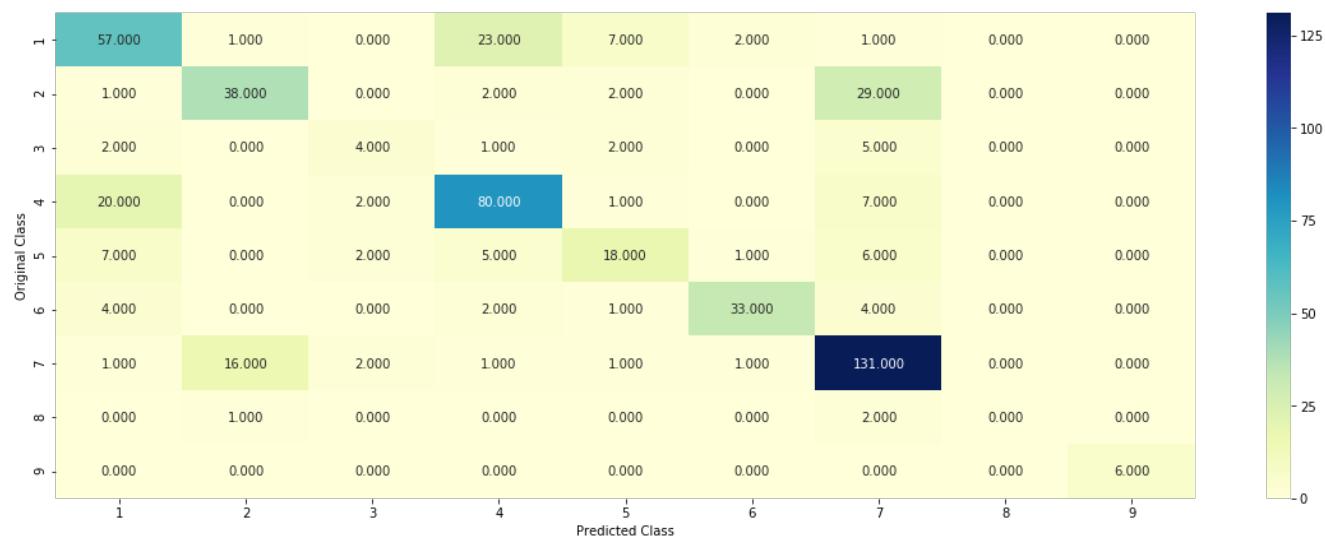
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

# Variables that will be used in the end to make comparison table of models
lr_balance_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)-
cv_y))/cv_y.shape[0])*100
```

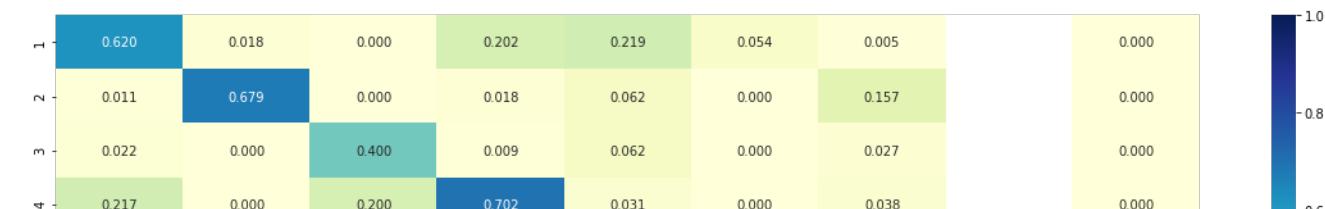
Log loss : 1.0154443081532507

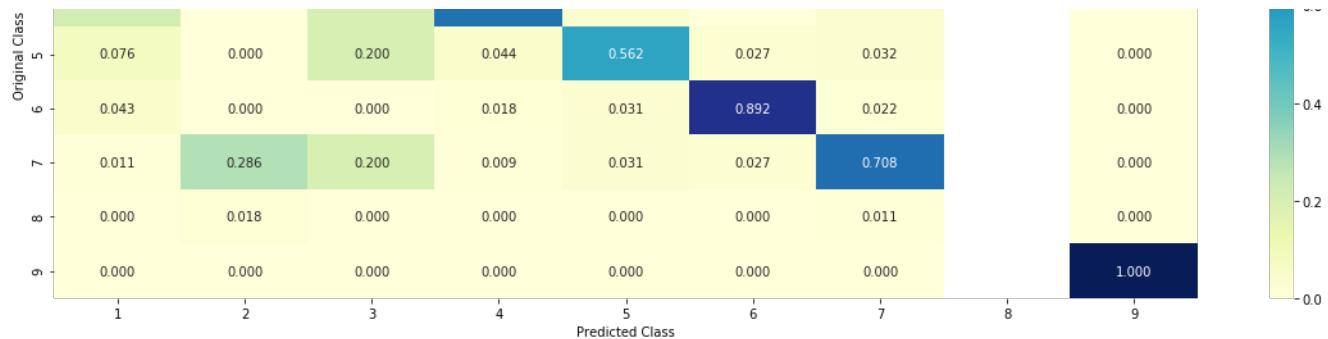
Number of mis-classified points : 0.3101503759398496

----- Confusion matrix -----

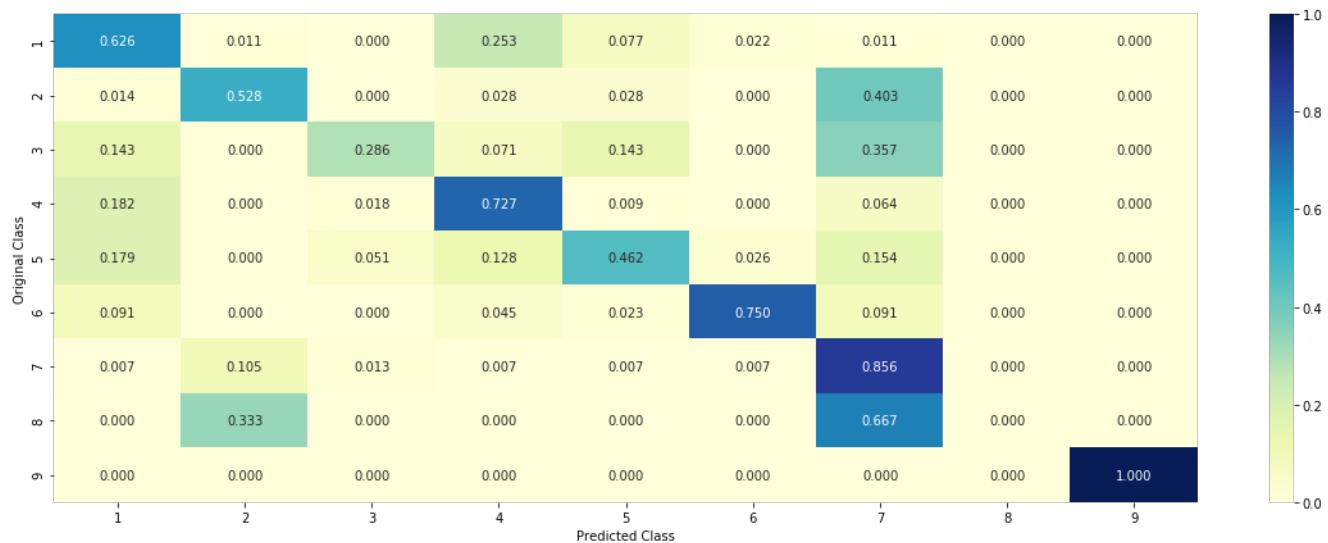


----- Precision matrix (Column Sum=1) -----





----- Recall matrix (Row sum=1) -----



#### 4.3.1.3. Feature Importance

In [67]:

```
def get_imp_feature_names(text, indices, removed_ind = []):
    word_present = 0
    tabulte_list = []
    incresingorder_ind = 0
    for i in indices:
        if i < train_gene_feature_onehotCoding.shape[1]:
            tabulte_list.append([incresingorder_ind, "Gene", "Yes"])
        elif i < 18:
            tabulte_list.append([incresingorder_ind, "Variation", "Yes"])
        if ((i > 17) & (i not in removed_ind)):
            word = train_text_features[i]
            yes_no = True if word in text.split() else False
            if yes_no:
                word_present += 1
            tabulte_list.append([incresingorder_ind, train_text_features[i], yes_no])
        incresingorder_ind += 1
    print(word_present, "most important features are present in our query point")
    print("-" * 50)
    print("The features that are most importent of the ", predicted_cls[0], " class:")
    print(tabulate(tabulte_list, headers=["Index", 'Feature name', 'Present or Not']))
```

##### 4.3.1.3.1. Correctly Classified point

In [68]:

```
# from tabulate import tabulate
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
test_point_index = 1
no_feature = 500
```

```

predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation']
.iloc[test_point_index], no_feature)

```

```

Predicted Class : 2
Predicted Class Probabilities: [[0.0092 0.8928 0.0061 0.0097 0.0122 0.0083 0.05 0.0066 0.0051]]
Actual Class : 7
-----
132 Text feature [disproportionate] present in test data point [True]
190 Text feature [g106] present in test data point [True]
198 Text feature [compromised] present in test data point [True]
208 Text feature [infers] present in test data point [True]
217 Text feature [pfastbac] present in test data point [True]
231 Text feature [corporation] present in test data point [True]
302 Text feature [hormonally] present in test data point [True]
335 Text feature [anatomical] present in test data point [True]
376 Text feature [philadelphia] present in test data point [True]
Out of the top 500 features 9 are present in query point

```

#### 4.3.1.3.2. Incorrectly Classified point

In [69]:

```

test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation']
.iloc[test_point_index], no_feature)

```

```

Predicted Class : 7
Predicted Class Probabilities: [[0.0164 0.0532 0.0064 0.0067 0.0189 0.2556 0.6317 0.0058 0.0051]]
Actual Class : 7
-----
65 Text feature [constitutive] present in test data point [True]
123 Text feature [activation] present in test data point [True]
157 Text feature [ligand] present in test data point [True]
176 Text feature [soft] present in test data point [True]
188 Text feature [oncogene] present in test data point [True]
312 Text feature [recurrence] present in test data point [True]
324 Text feature [technology] present in test data point [True]
325 Text feature [phosphol] present in test data point [True]
483 Text feature [malignant] present in test data point [True]
Out of the top 500 features 9 are present in query point

```

## 4.3.2. Without Class balancing

### 4.3.2.1. Hyper parameter tuning

In [70]:

```

# read more about SGDClassifier() at http://scikit-
learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_
iter=None, tol=None,

```

```

# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-6, 1)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

# Variables that will be used in the end to make comparison table of all models
lr_train = log_loss(y_train, sig_clf.predict_proba(train_x_onehotCoding), labels=clf.classes_, eps=1e-15)
lr_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_onehotCoding), labels=clf.classes_, eps=1e-15)
lr_test = log_loss(y_test, sig_clf.predict_proba(test_x_onehotCoding), labels=clf.classes_, eps=1e-15)

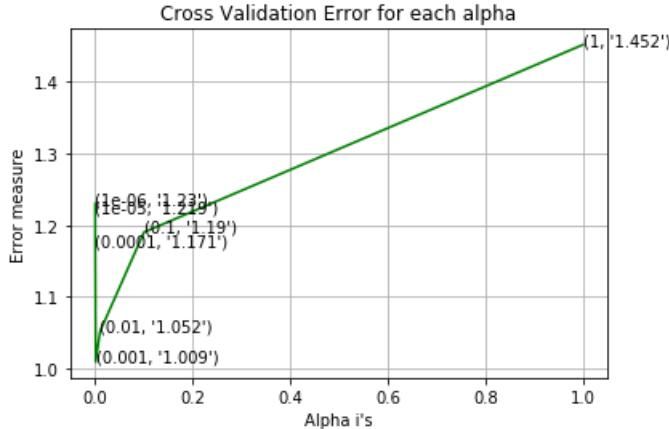
for alpha = 1e-06

```

```

for alpha = 1e-05
Log Loss : 1.2299130331022068
for alpha = 1e-05
Log Loss : 1.2188998728432234
for alpha = 0.0001
Log Loss : 1.1706704987640468
for alpha = 0.001
Log Loss : 1.0092322091230943
for alpha = 0.01
Log Loss : 1.0517469538729463
for alpha = 0.1
Log Loss : 1.1900382445776627
for alpha = 1
Log Loss : 1.4516404078130334

```



```

For values of best alpha = 0.001 The train log loss is: 0.5691533571498161
For values of best alpha = 0.001 The cross validation log loss is: 1.0092322091230943
For values of best alpha = 0.001 The test log loss is: 1.1534269803089494

```

#### 4.3.2.2. Testing model with best hyper parameters

In [71]:

```

# read more about SGDClassifier() at http://scikit-
learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_i
ter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0
=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link:
#-----

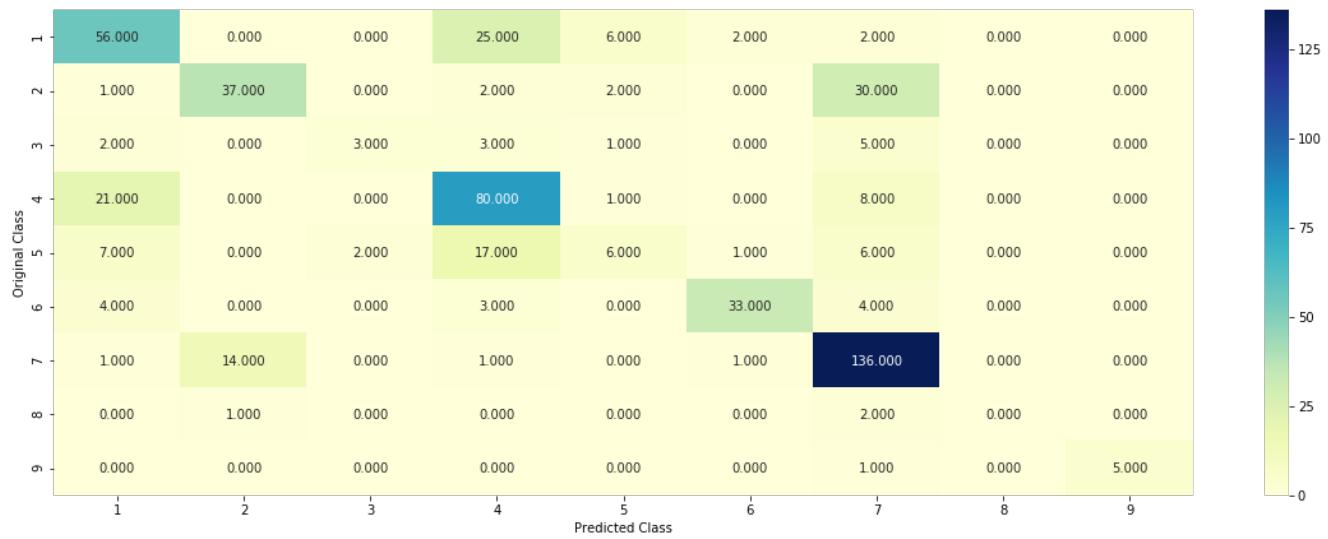
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

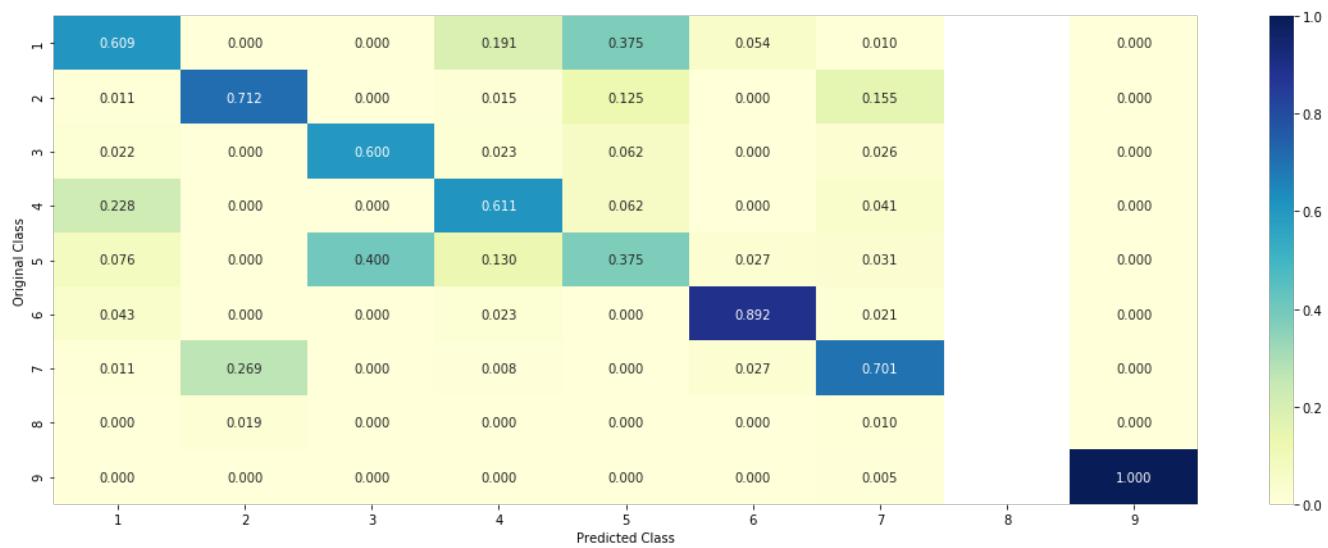
# Variables that will be used in the end to make comparison table of models
lr_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)-
cv_y))/cv_y.shape[0])*100

Log loss : 1.0092322091230943
Number of mis-classified points : 0.3308270676691729
----- Confusion matrix -----

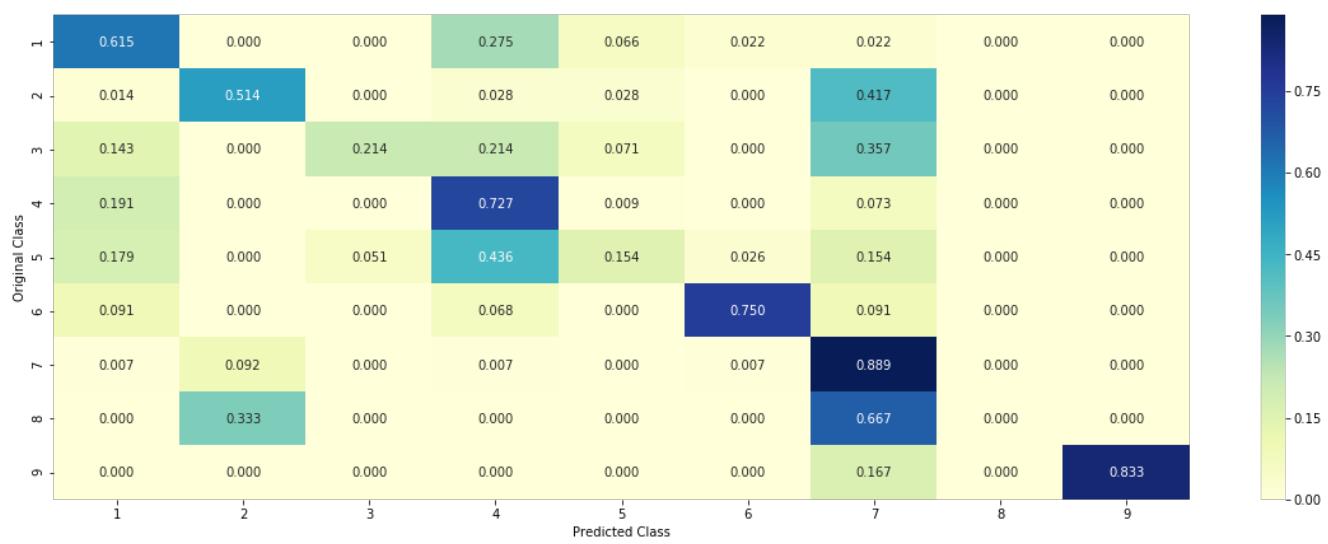
```



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



#### 4.3.2.3. Feature Importance, Correctly Classified point

In [72]:

```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
```

```

clf.fit(train_x_onehotCoding,train_y)
test_point_index = 1
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation']
.iloc[test_point_index], no_feature)

```

```

Predicted Class : 2
Predicted Class Probabilities: [[0.0117 0.8589 0.0023 0.0135 0.0117 0.0077 0.0904 0.0027 0.0011]]
Actual Class : 7
-----
126 Text feature [disproportionate] present in test data point [True]
189 Text feature [g106] present in test data point [True]
192 Text feature [comprised] present in test data point [True]
203 Text feature [infers] present in test data point [True]
219 Text feature [pfastbac] present in test data point [True]
250 Text feature [corporation] present in test data point [True]
303 Text feature [hormonally] present in test data point [True]
320 Text feature [anatomical] present in test data point [True]
339 Text feature [philadelphia] present in test data point [True]
Out of the top 500 features 9 are present in query point

```

#### 4.3.2.4. Feature Importance, Inorrectly Classified point

In [73]:

```

test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation']
.iloc[test_point_index], no_feature)

```

```

Predicted Class : 7
Predicted Class Probabilities: [[0.0239 0.0633 0.003 0.0085 0.0167 0.2538 0.6252 0.0039 0.0018]]
Actual Class : 7
-----
133 Text feature [constitutive] present in test data point [True]
188 Text feature [activation] present in test data point [True]
257 Text feature [oncogene] present in test data point [True]
263 Text feature [soft] present in test data point [True]
268 Text feature [ligand] present in test data point [True]
320 Text feature [recurrence] present in test data point [True]
333 Text feature [phospho] present in test data point [True]
429 Text feature [phosphorylation] present in test data point [True]
461 Text feature [technology] present in test data point [True]
475 Text feature [overexpression] present in test data point [True]
Out of the top 500 features 10 are present in query point

```

## 4.4. Linear Support Vector Machines

### 4.4.1. Hyper parameter tuning

In [74]:

```

# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html

```

```

# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-5, 3)]
cv_log_error_array = []
for i in alpha:
    print("for C =", i)
    # clf = SVC(C=i, kernel='linear', probability=True, class_weight='balanced')
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='hinge', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()


best_alpha = np.argmin(cv_log_error_array)
# clf = SVC(C=i, kernel='linear', probability=True, class_weight='balanced')
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

# Variables that will be used in the end to make comparison table of all models

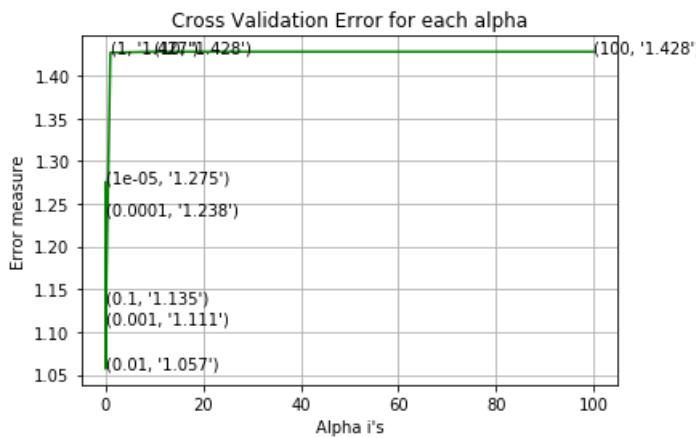
```

```

svm_train = log_loss(y_train, sig_clf.predict_proba(train_x_onehotCoding), labels=clf.classes_, eps=1e-15)
svm_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_onehotCoding), labels=clf.classes_, eps=1e-15)
svm_test = log_loss(y_test, sig_clf.predict_proba(test_x_onehotCoding), labels=clf.classes_, eps=1e-15)

for C = 1e-05
Log Loss : 1.2751755867553678
for C = 0.0001
Log Loss : 1.2381736464290658
for C = 0.001
Log Loss : 1.110562170713606
for C = 0.01
Log Loss : 1.0569005111059004
for C = 0.1
Log Loss : 1.1345042715686888
for C = 1
Log Loss : 1.4266477445722574
for C = 10
Log Loss : 1.4277145911219473
for C = 100
Log Loss : 1.427715113554447

```



For values of best alpha = 0.01 The train log loss is: 0.7123238469601358  
 For values of best alpha = 0.01 The cross validation log loss is: 1.0569005111059004  
 For values of best alpha = 0.01 The test log loss is: 1.217459561380437

#### 4.4.2. Testing model with best hyper parameters

In [75]:

```

# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html

# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# clf = SVC(C=alpha[best_alpha],kernel='linear',probability=True, class_weight='balanced')
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='hinge',
random_state=42, class_weight='balanced')
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

clf.fit(train_x_onehotCoding, train_y)

```

```

sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

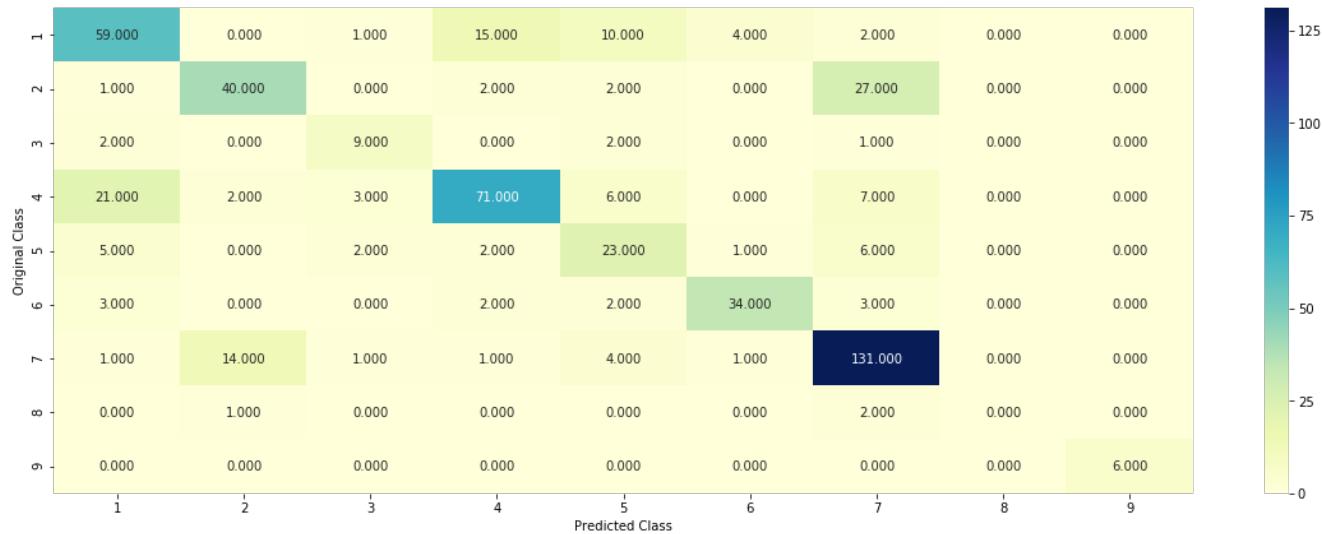
# Variables that will be used in the end to make comparison table of models
svm_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)- cv_y))/cv_y.shape[0])*100

```

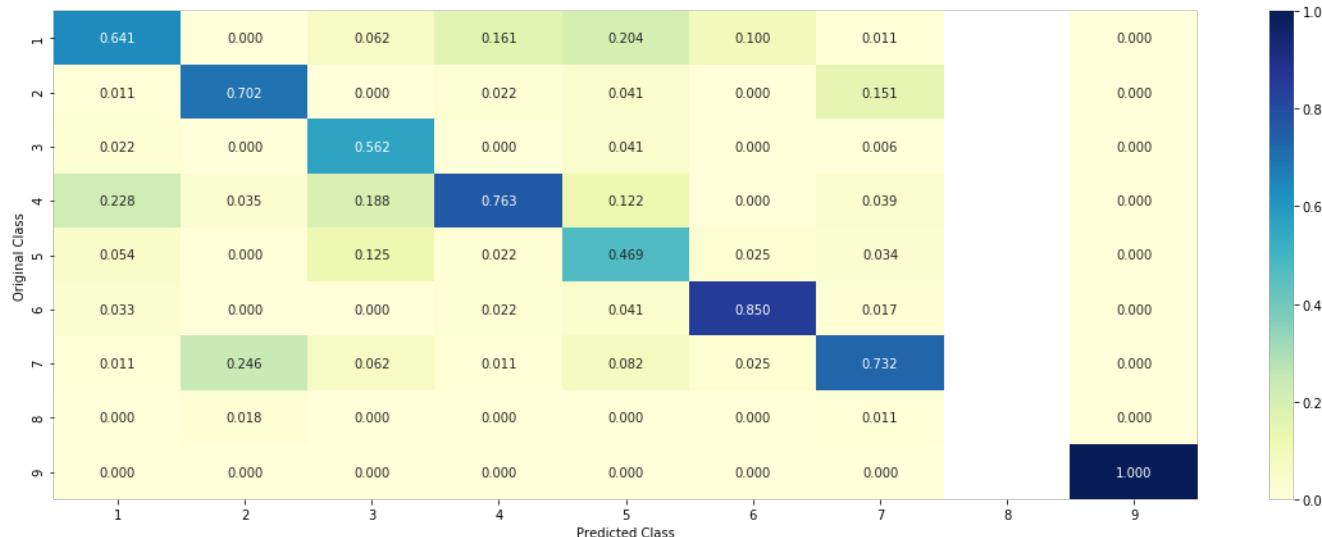
Log loss : 1.0569005111059004

Number of mis-classified points : 0.29887218045112784

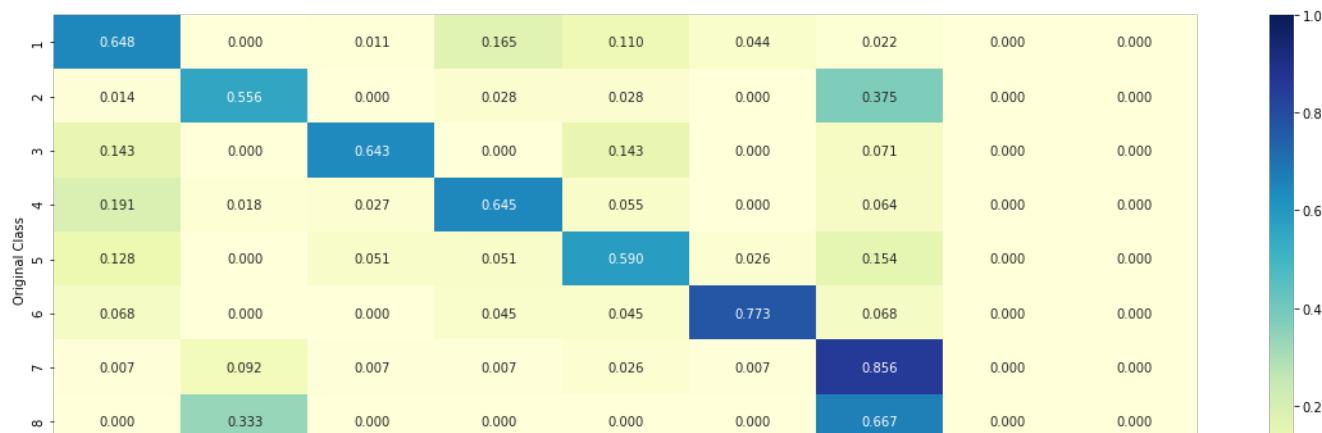
----- Confusion matrix -----

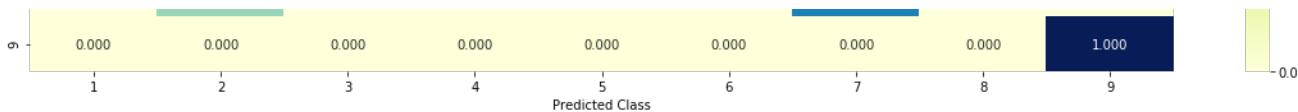


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





### 4.3.3. Feature Importance

#### 4.3.3.1. For Correctly classified point

In [76]:

```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42)
clf.fit(train_x_onehotCoding,train_y)
test_point_index = 1
# test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-" * 50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)

Predicted Class : 2
Predicted Class Probabilities: [[0.0281 0.8637 0.0072 0.0205 0.02 0.0147 0.0327 0.0079 0.0053]]
Actual Class : 7
-----
61 Text feature [g106] present in test data point [True]
69 Text feature [comprised] present in test data point [True]
123 Text feature [disproportionate] present in test data point [True]
207 Text feature [hormonally] present in test data point [True]
221 Text feature [anatomical] present in test data point [True]
245 Text feature [philadelphia] present in test data point [True]
248 Text feature [infers] present in test data point [True]
249 Text feature [pfastbac] present in test data point [True]
328 Text feature [0003] present in test data point [True]
335 Text feature [corporation] present in test data point [True]
415 Text feature [1mm] present in test data point [True]
451 Text feature [therapy] present in test data point [True]
Out of the top 500 features 12 are present in query point
```

#### 4.3.3.2. For Incorrectly classified point

In [77]:

```
test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-" * 50)
get_imfeature_names(indices[0],
test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)

Predicted Class : 7
Predicted Class Probabilities: [[0.0235 0.0477 0.0093 0.0219 0.0238 0.2807 0.5807 0.0072 0.0053]]
Actual Class : 7
-----
43 Text feature [constitutive] present in test data point [True]
47 Text feature [activation] present in test data point [True]
68 Text feature [soft] present in test data point [True]
79 Text feature [phospho] present in test data point [True]
```

```

96 Text feature [ligand] present in test data point [True]
106 Text feature [technology] present in test data point [True]
131 Text feature [phosphorylation] present in test data point [True]
163 Text feature [starved] present in test data point [True]
218 Text feature [signaling] present in test data point [True]
224 Text feature [oncogene] present in test data point [True]
239 Text feature [akt3] present in test data point [True]
353 Text feature [serum] present in test data point [True]
361 Text feature [sorafenib] present in test data point [True]
388 Text feature [activating] present in test data point [True]
400 Text feature [factor] present in test data point [True]
Out of the top 500 features 15 are present in query point

```

## 4.5 Random Forest Classifier

### 4.5.1. Hyper parameter tuning (With One hot Encoding)

In [78]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
# verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [100,200,500,1000,2000]
max_depth = [5, 10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i, "and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_onehotCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_onehotCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("Log Loss :", log_loss(cv_y, sig_clf_probs))

```

```

'''fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[:,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/2)],max_depth[int(i%2)],str(txt)),
    (features[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
'''

best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha/2)], random_state=42, n_jobs=-1)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

# Variables that will be used in the end to make comparison table of all models
rf_train = log_loss(y_train, sig_clf.predict_proba(train_x_onehotCoding), labels=clf.classes_, eps=1e-15)
rf_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_onehotCoding), labels=clf.classes_, eps=1e-15)
rf_test = log_loss(y_test, sig_clf.predict_proba(test_x_onehotCoding), labels=clf.classes_, eps=1e-15)

```

```

for n_estimators = 100 and max depth = 5
Log Loss : 1.1818869115360586
for n_estimators = 100 and max depth = 10
Log Loss : 1.1309454385727051
for n_estimators = 200 and max depth = 5
Log Loss : 1.1718613767538055
for n_estimators = 200 and max depth = 10
Log Loss : 1.1273558535860633
for n_estimators = 500 and max depth = 5
Log Loss : 1.1713778111014033
for n_estimators = 500 and max depth = 10
Log Loss : 1.1120305418506515
for n_estimators = 1000 and max depth = 5
Log Loss : 1.165618533528206
for n_estimators = 1000 and max depth = 10
Log Loss : 1.1052830093925166
for n_estimators = 2000 and max depth = 5
Log Loss : 1.1642124209377898
for n_estimators = 2000 and max depth = 10
Log Loss : 1.1018185676203962
For values of best estimator = 2000 The train log loss is: 0.6517342479760461
For values of best estimator = 2000 The cross validation log loss is: 1.1018185676203962
For values of best estimator = 2000 The test log loss is: 1.1842947448817933

```

## 4.5.2. Testing model with best hyper parameters (One Hot Encoding)

In [79]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
# verbose=0, warm_start=False,
# 
```

```

# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha/2)], random_state=42, n_jobs=-1)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

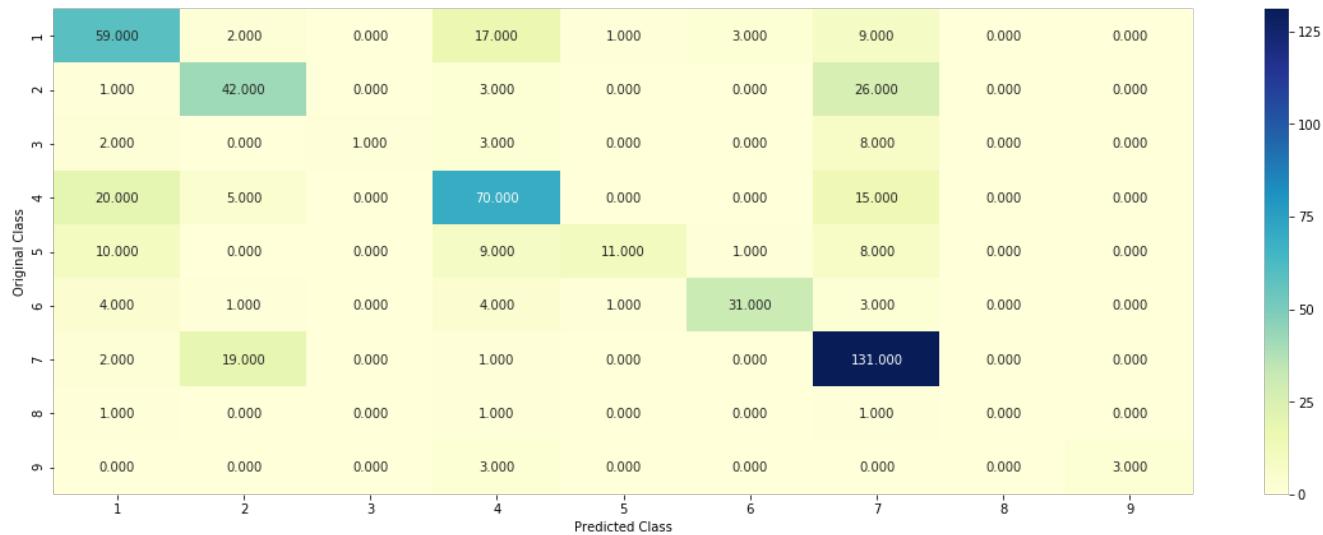
# Variables that will be used in the end to make comparison table of models
rf_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)-
cv_y))/cv_y.shape[0])*100

```

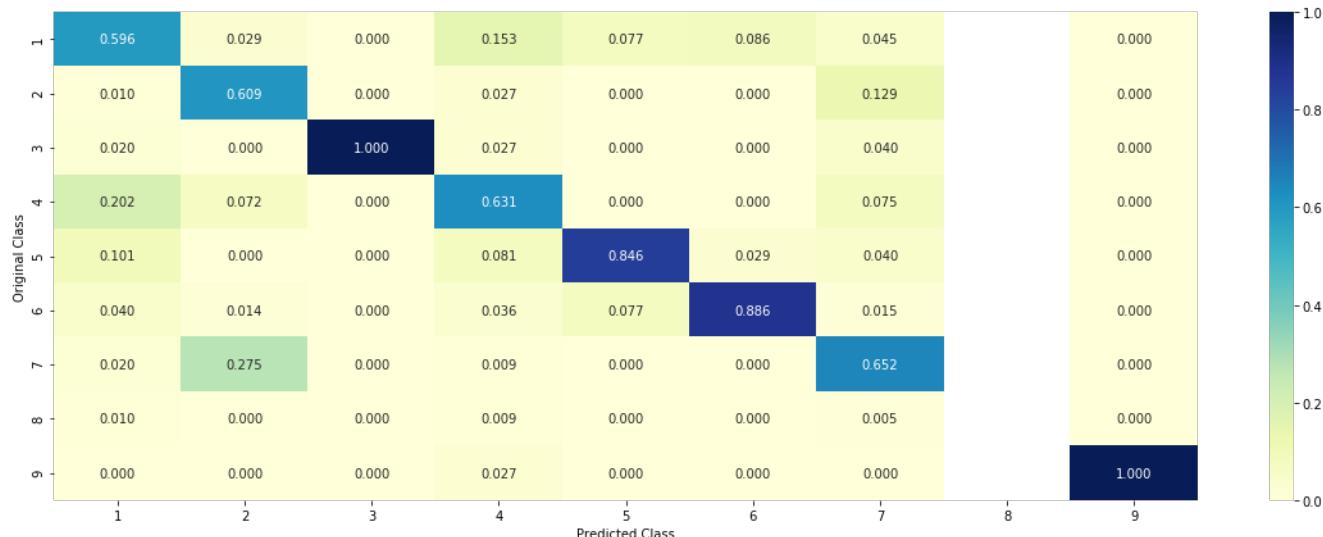
Log loss : 1.1018185676203964

Number of mis-classified points : 0.3458646616541353

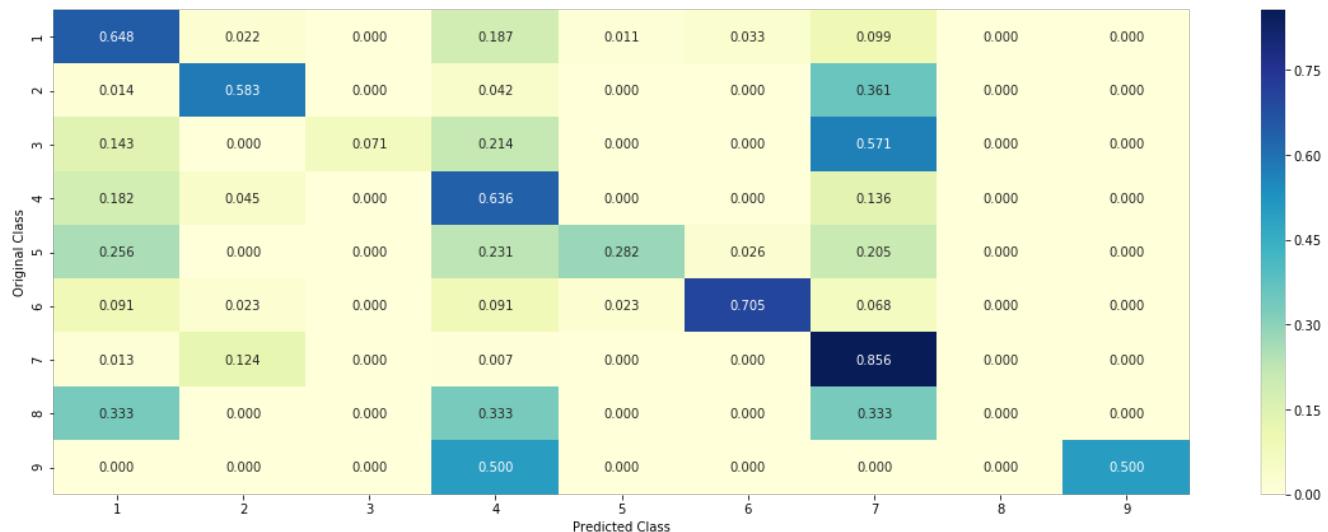
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



### 4.5.3. Feature Importance

#### 4.5.3.1. Correctly Classified point

In [80]:

```
# test_point_index = 10
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha/2)], random_state=42, n_jobs=-1)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

test_point_index = 1
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-" * 50)
get_imfeature_names(indices[:no_feature], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 2  
Predicted Class Probabilities: [[0.076 0.5297 0.0196 0.0627 0.0484 0.0439 0.2077 0.0057 0.0063]]  
Actual Class : 7  
-----  
0 Text feature [kinase] present in test data point [True]  
1 Text feature [activating] present in test data point [True]  
3 Text feature [inhibitors] present in test data point [True]  
4 Text feature [activation] present in test data point [True]  
6 Text feature [phosphorylation] present in test data point [True]  
7 Text feature [inhibitor] present in test data point [True]  
9 Text feature [treatment] present in test data point [True]  
10 Text feature [downstream] present in test data point [True]  
14 Text feature [growth] present in test data point [True]  
15 Text feature [signaling] present in test data point [True]  
16 Text feature [loss] present in test data point [True]  
19 Text feature [therapeutic] present in test data point [True]  
20 Text feature [function] present in test data point [True]  
21 Text feature [cells] present in test data point [True]  
22 Text feature [therapy] present in test data point [True]  
25 Text feature [advanced] present in test data point [True]  
27 Text feature [proliferation] present in test data point [True]  
28 Text feature [protein] present in test data point [True]  
29 Text feature [activated] present in test data point [True]

```

29 Text feature [activates] present in test data point [True]
31 Text feature [trials] present in test data point [True]
32 Text feature [akt] present in test data point [True]
36 Text feature [expressing] present in test data point [True]
39 Text feature [patients] present in test data point [True]
42 Text feature [cell] present in test data point [True]
43 Text feature [variants] present in test data point [True]
44 Text feature [serum] present in test data point [True]
50 Text feature [functional] present in test data point [True]
52 Text feature [survival] present in test data point [True]
55 Text feature [phospho] present in test data point [True]
56 Text feature [starved] present in test data point [True]
58 Text feature [lines] present in test data point [True]
69 Text feature [clinical] present in test data point [True]
74 Text feature [variant] present in test data point [True]
75 Text feature [phosphatase] present in test data point [True]
77 Text feature [amplification] present in test data point [True]
79 Text feature [efficacy] present in test data point [True]
81 Text feature [potential] present in test data point [True]
87 Text feature [patient] present in test data point [True]
90 Text feature [phosphorylated] present in test data point [True]
96 Text feature [proteins] present in test data point [True]
99 Text feature [effective] present in test data point [True]
Out of the top 100 features 41 are present in query point

```

#### 4.5.3.2. Incorrectly Classified point

In [81]:

```

test_point_index = 100
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:",
np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-" * 50)
get_imptfeature_names(indices[:no_feature], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)

```

```

Predicted Class : 7
Predicted Class Probabilities: [[0.0673 0.1963 0.0234 0.058  0.0503 0.0668 0.5239 0.0068 0.0071]]
Actual Class : 7
-----
0 Text feature [kinase] present in test data point [True]
1 Text feature [activating] present in test data point [True]
2 Text feature [tyrosine] present in test data point [True]
3 Text feature [inhibitors] present in test data point [True]
4 Text feature [activation] present in test data point [True]
6 Text feature [phosphorylation] present in test data point [True]
9 Text feature [treatment] present in test data point [True]
12 Text feature [constitutive] present in test data point [True]
14 Text feature [growth] present in test data point [True]
15 Text feature [signaling] present in test data point [True]
17 Text feature [receptor] present in test data point [True]
19 Text feature [therapeutic] present in test data point [True]
20 Text feature [function] present in test data point [True]
21 Text feature [cells] present in test data point [True]
22 Text feature [therapy] present in test data point [True]
24 Text feature [months] present in test data point [True]
25 Text feature [advanced] present in test data point [True]
28 Text feature [protein] present in test data point [True]
35 Text feature [stability] present in test data point [True]
37 Text feature [kinases] present in test data point [True]
38 Text feature [drug] present in test data point [True]
39 Text feature [patients] present in test data point [True]
42 Text feature [cell] present in test data point [True]
44 Text feature [serum] present in test data point [True]
52 Text feature [survival] present in test data point [True]
55 Text feature [phospho] present in test data point [True]
56 Text feature [starved] present in test data point [True]
57 Text feature [autophosphorylation] present in test data point [True]
61 Text feature [stimulation] present in test data point [True]
64 Text feature [inhibited] present in test data point [True]

```

```

67 Text feature [extracellular] present in test data point [True]
69 Text feature [clinical] present in test data point [True]
71 Text feature [factor] present in test data point [True]
73 Text feature [ligand] present in test data point [True]
80 Text feature [harboring] present in test data point [True]
81 Text feature [potential] present in test data point [True]
84 Text feature [oncogene] present in test data point [True]
86 Text feature [sensitivity] present in test data point [True]
87 Text feature [patient] present in test data point [True]
90 Text feature [phosphorylated] present in test data point [True]
91 Text feature [chronic] present in test data point [True]
94 Text feature [lung] present in test data point [True]
96 Text feature [proteins] present in test data point [True]
97 Text feature [metastatic] present in test data point [True]
99 Text feature [effective] present in test data point [True]
Out of the top 100 features 45 are present in query point

```

#### 4.5.3. Hyper parameter tuning (With Response Coding)

In [82]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
# verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----
# video link:
# -----


alpha = [10,50,100,200,500,1000]
max_depth = [2,3,5,10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i, "and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_responseCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_responseCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("For n_estimators =", i, "log loss(cv_y, sig_clf_probs) = ", log_loss(cv_y, sig_clf_probs))

```

```

    print('Log Loss :', log_loss(cv_y, sig_cv_predictions))
'''

fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[:,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/4)],max_depth[int(i%4)],str(txt)),
    (features[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
'''


best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_depth=max_depth[int(best_alpha*4)], random_state=42, n_jobs=-1)
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The cross validation log loss is:"
, log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

# Variables that will be used in the end to make comparison table of all models
rf_response_train = log_loss(y_train, sig_clf.predict_proba(train_x_responseCoding),
labels=clf.classes_, eps=1e-15)
rf_response_cv = log_loss(y_cv, sig_clf.predict_proba(cv_x_responseCoding), labels=clf.classes_, eps=1e-15)
rf_response_test = log_loss(y_test, sig_clf.predict_proba(test_x_responseCoding), labels=clf.classes_, eps=1e-15)

```

```

for n_estimators = 10 and max depth =  2
Log Loss : 1.994733856203958
for n_estimators = 10 and max depth =  3
Log Loss : 1.4926626270283199
for n_estimators = 10 and max depth =  5
Log Loss : 1.2495939534067848
for n_estimators = 10 and max depth =  10
Log Loss : 1.6175965263406094
for n_estimators = 50 and max depth =  2
Log Loss : 1.6060328784761055
for n_estimators = 50 and max depth =  3
Log Loss : 1.2972663966717337
for n_estimators = 50 and max depth =  5
Log Loss : 1.183373749990586
for n_estimators = 50 and max depth =  10
Log Loss : 1.5993915947959625
for n_estimators = 100 and max depth =  2
Log Loss : 1.446844126089167
for n_estimators = 100 and max depth =  3
Log Loss : 1.3312525673166822
for n_estimators = 100 and max depth =  5
Log Loss : 1.1631740052849058
for n_estimators = 100 and max depth =  10
Log Loss : 1.6124689947947233
for n_estimators = 200 and max depth =  2
Log Loss : 1.5034842148293248
for n_estimators = 200 and max depth =  3
Log Loss : 1.3560907885973386
for n_estimators = 200 and max depth =  5
Log Loss : 1.2010609941892336
for n_estimators = 200 and max depth =  10
Log Loss : 1.5501953563105417
for n_estimators = 500 and max depth =  2
Log Loss : 1.5534948057870879
for n_estimators = 500 and max depth =  3
Log Loss : 1.4045347033607023
for n estimators = 500 and max depth =  5

```

```

Log Loss : 1.2276274399854747
for n_estimators = 500 and max depth = 10
Log Loss : 1.569123463699336
for n_estimators = 1000 and max depth = 2
Log Loss : 1.5327640789286892
for n_estimators = 1000 and max depth = 3
Log Loss : 1.4197820102503544
for n_estimators = 1000 and max depth = 5
Log Loss : 1.2210441561794274
for n_estimators = 1000 and max depth = 10
Log Loss : 1.5594817436726143
For values of best alpha = 100 The train log loss is: 0.058188754522200556
For values of best alpha = 100 The cross validation log loss is: 1.1631740052849058
For values of best alpha = 100 The test log loss is: 1.3200576712325822

```

#### 4.5.4. Testing model with best hyper parameters (Response Coding)

In [83]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_s
amples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_
impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-fores
t-and-their-construction-2/
# -----


clf = RandomForestClassifier(max_depth=max_depth[int(best_alpha%4)],
n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_features='auto', random_state=42)
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)

clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

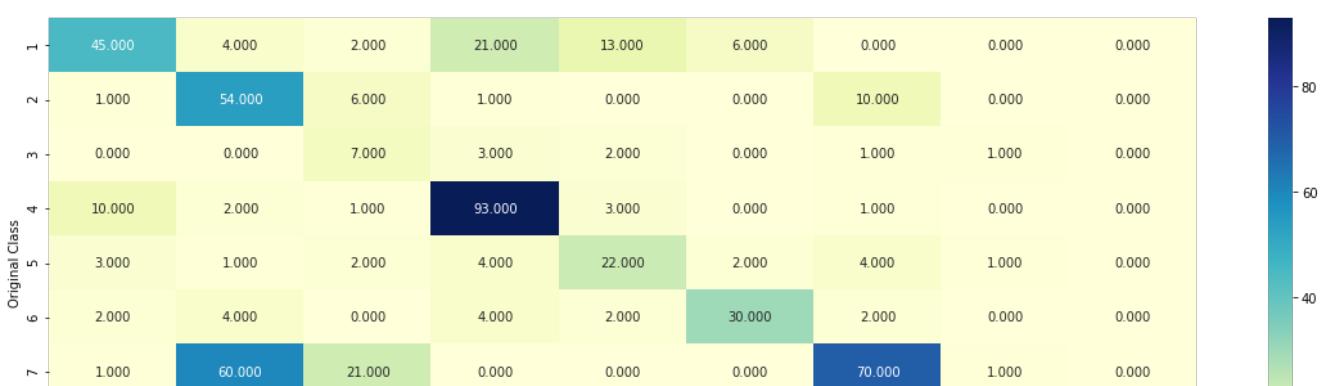
# Variables that will be used in the end to make comparison table of models
rf_response_misclassified = (np.count_nonzero((sig_clf.predict(cv_x_responseCoding)- cv_y))/cv_y.s
hape[0])*100

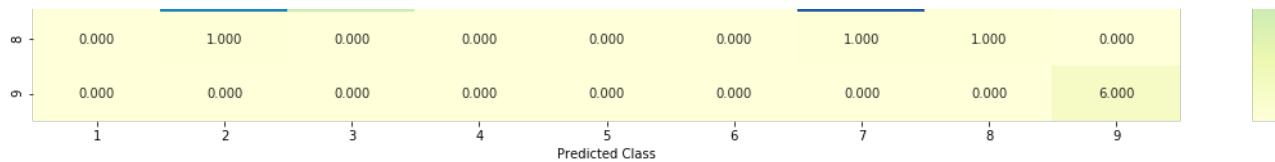
```

```

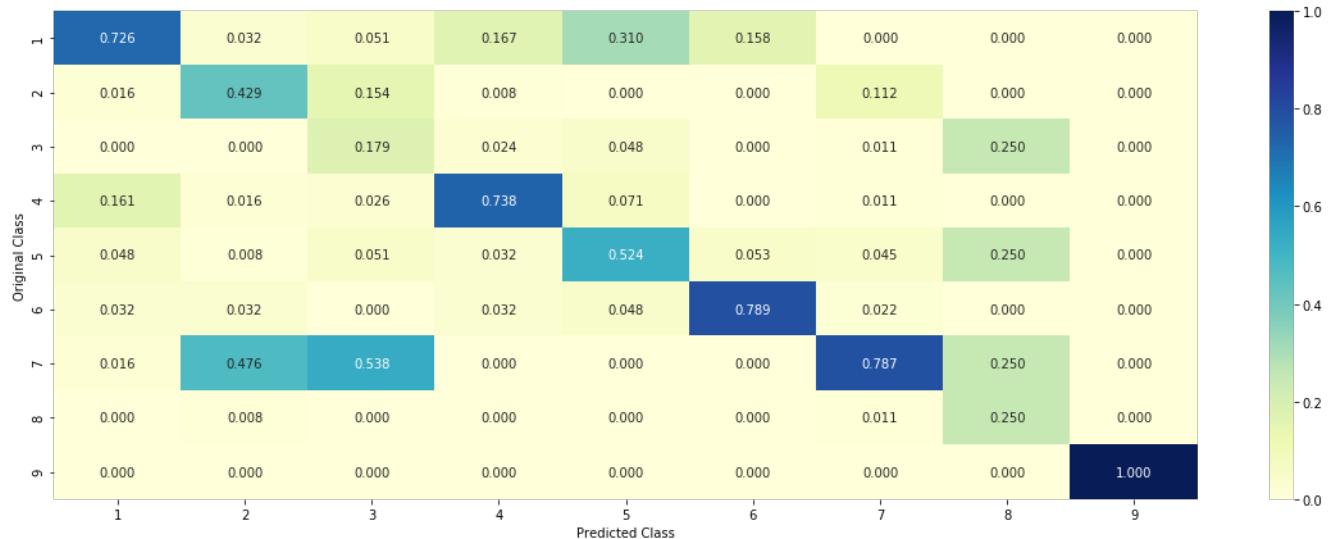
Log loss : 1.1631740052849058
Number of mis-classified points : 0.38345864661654133
----- Confusion matrix -----

```

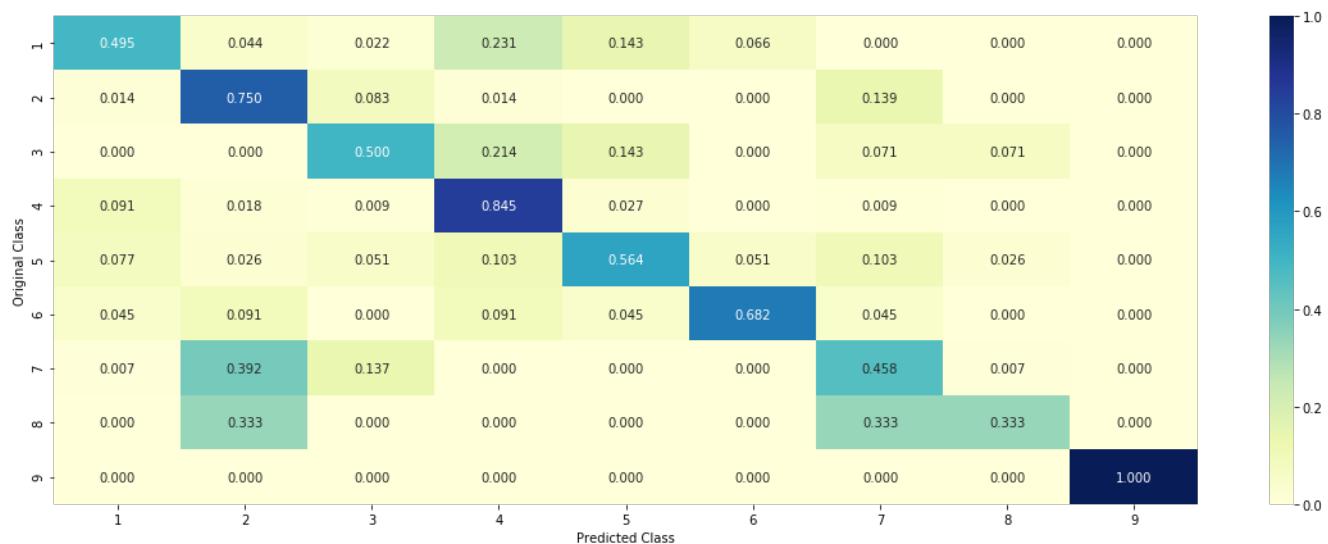




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



## 4.5.5. Feature Importance

### 4.5.5.1. Correctly Classified point

In [84]:

```

clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_depth=max_depth[int(best_alpha/4)], random_state=42, n_jobs=-1)
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

test_point_index = 1
no_feature = 27
predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class : ", predicted_cls[0])
print("Predicted Class Probabilities: ",
```

```

np.round(sig_clf.predict_proba(test_x_responseCoding[test_point_index].reshape(1,-1)),4)
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-"*50)
for i in indices:
    if i<9:
        print("Gene is important feature")
    elif i<18:
        print("Variation is important feature")
    else:
        print("Text is important feature")

```

Predicted Class : 2  
Predicted Class Probabilities: [[0.0132 0.5962 0.1109 0.0198 0.0188 0.0302 0.1853 0.0142 0.0114]]  
Actual Class : 7  
-----
Variation is important feature  
Variation is important feature  
Variation is important feature  
Variation is important feature  
Gene is important feature  
Variation is important feature  
Variation is important feature  
Text is important feature  
Text is important feature  
Gene is important feature  
Text is important feature  
Text is important feature  
Text is important feature  
Text is important feature  
Gene is important feature  
Variation is important feature  
Gene is important feature  
Text is important feature  
Gene is important feature  
Text is important feature  
Gene is important feature  
Text is important feature  
Gene is important feature

#### 4.5.5.2. Incorrectly Classified point

In [85]:

```

test_point_index = 100
predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:")
np.round(sig_clf.predict_proba(test_x_responseCoding[test_point_index].reshape(1,-1)),4)
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-"*50)
for i in indices:
    if i<9:
        print("Gene is important feature")
    elif i<18:
        print("Variation is important feature")
    else:
        print("Text is important feature")

```

Predicted Class : 7  
Predicted Class Probabilities: [[0.0213 0.3485 0.1243 0.0246 0.0238 0.0598 0.3627 0.0171 0.0178]]  
Actual Class : 7  
-----
Variation is important feature  
Variation is important feature  
Variation is important feature  
Variation is important feature  
Gene is important feature  
Variation is important feature

```
Variation is important feature
Text is important feature
Text is important feature
Gene is important feature
Text is important feature
Text is important feature
Text is important feature
Gene is important feature
Variation is important feature
Gene is important feature
Text is important feature
Gene is important feature
Gene is important feature
Variation is important feature
Variation is important feature
Text is important feature
Gene is important feature
```

## 4.7 Stack the models

### 4.7.1 testing with hyper parameter tuning

In [86]:

```
# read more about SGDClassifier() at http://scikit-
learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_i-
ter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0-
=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-in-
tuition-1/
#-----

# read more about support vector machines with linear kernels here http://scikit-
learn.org/stable/modules/generated/sklearn.svm.SVC.html
# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, t-
ol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', ra-
ndom_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-
online/lessons/mathematical-derivation-copy-8/
# -----


# read more about support vector machines with linear kernels here http://scikit-
learn.org/stable/modules/generated/sklearn.ensemble.RandomForestClassifier.html
# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_s-
amples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min
```

```

impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf1 = SGDClassifier(alpha=0.001, penalty='l2', loss='log', class_weight='balanced', random_state=0)
clf1.fit(train_x_onehotCoding, train_y)
sig_clf1 = CalibratedClassifierCV(clf1, method="sigmoid")

clf2 = SGDClassifier(alpha=1, penalty='l2', loss='hinge', class_weight='balanced', random_state=0)
clf2.fit(train_x_onehotCoding, train_y)
sig_clf2 = CalibratedClassifierCV(clf2, method="sigmoid")

clf3 = MultinomialNB(alpha=0.001)
clf3.fit(train_x_onehotCoding, train_y)
sig_clf3 = CalibratedClassifierCV(clf3, method="sigmoid")

sig_clf1.fit(train_x_onehotCoding, train_y)
print("Logistic Regression : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf1.predict_proba(cv_x_onehotCoding))))
sig_clf2.fit(train_x_onehotCoding, train_y)
print("Support vector machines : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf2.predict_proba(cv_x_onehotCoding))))
sig_clf3.fit(train_x_onehotCoding, train_y)
print("Naive Bayes : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf3.predict_proba(cv_x_onehotCoding))))
)
print("-" * 50)
alpha = [0.0001, 0.001, 0.01, 0.1, 1, 10]
best_alpha = 999
for i in alpha:
    lr = LogisticRegression(C=i)
    sclf = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_probas=True)
    sclf.fit(train_x_onehotCoding, train_y)
    print("Stacking Classifier : for the value of alpha: %f Log Loss: %0.3f" % (i, log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))))
    log_error = log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))
    if best_alpha > log_error:
        best_alpha = log_error

```

```

Logistic Regression : Log Loss: 1.02
Support vector machines : Log Loss: 1.43
Naive Bayes : Log Loss: 1.16
-----
Stacking Classifier : for the value of alpha: 0.000100 Log Loss: 2.178
Stacking Classifier : for the value of alpha: 0.001000 Log Loss: 2.030
Stacking Classifier : for the value of alpha: 0.010000 Log Loss: 1.465
Stacking Classifier : for the value of alpha: 0.100000 Log Loss: 1.020
Stacking Classifier : for the value of alpha: 1.000000 Log Loss: 1.060
Stacking Classifier : for the value of alpha: 10.000000 Log Loss: 1.264

```

## 4.7.2 testing the model with the best hyper parameters

In [87]:

```

lr = LogisticRegression(C=0.1)
sclf = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_proba

```

```

s=True)
sclf.fit(train_x_onehotCoding, train_y)

log_error = log_loss(train_y, sclf.predict_proba(train_x_onehotCoding))
print("Log loss (train) on the stacking classifier :",log_error)

log_error1 = log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))
print("Log loss (CV) on the stacking classifier :",log_error)

log_error2 = log_loss(test_y, sclf.predict_proba(test_x_onehotCoding))
print("Log loss (test) on the stacking classifier :",log_error)

print("Number of missclassified point :", np.count_nonzero((sclf.predict(test_x_onehotCoding) - test_y))/test_y.shape[0])
plot_confusion_matrix(test_y=test_y, predict_y=sclf.predict(test_x_onehotCoding))

# Variables that will be used in the end to make comparison table of all models
stack_train = log_error
stack_cv = log_error1
stack_test = log_error2
stack_missclassified = (np.count_nonzero((sclf.predict(test_x_onehotCoding) - test_y))/test_y.shape[0])*100

```

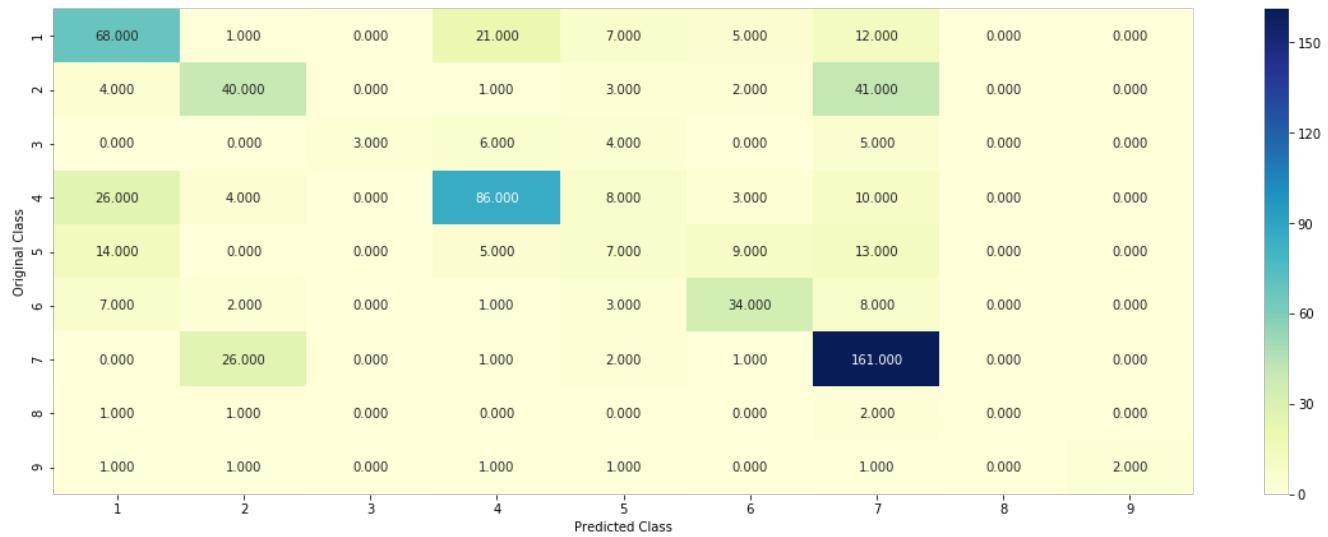
Log loss (train) on the stacking classifier : 0.6464290873083186

Log loss (CV) on the stacking classifier : 0.6464290873083186

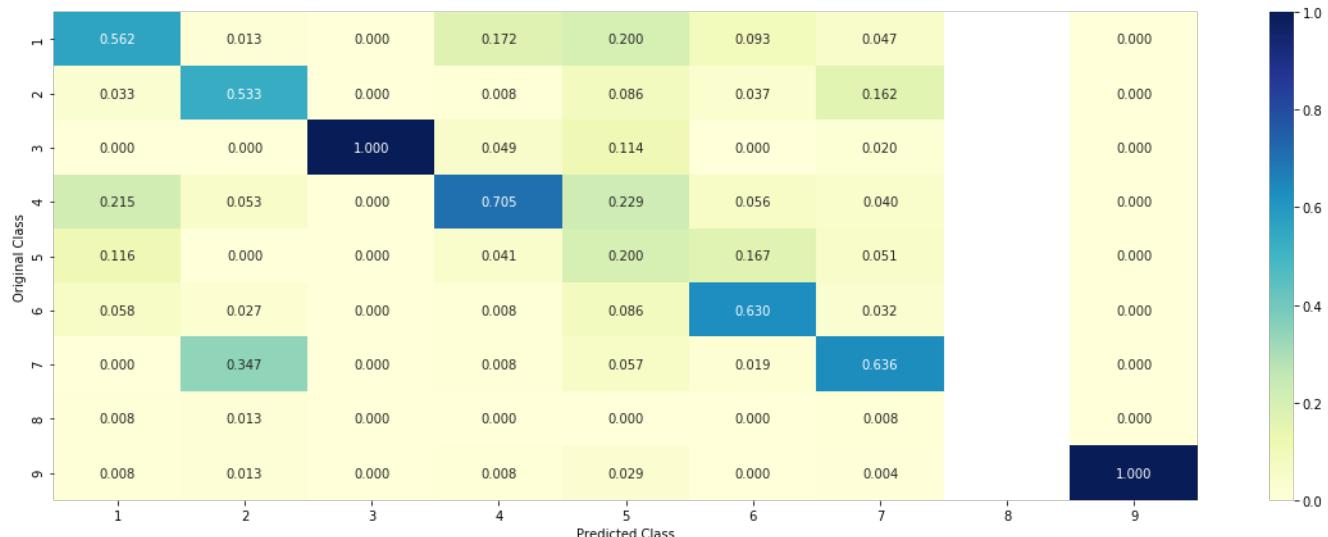
Log loss (test) on the stacking classifier : 0.6464290873083186

Number of missclassified point : 0.3969924812030075

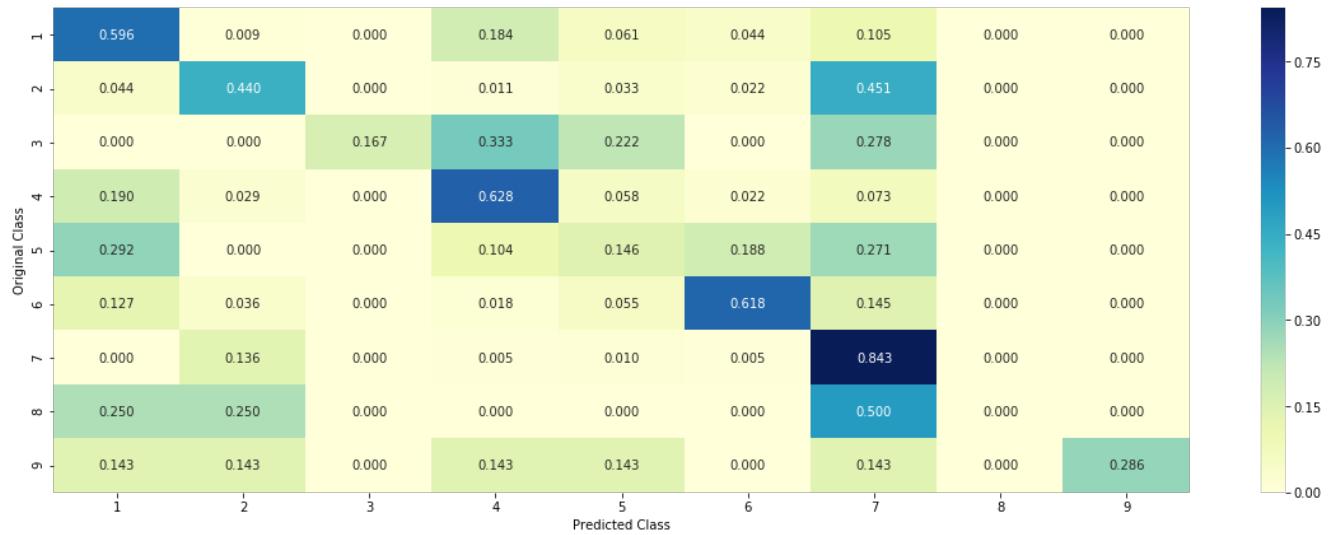
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



#### 4.7.3 Maximum Voting classifier

In [88]:

```
#Refer: http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.VotingClassifier.html
from sklearn.ensemble import VotingClassifier
vclf = VotingClassifier(estimators=[('lr', sig_clf1), ('svc', sig_clf2), ('rf', sig_clf3)], voting='soft')
vclf.fit(train_x_onehotCoding, train_y)
print("Log loss (train) on the VotingClassifier : ", log_loss(train_y, vclf.predict_proba(train_x_onehotCoding)))
print("Log loss (CV) on the VotingClassifier : ", log_loss(cv_y, vclf.predict_proba(cv_x_onehotCoding)))
print("Log loss (test) on the VotingClassifier : ", log_loss(test_y, vclf.predict_proba(test_x_onehotCoding)))
print("Number of missclassified point : ", np.count_nonzero((vclf.predict(test_x_onehotCoding) - test_y)/test_y.shape[0]))
plot_confusion_matrix(test_y=test_y, predict_y=vclf.predict(test_x_onehotCoding))

# Variables that will be used in the end to make comparison table of all models
mvc_train = log_loss(train_y, vclf.predict_proba(train_x_onehotCoding))
mvc_cv = log_loss(cv_y, vclf.predict_proba(cv_x_onehotCoding))
mvc_test = log_loss(test_y, vclf.predict_proba(test_x_onehotCoding))
mvc_missclassified = (np.count_nonzero((vclf.predict(test_x_onehotCoding) - test_y))/test_y.shape[0])*100
```

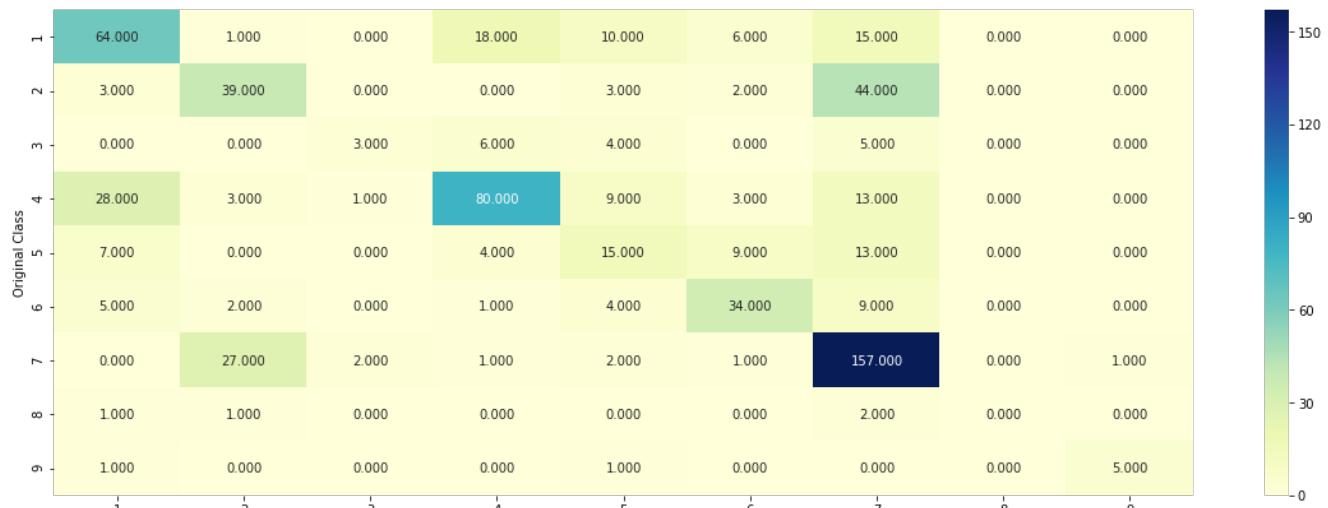
Log loss (train) on the VotingClassifier : 0.8676311417809924

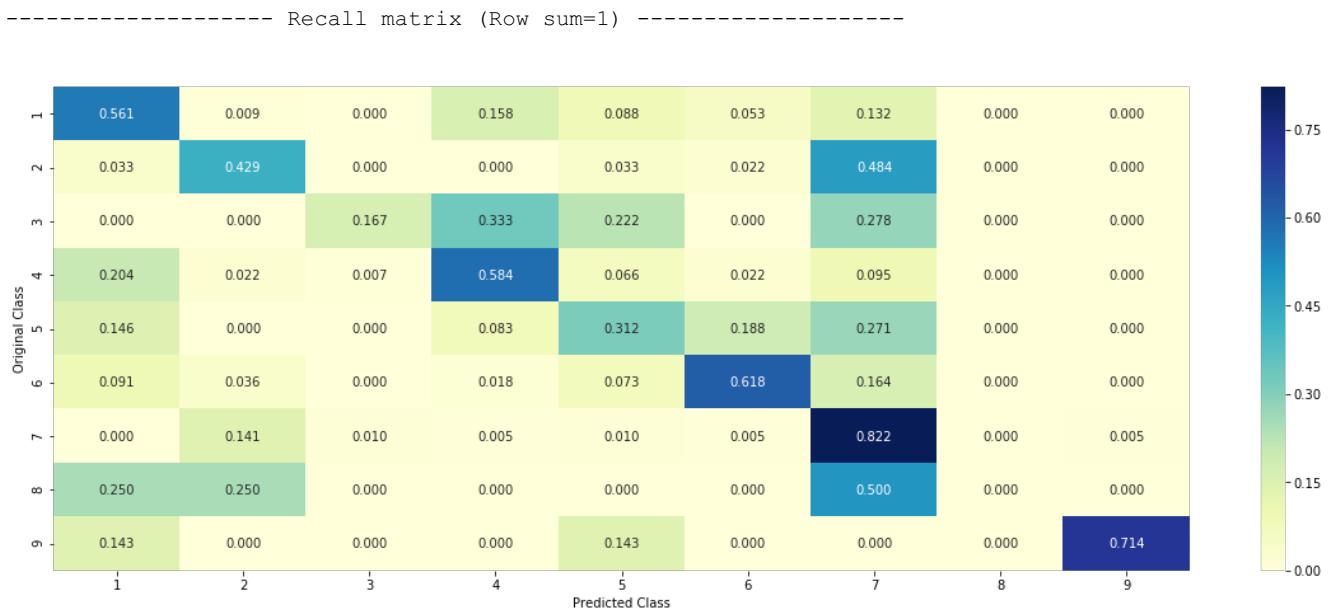
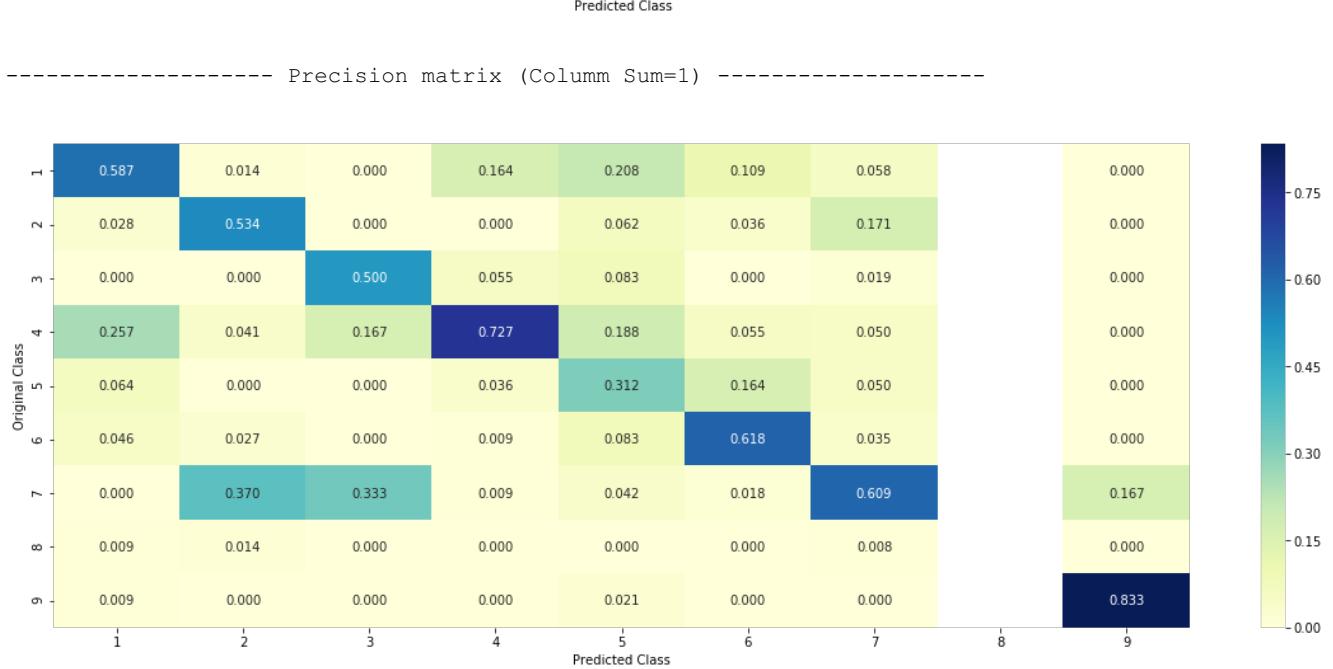
Log loss (CV) on the VotingClassifier : 1.0634225598986955

Log loss (test) on the VotingClassifier : 1.2026683589213958

Number of missclassified point : 0.4030075187969925

----- Confusion matrix -----





## CONCLUSION

### (a). Procedure Followed :-

STEP 1:- Replace CountVectorizer() by TfidfVectorizer() in all the one hot encoding section of gene , variation and text features

### (b).Table (Model Performances):-

In [89]:

```
# Creating table using PrettyTable library
from prettytable import PrettyTable

# Names of models
names =['Naive Bayes','K-Nearest Neighbour','LR With Class Balancing',\
        'LR Without Class Balancing','Linear SVM',\
        'RF With One hot Encoding','RF With Response Coding',\
        'Stacking Classifier','Maximum Voting Classifier']

# Training loss
```

```

# Training loss
train_loss =
[nb_train,knn_train,lr_balance_train,lr_train,svm_train,rf_train,rf_response_train,stack_train,mvc_
train]

# Cross Validation loss
cv_loss = [nb_cv,knn_cv,lr_balance_cv,lr_cv,svm_cv,rf_cv,rf_response_cv,stack_cv,mvc_cv]

# Test loss
test_loss = [nb_test,knn_test,lr_balance_test,lr_test,svm_test,rf_test,rf_response_test,stack_test
,mvc_test]

# Percentage Misclassified points
misclassified =
[nb_misclassified,knn_misclassified,lr_balance_misclassified,lr_misclassified,svm_misclassified, \
rf_misclassified,rf_response_misclassified,stack_misclassified,mvc_misclassified]

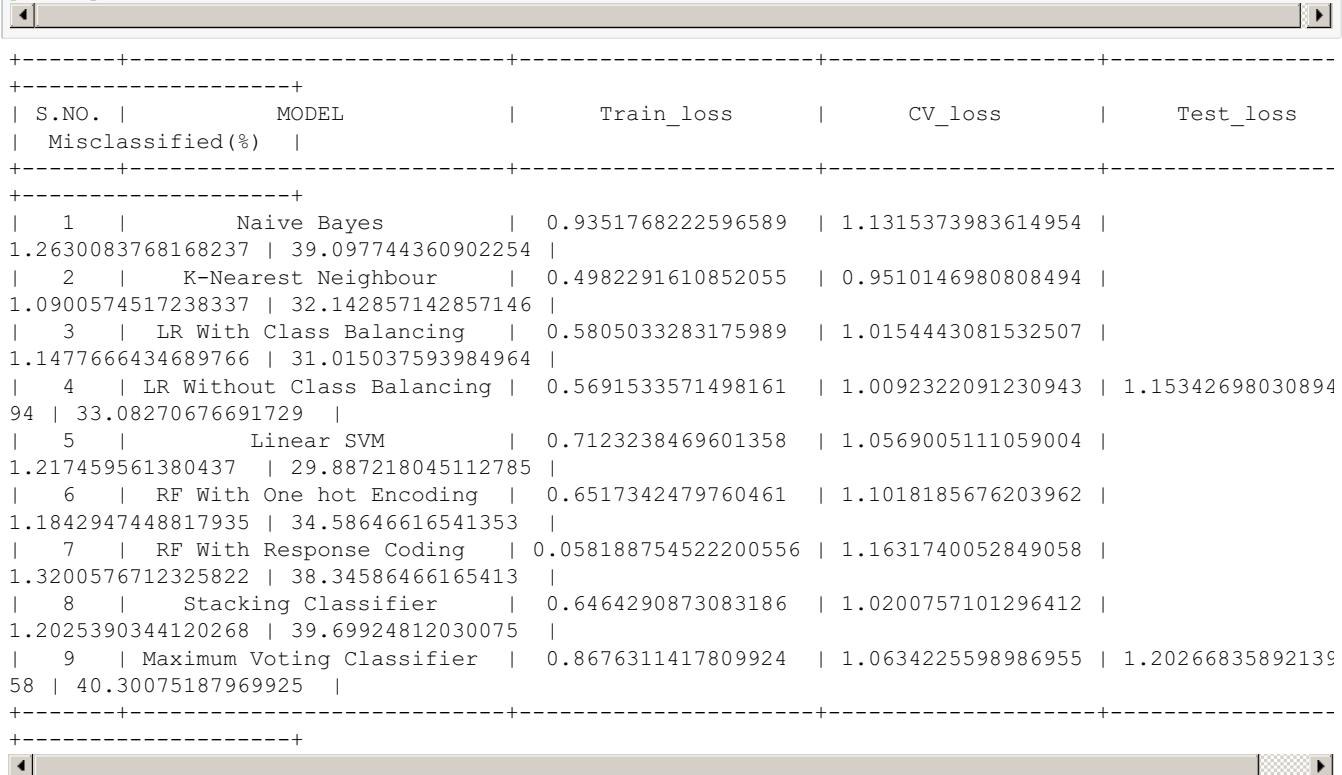
numbering = [1,2,3,4,5,6,7,8,9]

# Initializing prettytable
ptable = PrettyTable()

# Adding columns
ptable.add_column("S.NO.",numbering)
ptable.add_column("MODEL",names)
ptable.add_column("Train_loss",train_loss)
ptable.add_column("CV_loss",cv_loss)
ptable.add_column("Test_loss",test_loss)
ptable.add_column("Misclassified(%)",misclassified)

# Printing the Table
print(ptable)

```



| S.NO.              | MODEL                      | Train_loss           | CV_loss            | Test_loss        |
|--------------------|----------------------------|----------------------|--------------------|------------------|
| Misclassified(%)   |                            |                      |                    |                  |
| 1                  | Naive Bayes                | 0.9351768222596589   | 1.1315373983614954 |                  |
| 1.2630083768168237 | 39.097744360902254         |                      |                    |                  |
| 2                  | K-Nearest Neighbour        | 0.4982291610852055   | 0.9510146980808494 |                  |
| 1.0900574517238337 | 32.142857142857146         |                      |                    |                  |
| 3                  | LR With Class Balancing    | 0.5805033283175989   | 1.0154443081532507 |                  |
| 1.1477666434689766 | 31.015037593984964         |                      |                    |                  |
| 4                  | LR Without Class Balancing | 0.5691533571498161   | 1.0092322091230943 | 1.15342698030894 |
| 94                 | 33.08270676691729          |                      |                    |                  |
| 5                  | Linear SVM                 | 0.7123238469601358   | 1.0569005111059004 |                  |
| 1.217459561380437  | 29.887218045112785         |                      |                    |                  |
| 6                  | RF With One hot Encoding   | 0.6517342479760461   | 1.1018185676203962 |                  |
| 1.1842947448817935 | 34.58646616541353          |                      |                    |                  |
| 7                  | RF With Response Coding    | 0.058188754522200556 | 1.1631740052849058 |                  |
| 1.3200576712325822 | 38.34586466165413          |                      |                    |                  |
| 8                  | Stacking Classifier        | 0.6464290873083186   | 1.0200757101296412 |                  |
| 1.2025390344120268 | 39.69924812030075          |                      |                    |                  |
| 9                  | Maximum Voting Classifier  | 0.8676311417809924   | 1.0634225598986955 | 1.20266835892139 |
| 58                 | 40.30075187969925          |                      |                    |                  |