QUESTION

4(b) Part based on K-Means or K-Means++ Clsutering algorithm • Get K clusters using either the K-Means or K-Means++ algorithms where K is varied to have values 2, 5, 10, 50, and 100. • Obtain the AM and CRM and PM for each of these K values. • Compute Error(K) for each value of K. • Report a table of K and Error(K) for different values of K chosen on the dataset that was clustered using the K-Means or K-Means++.







Labels - Cluster Index - Example:

labels

[000222111]

DP 1 mapped to cluster 0 DP 2 mapped to cluster 1 DP 8 mapped to cluster 1

------ K Mean Table - Error(MSE) ----->

K-Mean(2), =====> 6828085.83

K-Mean(5), =====> 6320805.80

K-Mean(10), =====> 5849035.98

K-Mean(50), =====> 4554452.91

K-Mean(100), =====> 3890762.91

K-Mean(1000), =====> 0.00

Also caputured CRM, AM, PM, Centroids and Label details.

Analysis Report K Mean Cluster:

The Data set used is from web - engineering of the students, with addition of few engineering subject fields

```
gender
race/ethnicity
parental level of education
lunch
test preparation course
m1 score
m2 scorep
physics score
m3 score
m4 score
DS score
CO score
LD score
SOM score
ED score
OS-2 score
```

etc.. Procedure Followed:

The non-numerical features like "gender", "race/ethnicity", "lunch" etc are removed. Then the KNCC Leader Algorithm impelmeented above is run on the data points.

Tables and Graph are created appropriately for "ERROR VS K Clusters". Also caputured the CRM, AM, PM and Error processing output.

Centroids

```
Labels - Cluster Index - Example: labels [0 0 0 2 2 2 1 1 1]
```

DP 1 mapped to cluster 0 DP 4 mapped to cluster 2 DP 8 mapped to cluster 1

-----> K Mean Table - Error(MSE) ----->

K-Mean(2), =====> 6828085.83

K-Mean(5), =====> 6320805.80

K-Mean(10), =====> 5849035.98

K-Mean(50), =====> 4554452.91

K-Mean(100), =====> 3890762.91

K-Mean(1000), =====> 0.00

shuffling the DP donot change the centroids after convergence

K-Means is relatively an efficient method. However, we need to specify the number of clusters, in advance and the final results are sensitive to initialization and often terminates at a local optimum. Large k probably decreases the error but increases the risk of overfitting.

Error values reduces as we increase the cluster as above.

Error is dependent on the clusters (K value). For 1000 diiferent DP, we have 1000 cluster (ie K =1000) then Error is ZERO.

If K is small - error is HIGH and Error decreases as we increase the K values.

For the given data set, K Mean computation is faster than KNN because first centroids are found and then classifed wrt centroids. Cluster creation - we need to specify the K value, number of cluster to be created, this is not the case with KNNC

Sample Program Output for 2 Clusters.

Centroids Points

----> [[54.95 57.25 55.88 67.45 67.03 68.2 68.11 68.61 69.84 66.04 67.93 68.29

66.62 64.3 68. 70.44 66.23 69.23 64.42 66.18 68.11] [76.21 80. 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.41 66.86 65.55 68.63 68.99]]

labels

CRM Matrix for Data Points

0 1 2 3 7 10 11 12 13 14 15 16 17 18 19 20

54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.23 69.23 64.42 66.18 68.11 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.41 66.86 65.55 68.63 68.99

[2 rows x 21 columns]

AM Matrix for Data Points

0.00 1.00 0.00 1.00 0.00 1.00 1.00 0. 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 0.00 1.00 0.00 0.00 1.00 0. 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 $0.00\,1.00\,1.00\,0.00\,1.00\,0.00\,0.00\,1.00\,0.00\,0.00\,1.00\,0.00\,0.00\,1.00\,0.00\,1.00\,0.00\,1.00\,0.00\,0.00\,1.00\,0.00$ 1.00 0.00 1.00 0.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0. 0.00 1.00 1.00 0.00 0.00 1.00 1.00 0. 1.00 0.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0. 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0. 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00 1. 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0. 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1. 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1. 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1. 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00

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PM Matrix for Data Points

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```
In [1]: import pandas as pd
   import numpy as np
   import pandas as pd
   import numpy as np
   import matplotlib.pyplot as plt
   from mpl_toolkits.mplot3d import Axes3D # noqa: F401 unused import
   from matplotlib import cm
   import seaborn as sns
   from sklearn.model_selection import train_test_split
   import csv

In [3]: PATTERNS = 1000
   FEATURES = 21

   import csv

data = pd.read_csv("engineering-mark-sheet - Sheetl.csv")
#df = pd.DataFrame(plot data)
```

In [4]: data.head(10)

Out[4]:

	gender	race/ethnicity	parental level of education	lunch	test preparation course	m1 score	m2 score	physics score	m3 score	m4 score	•••	OS-2 score	MICRO- 1score	MICRO- 2 score	Che
0	female	group B	bachelor's degree	standard	none	72	72	74	62	64		37	74	67	
1	female	group C	some college	standard	completed	69	90	88	80	87		89	62	55	
2	female	group B	master's degree	standard	none	90	95	93	94	36		72	35	97	
3	male	group A	associate's degree	free/reduced	none	47	57	44	43	87		74	66	77	
4	male	group C	some college	standard	none	76	78	75	84	54		43	45	43	
5	female	group B	associate's degree	standard	none	71	83	78	82	82		52	71	88	
6	female	group B	some college	standard	completed	88	95	92	79	43		52	90	96	
7	male	group B	some college	free/reduced	none	40	43	39	78	95		93	36	83	
8	male	group D	high school	free/reduced	completed	64	64	67	77	72		73	48	67	
9	female	group B	high school	free/reduced	none	38	60	50	81	63		61	88	75	

10 rows × 26 columns

In [5]: data.describe()

Out[5]:

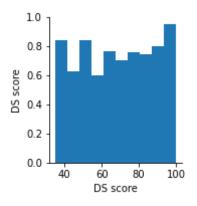
	m1 score	m2 score	physics score	m3 score	m4 score	DS score	CO score	LD score	SOM score	ED scc
count	1000.00000	1000.000000	1000.000000	1000.000000	1000.000000	1000.000000	1000.000000	1000.000000	1000.000000	1000.0000
mean	66.08900	69.169000	68.054000	68.411000	66.580000	68.168000	67.518000	67.232000	67.862000	67.0910
std	15.16308	14.600192	15.195657	19.288964	19.387611	19.472261	19.271249	19.389795	18.799531	19.3007
min	0.00000	17.000000	10.000000	35.000000	35.000000	35.000000	35.000000	35.000000	35.000000	35.0000
25%	57.00000	59.000000	57.750000	51.000000	49.000000	51.000000	51.000000	50.000000	52.000000	51.0000
50%	66.00000	70.000000	69.000000	69.000000	66.000000	68.000000	67.000000	68.000000	69.000000	67.0000
75%	77.00000	79.000000	79.000000	85.000000	83.000000	85.250000	84.000000	85.000000	84.000000	84.0000
max	100.00000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.0000

8 rows × 21 columns

```
In [6]: sns.pairplot(data[['DS score']])
    plt.figure(figsize=(20,20))
    #plot heat map

#corr_matrix= data.corr()
#g=sns.heatmap(corr_matrix,annot=True, cmap="RdYlGn")
```

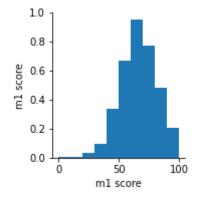
Out[6]: <Figure size 1440x1440 with 0 Axes>



<Figure size 1440x1440 with 0 Axes>

```
In []:
In [7]: sns.pairplot(data[['m1 score']])
```

Out[7]: <seaborn.axisgrid.PairGrid at 0x124e10880>



In []:

```
In [9]: cluster list pattern={}
        K Mean Error List={}
        K Mean Error List Print={}
        K Mean Inertia List={}
        def process clustering(pl,k cluster, f):
            from sklearn.cluster import KMeans
            # Number of clusters
            kmeans = KMeans( init='random', n clusters=k cluster)
            # Fitting the input data
            kmeans = kmeans.fit(pl)
            # Getting the cluster labels
            labels = kmeans.predict(pl)
            # Centroid values
            centroids = kmeans.cluster centers
            #np.set printoptions(formatter={"float kind": lambda x: "%:.f2" % x})
            np.set printoptions(precision=2)
            d o =f"\n Centroids ----> {centroids} \n \n labels ----> {labels} {kmeans.labels }, inertia
         = {kmeans.inertia }\n"
            print(d o)
            f.write(d o)
            # Determine Assignment Matrix
            ROWS = len(pl)
            COLS = len(centroids)
            AM = np.zeros((ROWS,COLS))
            for k,cl in enumerate(labels):
                AM[k,cl] = 1
```

```
# Determine C R Matrix
CRM = centroids
# Calcualte Multiplication
CRM_DataFrame = pd.DataFrame(data=CRM)
d_o = "\n CRM Matrix for Data Points \n"
f.write(d_o)
print(d_o)
pd.options.display.float_format = '{:.2f}'.format
d_o=f"{CRM_DataFrame.to_string(index=False, show_dimensions=True)}"
print(d o)
f.write(d_o)
AM_DataFrame = pd.DataFrame(data=AM)
d_o = f"\n\n AM Matrix for Data Points \n"
print(d_o)
f.write(d_o)
d_o =f"{AM DataFrame.to_string(header=None,index=False)}"
print(d_o)
f.write(d_o)
PM = np.dot(AM,CRM)
PM_DataFrame = pd.DataFrame(data=PM)
d_o="\n \n PM Matrix for Data Points \n"
print(d_o)
f.write(d_o)
#print("PM Matrix for Data Points \n")
header list = [ 'X'+ str(i-0) for i in range(len(pl.columns))]
d o = f"{PM DataFrame.to string(header=header list,index=False, show dimensions=True)}"
print(d_o)
f.write(d o)
# Calculate Error
```

```
K Mean Error = 0
    for i in range(PATTERNS):
        for j in range(FEATURES):
           K Mean Error = K Mean Error + np.power(( pl.iloc[i,j] - PM DataFrame.iloc[i,j]),2)
    return (K Mean Error, kmeans.inertia )
K Mean Error List={}
DM = pd.read_csv("engineering-mark-sheet - Sheet1.csv")
for k in [ 2, 5, 10, 50, 100,1000]:
#for k in range(2,100):
        DM = pd.read_csv("engineering-mark-sheet - Sheet1.csv")
        #DM=DM.sample(frac=1)
        #DM = DM.reset index(drop=True)
        DM.drop(['gender','race/ethnicity','parental level of education', 'lunch','test preparation c
ourse'], axis=1, inplace=True)
        #DM.drop(DM.loc[1:990].index, inplace=True)
        #DM.reset index(drop=True)
        DM.head()
        DM.describe()
        PATTERNS = len(DM.index)
        FEATURES = len(DM.columns)
        DM.head(20)
        file name = 'file K MEAN RANDOM' + str(k) + ' .txt'
        f = open(file name, 'w')
        (K Mean Error, inertia ) = process clustering(DM, k, f)
```

```
K_Mean_Error = "{:.2f}".format(K_Mean_Error)
       d_o=f"\n \n Calculated Error ==> {K Mean Error } for K Mean {k}"
       print(d_o)
       f.write(d_o)
        inertia_ = "{:.2f}".format(inertia_)
        K_Mean_Error_List[ k ] = K_Mean_Error
       K_Mean_Inertia_List[k] = inertia_
       d_o=f"\n \n Calculated Inertia ==> {inertia_} for K Mean {k}"
       print(d_o)
       f.write(d_o)
       K Mean Error List Print[k] = K Mean Error List[ k ]
f.close()
file_name = 'file_K_MEAN_RANDOM_RESULT' + str(k) + '_.txt'
with open(file_name, 'w') as f :
   d_o = f"\n----- K Mean Table - Error(MSE) ----->"
   print(d_o)
   f.write(d_o)
    for e, v in K Mean Error List Print.items():
       d_0 = f' n \quad K-Mean(\{e\}), =====> \{v\} n'
       print(d_o)
       f.write( d_o )
f.close()
#dp = pd.DataFrame.from dict(K Mean Error List Print)
#dp.style.set properties(**{'text-align': 'right'})
#dp.head()
```

Centroids ----> [[54.95 57.25 55.88 67.45 67.03 68.2 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.3 68. 70.44 66.23 69.23 64.42 66.18 68.11]
[76.21 80. 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.41 66.86 65.55 68.63 68.99]]

1 | [1 1 1 0 1 1 1 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 1 0 1 1 1 0 1 0 1 1 0 0 0 0 1 1 1

1], inertia = 6828098.096221683

CRM Matrix for Data Points

3 6 7 8 9 10 11 12 14 15 1 2 4 5 13 1 17 18 19 20 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99

[2 rows x 21 columns]

AM Matrix for Data Points

0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00

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PM Matrix for Data Points

X 0 Х1 X2 Х3 X4 Х5 Х6 Х7 X8 X9 X10 X11 X12 X13 X14 X15 Х1 6 X17 X19 X20 X18 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2 3 69.23 64.42 66.18 68.11 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4 1 66.86 65.55 68.63 68.99 54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2

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54.95 57.25 55.88 67.45 67.03 68.20 68.11 68.61 69.84 66.04 67.93 68.29 66.62 64.30 68.00 70.44 66.2
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76.21 80.00 79.11 69.29 66.17 68.14 66.98 65.98 66.07 68.05 67.35 66.87 69.59 69.04 66.21 65.19 68.4
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1 66.86 65.55 68.63 68.99
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[1000 rows x 21 columns]

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Calculated Inertia ==> 6828098.10 for K Mean 2

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[70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.3 70.8 71.01 60.07 70.29 77.12 61.12 69.41 71.11]]
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labels ---> [3 4 1 2 3 4 3 2 4 2 0 2 3 3 2 4 1 2 0 2 2 4 2 3 1 3 0 1 3 3 1 4 4 2 4 1 4 $\begin{smallmatrix} 2 & 3 & 4 & 0 & 3 & 2 & 1 & 2 & 0 & 0 & 3 & 0 & 1 & 2 & 3 & 2 & 4 & 1 & 2 & 0 & 2 & 0 & 2 & 3 & 2 & 0 & 4 & 4 & 4 & 2 & 3 & 2 & 0 & 0 & 2 & 2 & 0 \\ \end{smallmatrix}$ $\begin{smallmatrix} 0 & 2 & 2 & 1 & 0 & 0 & 2 & 2 & 2 & 3 & 2 & 0 & 4 & 3 & 1 & 1 & 4 & 2 & 0 & 2 & 3 & 4 & 0 & 2 & 0 & 0 & 1 & 1 & 3 & 2 & 1 & 1 & 1 & 4 & 4 & 3 & 4 \\ \end{smallmatrix}$ 2 0 2 3 4 1 3 0 2 3 1 3 2 1 3 0 4 3 0 3 2 0 3 1 2 2 0 2 4 1 2 2 2 1 2 3 3 3 3 4 3 4 2 0 3 0 2 4 0 3 4 2 2 1 3 2 4 3 1 4 3 1 1 2 3 2 1 1 4 0 0 0 1 2 4 1 0 2 4 4 3 1 0 3 2 1 0 0 1 1 1 0 4 0 1 4 0 3 4 4 2 2 2 1 4 3 0 1 0 4 3 0 4 4 2 4 0 0 4 0 2 4 3 1 1 1 4 0 3 0 1 2 2 4 1 3 4 4 0 2 4 4 3 2 3 4 4 0 4 4 1 2 3 4 2 1 3 1 3 1 2 2 0 1 1 4 4 3 1 2 0 4 1 2 1 3 3 1 1 1 3 1 1 4 3 2 3 2 4 3 0 3 0 4 1 3 0 4 0 3 4 0 4 4 1 3 1 0 0 1 4 4 2 2 4 0 2 3 0 4 2 0 3 3 0 3 2 2 0 2 3 3 0 1 4 2 1 0 4 1 0 1 0 1 3 0 2 0 4 2 4 0 2 0 0 2 0 2 4 3 2 4 3 3 2 4 1 4 0 3 3 1 2 2 4 0 2 3 4 0 4 4 2 4 2 2 3 3 2 2 2 0 1 2 4 2 $3\ 2\ 4\ 0\ 4\ 0\ 0\ 0\ 0\ 0\ 1\ 4\ 2\ 4\ 2\ 1\ 4\ 2\ 1\ 1\ 3\ 0\ 4\ 1\ 0\ 4\ 0\ 3\ 2\ 1\ 4\ 2\ 4\ 1\ 1\ 0\ 3$ 3 4 1 1 2 1 4 1 3 4 2 2 1 2 4 1 2 0 3 3 0 3 2 4 4 4 1 4 3 4 3 4 4 1 3 0 3 $\begin{smallmatrix} 0 & 4 & 2 & 2 & 0 & 2 & 1 & 0 & 4 & 3 & 4 & 3 & 4 & 3 & 4 & 3 & 3 & 0 & 4 & 3 & 4 & 1 & 4 & 4 & 3 & 2 & 3 & 1 & 2 & 4 & 1 & 3 & 4 & 2 & 2 & 3 & 3 & 0 & 0 \\ \end{smallmatrix}$ 3 0 2 1 1 2 0 4 2 2 2 3 1 0 2 0 1 3 4 2 3 3 0 3 4 1 1 1 3 4 4 0 4 4 2 0 2 $\begin{smallmatrix} 2 & 4 & 2 & 0 & 3 & 0 & 1 & 3 & 4 & 2 & 2 & 3 & 1 & 0 & 1 & 4 & 1 & 2 & 0 & 4 & 2 & 2 & 1 & 0 & 0 & 1 & 0 & 0 & 1 & 3 & 3 & 3 & 2 & 0 & 1 & 2 & 0 \\ \end{smallmatrix}$ $1 \; 4 \; 4 \; 0 \; 2 \; 2 \; 4 \; 1 \; 2 \; 2 \; 3 \; 0 \; 3 \; 3 \; 4 \; 2 \; 1 \; 2 \; 1 \; 4 \; 4 \; 0 \; 3 \; 0 \; 0 \; 0 \; 4 \; 0 \; 2 \; 4 \; 4 \; 3 \; 2 \; 3 \; 0 \; 2 \; 0$ 4 4 3 1 4 3 4 1 3 3 1 2 3 1 1 1 4 0 3 2 1 2 3 3 1 4 1 4 2 2 1 3 4 3 1 1 4 4 1 0 4 0 0 0 3 4 0 0 1 3 3 3 3 0 2 1 1 4 4 2 3 0 4 0 3 2 1 4 0 1 1 1 3 1 1 3 4 2 4 3 0 3 3 3 1 3 1 0 1 1 1 3 2 4 2 2 3 1 2 1 0 3 2 4 4 4 0 3 0 1 2 $1 \; 0 \; 4 \; 4 \; 2 \; 4 \; 3 \; 0 \; 0 \; 4 \; 0 \; 1 \; 1 \; 4 \; 2 \; 4 \; 4 \; 1 \; 3 \; 1 \; 2 \; 2 \; 4 \; 0 \; 4 \; 0 \; 1 \; 2 \; 3 \; 1 \; 0 \; 3 \; 0 \; 1 \; 2 \; 2 \; 4$ 2 1 3 0 4 1 2 0 2 1 2 3 0 1 0 0 0 0 2 0 3 0 0 1 1 1 3 3 3 0 2 3 0 2 2 4 3 4 4 2 4 0 1 3 3 2 3 2 0 4 1 4 0 0 1 0 0 2 4 4 3 4 4 2 2 2 0 0 3 4 2 4 3 4 4 0 1 4 4 1 3 2 3 2 1 2 1 1 3 2 2 1 2 2 4 1 1 0 0 1 2 0 3 4 3 1 2 2 3 4 2 $f 3 \ 0 \ 1 \ 1 \ 2 \ 1 \ 3 \ 2 \ 2 \ 4 \ 3 \ 3 \ 1 \ 3 \ 2 \ 1 \ 4 \ 4 \ 4 \ 4 \ 4 \ 3 \ 2 \ 1 \ 3 \ 2 \ 4 \ 1 \ 1 \ 2 \ 0 \ 1 \ 1 \ 2 \ 1 \ 0 \ 4$ $\begin{smallmatrix} 0 & 2 & 0 & 2 & 2 & 3 & 2 & 1 & 1 & 4 & 2 & 2 & 2 & 4 & 0 & 4 & 4 & 0 & 4 & 4 & 2 & 0 & 3 & 3 & 4 & 4 & 3 & 3 & 1 & 1 & 2 & 3 & 4 & 0 \\ \end{smallmatrix}$ 3 3 0 1 3 0 4 1 1 1 0 2 0 1 2 0 2 3 2 3 4 1 0 2 2 1 2 3 1 3 3 4 4 1 0 4 3 31 [3 4 1 2 3 4 3 2 4 2 0 2 3 3 2 4 1 2 0 2 2 4 2 3 1 3 0 1 3 3 1 4 4 2 4 1 4 $\begin{smallmatrix} 2 & 3 & 4 & 0 & 3 & 2 & 1 & 2 & 0 & 0 & 3 & 0 & 1 & 2 & 3 & 2 & 4 & 1 & 2 & 0 & 2 & 0 & 2 & 3 & 2 & 0 & 4 & 4 & 4 & 2 & 3 & 2 & 0 & 0 & 2 & 2 & 0 \\ \end{smallmatrix}$ $\begin{smallmatrix} 0 & 2 & 2 & 1 & 0 & 0 & 2 & 2 & 2 & 3 & 2 & 0 & 4 & 3 & 1 & 1 & 4 & 2 & 0 & 2 & 3 & 4 & 0 & 2 & 0 & 0 & 1 & 1 & 3 & 2 & 1 & 1 & 1 & 4 & 4 & 3 & 4 \\ \end{smallmatrix}$ 2 0 2 3 4 1 3 0 2 3 1 3 2 1 3 0 4 3 0 3 2 0 3 1 2 2 0 2 4 1 2 2 2 1 2 3 3 3 3 4 3 4 2 0 3 0 2 4 0 3 4 2 2 1 3 2 4 3 1 4 3 1 1 2 3 2 1 1 4 0 0 0 1 2 4 1 0 2 4 4 3 1 0 3 2 1 0 0 1 1 1 0 4 0 1 4 0 3 4 4 2 2 2 1 4 3 0 1 0 4 3 0 4 4 2 4 0 0 4 0 2 4 3 1 1 1 4 0 3 0 1 2 2 4 1 3 4 4 0 2 4 4 3 2 3 4 4 0 4 4 1 2 3 4 2 1 3 1 3 1 2 2 0 1 1 4 4 3 1 2 0 4 1 2 1 3 3 1 1 1 3 1 1 4 3

2 3 2 4 3 0 3 0 4 1 3 0 4 0 3 4 0 4 4 1 3 1 0 0 1 4 4 2 2 4 0 2 3 0 4 2 0 3 3 0 3 2 2 0 2 3 3 0 1 4 2 1 0 4 1 0 1 0 1 3 0 2 0 4 2 4 0 2 0 0 2 0 2 4 3 2 4 3 3 2 4 1 4 0 3 3 1 2 2 4 0 2 3 4 0 4 4 2 4 2 2 3 3 2 2 2 0 1 2 4 2 3 2 4 0 4 0 0 0 0 0 1 4 2 4 2 1 4 2 1 1 3 0 4 1 0 4 0 3 2 1 4 2 4 1 1 0 3 3 4 1 1 2 1 4 1 3 4 2 2 1 2 4 1 2 0 3 3 0 3 2 4 4 4 1 4 3 4 3 4 4 1 3 0 3 0 4 2 2 0 2 1 0 4 3 4 3 4 3 3 0 4 3 4 1 4 4 3 2 3 1 2 4 1 3 4 2 2 3 3 0 0 3 0 2 1 1 2 0 4 2 2 2 3 1 0 2 0 1 3 4 2 3 3 0 3 4 1 1 1 3 4 4 0 4 4 2 0 2 $\begin{smallmatrix} 2 & 4 & 2 & 0 & 3 & 0 & 1 & 3 & 4 & 2 & 2 & 3 & 1 & 0 & 1 & 4 & 1 & 2 & 0 & 4 & 2 & 2 & 1 & 0 & 0 & 1 & 0 & 0 & 1 & 3 & 3 & 3 & 2 & 0 & 1 & 2 & 0 \\ \end{smallmatrix}$ $1 \; 4 \; 4 \; 0 \; 2 \; 2 \; 4 \; 1 \; 2 \; 2 \; 3 \; 0 \; 3 \; 3 \; 4 \; 2 \; 1 \; 2 \; 1 \; 4 \; 4 \; 0 \; 3 \; 0 \; 0 \; 0 \; 4 \; 0 \; 2 \; 4 \; 4 \; 3 \; 2 \; 3 \; 0 \; 2 \; 0$ 4 4 3 1 4 3 4 1 3 3 1 2 3 1 1 1 4 0 3 2 1 2 3 3 1 4 1 4 2 2 1 3 4 3 1 1 4 4 1 0 4 0 0 0 3 4 0 0 1 3 3 3 3 0 2 1 1 4 4 2 3 0 4 0 3 2 1 4 0 1 1 1 3 1 1 3 4 2 4 3 0 3 3 3 1 3 1 0 1 1 1 3 2 4 2 2 3 1 2 1 0 3 2 4 4 4 0 3 0 1 2 $1 \; 0 \; 4 \; 4 \; 2 \; 4 \; 3 \; 0 \; 0 \; 4 \; 0 \; 1 \; 1 \; 4 \; 2 \; 4 \; 4 \; 1 \; 3 \; 1 \; 2 \; 2 \; 4 \; 0 \; 4 \; 0 \; 1 \; 2 \; 3 \; 1 \; 0 \; 3 \; 0 \; 1 \; 2 \; 2 \; 4$ 2 1 3 0 4 1 2 0 2 1 2 3 0 1 0 0 0 0 2 0 3 0 0 1 1 1 3 3 3 0 2 3 0 2 2 4 3 4 4 2 4 0 1 3 3 2 3 2 0 4 1 4 0 0 1 0 0 2 4 4 3 4 4 2 2 2 0 0 3 4 2 4 3 4 4 0 1 4 4 1 3 2 3 2 1 2 1 1 3 2 2 1 2 2 4 1 1 0 0 1 2 0 3 4 3 1 2 2 3 4 2 $f 3 \ 0 \ 1 \ 1 \ 2 \ 1 \ 3 \ 2 \ 2 \ 4 \ 3 \ 3 \ 1 \ 3 \ 2 \ 1 \ 4 \ 4 \ 4 \ 4 \ 4 \ 3 \ 2 \ 1 \ 3 \ 2 \ 4 \ 1 \ 1 \ 2 \ 0 \ 1 \ 1 \ 2 \ 1 \ 0 \ 4$ 0 2 0 2 2 3 2 1 1 4 2 2 2 4 0 4 4 0 4 4 0 4 4 2 0 3 3 4 4 3 3 1 1 2 3 4 0 3 3 0 1 3 0 4 1 1 1 0 2 0 1 2 0 2 3 2 3 4 1 0 2 2 1 2 3 1 3 3 4 4 1 0 4 3 31, inertia = 6319169.4311137125

CRM Matrix for Data Points

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[5 rows x 21 columns]

AM Matrix for Data Points

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PM Matrix for Data Points

Х6 х7 X10 X15 Х0 Х1 Х2 Х3 Х4 Х5 X8 Х9 X11 X12 X13 X14 Х1 X19 X20 6 X17 X18 75.88 78.98 78.05 75.37 66.65 69.82 71.23 68.71 59.10 55.91 67.07 58.83 77.91 60.75 61.90 68.25 67.4 7 61.14 66.27 60.12 72.68 70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2 9 77.12 61.12 69.41 71.11 74.65 77.83 77.25 71.08 62.85 64.38 62.05 78.74 72.21 76.04 58.47 69.32 60.31 76.54 69.26 69.07 66.6 8 67.81 68.86 65.69 60.84 49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4 5 70.61 63.57 60.56 64.13 75.88 78.98 78.05 75.37 66.65 69.82 71.23 68.71 59.10 55.91 67.07 58.83 77.91 60.75 61.90 68.25 67.4 7 61.14 66.27 60.12 72.68 70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2 9 77.12 61.12 69.41 71.11 75.88 78.98 78.05 75.37 66.65 69.82 71.23 68.71 59.10 55.91 67.07 58.83 77.91 60.75 61.90 68.25 67.4 7 61.14 66.27 60.12 72.68 49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4 5 70.61 63.57 60.56 64.13 70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2 9 77.12 61.12 69.41 71.11 49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4 5 70.61 63.57 60.56 64.13 61.64 64.38 63.08 69.61 57.53 70.99 75.14 63.52 78.19 69.26 71.21 69.32 72.69 61.14 61.40 75.43 62.3 5 62.10 65.78 82.69 74.49 49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4 5 70.61 63.57 60.56 64.13 75.88 78.98 78.05 75.37 66.65 69.82 71.23 68.71 59.10 55.91 67.07 58.83 77.91 60.75 61.90 68.25 67.4 7 61.14 66.27 60.12 72.68

75.88 78.98 78.05 75.37 66.65 69.82 71.23 68.71 59.10 55.91 67.07 58.83 77.91 60.75 61.90 68.25 67.4

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9 77.12 61.12 69.41 71.11

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9 77.12 61.12 69.41 71.11
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8 67.81 68.86 65.69 60.84

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9 77.12 61.12 69.41 71.11
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5 62.10 65.78 82.69 74.49
49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4
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7 61.14 66.27 60.12 72.68
70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2
9 77.12 61.12 69.41 71.11
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70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2
9 77.12 61.12 69.41 71.11
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7 61.14 66.27 60.12 72.68
70.82 74.33 73.68 59.42 78.71 70.07 68.01 53.69 64.43 69.36 74.86 74.87 63.30 70.80 71.01 60.07 70.2
9 77.12 61.12 69.41 71.11
49.05 51.90 49.87 67.43 65.95 65.74 61.92 72.04 66.27 65.20 66.12 65.24 67.15 64.61 70.86 66.61 69.4
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61.64 64.38 63.08 69.61 57.53 70.99 75.14 63.52 78.19 69.26 71.21 69.32 72.69 61.14 61.40 75.43 62.3
5 62.10 65.78 82.69 74.49
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7 61.14 66.27 60.12 72.68
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7 5 9 3 7 2 0 1 0 6 7 8 3 0 2 9 7 0 4 4 9 0 9 9 4 0 3 4 1 6 7 9 3 2 5 4 2
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2 2 6 3 6 5 4 5 9 5 9 5 3 8 0 6 6 6 8 1 8 1 4 0 2 3 6 6 6 6 6 7 0 3 5 8 9
3 9 1 5 0 4 6 5 2 2 5 3 7 3 2 7 0 8 8 7 9 5 3 3 5 7 2 1 4 2 1 3 5 4 8 1 3
6\;0\;4\;9\;3\;4\;4\;5\;6\;6\;9\;6\;7\;3\;7\;0\;2\;3\;4\;7\;8\;1\;8\;8\;1\;5\;2\;1\;5\;9\;3\;1\;3\;5\;9\;1\;7
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AM Matrix for Data Points

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PM Matrix for Data Points

X0 X1 X2 Х3 X4 Х5 Х6 Х7 X8 Х9 X10 X11 X12 X13 X14 X15 Х1

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6 X17 X18
                X19
                     X20
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
79.05 82.29 80.87 67.44 71.91 64.91 55.42 77.65 61.86 64.39 62.59 63.29 75.13 78.37 59.19 61.77 78.1
2 66.99 67.62 56.92 68.77
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
79.05 82.29 80.87 67.44 71.91 64.91 55.42 77.65 61.86 64.39 62.59 63.29 75.13 78.37 59.19 61.77 78.1
2 66.99 67.62 56.92 68.77
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
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9 78.25 61.53 55.48 75.70

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72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
79.05 82.29 80.87 67.44 71.91 64.91 55.42 77.65 61.86 64.39 62.59 63.29 75.13 78.37 59.19 61.77 78.1
2 66.99 67.62 56.92 68.77
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
79.05 82.29 80.87 67.44 71.91 64.91 55.42 77.65 61.86 64.39 62.59 63.29 75.13 78.37 59.19 61.77 78.1
2 66.99 67.62 56.92 68.77
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
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4 57.68 66.56 70.13 74.63
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
73.27 76.87 75.64 53.09 71.57 81.54 67.60 64.39 64.86 87.19 59.86 69.45 64.42 63.01 70.74 67.69 61.5
1 78.64 65.07 72.16 61.57
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
79.05 82.29 80.87 67.44 71.91 64.91 55.42 77.65 61.86 64.39 62.59 63.29 75.13 78.37 59.19 61.77 78.1
2 66.99 67.62 56.92 68.77
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
73.27 76.87 75.64 53.09 71.57 81.54 67.60 64.39 64.86 87.19 59.86 69.45 64.42 63.01 70.74 67.69 61.5
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1 78.64 65.07 72.16 61.57

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60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
73.27 76.87 75.64 53.09 71.57 81.54 67.60 64.39 64.86 87.19 59.86 69.45 64.42 63.01 70.74 67.69 61.5
1 78.64 65.07 72.16 61.57
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
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1 72.17 62.57 63.96 63.84
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
54.48 56.89 54.95 57.68 79.24 65.44 73.31 61.84 72.11 66.64 75.15 86.02 68.39 69.75 65.91 79.84 68.5
6 68.14 72.29 68.33 71.20
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
54.11 57.55 56.52 63.11 59.38 73.55 57.90 79.55 67.81 58.64 59.92 69.58 75.68 57.08 69.40 55.45 61.1
1 72.17 62.57 63.96 63.84
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
60.26 63.76 63.54 72.91 77.35 75.23 67.07 59.64 76.49 60.98 73.55 56.55 63.68 71.87 81.46 72.82 78.6
9 78.25 61.53 55.48 75.70
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
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4 57.68 66.56 70.13 74.63
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
71.29 74.80 74.80 76.94 57.90 77.58 72.44 64.28 56.11 57.42 72.22 61.47 72.65 53.80 63.21 78.36 57.7
4 57.68 66.56 70.13 74.63
73.42 75.24 74.03 74.86 57.44 74.97 72.19 67.85 79.88 59.71 61.48 70.36 68.17 83.37 70.10 72.67 77.2
0 55.15 71.39 75.15 60.42
73.27 76.87 75.64 53.09 71.57 81.54 67.60 64.39 64.86 87.19 59.86 69.45 64.42 63.01 70.74 67.69 61.5
1 78.64 65.07 72.16 61.57
72.75 77.20 75.93 68.11 76.40 55.48 61.61 55.30 57.60 68.51 72.29 76.40 58.49 70.73 71.26 50.04 54.6
5 66.30 58.53 66.65 73.19
48.53 51.10 48.91 72.35 59.89 55.50 66.81 70.94 64.08 77.38 68.88 55.72 61.89 71.09 60.89 71.10 64.7
7 62.79 66.44 70.15 72.04
72.85 75.05 74.18 74.73 61.14 54.43 81.33 67.49 82.03 71.77 71.94 71.88 70.63 53.04 61.38 65.65 74.1
2 77.19 57.70 74.74 64.21
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AM Matrix for Data Points

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PM Matrix for Data Points

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2 79.76 81.65 72.53 84.88
56.39 57.39 57.52 84.48 63.87 68.26 83.43 51.52 74.35 51.70 72.65 76.43 52.74 59.00 65.00 83.13 79.4
8 55.91 52.43 61.87 65.57
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3 57.53 68.95 43.21 53.47
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3 81.06 56.33 66.39 53.17
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8 76.15 81.35 62.42 67.88
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8 76.15 81.35 62.42 67.88
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Calculated Inertia ==> 4560014.86 for K Mean 50 Centroids ----> [[71.57 75.86 71.86 ... 47.71 86.71 79.57] [56.68 61.36 59.32 ... 61.59 59.41 55.05] [80.5 85.83 84.67 ... 72.33 88.67 55.5] [62.93 59.86 59.21 ... 77.5 67.07 79.64] [82.78 85.11 84.22 ... 52.22 65.44 58.56] [68.07 70.93 70.67 ... 62.8 48.33 72.33]] labels ---> [92 65 61 58 53 14 69 48 15 25 64 46 86 86 34 63 78 49 83 35 1 95 43 27 44 99 62 79 83 82 50 92 58 67 98 91 65 43 69 95 25 73 73 1 16 49 1 19 42 61 76 99 46 15 9 26 53 78 1 57 66 90 9 0 64 85 48 97 97 55 76 35 87 51 83 64 85 59 31 94 73 46 55 89 7 13 81 3 40 30 35 26 72 16 86 65 11 7 50 88 9 24 70 55 18 84 59 36 42 5 86 54 88 27 29 13 20 35 14 3 32 35 86 7 47 72 91 65 72 88 99 58 31 99 24 12 67 72 27 11 60 34 46 97 53 9 61 99 93 70 23 3 95 9 74 29 72 52 5 9 56 82 16 68 28 12 46 95 99 56 34 52 56 43 88 98 74 43 60 63 36 88 74 91 67 18 94 73 1 78 44 3 91 70 35 85 60 56 14 35 70 28 25 42 48 56 80 74 69 64 75 16 34 43 32 75 91 49 56 53 64 56 44 96 21 16 13 51 31 59 8 1 75 3 78 79 84 64 27 51 94 20 1 9 54 35 98 1 76 56 40 65 6 92 26 68 84 77 60 95 65 77 26 20 15 85 72 51 61 99 17 26 28 36 68 97 96 14 44 43 57 42 14 35 85 61 41 32 35 93 28 51 60 19 15 1 37 97 51 96 3 31 86 25 22 84 18 31 1 49 12 1 44 50 15 28 52 18 94 42 79 75 11 43 88 96 44 26 99 31 82 49 83 3 29 70 34 38 88 64 40 92 41 51 35 6 68 59 72 96 56 58 22 25 24 34 56 84 49 75 21 0 99 26 84 72 76 74 26 13 44 22 13 98 50 9 75 60 23 73 53 18 68 87

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CRM Matrix for Data Points

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68.75 69.50 68.56 74.69 68.19 67.12 74.81 46.06 75.81 45.44 75.75 74.88 47.69 62.31 83.25 56.25 8
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76.43 78.14 82.00 52.43 58.43 73.43 69.86 85.43 88.43 53.57 62.29 81.14 88.14 81.71 59.29 59.14 6
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74.10 76.10 77.10 62.80 83.80 56.50 85.80 75.60 67.00 52.80 62.70 83.70 80.10 76.80 84.80 82.00 8
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69.75 74.75 77.75 88.38 90.12 62.75 58.38 54.50 53.25 78.25 51.38 75.75 58.25 67.00 61.88 50.00 6
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64.00\ 50.00\ 43.00\ 46.00\ 94.00\ 91.00\ 55.00\ 70.00\ 42.00\ 91.00\ 60.00\ 98.00\ 54.00\ 55.00\ 73.00\ 95.00\ 6
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5.75 63.08 62.92 45.42 56.75
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43.54 47.77 44.92 66.92 58.69 51.85 81.08 50.31 75.38 65.62 86.23 80.38 84.85 46.38 52.31 76.85 6
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[100 rows x 21 columns]

AM Matrix for Data Points

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PM Matrix for Data Points

X 0 Х1 X2 Х3 X4 Х5 Х6 X7 X8 X9 X10 X11 X12 X13 X14 X15 X18 X19 X20 X16 X17 64.08 69.69 68.08 55.62 87.38 71.31 83.46 53.85 52.77 74.77 52.77 55.92 81.62 55.23 76.62 60.08 7 8.00 49.38 79.08 53.08 70.15 72.09 80.18 80.36 65.09 81.00 41.00 67.73 56.55 61.82 69.91 82.09 84.00 47.64 49.09 60.18 47.00 6 3.27 62.18 49.45 74.55 72.00 78.00 82.07 80.79 82.79 60.71 56.50 58.07 73.79 86.57 65.79 55.71 60.86 63.57 64.07 82.64 86.93 8 6.79 46.57 76.36 73.64 59.93 55.00 54.70 53.60 66.20 86.90 88.60 71.70 75.50 77.50 54.10 68.30 63.10 88.60 84.10 81.00 65.40 6 3.60 78.20 51.80 65.60 81.60 76.43 76.57 76.00 87.14 57.71 85.57 78.14 68.14 81.43 72.86 78.71 66.29 55.29 65.14 56.00 63.43 8 9.86 42.86 41.71 79.14 54.00 62.67 70.78 70.56 88.56 66.89 83.00 83.56 58.00 89.89 66.11 86.56 67.11 61.00 86.44 50.00 80.22 8 5.22 82.56 56.33 57.22 89.11 79.90 86.90 87.00 85.30 70.60 78.00 85.90 59.60 66.30 43.20 78.30 49.60 89.80 64.40 66.80 80.70 5 8.80 56.10 64.00 72.90 64.20 52.88 51.38 50.75 80.50 82.38 62.75 50.25 66.12 69.00 75.88 81.50 83.75 43.62 64.75 43.75 57.12 6

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0.75 76.75 57.50 88.50 73.00
68.75 69.50 68.56 74.69 68.19 67.12 74.81 46.06 75.81 45.44 75.75 74.88 47.69 62.31 83.25 56.25 8
0.38 57.31 55.31 61.25 73.12
62.56 68.06 64.06 87.78 56.67 71.11 74.72 49.33 87.28 83.17 61.06 69.56 83.17 60.61 80.44 70.44 6
1.39 67.67 60.72 88.72 53.50
54.27 58.09 60.45 54.18 91.09 72.00 86.55 51.36 76.36 52.45 75.64 89.00 62.09 72.27 57.91 86.73 7
7.00 72.64 87.00 62.18 75.09
50.90 54.30 50.20 84.00 51.50 69.10 49.80 80.00 85.30 60.60 85.80 69.50 62.20 64.70 76.60 83.70 7
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7.64 62.73 72.45 73.91 83.82
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7.64 62.73 72.45 73.91 83.82
61.62 69.62 67.85 77.46 76.23 73.92 50.38 64.46 74.23 45.54 73.62 64.46 76.85 58.23 59.31 79.08 6
1.08 85.31 64.00 44.38 84.08
78.50 79.00 81.75 55.75 85.25 84.25 51.00 44.25 49.75 46.75 83.50 69.50 40.50 82.25 85.00 75.50 5
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69.88 77.00 78.00 46.88 61.00 56.75 76.50 64.62 82.12 88.88 56.88 47.25 54.12 69.00 66.12 86.25 6
8.38 91.25 68.50 68.50 55.75
48.31 51.69 50.08 67.15 52.85 84.77 56.08 63.15 70.77 59.46 58.15 67.92 63.85 68.15 77.31 56.08 5
4.85 46.46 52.23 83.85 66.46
57.78 58.56 57.00 93.89 86.22 83.11 77.56 60.00 80.11 75.89 66.33 57.00 60.22 61.00 63.89 83.78 8
6.56 47.00 47.11 71.44 79.67
75.40 77.96 76.88 79.32 61.48 53.64 69.24 78.20 63.68 65.20 76.72 78.80 74.12 80.16 65.40 55.92 5
5.12 75.96 52.04 74.16 51.08
56.68 61.36 59.32 57.14 75.41 75.95 88.50 64.59 63.18 57.05 56.82 78.00 51.27 74.77 65.23 71.59 5
3.23 54.95 61.59 59.41 55.05
61.33 68.50 66.75 62.92 68.17 53.50 74.92 47.17 52.83 71.92 87.42 85.75 78.92 87.58 79.42 50.75 7
5.75 70.92 56.92 56.83 77.67
56.83 58.67 57.08 52.75 79.42 80.00 61.08 89.83 80.83 88.50 54.25 57.25 72.67 58.50 67.33 75.08 5
4.92 81.92 46.17 53.67 50.58
57.31 58.31 58.08 66.85 47.54 46.77 82.69 85.92 63.00 65.08 67.62 57.38 81.23 50.08 68.38 73.31 7
1.69 87.54 76.31 67.46 50.08
67.42 68.33 68.25 69.42 55.83 64.08 59.92 79.42 76.50 57.92 77.42 68.67 60.58 49.50 48.58 47.92 5
3.25 73.00 84.17 78.92 80.92
68.07\ 70.93\ 70.67\ 90.53\ 66.00\ 66.40\ 83.93\ 54.87\ 57.13\ 62.07\ 83.07\ 64.60\ 69.00\ 52.47\ 63.07\ 72.80\ 4
8.47 53.67 62.80 48.33 72.33
49.75 51.25 49.75 84.75 56.75 69.50 43.25 45.75 64.00 71.75 48.50 72.50 73.75 43.50 50.00 71.25 4
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71.00 73.70 76.30 89.00 66.50 72.50 67.20 85.00 63.30 90.90 45.30 66.60 54.90 78.50 61.40 75.10 4
4.20 52.70 70.20 79.00 46.90
57.78 58.56 57.00 93.89 86.22 83.11 77.56 60.00 80.11 75.89 66.33 57.00 60.22 61.00 63.89 83.78 8
6.56 47.00 47.11 71.44 79.67
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2.90 89.20 73.60 49.90 64.00
64.17 \ 71.33 \ 70.50 \ 82.50 \ 63.25 \ 79.08 \ 51.67 \ 45.83 \ 70.08 \ 60.25 \ 56.25 \ 78.58 \ 78.92 \ 83.00 \ 51.25 \ 64.67 \ 8
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49.57 52.00 50.29 68.57 80.43 59.57 52.86 50.00 63.43 60.00 81.21 45.00 75.14 68.57 69.43 49.71 7
1.36 60.07 58.86 64.93 82.43
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3.07 44.93 79.40 55.73 50.20
72.09 80.18 80.36 65.09 81.00 41.00 67.73 56.55 61.82 69.91 82.09 84.00 47.64 49.09 60.18 47.00 6
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5.75 70.92 56.92 56.83 77.67
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8.47 53.67 62.80 48.33 72.33
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4.30 82.10 68.80 59.80 50.10
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37.85 43.15 39.92 72.92 66.15 51.69 58.85 86.00 44.31 78.31 58.46 56.15 80.69 70.23 54.23 63.00 6
4.31 76.46 68.46 63.15 64.31
76.43 76.57 76.00 87.14 57.71 85.57 78.14 68.14 81.43 72.86 78.71 66.29 55.29 65.14 56.00 63.43 8
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3.23 54.95 61.59 59.41 55.05
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66.83 66.50 66.42 66.75 67.75 76.92 72.83 80.33 68.42 79.75 40.25 71.25 92.58 53.08 54.67 55.00 5
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54.27 58.09 60.45 54.18 91.09 72.00 86.55 51.36 76.36 52.45 75.64 89.00 62.09 72.27 57.91 86.73 7
7.00 72.64 87.00 62.18 75.09
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52.88 51.38 50.75 80.50 82.38 62.75 50.25 66.12 69.00 75.88 81.50 83.75 43.62 64.75 43.75 57.12 6
0.75 76.75 57.50 88.50 73.00
62.93 59.86 59.21 54.43 54.21 63.79 47.07 82.36 57.93 61.86 54.36 87.29 83.64 49.36 63.21 58.21 5
5.00 69.36 77.50 67.07 79.64
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CRM Matrix for Data Points

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14 15	16	17	18	19	20								
79.00 76.0						63.00	55.00	54.00	95.00	99.00	85.00	85.00	8
8.00 41.00													
62.00 72.0						37.00	47.00	73.00	66.00	54.00	57.00	85.00	7
5.00 43.00													
42.00 52.0						53.00	56.00	71.00	49.00	100.00	82.00	57.00	3
9.00 95.00													
63.00 61.0						75.00	44.00	64.00	94.00	55.00	80.00	49.00	9
2.00 77.00													
68.00 76.0						44.00	84.00	45.00	59.00	87.00	56.00	76.00	5
9.00 54.00													
69.00 54.0						35.00	51.00	42.00	52.00	70.00	87.00	36.00	7
5.00 81.00													
67.00 72.0						90.00	64.00	54.00	83.00	46.00	95.00	82.00	3
9.00 87.00													
63.00 66.0						99.00	61.00	64.00	47.00	96.00	51.00	94.00	7
5.00 47.00													
65.00 73.0						68.00	71.00	96.00	98.00	93.00	87.00	74.00	4
4.00 62.00													_
65.00 81.0						48.00	36.00	59.00	67.00	62.00	74.00	89.00	7
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44.00 61.0						41.00	70.00	67.00	54.00	98.00	53.00	58.00	8
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68.00 68.0						43.00	50.00	96.00	81.00	62.00	50.00	87.00	6
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54.00 53.0						67.00	81.00	80.00	73.00	100.00	87.00	35.00	4
9.00 45.00													
45.00 53.0						81.00	98.00	58.00	95.00	82.00	37.00	53.00	4
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87.00 85.00 93.00 98.00 67.00 69.00 79.00 60.00 96.00 94.00 67.00 40.00 98.00 35.00 8 0.00 83.00 52.00 65.00 50.00 96.00 54.00 79.00 84.00 91.00 41.00 100.00 94.00 56.00 42.00 56.00 89.00 68.00 70.00 61.00 43.00 99.00 80.00 67.00 64.00 42.00 77.00 55.00 $68.00 \quad 86.00 \quad 84.00 \quad 70.00 \quad 72.00 \quad 61.00 \quad 72.00 \quad 82.00 \quad 38.00 \quad 40.00 \quad 45.00 \quad 35.00 \quad 68.00 \quad 52.00 \quad 80.00 \quad 80.0$ 8.00 77.00 67.00 89.00 50.00 72.00 90.00 77.00 85.00 87.00 41.00 38.00 89.00 70.00 47.00 42.00 62.00 39.00 50.00 56.00 98.00 4 8.00 57.00 60.00 98.00 93.00 93.00 42.00 55.00 41.00 48.00 76.00 42.00 55.00 53.00 79.00 36.00 73.00 44.00 96.00 68.00 39.00 5 7.00 40.00 41.00 87.00 77.00 76.00 62.00 87.00 85.00 73.00 99.00 99.00 62.00 59.00 54.00 66.00 88.00 90.00 56.00 47.00 73.00 6 0.00 82.00 43.00 40.00 94.00 38.00 78.00 59.00 65.00 66.00 86.00 87.00 62.00 86.00 67.00 55.00 73.00 37.00 99.00 53.00 63.00 4 0.00 59.00 41.00 55.00 53.00 58.00 46.00 $68.00 \quad 70.00 \quad 66.00 \quad 58.00 \quad 57.00 \quad 99.00 \quad 44.00 \quad 99.00 \quad 87.00 \quad 52.00 \quad 45.00 \quad 92.00 \quad 54.00 \quad 44.00 \quad 70.00 \quad 70.0$ 5.00 39.00 100.00 77.00 88.00 57.00 78.00 44.00 54.00 53.00 37.00 43.00 76.00 40.00 98.00 78.00 83.00 56.00 49.00 86.00 77.00 8 4.00 62.00 37.00 91.00 53.00 77.00 36.00 $38.00 \quad 49.00 \quad 45.00 \quad 61.00 \quad 43.00 \quad 55.00 \quad 49.00 \quad 50.00 \quad 70.00 \quad 54.00 \quad 51.00 \quad 99.00 \quad 86.00 \quad 85.00 \quad 9$ 8.00 49.00 95.00 83.00 53.00 86.00 58.00 44.00 45.00 45.00 80.00 46.00 36.00 37.00 44.00 38.00 81.00 63.00 40.00 49.00 58.00 7 5.00 99.00 93.00 58.00 89.00 72.00 69.00 71.00 67.00 67.00 75.00 96.00 90.00 58.00 77.00 62.00 96.00 75.00 62.00 97.00 80.00 66.00 36.00 81.00 95.00 56.00 56.00 72.00 49.00 58.00 60.00 43.00 55.00 61.00 77.00 43.00 42.00 48.00 99.00 62.00 56.00 84.00 9 0.00 41.00 61.00 89.00 52.00 72.00 94.00 99.00 93.00 90.00 92.00 95.00 62.00 44.00 71.00 38.00 88.00 71.00 100.00 84.00 47.00 4 7.00 97.00 86.00 76.00 93.00 43.00 72.00 50.00 67.00 73.00 84.00 91.00 78.00 47.00 96.00 70.00 35.00 65.00 41.00 44.00 52.00 9 5.00 52.00 76.00 72.00 62.00 44.00 39.00 $64.00 \quad 50.00 \quad 43.00 \quad 46.00 \quad 94.00 \quad 91.00 \quad 55.00 \quad 70.00 \quad 42.00 \quad 91.00 \quad 60.00 \quad 98.00 \quad 54.00 \quad 55.00 \quad 70.00 \quad 98.00 \quad 98.0$ 3.00 95.00 66.00 95.00 100.00 91.00 80.00 80.00 79.00 79.00 46.00 67.00 60.00 83.00 59.00 79.00 84.00 75.00 99.00 50.00 69.00 3 9.00 60.00 90.00 61.00 95.00 95.00 48.00 76.00 71.00 67.00 61.00 61.00 95.00 83.00 77.00 58.00 98.00 46.00 85.00 90.00 35.00 5 9.00 53.00 51.00 52.00 81.00 78.00 82.00 $61.00 \quad 51.00 \quad 52.00 \quad 52.00 \quad 78.00 \quad 62.00 \quad 52.00 \quad 92.00 \quad 96.00 \quad 91.00 \quad 74.00 \quad 39.00 \quad 54.00 \quad 60.00 \quad 9$ 0.00 72.00 94.00 35.00 65.00 92.00 55.00 59.00 85.00 80.00 38.00 54.00 97.00 36.00 77.00 75.00 62.00 82.00 41.00 74.00 99.00 5 4.00 55.00 90.00 89.00 56.00 83.00 56.00 70.00 63.00 58.00 98.00 57.00 41.00 62.00 96.00 72.00 76.00 62.00 68.00 100.00 35.00 9 6.00 86.00 95.00 67.00 79.00 71.00 36.00 75.00 81.00 84.00 82.00 73.00 48.00 93.00 51.00 55.00 94.00 70.00 40.00 53.00 39.00 8 9.00 48.00 68.00 47.00 49.00 39.00 51.00 $68.00 \quad 74.00 \quad 74.00 \quad 42.00 \quad 52.00 \quad 54.00 \quad 35.00 \quad 84.00 \quad 56.00 \quad 41.00 \quad 70.00 \quad 70.00 \quad 71.00 \quad 82.00 \quad 40.00 \quad 70.00 \quad 70.0$ 6.00 65.00 54.00 99.00 85.00 57.00 45.00 72.00 80.00 83.00 48.00 52.00 35.00 54.00 56.00 65.00 54.00 97.00 35.00 38.00 46.00 8 6.00 45.00 44.00 66.00 74.00 94.00 78.00 87.00 84.00 76.00 78.00 96.00 71.00 82.00 78.00 64.00 65.00 44.00 37.00 72.00 87.00 6 5.00 71.00 70.00 56.00 41.00 50.00 61.00 75.00 74.00 66.00 84.00 60.00 40.00 85.00 59.00 79.00 39.00 72.00 73.00 88.00 39.00 5 9.00 83.00 85.00 66.00 64.00 95.00 62.00 77.00 62.00 62.00 55.00 52.00 57.00 54.00 63.00 97.00 56.00 100.00 88.00 90.00 43.00 5 0.00 57.00 87.00 68.00 77.00 52.00 45.00 $60.00 \quad 70.00 \quad 70.00 \quad 46.00 \quad 96.00 \quad 69.00 \quad 47.00 \quad 36.00 \quad 40.00 \quad 95.00 \quad 87.00 \quad 85.00 \quad 63.00 \quad 35.00 \quad 5$ 5.00 69.00 59.00 37.00 49.00 71.00 93.00 54.00 52.00 52.00 37.00 88.00 39.00 49.00 90.00 37.00 79.00 39.00 54.00 77.00 82.00 8 0.00 51.00 69.00 76.00 89.00 38.00 42.00 87.00 94.00 95.00 79.00 70.00 41.00 35.00 96.00 49.00 98.00 45.00 68.00 94.00 85.00 4 3.00 95.00 58.00 86.00 99.00 84.00 97.00 $62.00 \quad 73.00 \quad 70.00 \quad 79.00 \quad 51.00 \quad 78.00 \quad 73.00 \quad 72.00 \quad 63.00 \quad 98.00 \quad 95.00 \quad 45.00 \quad 86.00 \quad 54.00 \quad 70.00 \quad 70.0$ 9.00 67.00 70.00 51.00 49.00 44.00 100.00 97.00 93.00 91.00 78.00 54.00 81.00 39.00 49.00 74.00 80.00 69.00 52.00 71.00 70.00 5 6.00 60.00 54.00 92.00 100.00 40.00 70.00 87.00 91.00 81.00 86.00 98.00 78.00 37.00 91.00 71.00 52.00 37.00 69.00 35.00 98.00 5 4.00 50.00 74.00 71.00 51.00 62.00 85.00 71.00 70.00 70.00 92.00 41.00 81.00 100.00 74.00 50.00 76.00 91.00 72.00 89.00 52.00 79.00 40.00 47.00 75.00 89.00 70.00 70.00 86.00 80.00 75.00 54.00 40.00 35.00 64.00 46.00 98.00 44.00 100.00 67.00 68.00 83.00 4 6.00 45.00 90.00 89.00 81.00 74.00 44.00 76.00 80.00 73.00 95.00 82.00 61.00 89.00 83.00 92.00 40.00 75.00 64.00 58.00 72.00 6 4.00 76.00 72.00 69.00 84.00 84.00 38.00 $63.00 \quad 64.00 \quad 67.00 \quad 100.00 \quad 86.00 \quad 86.00 \quad 97.00 \quad 98.00 \quad 97.00 \quad 70.00 \quad 79.00 \quad 88.00 \quad 35.00 \quad 80.00 \quad 9$ 3.00 91.00 61.00 72.00 89.00 43.00 88.00 49.00 51.00 43.00 91.00 98.00 54.00 55.00 92.00 92.00 97.00 80.00 51.00 71.00 47.00 8 4.00 98.00 45.00 83.00 98.00 90.00 44.00 87.00 84.00 86.00 65.00 70.00 87.00 38.00 43.00 96.00 72.00 84.00 59.00 86.00 87.00 7 5.00 80.00 52.00 83.00 46.00 94.00 83.00 26.00 31.00 38.00 91.00 39.00 97.00 98.00 43.00 58.00 98.00 80.00 51.00 66.00 90.00 5 7.00 77.00 78.00 68.00 43.00 72.00 60.00 $0.00 \quad 17.00 \quad 10.00 \quad 79.00 \quad 88.00 \quad 38.00 \quad 35.00 \quad 64.00 \quad 81.00 \quad 82.00 \quad 40.00 \quad 39.00 \quad 45.00 \quad 69.00 \quad 9$ 3.00 43.00 81.00 99.00 39.00 81.00 66.00 74.00 71.00 80.00 74.00 52.00 66.00 47.00 88.00 70.00 71.00 50.00 48.00 87.00 44.00 47.00 49.00 51.00 82.00 84.00 86.00 52.00 62.00 64.00 64.00 98.00 69.00 41.00 77.00 94.00 51.00 57.00 85.00 40.00 37.00 65.00 4 5.00 90.00 73.00 92.00 91.00 46.00 95.00

56.00 68.00 74.00 47.00 94.00 76.00 92.00 43.00 76.00 61.00 69.00 90.00 64.00 90.00 49.00 97.00 82.00 85.00 93.00 59.00 65.00 30.00 24.00 15.00 67.00 45.00 43.00 56.00 91.00 38.00 60.00 99.00 43.00 64.00 86.00 8 2.00 78.00 54.00 88.00 98.00 84.00 69.00 79.00 74.00 72.00 43.00 42.00 77.00 75.00 74.00 73.00 77.00 37.00 85.00 92.00 66.00 47.00 43.00 60.00 43.00 60.00 37.00 100.00 $62.00 \quad 78.00 \quad 79.00 \quad 40.00 \quad 66.00 \quad 56.00 \quad 88.00 \quad 87.00 \quad 75.00 \quad 100.00 \quad 52.00 \quad 40.00 \quad 81.00 \quad 63.00 \quad 60.00 \quad 81.00 \quad 60.00 \quad 80.00 \quad 80.$ 0.00 87.00 37.00 98.00 100.00 57.00 58.00 71.00 79.00 71.00 70.00 80.00 77.00 91.00 65.00 85.00 66.00 84.00 78.00 72.00 39.00 71.00 72.00 74.00 74.00 85.00 94.00 38.00 53.00 66.00 73.00 94.00 42.00 65.00 91.00 68.00 94.00 63.00 91.00 59.00 87.00 36.00 9 5.00 99.00 99.00 86.00 69.00 47.00 91.00 $63.00 \quad 63.00 \quad 62.00 \quad 50.00 \quad 53.00 \quad 58.00 \quad 80.00 \quad 44.00 \quad 80.00 \quad 53.00 \quad 46.00 \quad 68.00 \quad 67.00 \quad 78.00 \quad 80.00 \quad 69.00 \quad 69.0$ 8.00 38.00 91.00 43.00 52.00 55.00 72.00 $60.00 \quad 70.00 \quad 74.00 \quad 87.00 \quad 52.00 \quad 53.00 \quad 71.00 \quad 71.00 \quad 39.00 \quad 48.00 \quad 80.00 \quad 85.00 \quad 54.00 \quad 38.00 \quad 80.00 \quad 80.0$ 6.00 91.00 72.00 90.00 89.00 47.00 77.00 94.00 85.00 82.00 90.00 63.00 70.00 89.00 50.00 60.00 37.00 48.00 71.00 82.00 55.00 9 0.00 96.00 90.00 91.00 35.00 43.00 84.00 27.00 34.00 36.00 90.00 72.00 66.00 92.00 82.00 44.00 93.00 88.00 88.00 81.00 59.00 5 4.00 51.00 69.00 59.00 79.00 70.00 87.00 22.00 39.00 33.00 45.00 71.00 100.00 88.00 97.00 58.00 79.00 80.00 74.00 41.00 81.00 7 6.00 37.00 83.00 48.00 70.00 74.00 65.00 88.00 95.00 92.00 79.00 43.00 43.00 100.00 58.00 62.00 51.00 48.00 52.00 90.00 96.00 8 8.00 92.00 81.00 37.00 41.00 73.00 62.00 71.00 81.00 80.00 81.00 75.00 85.00 38.00 54.00 36.00 37.00 100.00 85.00 43.00 86.00 47.00 36.00 66.00 76.00 37.00 92.00 93.00 72.00 79.00 74.00 96.00 89.00 100.00 77.00 61.00 57.00 88.00 73.00 89.00 76.00 94.00 6 0.00 60.00 92.00 98.00 85.00 90.00 40.00 $69.00 \quad 77.00 \quad 73.00 \quad 42.00 \quad 45.00 \quad 44.00 \quad 56.00 \quad 35.00 \quad 76.00 \quad 58.00 \quad 65.00 \quad 59.00 \quad 62.00 \quad 68.00 \quad 8$ 4.00 96.00 97.00 70.00 57.00 75.00 86.00 41.00 46.00 43.00 44.00 48.00 51.00 99.00 47.00 91.00 38.00 87.00 98.00 99.00 46.00 7 0.00 80.00 49.00 87.00 63.00 41.00 35.00 $66.00 \quad 74.00 \quad 78.00 \quad 66.00 \quad 40.00 \quad 64.00 \quad 86.00 \quad 55.00 \quad 47.00 \quad 66.00 \quad 90.00 \quad 71.00 \quad 72.00 \quad 75.00 \quad 58.00 \quad 78.00 \quad 78.0$ 0.00 87.00 79.00 41.00 57.00 92.00 53.00 52.00 59.00 56.00 65.00 78.00 53.00 91.00 55.00 65.00 40.00 95.00 74.00 45.00 67.00 8 7.00 86.00 77.00 65.00 98.00 78.00 96.00 50.00 56.00 54.00 43.00 85.00 49.00 83.00 71.00 85.00 44.00 45.00 96.00 75.00 59.00 5 4.00 61.00 95.00 83.00 93.00 73.00 52.00 65.00 81.00 73.00 93.00 66.00 39.00 74.00 91.00 43.00 42.00 96.00 97.00 57.00 61.00 5 5.00 49.00 71.00 55.00 46.00 42.00 95.00 73.00 76.00 78.00 84.00 96.00 65.00 88.00 65.00 69.00 53.00 60.00 92.00 90.00 88.00 7 4.00 82.00 96.00 86.00 56.00 83.00 55.00 59.00 62.00 64.00 77.00 69.00 99.00 40.00 88.00 73.00 40.00 85.00 60.00 86.00 57.00 3 7.00 57.00 68.00 100.00 74.00 43.00 47.00 92.00 79.00 84.00 100.00 53.00 75.00 39.00 56.00 57.00 43.00 86.00 55.00 93.00 44.00 9 2.00 96.00 93.00 46.00 73.00 57.00 89.00 59.00 70.00 73.00 68.00 74.00 83.00 55.00 52.00 62.00 41.00 40.00 59.00 92.00 97.00 4 0.00 51.00 60.00 55.00 50.00 45.00 36.00 72.00 80.00 75.00 37.00 57.00 100.00 85.00 36.00 49.00 85.00 62.00 89.00 57.00 66.00 6 4.00 92.00 77.00 47.00 42.00 86.00 97.00 66.00 64.00 62.00 94.00 38.00 63.00 82.00 73.00 39.00 67.00 48.00 64.00 37.00 36.00 10 0.00 95.00 71.00 52.00 89.00 99.00 88.00 79.00 82.00 82.00 38.00 83.00 90.00 41.00 61.00 36.00 82.00 84.00 94.00 69.00 35.00 7 0.00 75.00 82.00 93.00 50.00 93.00 66.00 $61.00 \quad 74.00 \quad 72.00 \quad 76.00 \quad 48.00 \quad 58.00 \quad 85.00 \quad 86.00 \quad 79.00 \quad 88.00 \quad 83.00 \quad 99.00 \quad 65.00 \quad 83.00 \quad 8$ 9.00 84.00 36.00 100.00 55.00 94.00 86.00 41.00 39.00 34.00 79.00 66.00 60.00 65.00 69.00 97.00 68.00 98.00 100.00 88.00 65.00 7 2.00 49.00 89.00 35.00 38.00 70.00 89.00 $69.00 \quad 84.00 \quad 82.00 \quad 89.00 \quad 50.00 \quad 69.00 \quad 50.00 \quad 41.00 \quad 95.00 \quad 43.00 \quad 54.00 \quad 53.00 \quad 41.00 \quad 90.00 \quad 80.00 \quad 80.0$ 4.00 92.00 55.00 60.00 88.00 91.00 37.00 79.00 67.00 67.00 47.00 44.00 66.00 63.00 86.00 47.00 58.00 75.00 56.00 55.00 97.00 9 9.00 37.00 84.00 39.00 99.00 83.00 60.00 48.00 45.00 41.00 50.00 38.00 55.00 83.00 37.00 54.00 87.00 94.00 80.00 84.00 91.00 5 6.00 50.00 68.00 45.00 41.00 46.00 88.00 77.00 94.00 95.00 56.00 61.00 78.00 89.00 85.00 90.00 98.00 55.00 52.00 47.00 54.00 9 2.00 60.00 80.00 86.00 75.00 98.00 79.00 59.00 51.00 43.00 52.00 42.00 47.00 57.00 96.00 99.00 74.00 63.00 42.00 53.00 51.00 8 9.00 74.00 68.00 57.00 58.00 67.00 96.00 74.00 79.00 82.00 62.00 37.00 81.00 86.00 100.00 97.00 77.00 51.00 46.00 98.00 86.00 10 0.00 96.00 98.00 42.00 74.00 80.00 35.00 64.00 54.00 50.00 66.00 85.00 97.00 64.00 91.00 96.00 59.00 61.00 46.00 84.00 91.00 94.00 81.00 74.00 72.00 55.00 76.00 99.00 59.00 70.00 66.00 78.00 73.00 58.00 69.00 53.00 35.00 70.00 97.00 91.00 84.00 84.00 9 0.00 59.00 79.00 73.00 38.00 59.00 64.00 73.00 74.00 72.00 58.00 47.00 44.00 100.00 60.00 76.00 62.00 97.00 57.00 78.00 53.00 70.00 74.00 52.00 47.00 51.00 39.00 58.00 54.00 72.00 59.00 82.00 48.00 62.00 100.00 76.00 48.00 94.00 100.00 41.00 51.00 70.00 7 3.00 69.00 93.00 81.00 38.00 55.00 59.00 59.00 71.00 70.00 54.00 54.00 49.00 44.00 93.00 91.00 61.00 72.00 55.00 91.00 91.00 8 3.00 63.00 51.00 92.00 54.00 88.00 59.00 72.00 66.00 72.00 40.00 47.00 66.00 82.00 44.00 61.00 92.00 56.00 67.00 48.00 57.00 8 8.00 44.00 58.00 68.00 61.00 45.00 73.00 75.00 82.00 79.00 76.00 78.00 56.00 93.00 67.00 76.00 39.00 83.00 54.00 97.00 62.00 4 7.00 84.00 74.00 43.00 43.00 77.00 61.00 57.00 78.00 67.00 48.00 62.00 85.00 48.00 100.00 91.00 49.00 83.00 96.00 66.00 60.00 8 8.00 71.00 36.00 59.00 56.00 41.00 88.00

66.00 65.00 69.00 70.00 91.00 40.00 43.00 92.00 79.00 72.00 100.00 84.00 53.00 48.00 57.00 38.00 35.00 92.00 80.00 73.00 85.00 $61.00 \quad 61.00 \quad 62.00 \quad 52.00 \quad 41.00 \quad 68.00 \quad 47.00 \quad 88.00 \quad 69.00 \quad 51.00 \quad 92.00 \quad 65.00 \quad 49.00 \quad 46.00 \quad 3$ 9.00 72.00 65.00 78.00 82.00 86.00 86.00 77.00 68.00 69.00 68.00 48.00 94.00 85.00 70.00 83.00 74.00 52.00 91.00 97.00 71.00 3 9.00 92.00 93.00 98.00 97.00 76.00 37.00 45.00 73.00 70.00 99.00 94.00 40.00 39.00 63.00 43.00 76.00 44.00 98.00 45.00 35.00 7 5.00 37.00 54.00 73.00 46.00 42.00 83.00 $66.00 \quad 74.00 \quad 81.00 \quad 54.00 \quad 76.00 \quad 49.00 \quad 35.00 \quad 88.00 \quad 98.00 \quad 76.00 \quad 75.00 \quad 77.00 \quad 48.00 \quad 71.00 \quad 9$ 8.00 58.00 39.00 69.00 64.00 47.00 50.00 98.00 100.00 99.00 49.00 78.00 71.00 90.00 49.00 100.00 39.00 37.00 61.00 99.00 91.00 6 1.00 38.00 42.00 45.00 62.00 55.00 97.00 88.00 95.00 94.00 51.00 66.00 87.00 71.00 47.00 94.00 74.00 37.00 91.00 37.00 45.00 7 5.00 58.00 59.00 91.00 94.00 43.00 79.00 57.00 58.00 64.00 82.00 54.00 51.00 38.00 84.00 48.00 42.00 51.00 59.00 44.00 49.00 7 7.00 52.00 68.00 48.00 40.00 50.00 41.00 74.00 71.00 78.00 75.00 35.00 79.00 55.00 95.00 89.00 36.00 48.00 41.00 43.00 76.00 4 7.00 97.00 44.00 78.00 85.00 75.00 93.00 54.00 59.00 50.00 35.00 65.00 54.00 96.00 95.00 90.00 46.00 94.00 100.00 45.00 71.00 7 3.00 65.00 67.00 81.00 88.00 37.00 57.00 91.00 85.00 85.00 35.00 65.00 86.00 79.00 54.00 87.00 38.00 48.00 100.00 74.00 61.00 5 8.00 44.00 93.00 95.00 61.00 80.00 81.00 80.00 90.00 89.00 67.00 98.00 71.00 40.00 39.00 86.00 97.00 73.00 58.00 81.00 52.00 3 5.00 42.00 49.00 58.00 83.00 58.00 75.00 76.00 71.00 72.00 98.00 93.00 81.00 60.00 40.00 42.00 90.00 46.00 87.00 64.00 56.00 7 7.00 39.00 70.00 94.00 37.00 85.00 88.00 34.00 42.00 39.00 79.00 39.00 63.00 71.00 61.00 68.00 63.00 46.00 36.00 58.00 78.00 5 7.00 98.00 47.00 35.00 47.00 91.00 89.00 $67.00 \quad 62.00 \quad 60.00 \quad 95.00 \quad 87.00 \quad 90.00 \quad 92.00 \quad 57.00 \quad 45.00 \quad 66.00 \quad 39.00 \quad 55.00 \quad 35.00 \quad 67.00 \quad 5$ 3.00 77.00 44.00 71.00 44.00 62.00 70.00 $65.00 \quad 61.00 \quad 71.00 \quad 55.00 \quad 41.00 \quad 81.00 \quad 91.00 \quad 61.00 \quad 91.00 \quad 55.00 \quad 79.00 \quad 50.00 \quad 81.00 \quad 77.00 \quad 5$ 9.00 97.00 56.00 54.00 65.00 49.00 78.00 81.00 71.00 73.00 64.00 75.00 88.00 42.00 71.00 66.00 58.00 39.00 72.00 38.00 98.00 8 3.00 58.00 97.00 45.00 36.00 82.00 54.00 50.00 47.00 54.00 61.00 87.00 41.00 69.00 81.00 58.00 74.00 69.00 53.00 96.00 49.00 6 1.00 53.00 54.00 64.00 84.00 93.00 61.00 $66.00 \quad 57.00 \quad 52.00 \quad 54.00 \quad 68.00 \quad 84.00 \quad 80.00 \quad 50.00 \quad 76.00 \quad 55.00 \quad 41.00 \quad 75.00 \quad 97.00 \quad 91.00 \quad 91.0$ 0.00 85.00 48.00 80.00 50.00 82.00 57.00 67.00 81.00 79.00 61.00 65.00 62.00 97.00 57.00 77.00 71.00 64.00 48.00 44.00 96.00 8 8.00 97.00 78.00 65.00 61.00 95.00 39.00 51.00 58.00 54.00 62.00 48.00 42.00 77.00 80.00 63.00 37.00 57.00 38.00 86.00 67.00 4 8.00 46.00 43.00 97.00 100.00 44.00 53.00 53.00 62.00 56.00 35.00 80.00 44.00 36.00 85.00 80.00 58.00 54.00 89.00 57.00 90.00 6 8.00 66.00 71.00 53.00 84.00 79.00 85.00 82.00 67.00 61.00 73.00 42.00 68.00 40.00 78.00 97.00 96.00 82.00 39.00 71.00 100.00 8 7.00 44.00 73.00 46.00 70.00 36.00 77.00 50.00 50.00 47.00 76.00 46.00 99.00 84.00 55.00 62.00 57.00 68.00 67.00 49.00 55.00 6 7.00 94.00 73.00 58.00 99.00 89.00 92.00 80.00 92.00 88.00 55.00 96.00 46.00 55.00 71.00 86.00 41.00 49.00 71.00 77.00 57.00 4 4.00 37.00 68.00 57.00 58.00 49.00 79.00 $65.00 \quad 74.00 \quad 77.00 \quad 65.00 \quad 69.00 \quad 36.00 \quad 78.00 \quad 39.00 \quad 97.00 \quad 93.00 \quad 71.00 \quad 86.00 \quad 78.00 \quad 87.00 \quad 78.00 \quad 78.0$ 3.00 42.00 75.00 87.00 39.00 50.00 62.00 35.00 28.00 27.00 95.00 47.00 95.00 90.00 89.00 98.00 99.00 47.00 74.00 59.00 49.00 4 1.00 38.00 81.00 59.00 77.00 77.00 54.00 68.00 77.00 80.00 68.00 35.00 79.00 55.00 87.00 60.00 52.00 62.00 38.00 68.00 61.00 65.00 91.00 77.00 83.00 82.00 91.00 95.00 96.00 96.00 99.00 42.00 55.00 98.00 83.00 76.00 92.00 97.00 45.00 99.00 58.00 58.00 7 5.00 55.00 77.00 70.00 50.00 53.00 100.00 $68.00 \quad 60.00 \quad 53.00 \quad 50.00 \quad 66.00 \quad 79.00 \quad 58.00 \quad 54.00 \quad 71.00 \quad 90.00 \quad 59.00 \quad 78.00 \quad 39.00 \quad 55.00 \quad 3$ 6.00 76.00 43.00 92.00 80.00 71.00 99.00 71.00 69.00 68.00 43.00 53.00 74.00 96.00 57.00 79.00 64.00 100.00 64.00 94.00 39.00 49.00 96.00 79.00 99.00 46.00 91.00 90.00 51.00 49.00 51.00 67.00 39.00 38.00 95.00 46.00 91.00 67.00 88.00 47.00 98.00 49.00 45.00 68.00 35.00 86.00 58.00 86.00 72.00 87.00 100.00 100.00 77.00 41.00 70.00 87.00 62.00 99.00 80.00 51.00 68.00 38.00 41.00 7 4.00 65.00 79.00 62.00 50.00 46.00 68.00 $61.00 \quad 70.00 \quad 76.00 \quad 46.00 \quad 90.00 \quad 84.00 \quad 75.00 \quad 49.00 \quad 51.00 \quad 73.00 \quad 71.00 \quad 39.00 \quad 74.00 \quad 89.00 \quad 70.00 \quad 70.0$ 6.00 53.00 95.00 96.00 94.00 35.00 38.00 77.00 78.00 73.00 53.00 52.00 92.00 72.00 67.00 94.00 40.00 73.00 91.00 50.00 72.00 70.001.00 65.00 84.00 82.00 72.00 83.00 42.00 49.00 57.00 52.00 65.00 35.00 48.00 51.00 56.00 77.00 56.00 84.00 51.00 74.00 99.00 7 0.00 51.00 82.00 46.00 69.00 100.00 53.00 88.00 89.00 86.00 50.00 62.00 42.00 54.00 70.00 82.00 89.00 84.00 55.00 38.00 95.00 6 0.00 81.00 70.00 98.00 55.00 43.00 48.00 64.00 66.00 59.00 82.00 46.00 65.00 38.00 98.00 86.00 37.00 40.00 43.00 58.00 69.00 87.00 98.00 98.00 43.00 46.00 64.00 47.00 47.00 58.00 67.00 76.00 83.00 50.00 74.00 87.00 67.00 99.00 47.00 98.00 43.00 91.00 6 3.00 93.00 51.00 64.00 75.00 92.00 53.00 $69.00 \quad 78.00 \quad 76.00 \quad 89.00 \quad 48.00 \quad 57.00 \quad 75.00 \quad 39.00 \quad 80.00 \quad 39.00 \quad 71.00 \quad 96.00 \quad 58.00 \quad 79.00 \quad 60.00 \quad 70.00 \quad 70.0$ 8.00 69.00 37.00 71.00 84.00 98.00 79.00 56.00 79.00 72.00 76.00 62.00 91.00 52.00 41.00 90.00 91.00 80.00 81.00 91.00 62.00 9 4.00 77.00 74.00 78.00 97.00 67.00 71.00 78.00 90.00 93.00 87.00 40.00 85.00 95.00 74.00 44.00 67.00 89.00 74.00 98.00 66.00 9 6.00 96.00 39.00 68.00 45.00 80.00 51.00 89.00 84.00 82.00 93.00 49.00 47.00 87.00 62.00 39.00 56.00 81.00 72.00 87.00 48.00 6 8.00 86.00 35.00 80.00 56.00 52.00 40.00

52.00 57.00 56.00 93.00 49.00 95.00 42.00 85.00 40.00 45.00 61.00 85.00 38.00 45.00 6 7.00 80.00 64.00 35.00 81.00 62.00 81.00 95.00 81.00 84.00 62.00 92.00 68.00 85.00 89.00 65.00 82.00 45.00 87.00 91.00 44.00 5 5.00 47.00 41.00 89.00 50.00 85.00 95.00 53.00 51.00 51.00 95.00 38.00 80.00 42.00 87.00 66.00 96.00 93.00 54.00 92.00 35.00 9 3.00 84.00 75.00 95.00 56.00 43.00 35.00 49.00 57.00 46.00 42.00 40.00 91.00 90.00 97.00 67.00 45.00 65.00 43.00 73.00 35.00 8 1.00 62.00 45.00 45.00 40.00 66.00 94.00 42.00 66.00 69.00 45.00 35.00 80.00 70.00 66.00 65.00 62.00 53.00 94.00 73.00 87.00 7 8.00 50.00 87.00 93.00 64.00 65.00 69.00 46.00 43.00 44.00 41.00 51.00 98.00 46.00 59.00 60.00 79.00 43.00 83.00 53.00 87.00 7 1.00 37.00 47.00 68.00 57.00 79.00 67.00 27.00 34.00 32.00 96.00 48.00 47.00 98.00 77.00 37.00 67.00 52.00 51.00 79.00 60.00 4 7.00 35.00 67.00 79.00 85.00 55.00 92.00 42.00 39.00 34.00 51.00 74.00 94.00 67.00 35.00 45.00 54.00 38.00 43.00 58.00 70.00 7 8.00 45.00 79.00 97.00 72.00 69.00 71.00 41.00 45.00 40.00 74.00 62.00 94.00 97.00 53.00 45.00 51.00 79.00 66.00 99.00 41.00 6 8.00 54.00 36.00 93.00 45.00 58.00 37.00 44.00 63.00 62.00 78.00 77.00 35.00 93.00 75.00 76.00 78.00 46.00 49.00 99.00 37.00 7 4.00 92.00 84.00 85.00 37.00 52.00 47.00 79.00 72.00 69.00 94.00 45.00 50.00 94.00 81.00 83.00 60.00 61.00 76.00 74.00 69.00 3 9.00 42.00 50.00 56.00 62.00 73.00 60.00 76.00 70.00 69.00 49.00 97.00 65.00 49.00 89.00 69.00 41.00 87.00 61.00 91.00 36.00 6 2.00 97.00 40.00 90.00 64.00 65.00 100.00 35.00 44.00 43.00 64.00 80.00 43.00 40.00 84.00 89.00 50.00 36.00 71.00 65.00 56.00 5 5.00 45.00 85.00 72.00 98.00 58.00 52.00 $18.00 \quad 32.00 \quad 28.00 \quad 80.00 \quad 46.00 \quad 86.00 \quad 49.00 \quad 68.00 \quad 71.00 \quad 66.00 \quad 82.00 \quad 38.00 \quad 56.00 \quad 50.00 \quad 68.00 \quad 71.00 \quad 68.00 \quad 82.00 \quad 80.00 \quad 80.0$ 8.00 72.00 40.00 50.00 35.00 47.00 80.00 88.00 99.00 95.00 63.00 92.00 77.00 44.00 70.00 76.00 70.00 41.00 56.00 87.00 66.00 9 0.00 79.00 88.00 70.00 55.00 47.00 45.00 28.00 23.00 19.00 83.00 76.00 51.00 48.00 97.00 59.00 94.00 59.00 70.00 72.00 92.00 3 5.00 67.00 61.00 60.00 61.00 68.00 47.00 32.00 39.00 33.00 80.00 57.00 51.00 98.00 46.00 88.00 42.00 72.00 77.00 49.00 93.00 9 8.00 58.00 83.00 78.00 35.00 47.00 46.00 46.00 42.00 46.00 91.00 79.00 99.00 86.00 38.00 98.00 90.00 92.00 76.00 39.00 74.00 5 7.00 96.00 65.00 39.00 37.00 71.00 56.00 57.00 67.00 72.00 98.00 70.00 90.00 51.00 56.00 64.00 73.00 70.00 89.00 100.00 90.00 3 5.00 48.00 86.00 65.00 80.00 38.00 48.00 80.00 75.00 69.00 50.00 74.00 94.00 93.00 51.00 61.00 78.00 92.00 44.00 99.00 73.00 7 6.00 76.00 45.00 80.00 75.00 48.00 56.00 43.00 60.00 58.00 88.00 67.00 97.00 72.00 100.00 64.00 78.00 98.00 49.00 79.00 64.00 8 4.00 54.00 66.00 73.00 92.00 60.00 78.00 76.00 70.00 68.00 78.00 91.00 54.00 86.00 75.00 38.00 100.00 54.00 91.00 88.00 89.00 5 5.00 71.00 40.00 86.00 70.00 39.00 48.00 38.00 60.00 50.00 81.00 63.00 84.00 35.00 56.00 92.00 86.00 58.00 61.00 88.00 75.00 7 7.00 71.00 77.00 58.00 58.00 74.00 38.00 81.00 91.00 87.00 37.00 91.00 88.00 66.00 89.00 70.00 55.00 85.00 63.00 92.00 71.00 4 8.00 35.00 88.00 47.00 46.00 68.00 44.00 52.00 48.00 49.00 98.00 72.00 86.00 97.00 43.00 99.00 100.00 43.00 41.00 79.00 41.00 55.00 57.00 47.00 37.00 36.00 95.00 46.00 51.00 51.00 54.00 58.00 35.00 90.00 63.00 82.00 71.00 68.00 82.00 74.00 47.00 97.00 75.00 100.00 47.00 48.00 74.00 43.00 61.00 49.00 58.00 55.00 48.00 55.00 91.00 41.00 54.00 52.00 39.00 45.00 53.00 35.00 79.00 8 4.00 97.00 85.00 76.00 76.00 79.00 94.00 94.00 86.00 87.00 46.00 97.00 58.00 91.00 62.00 38.00 44.00 70.00 82.00 97.00 100.00 8 7.00 43.00 76.00 74.00 92.00 61.00 97.00 77.00 88.00 85.00 63.00 53.00 75.00 45.00 43.00 48.00 65.00 100.00 70.00 77.00 69.00 9 7.00 87.00 65.00 52.00 43.00 88.00 77.00 70.00 65.00 60.00 97.00 99.00 42.00 62.00 77.00 99.00 87.00 52.00 38.00 36.00 68.00 7 7.00 79.00 44.00 45.00 74.00 59.00 87.00 $61.00 \quad 67.00 \quad 66.00 \quad 48.00 \quad 39.00 \quad 80.00 \quad 57.00 \quad 73.00 \quad 53.00 \quad 52.00 \quad 62.00 \quad 74.00 \quad 66.00 \quad 36.00 \quad 9$ 1.00 57.00 52.00 45.00 50.00 36.00 58.00 55.00 46.00 44.00 96.00 35.00 53.00 80.00 37.00 37.00 76.00 98.00 49.00 77.00 61.00 7 5.00 50.00 84.00 86.00 35.00 96.00 64.00 $60.00 \quad 60.00 \quad 60.00 \quad 53.00 \quad 40.00 \quad 40.00 \quad 53.00 \quad 63.00 \quad 45.00 \quad 70.00 \quad 49.00 \quad 45.00 \quad 64.00 \quad 47.00 \quad 9$ 2.00 41.00 49.00 78.00 44.00 66.00 90.00 64.00 76.00 74.00 60.00 73.00 71.00 59.00 79.00 59.00 56.00 85.00 40.00 46.00 84.00 44.00 85.00 69.00 47.00 65.00 71.00 81.00 49.00 50.00 52.00 100.00 83.00 91.00 55.00 83.00 36.00 47.00 79.00 51.00 67.00 69.00 9 0.00 70.00 69.00 59.00 49.00 44.00 62.00 61.00 86.00 87.00 44.00 53.00 49.00 86.00 40.00 48.00 41.00 64.00 76.00 75.00 45.00 83.00 35.00 47.00 88.00 36.00 100.00 55.00 82.00 82.00 80.00 43.00 66.00 45.00 42.00 75.00 68.00 67.00 95.00 95.00 70.00 57.00 3 7.00 41.00 54.00 86.00 89.00 94.00 97.00 74.00 81.00 71.00 68.00 96.00 41.00 58.00 47.00 36.00 90.00 59.00 42.00 46.00 54.00 9 1.00 49.00 88.00 81.00 77.00 45.00 48.00 46.00 64.00 66.00 51.00 68.00 38.00 67.00 46.00 99.00 99.00 93.00 88.00 88.00 49.00 3 5.00 79.00 71.00 96.00 35.00 70.00 36.00 57.00 61.00 54.00 98.00 92.00 40.00 95.00 67.00 58.00 93.00 56.00 46.00 51.00 66.00 6 8.00 36.00 87.00 92.00 68.00 84.00 70.00 $67.00 \quad 74.00 \quad 70.00 \quad 39.00 \quad 36.00 \quad 70.00 \quad 90.00 \quad 36.00 \quad 79.00 \quad 35.00 \quad 35.00 \quad 76.00 \quad 85.00 \quad 79.00 \quad 4$ 6.00 72.00 54.00 39.00 83.00 35.00 66.00 71.00 62.00 50.00 56.00 46.00 98.00 90.00 53.00 95.00 70.00 79.00 83.00 83.00 78.00 5 6.00 88.00 54.00 73.00 56.00 50.00 85.00 59.00 72.00 68.00 77.00 46.00 90.00 86.00 47.00 53.00 91.00 43.00 97.00 39.00 73.00 9 1.00 37.00 79.00 97.00 90.00 49.00 67.00

73.00 79.00 79.00 57.00 86.00 96.00 57.00 44.00 40.00 78.00 59.00 94.00 54.00 95.00 72.00 65.00 80.00 35.00 52.00 53.00 56.00 52.00 61.00 66.00 87.00 66.00 60.00 97.00 67.00 49.00 57.00 79.00 79.00 91.00 48.00 3 9.00 59.00 51.00 50.00 58.00 49.00 59.00 84.00 80.00 80.00 71.00 52.00 74.00 91.00 80.00 77.00 51.00 63.00 42.00 92.00 93.00 5 9.00 71.00 93.00 94.00 61.00 65.00 60.00 98.00 87.00 90.00 50.00 71.00 82.00 39.00 51.00 41.00 96.00 62.00 45.00 77.00 68.00 7 0.00 64.00 48.00 100.00 73.00 48.00 65.00 74.00 64.00 60.00 86.00 58.00 71.00 75.00 42.00 82.00 88.00 67.00 96.00 99.00 44.00 9 0.00 68.00 66.00 75.00 54.00 95.00 50.00 47.00 49.00 49.00 36.00 38.00 52.00 48.00 86.00 36.00 43.00 90.00 52.00 48.00 63.00 3 6.00 98.00 68.00 36.00 45.00 61.00 98.00 80.00 75.00 77.00 97.00 98.00 93.00 64.00 89.00 55.00 70.00 55.00 82.00 54.00 100.00 6 4.00 54.00 35.00 53.00 95.00 86.00 42.00 40.00 42.00 38.00 88.00 88.00 53.00 57.00 57.00 83.00 39.00 98.00 36.00 69.00 96.00 7 7.00 35.00 92.00 45.00 67.00 44.00 98.00 44.00 50.00 51.00 83.00 82.00 37.00 70.00 79.00 35.00 86.00 39.00 62.00 100.00 42.00 6 0.00 68.00 51.00 77.00 37.00 65.00 80.00 69.00 58.00 53.00 68.00 60.00 99.00 81.00 71.00 76.00 44.00 66.00 64.00 65.00 70.00 55.00 78.00 85.00 79.00 78.00 63.00 56.00 $68.00 \quad 80.00 \quad 76.00 \quad 79.00 \quad 37.00 \quad 94.00 \quad 77.00 \quad 46.00 \quad 39.00 \quad 56.00 \quad 50.00 \quad 56.00 \quad 79.00 \quad 43.00 \quad 68.00 \quad 79.00 \quad 80.00 \quad 79.00 \quad 80.00 \quad 79.00 \quad 80.00 \quad 80.0$ 0.00 58.00 51.00 39.00 95.00 77.00 45.00 70.00 71.00 74.00 87.00 52.00 94.00 92.00 81.00 92.00 74.00 59.00 74.00 77.00 82.00 5 5.00 89.00 71.00 71.00 86.00 73.00 98.00 50.00 60.00 59.00 63.00 35.00 89.00 55.00 66.00 51.00 51.00 46.00 85.00 84.00 52.00 8 7.00 38.00 40.00 44.00 61.00 90.00 93.00 62.00 55.00 49.00 100.00 89.00 35.00 41.00 57.00 91.00 88.00 99.00 46.00 62.00 93.00 100.00 76.00 78.00 89.00 44.00 46.00 81.00 74.00 75.00 82.00 90.00 36.00 57.00 80.00 40.00 77.00 58.00 47.00 36.00 75.00 8 9.00 51.00 78.00 78.00 100.00 98.00 89.00 79.00 60.00 65.00 44.00 66.00 64.00 53.00 69.00 54.00 56.00 45.00 55.00 98.00 40.00 4 9.00 52.00 66.00 59.00 68.00 47.00 65.00 43.00 51.00 54.00 59.00 38.00 35.00 65.00 51.00 63.00 81.00 89.00 67.00 49.00 36.00 4 3.00 98.00 83.00 75.00 35.00 36.00 56.00 57.00 77.00 80.00 50.00 56.00 64.00 41.00 76.00 76.00 77.00 83.00 98.00 75.00 72.00 7 4.00 91.00 72.00 57.00 42.00 76.00 99.00 $63.00 \quad 71.00 \quad 69.00 \quad 66.00 \quad 40.00 \quad 45.00 \quad 94.00 \quad 51.00 \quad 87.00 \quad 97.00 \quad 69.00 \quad 39.00 \quad 49.00 \quad 78.00 \quad 78.0$ 8.00 58.00 91.00 60.00 75.00 83.00 92.00 52.00 70.00 62.00 94.00 50.00 48.00 66.00 100.00 66.00 91.00 85.00 84.00 66.00 93.00 6 4.00 50.00 76.00 86.00 57.00 63.00 70.00 47.00 59.00 50.00 37.00 95.00 63.00 80.00 91.00 67.00 68.00 49.00 74.00 92.00 45.00 5 7.00 38.00 48.00 58.00 47.00 92.00 98.00 65.00 69.00 70.00 59.00 37.00 99.00 38.00 62.00 99.00 74.00 89.00 85.00 57.00 76.00 6 1.00 96.00 41.00 58.00 77.00 39.00 39.00 56.00 68.00 70.00 75.00 44.00 86.00 63.00 52.00 78.00 87.00 86.00 79.00 49.00 73.00 9 3.00 62.00 73.00 96.00 38.00 35.00 83.00 54.00 52.00 51.00 88.00 37.00 64.00 85.00 80.00 67.00 59.00 71.00 48.00 89.00 35.00 5 3.00 50.00 41.00 92.00 81.00 98.00 68.00 75.00 72.00 62.00 85.00 55.00 36.00 93.00 98.00 73.00 61.00 56.00 45.00 92.00 36.00 5 6.00 87.00 43.00 98.00 61.00 77.00 43.00 $65.00 \quad 79.00 \quad 81.00 \quad 47.00 \quad 67.00 \quad 80.00 \quad 74.00 \quad 90.00 \quad 35.00 \quad 82.00 \quad 97.00 \quad 36.00 \quad 93.00 \quad 60.00 \quad 50.00 \quad 93.00 \quad 93.0$ 9.00 67.00 70.00 42.00 99.00 48.00 99.00 51.00 52.00 44.00 94.00 49.00 45.00 42.00 92.00 83.00 53.00 71.00 79.00 49.00 100.00 48.00 74.00 75.00 38.00 52.00 88.00 95.00 $65.00 \quad 66.00 \quad 62.00 \quad 49.00 \quad 36.00 \quad 44.00 \quad 87.00 \quad 45.00 \quad 63.00 \quad 36.00 \quad 50.00 \quad 65.00 \quad 36.00 \quad 37.00 \quad 5$ 6.00 91.00 45.00 80.00 72.00 97.00 98.00 85.00 86.00 98.00 80.00 39.00 68.00 35.00 42.00 63.00 60.00 55.00 77.00 88.00 36.00 6 5.00 99.00 48.00 49.00 71.00 93.00 50.00 $64.00 \quad 73.00 \quad 70.00 \quad 65.00 \quad 42.00 \quad 81.00 \quad 39.00 \quad 61.00 \quad 93.00 \quad 91.00 \quad 64.00 \quad 58.00 \quad 93.00 \quad 55.00 \quad 81.00 \quad 93.00 \quad 93.0$ 5.00 73.00 44.00 77.00 57.00 94.00 66.00 66.00 60.00 57.00 63.00 85.00 89.00 95.00 37.00 60.00 88.00 37.00 60.00 65.00 71.00 7 0.00 37.00 53.00 65.00 46.00 80.00 57.00 52.00 53.00 49.00 36.00 38.00 78.00 95.00 90.00 70.00 77.00 90.00 59.00 64.00 93.00 7 7.00 80.00 41.00 89.00 44.00 50.00 97.00 $63.00 \quad 60.00 \quad 57.00 \quad 97.00 \quad 53.00 \quad 91.00 \quad 63.00 \quad 93.00 \quad 47.00 \quad 85.00 \quad 52.00 \quad 56.00 \quad 51.00 \quad 94.00 \quad 5$ 0.00 57.00 77.00 83.00 72.00 90.00 71.00 59.00 71.00 65.00 59.00 74.00 69.00 80.00 38.00 74.00 69.00 77.00 70.00 55.00 98.00 8 1.00 46.00 41.00 74.00 100.00 54.00 76.00 75.00 82.00 90.00 40.00 99.00 38.00 87.00 81.00 72.00 38.00 98.00 71.00 75.00 57.00 8 5.00 82.00 97.00 100.00 59.00 35.00 80.00 91.00 86.00 84.00 96.00 51.00 71.00 80.00 84.00 73.00 75.00 42.00 47.00 59.00 75.00 5 7.00 62.00 48.00 40.00 91.00 66.00 70.00 24.00 38.00 27.00 48.00 52.00 57.00 63.00 61.00 55.00 51.00 77.00 83.00 95.00 55.00 5 7.00 76.00 92.00 75.00 65.00 98.00 53.00 62.00 62.00 63.00 85.00 59.00 63.00 97.00 45.00 88.00 97.00 79.00 86.00 84.00 35.00 9 1.00 80.00 58.00 94.00 40.00 94.00 63.00 $65.00 \quad 54.00 \quad 57.00 \quad 62.00 \quad 62.00 \quad 97.00 \quad 46.00 \quad 50.00 \quad 90.00 \quad 76.00 \quad 39.00 \quad 76.00 \quad 79.00 \quad 73.00 \quad 8$ 1.00 47.00 46.00 41.00 48.00 90.00 66.00 82.00 97.00 96.00 66.00 87.00 84.00 73.00 59.00 97.00 43.00 51.00 92.00 91.00 48.00 4 0.00 44.00 97.00 63.00 52.00 41.00 42.00 90.00 95.00 93.00 94.00 36.00 58.00 66.00 86.00 88.00 48.00 76.00 72.00 35.00 97.00 9 2.00 99.00 90.00 45.00 67.00 73.00 48.00 94.00 90.00 91.00 55.00 99.00 74.00 72.00 38.00 38.00 40.00 63.00 94.00 36.00 41.00 3 8.00 90.00 41.00 81.00 38.00 76.00 86.00 51.00 72.00 79.00 64.00 47.00 84.00 49.00 85.00 85.00 65.00 98.00 38.00 100.00 37.00 10 0.00 50.00 58.00 100.00 69.00 85.00 92.00

73.00 66.00 62.00 67.00 90.00 97.00 40.00 80.00 82.00 42.00 62.00 78.00 86.00 64.00 88.00 86.00 76.00 78.00 88.00 61.00 97.00 53.00 58.00 55.00 96.00 69.00 85.00 49.00 52.00 51.00 68.00 96.00 49.00 70.00 89.00 7 6.00 58.00 81.00 55.00 83.00 55.00 91.00 91.00 89.00 92.00 75.00 67.00 61.00 52.00 73.00 59.00 68.00 93.00 51.00 41.00 82.00 7 4.00 54.00 43.00 86.00 70.00 77.00 51.00 55.00 56.00 51.00 90.00 47.00 51.00 39.00 76.00 92.00 76.00 65.00 35.00 67.00 85.00 5 5.00 77.00 46.00 36.00 95.00 91.00 74.00 $65.00 \quad 73.00 \quad 75.00 \quad 54.00 \quad 75.00 \quad 92.00 \quad 73.00 \quad 76.00 \quad 94.00 \quad 70.00 \quad 68.00 \quad 98.00 \quad 82.00 \quad 98.00 \quad 5$ 4.00 46.00 70.00 51.00 91.00 83.00 43.00 74.00 74.00 72.00 41.00 96.00 90.00 66.00 38.00 71.00 58.00 91.00 81.00 53.00 68.00 8 4.00 57.00 56.00 45.00 48.00 64.00 52.00 56.00 72.00 65.00 64.00 82.00 83.00 88.00 54.00 90.00 47.00 66.00 47.00 72.00 79.00 8 5.00 46.00 78.00 82.00 54.00 58.00 91.00 62.00 67.00 58.00 85.00 91.00 48.00 99.00 76.00 88.00 95.00 67.00 54.00 50.00 41.00 64.00 45.00 61.00 99.00 89.00 85.00 77.00 75.00 88.00 85.00 74.00 55.00 49.00 36.00 65.00 38.00 97.00 94.00 66.00 69.00 54.00 4 9.00 74.00 37.00 83.00 37.00 82.00 80.00 $66.00 \quad 72.00 \quad 70.00 \quad 94.00 \quad 88.00 \quad 67.00 \quad 68.00 \quad 44.00 \quad 57.00 \quad 84.00 \quad 80.00 \quad 78.00 \quad 55.00 \quad 93.00 \quad 5$ 0.00 56.00 61.00 86.00 53.00 67.00 87.00 $62.00 \quad 67.00 \quad 62.00 \quad 100.00 \quad 68.00 \quad 52.00 \quad 82.00 \quad 85.00 \quad 70.00 \quad 90.00 \quad 46.00 \quad 36.00 \quad 51.00 \quad 81.00 \quad 80.00 \quad 80.$ 6.00 76.00 36.00 37.00 38.00 81.00 40.00 $61.00 \quad 47.00 \quad 56.00 \quad 50.00 \quad 56.00 \quad 72.00 \quad 58.00 \quad 99.00 \quad 59.00 \quad 35.00 \quad 57.00 \quad 96.00 \quad 99.00 \quad 46.00 \quad 70.00 \quad 70.0$ 9.00 37.00 74.00 67.00 78.00 67.00 48.00 $68.00 \quad 60.00 \quad 59.00 \quad 42.00 \quad 50.00 \quad 37.00 \quad 78.00 \quad 48.00 \quad 75.00 \quad 77.00 \quad 83.00 \quad 90.00 \quad 36.00 \quad 52.00 \quad 10$ 0.00 54.00 76.00 49.00 65.00 54.00 96.00 87.00 95.00 86.00 79.00 42.00 72.00 88.00 65.00 42.00 69.00 86.00 45.00 51.00 57.00 7 7.00 100.00 80.00 64.00 69.00 93.00 56.00 84.00 95.00 92.00 41.00 100.00 87.00 36.00 85.00 51.00 41.00 93.00 35.00 45.00 93.00 6 7.00 48.00 97.00 73.00 45.00 44.00 52.00 64.00 53.00 57.00 80.00 85.00 48.00 99.00 55.00 76.00 54.00 58.00 96.00 83.00 77.00 36.00 100.00 79.00 71.00 97.00 77.00 66.00 $61.00 \quad 72.00 \quad 70.00 \quad 82.00 \quad 63.00 \quad 98.00 \quad 90.00 \quad 69.00 \quad 61.00 \quad 67.00 \quad 84.00 \quad 52.00 \quad 83.00 \quad 78.00 \quad 78.0$ 3.00 72.00 81.00 88.00 84.00 81.00 87.00 $66.00 \quad 71.00 \quad 76.00 \quad 38.00 \quad 61.00 \quad 84.00 \quad 83.00 \quad 95.00 \quad 65.00 \quad 44.00 \quad 90.00 \quad 57.00 \quad 77.00 \quad 76.00 \quad 78.00 \quad 79.00 \quad 79.0$ 1.00 46.00 62.00 38.00 91.00 80.00 71.00 95.00 89.00 92.00 44.00 75.00 89.00 75.00 84.00 97.00 46.00 57.00 65.00 97.00 89.00 8 1.00 95.00 75.00 42.00 83.00 94.00 97.00 59.00 67.00 61.00 50.00 69.00 72.00 68.00 82.00 73.00 58.00 59.00 92.00 41.00 49.00 7 5.00 44.00 78.00 64.00 39.00 82.00 58.00 46.00 43.00 41.00 45.00 62.00 55.00 95.00 72.00 53.00 51.00 72.00 36.00 45.00 66.00 6 7.00 79.00 95.00 58.00 84.00 76.00 80.00 51.00 54.00 41.00 67.00 90.00 83.00 51.00 35.00 40.00 59.00 70.00 35.00 35.00 46.00 6

3.00 37.00 35.00 60.00 59.00 51.00 86.00 64.00 60.00 58.00 76.00 48.00 58.00 75.00 37.00 84.00 51.00 41.00 45.00 78.00 88.00 42.00 90.00 64.00 60.00 37.00 97.00 48.00 58.00 57.00 53.00 46.00 81.00 76.00 39.00 52.00 48.00 60.00 88.00 92.00 94.00 43.00 7 0.00 47.00 35.00 68.00 91.00 92.00 58.00 83.00 83.00 90.00 68.00 74.00 48.00 97.00 41.00 38.00 89.00 36.00 94.00 83.00 38.00 8 0.00 40.00 93.00 36.00 80.00 38.00 56.00 $63.00 \quad 75.00 \quad 81.00 \quad 69.00 \quad 52.00 \quad 42.00 \quad 69.00 \quad 81.00 \quad 70.00 \quad 75.00 \quad 95.00 \quad 78.00 \quad 48.00 \quad 63.00 \quad 81.00 \quad 70.00 \quad 70.0$ 1.00 93.00 92.00 49.00 75.00 83.00 48.00 80.00 76.00 64.00 95.00 63.00 75.00 50.00 38.00 97.00 54.00 81.00 87.00 97.00 68.00 8 6.00 88.00 69.00 57.00 94.00 98.00 78.00 $68.00 \quad 75.00 \quad 81.00 \quad 62.00 \quad 98.00 \quad 99.00 \quad 70.00 \quad 97.00 \quad 78.00 \quad 42.00 \quad 59.00 \quad 55.00 \quad 79.00 \quad 65.00 \quad 98.00 \quad 99.00 \quad 99.0$ 4.00 57.00 56.00 38.00 48.00 50.00 93.00 $66.00 \quad 74.00 \quad 81.00 \quad 45.00 \quad 43.00 \quad 61.00 \quad 48.00 \quad 86.00 \quad 85.00 \quad 75.00 \quad 91.00 \quad 53.00 \quad 53.00 \quad 45.00 \quad 80.00 \quad 80.0$ 3.00 89.00 62.00 74.00 52.00 98.00 70.00 74.00 70.00 69.00 38.00 76.00 97.00 79.00 89.00 81.00 64.00 99.00 48.00 58.00 50.00 9 1.00 50.00 73.00 93.00 58.00 43.00 71.00 75.00 81.00 71.00 63.00 79.00 35.00 68.00 84.00 40.00 59.00 68.00 84.00 73.00 50.00 7 0.00 63.00 53.00 57.00 68.00 96.00 63.00 65.00 64.00 62.00 64.00 99.00 99.00 59.00 86.00 73.00 93.00 70.00 84.00 73.00 96.00 40.00 92.00 95.00 100.00 72.00 75.00 77.00 82.00 82.00 80.00 52.00 41.00 89.00 92.00 70.00 56.00 48.00 49.00 72.00 58.00 53.00 8 0.00 40.00 100.00 62.00 59.00 42.00 91.00 85.00 84.00 82.00 67.00 100.00 35.00 96.00 77.00 50.00 72.00 87.00 92.00 36.00 98.00 9 2.00 61.00 44.00 86.00 56.00 48.00 45.00 $63.00 \quad 64.00 \quad 66.00 \quad 49.00 \quad 97.00 \quad 93.00 \quad 61.00 \quad 46.00 \quad 56.00 \quad 89.00 \quad 51.00 \quad 64.00 \quad 76.00 \quad 48.00 \quad 58.00 \quad 69.00 \quad 69.0$ 7.00 48.00 75.00 48.00 61.00 61.00 35.00 92.00 100.00 99.00 52.00 50.00 48.00 52.00 43.00 87.00 54.00 97.00 96.00 86.00 60.00 8 9.00 60.00 59.00 99.00 87.00 100.00 81.00 81.00 82.00 84.00 36.00 79.00 95.00 45.00 76.00 64.00 94.00 62.00 87.00 38.00 85.00 9 3.00 55.00 39.00 50.00 88.00 98.00 80.00 86.00 73.00 70.00 69.00 39.00 73.00 89.00 91.00 83.00 60.00 49.00 44.00 96.00 38.00 7 1.00 50.00 86.00 56.00 45.00 82.00 47.00 94.00 99.00 100.00 90.00 58.00 70.00 42.00 51.00 74.00 97.00 72.00 77.00 78.00 54.00 8 0.00 70.00 78.00 82.00 48.00 48.00 35.00 $69.00 \ 90.00 \ 88.00 \ 80.00 \ 87.00 \ 43.00 \ 48.00 \ 42.00 \ 36.00 \ 86.00 \ 92.00 \ 89.00 \ 62.00 \ 55.00 \ 9$ 3.00 37.00 47.00 40.00 58.00 76.00 66.00 93.00 100.00 95.00 57.00 48.00 72.00 92.00 45.00 80.00 62.00 79.00 73.00 49.00 65.00 9 0.00 62.00 81.00 91.00 82.00 47.00 72.00 65.00 85.00 76.00 96.00 92.00 85.00 70.00 98.00 38.00 100.00 87.00 54.00 95.00 38.00 7 1.00 76.00 66.00 54.00 53.00 67.00 47.00 57.00 54.00 56.00 43.00 37.00 67.00 45.00 89.00 61.00 48.00 37.00 94.00 71.00 44.00 7 6.00 97.00 56.00 69.00 56.00 37.00 45.00

40.00 65.00 64.00 98.00 65.00 75.00 51.00 52.00 86.00 39.00 77.00 78.00 68.00 70.00 4 3.00 96.00 90.00 40.00 85.00 66.00 57.00 76.00 78.00 75.00 84.00 54.00 85.00 88.00 61.00 75.00 82.00 88.00 43.00 45.00 43.00 4 5.00 46.00 88.00 56.00 41.00 44.00 68.00 92.00 100.00 100.00 85.00 46.00 45.00 86.00 39.00 60.00 94.00 59.00 56.00 82.00 50.00 7 9.00 66.00 66.00 74.00 82.00 66.00 74.00 $60.00 \quad 44.00 \quad 47.00 \quad 64.00 \quad 99.00 \quad 81.00 \quad 37.00 \quad 95.00 \quad 61.00 \quad 57.00 \quad 76.00 \quad 39.00 \quad 97.00 \quad 58.00 \quad 5$ 0.00 42.00 64.00 60.00 73.00 96.00 83.00 49.00 49.00 41.00 99.00 96.00 100.00 79.00 71.00 85.00 85.00 88.00 49.00 44.00 51.00 4 9.00 52.00 84.00 44.00 69.00 82.00 87.00 82.00 62.00 62.00 64.00 80.00 40.00 72.00 78.00 66.00 91.00 99.00 43.00 43.00 41.00 5 5.00 39.00 91.00 78.00 46.00 53.00 79.00 50.00 53.00 58.00 89.00 45.00 50.00 65.00 44.00 55.00 40.00 66.00 74.00 91.00 55.00 69.00 96.00 72.00 81.00 65.00 37.00 88.00 84.00 87.00 81.00 69.00 78.00 63.00 46.00 82.00 69.00 75.00 39.00 80.00 98.00 73.00 7 8.00 36.00 74.00 68.00 99.00 56.00 46.00 73.00 68.00 66.00 56.00 42.00 48.00 100.00 62.00 95.00 90.00 74.00 36.00 64.00 83.00 38.00 45.00 64.00 68.00 50.00 61.00 87.00 $65.00 \quad 77.00 \quad 74.00 \quad 80.00 \quad 76.00 \quad 44.00 \quad 57.00 \quad 72.00 \quad 69.00 \quad 81.00 \quad 85.00 \quad 87.00 \quad 70.00 \quad 47.00 \quad 70.00 \quad 70.0$ 6.00 37.00 100.00 86.00 36.00 87.00 57.00 59.00 78.00 76.00 95.00 64.00 51.00 77.00 51.00 58.00 40.00 61.00 96.00 38.00 76.00 9 8.00 47.00 55.00 79.00 98.00 64.00 84.00 78.00 91.00 96.00 89.00 100.00 90.00 77.00 36.00 53.00 71.00 74.00 89.00 64.00 88.00 5 5.00 53.00 85.00 94.00 80.00 41.00 43.00 87.00 100.00 95.00 88.00 100.00 100.00 51.00 42.00 70.00 52.00 43.00 52.00 84.00 87.00 5 9.00 85.00 75.00 65.00 55.00 68.00 70.00 53.00 45.00 40.00 81.00 68.00 65.00 84.00 74.00 44.00 57.00 56.00 98.00 49.00 60.00 75.00 79.00 40.00 55.00 92.00 39.00 67.00 62.00 56.00 53.00 87.00 66.00 64.00 86.00 58.00 71.00 85.00 54.00 49.00 49.00 79.00 60.00 91.00 99.00 45.00 49.00 79.00 100.00 37.00 57.00 56.00 68.00 93.00 75.00 67.00 53.00 65.00 69.00 63.00 87.00 86.00 58.00 9 7.00 85.00 47.00 57.00 44.00 90.00 94.00 $65.00 \quad 76.00 \quad 75.00 \quad 52.00 \quad 95.00 \quad 70.00 \quad 55.00 \quad 90.00 \quad 46.00 \quad 80.00 \quad 82.00 \quad 54.00 \quad 93.00 \quad 38.00 \quad 70.00 \quad 70.0$ 2.00 58.00 38.00 70.00 53.00 93.00 55.00 40.00 59.00 54.00 95.00 84.00 63.00 78.00 42.00 78.00 58.00 40.00 50.00 94.00 70.00 10 0.00 73.00 79.00 49.00 96.00 62.00 69.00 64.00 82.00 77.00 58.00 49.00 55.00 36.00 69.00 92.00 37.00 55.00 49.00 61.00 70.00 6 6.00 47.00 66.00 98.00 44.00 53.00 52.00 54.00 65.00 65.00 47.00 61.00 94.00 100.00 92.00 72.00 53.00 53.00 93.00 52.00 54.00 5 6.00 47.00 61.00 52.00 36.00 85.00 78.00 73.00 66.00 63.00 56.00 85.00 53.00 47.00 68.00 36.00 68.00 80.00 90.00 64.00 41.00 9 6.00 77.00 37.00 65.00 79.00 75.00 73.00 52.00 55.00 49.00 41.00 62.00 39.00 81.00 51.00 95.00 100.00 49.00 70.00 57.00 62.00 6

6.00 90.00 92.00 97.00 66.00 63.00 61.00 83.00 86.00 88.00 94.00 46.00 91.00 81.00 62.00 56.00 62.00 59.00 82.00 59.00 62.00 8 2.00 48.00 41.00 44.00 79.00 65.00 53.00 86.00 85.00 91.00 62.00 48.00 54.00 45.00 36.00 57.00 100.00 89.00 83.00 63.00 97.00 6 7.00 74.00 41.00 58.00 80.00 53.00 50.00 45.00 48.00 46.00 35.00 77.00 63.00 46.00 42.00 81.00 91.00 89.00 62.00 88.00 76.00 5 1.00 66.00 88.00 52.00 82.00 100.00 76.00 $61.00 \quad 73.00 \quad 63.00 \quad 51.00 \quad 100.00 \quad 94.00 \quad 54.00 \quad 95.00 \quad 50.00 \quad 80.00 \quad 40.00 \quad 35.00 \quad 81.00 \quad 77.00 \quad 78.00 \quad 79.00 \quad 79.$ 0.00 35.00 93.00 44.00 90.00 67.00 80.00 55.00 55.00 47.00 83.00 62.00 68.00 75.00 85.00 98.00 76.00 88.00 90.00 66.00 44.00 8 7.00 69.00 36.00 76.00 45.00 35.00 73.00 88.00 73.00 78.00 99.00 53.00 85.00 83.00 81.00 89.00 60.00 55.00 92.00 54.00 77.00 6 4.00 43.00 97.00 55.00 44.00 98.00 82.00 58.00 52.00 54.00 78.00 85.00 70.00 45.00 74.00 45.00 71.00 98.00 86.00 50.00 74.00 39.00 77.00 89.00 79.00 36.00 96.00 82.00 57.00 78.00 79.00 95.00 85.00 37.00 50.00 92.00 100.00 80.00 81.00 87.00 38.00 48.00 5 7.00 100.00 98.00 49.00 85.00 54.00 57.00 78.00 83.00 80.00 76.00 73.00 91.00 45.00 88.00 74.00 75.00 76.00 37.00 49.00 53.00 49.00 68.00 86.00 42.00 37.00 100.00 39.00 82.00 82.00 88.00 92.00 82.00 60.00 59.00 68.00 60.00 39.00 71.00 35.00 97.00 47.00 5 7.00 91.00 38.00 49.00 54.00 50.00 68.00 55.00 71.00 69.00 100.00 97.00 95.00 53.00 62.00 42.00 53.00 57.00 45.00 61.00 83.00 8 0.00 86.00 95.00 49.00 41.00 81.00 100.00 $62.00 \quad 67.00 \quad 64.00 \quad 70.00 \quad 90.00 \quad 69.00 \quad 53.00 \quad 73.00 \quad 69.00 \quad 99.00 \quad 67.00 \quad 90.00 \quad 74.00 \quad 61.00 \quad 69.00 \quad 74.00 \quad 61.00 \quad 69.00 \quad 74.00 \quad 61.00 \quad 69.00 \quad 74.00 \quad 69.00 \quad 74.00 \quad 69.00 \quad 69.0$ 6.00 38.00 56.00 51.00 36.00 88.00 99.00 53.00 62.00 53.00 35.00 66.00 59.00 76.00 90.00 69.00 37.00 52.00 74.00 60.00 82.00 9 1.00 40.00 44.00 36.00 57.00 61.00 84.00 86.00 92.00 87.00 54.00 99.00 86.00 46.00 93.00 74.00 37.00 40.00 61.00 48.00 87.00 4 7.00 91.00 40.00 66.00 65.00 49.00 56.00 89.00 88.00 82.00 40.00 73.00 73.00 40.00 61.00 59.00 54.00 100.00 73.00 64.00 96.00 7 7.00 72.00 92.00 38.00 57.00 70.00 52.00 $60.00 \quad 72.00 \quad 68.00 \quad 86.00 \quad 45.00 \quad 82.00 \quad 71.00 \quad 55.00 \quad 81.00 \quad 99.00 \quad 54.00 \quad 74.00 \quad 72.00 \quad 56.00 \quad 81.00 \quad 99.00 \quad 80.00 \quad 80.0$ 5.00 70.00 56.00 57.00 70.00 93.00 57.00 100.00 96.00 86.00 88.00 52.00 41.00 97.00 57.00 84.00 40.00 63.00 76.00 61.00 41.00 4 8.00 61.00 73.00 58.00 85.00 54.00 47.00 73.00 80.00 82.00 38.00 36.00 82.00 81.00 40.00 51.00 43.00 96.00 85.00 83.00 46.00 6 6.00 84.00 54.00 40.00 43.00 84.00 38.00 52.00 76.00 70.00 49.00 79.00 73.00 36.00 36.00 91.00 95.00 51.00 35.00 64.00 97.00 5 5.00 60.00 64.00 91.00 96.00 82.00 64.00 82.00 90.00 94.00 80.00 64.00 43.00 44.00 38.00 89.00 74.00 73.00 100.00 52.00 72.00 8 3.00 61.00 93.00 77.00 74.00 71.00 75.00 100.00 97.00 99.00 53.00 45.00 94.00 80.00 74.00 35.00 75.00 62.00 36.00 87.00 70.00 4 9.00 86.00 74.00 49.00 88.00 61.00 89.00

69.00 63.00 61.00 91.00 43.00 97.00 78.00 94.00 93.00 96.00 41.00 82.00 54.00 70.00 70.005.00 98.00 84.00 40.00 91.00 43.00 87.00 82.00 85.00 86.00 70.00 49.00 90.00 97.00 53.00 83.00 80.00 84.00 77.00 72.00 76.00 8 4.00 68.00 90.00 36.00 39.00 87.00 59.00 $61.00 \quad 57.00 \quad 56.00 \quad 89.00 \quad 43.00 \quad 93.00 \quad 75.00 \quad 46.00 \quad 50.00 \quad 43.00 \quad 59.00 \quad 46.00 \quad 73.00 \quad 90.00 \quad 3$ 9.00 75.00 50.00 87.00 48.00 81.00 86.00 69.00 72.00 77.00 88.00 85.00 85.00 99.00 71.00 46.00 47.00 54.00 74.00 74.00 69.00 60.00 49.00 57.00 73.00 70.00 96.00 78.00 54.00 59.00 62.00 36.00 77.00 97.00 38.00 35.00 37.00 77.00 71.00 59.00 50.00 37.00 5 1.00 63.00 58.00 56.00 99.00 38.00 52.00 88.00 85.00 76.00 37.00 49.00 56.00 61.00 77.00 63.00 99.00 70.00 50.00 62.00 70.00 3 7.00 50.00 78.00 80.00 52.00 38.00 87.00 87.00 73.00 72.00 78.00 73.00 60.00 74.00 42.00 41.00 49.00 64.00 88.00 84.00 67.00 6 4.00 75.00 52.00 46.00 85.00 78.00 89.00 $69.00 \quad 58.00 \quad 57.00 \quad 44.00 \quad 43.00 \quad 49.00 \quad 100.00 \quad 92.00 \quad 81.00 \quad 73.00 \quad 40.00 \quad 77.00 \quad 40.00 \quad 79.00 \quad 79.$ 3.00 68.00 88.00 68.00 86.00 44.00 83.00 74.00 75.00 83.00 97.00 97.00 55.00 48.00 74.00 52.00 58.00 54.00 68.00 62.00 78.00 7 6.00 40.00 53.00 97.00 54.00 78.00 63.00 49.00 63.00 56.00 54.00 35.00 62.00 54.00 88.00 96.00 76.00 97.00 95.00 54.00 74.00 7 2.00 100.00 90.00 78.00 79.00 46.00 62.00 55.00 65.00 62.00 73.00 92.00 94.00 100.00 58.00 79.00 51.00 40.00 94.00 50.00 54.00 4 4.00 68.00 43.00 50.00 84.00 77.00 49.00 $69.00 \quad 84.00 \quad 85.00 \quad 93.00 \quad 98.00 \quad 96.00 \quad 66.00 \quad 89.00 \quad 46.00 \quad 59.00 \quad 77.00 \quad 59.00 \quad 88.00 \quad 95.00 \quad 48.00 \quad 95.00 \quad 48.00 \quad 95.00 \quad 88.00 \quad 95.00 \quad 48.00 \quad 96.00 \quad 96.0$ 0.00 54.00 50.00 78.00 43.00 60.00 39.00 78.00 72.00 69.00 76.00 41.00 80.00 82.00 100.00 98.00 95.00 66.00 41.00 94.00 76.00 5 7.00 57.00 96.00 79.00 82.00 64.00 66.00 $60.00 \quad 72.00 \quad 74.00 \quad 35.00 \quad 55.00 \quad 50.00 \quad 39.00 \quad 72.00 \quad 74.00 \quad 37.00 \quad 71.00 \quad 71.00 \quad 94.00 \quad 39.00 \quad 50.00 \quad 70.00 \quad 70.0$ 6.00 46.00 40.00 43.00 60.00 49.00 87.00 53.00 71.00 67.00 43.00 73.00 84.00 90.00 35.00 55.00 66.00 45.00 72.00 52.00 46.00 53.00 70.00 79.00 37.00 58.00 62.00 46.00 35.00 61.00 54.00 86.00 72.00 45.00 37.00 39.00 81.00 71.00 95.00 36.00 60.00 81.00 6 9.00 54.00 66.00 41.00 36.00 57.00 73.00 61.00 55.00 52.00 57.00 69.00 79.00 36.00 42.00 69.00 100.00 40.00 74.00 93.00 61.00 85.00 69.00 94.00 75.00 62.00 83.00 50.00 37.00 56.00 47.00 66.00 85.00 67.00 68.00 38.00 77.00 87.00 48.00 65.00 46.00 57.00 7 6.00 95.00 99.00 44.00 98.00 47.00 54.00 65.00 70.00 71.00 43.00 50.00 75.00 99.00 50.00 82.00 93.00 52.00 63.00 94.00 72.00 49.00 73.00 99.00 89.00 35.00 72.00 88.00 66.00 63.00 64.00 48.00 81.00 82.00 100.00 45.00 85.00 87.00 51.00 76.00 65.00 42.00 4 0.00 52.00 62.00 91.00 51.00 75.00 74.00 67.00 84.00 81.00 63.00 66.00 36.00 88.00 94.00 58.00 35.00 97.00 44.00 45.00 79.00 3 5.00 87.00 75.00 75.00 99.00 74.00 70.00 53.00 54.00 48.00 35.00 97.00 45.00 44.00 84.00 57.00 84.00 57.00 43.00 75.00 66.00 8 2.00 67.00 91.00 45.00 53.00 96.00 89.00 65.00 75.00 70.00 85.00 73.00 40.00 62.00 43.00 69.00 91.00 69.00 99.00 98.00 96.00 60.008.00 55.00 84.00 88.00 73.00 61.00 98.00 50.00 67.00 63.00 36.00 63.00 81.00 85.00 84.00 81.00 60.00 53.00 42.00 82.00 46.00 3 9.00 64.00 55.00 95.00 35.00 41.00 53.00 79.00 89.00 89.00 86.00 60.00 60.00 66.00 73.00 93.00 64.00 46.00 47.00 38.00 70.00 6 4.00 86.00 94.00 47.00 74.00 70.00 63.00 $71.00 \ 60.00 \ 61.00 \ 43.00 \ 91.00 \ 54.00 \ 93.00 \ 62.00 \ 56.00 \ 89.00 \ 77.00 \ 40.00 \ 56.00 \ 98.00 \ 9$ 9.00 66.00 59.00 83.00 83.00 37.00 64.00 83.00 72.00 78.00 93.00 51.00 95.00 55.00 81.00 51.00 70.00 68.00 63.00 53.00 94.00 6 0.00 74.00 85.00 43.00 58.00 57.00 73.00 55.00 69.00 65.00 85.00 91.00 80.00 57.00 59.00 83.00 47.00 58.00 61.00 77.00 35.00 8 3.00 59.00 81.00 77.00 83.00 79.00 76.00 68.00 72.00 65.00 53.00 63.00 90.00 94.00 83.00 60.00 41.00 55.00 92.00 66.00 87.00 69.00 95.00 80.00 60.00 58.00 65.00 35.00 59.00 64.00 75.00 67.00 48.00 50.00 83.00 37.00 89.00 44.00 67.00 73.00 45.00 71.00 6 1.00 80.00 90.00 82.00 41.00 54.00 93.00 54.00 64.00 67.00 47.00 83.00 88.00 56.00 55.00 79.00 84.00 100.00 89.00 85.00 97.00 6 7.00 93.00 37.00 96.00 38.00 89.00 89.00 74.00 77.00 76.00 77.00 86.00 98.00 82.00 68.00 93.00 81.00 70.00 94.00 74.00 95.00 5 2.00 77.00 100.00 46.00 83.00 85.00 79.00 59.00 69.00 65.00 85.00 42.00 75.00 41.00 91.00 85.00 90.00 70.00 93.00 42.00 98.00 10 0.00 63.00 58.00 94.00 73.00 60.00 90.00 75.00 81.00 74.00 95.00 55.00 49.00 48.00 44.00 75.00 47.00 93.00 64.00 61.00 35.00 4 6.00 70.00 78.00 94.00 57.00 38.00 87.00 $62.00 \quad 57.00 \quad 62.00 \quad 76.00 \quad 40.00 \quad 64.00 \quad 84.00 \quad 46.00 \quad 52.00 \quad 37.00 \quad 54.00 \quad 97.00 \quad 40.00 \quad 49.00 \quad 78.00 \quad 78.0$ 9.00 50.00 71.00 77.00 44.00 58.00 49.00 39.00 52.00 46.00 83.00 57.00 78.00 61.00 80.00 53.00 81.00 38.00 42.00 50.00 68.00 4 5.00 86.00 51.00 70.00 54.00 55.00 58.00 85.00 95.00 100.00 93.00 42.00 47.00 57.00 82.00 75.00 56.00 40.00 64.00 70.00 91.00 8 3.00 56.00 78.00 99.00 52.00 98.00 84.00 $68.00 \quad 59.00 \quad 62.00 \quad 45.00 \quad 99.00 \quad 40.00 \quad 54.00 \quad 86.00 \quad 71.00 \quad 91.00 \quad 97.00 \quad 91.00 \quad 46.00 \quad 98.00 \quad 9$ 7.00 69.00 67.00 75.00 79.00 84.00 80.00 53.00 44.00 42.00 87.00 66.00 74.00 58.00 63.00 77.00 56.00 97.00 57.00 55.00 62.00 10 0.00 96.00 81.00 92.00 80.00 56.00 47.00 59.00 72.00 70.00 59.00 95.00 55.00 70.00 83.00 86.00 75.00 99.00 44.00 71.00 95.00 4 1.00 56.00 48.00 48.00 84.00 79.00 82.00 73.00 69.00 68.00 36.00 86.00 95.00 82.00 95.00 75.00 74.00 35.00 60.00 38.00 49.00 7 4.00 58.00 72.00 64.00 85.00 81.00 40.00 34.00 48.00 41.00 46.00 82.00 35.00 65.00 69.00 96.00 96.00 72.00 50.00 64.00 81.00 8 9.00 42.00 48.00 54.00 92.00 94.00 66.00 72.00 66.00 66.00 75.00 81.00 58.00 80.00 79.00 65.00 90.00 50.00 96.00 48.00 98.00 7 5.00 43.00 39.00 66.00 47.00 93.00 75.00

 $62.00 \quad 61.00 \quad 57.00 \quad 74.00 \quad 45.00 \quad 53.00 \quad 64.00 \quad 82.00 \quad 46.00 \quad 91.00 \quad 86.00 \quad 56.00 \quad 48.00 \quad 83.00 \quad 68.00 \quad 88.00 \quad 88.00 \quad 68.00 \quad 88.00 \quad 88.00 \quad 68.00 \quad 88.00 \quad 88.0$ 5.00 79.00 82.00 55.00 53.00 38.00 75.00 $67.00 \quad 86.00 \quad 83.00 \quad 58.00 \quad 56.00 \quad 95.00 \quad 64.00 \quad 71.00 \quad 50.00 \quad 91.00 \quad 87.00 \quad 71.00 \quad 36.00 \quad 41.00 \quad 70.00 \quad 70.0$ 1.00 37.00 65.00 72.00 72.00 84.00 44.00 99.00 100.00 100.00 86.00 87.00 65.00 74.00 37.00 69.00 59.00 58.00 60.00 62.00 57.00 8 4.00 99.00 48.00 69.00 91.00 99.00 74.00 47.00 46.00 42.00 64.00 63.00 79.00 41.00 89.00 87.00 69.00 37.00 95.00 60.00 56.00 6 2.00 64.00 48.00 70.00 75.00 48.00 83.00 61.00 68.00 66.00 59.00 94.00 40.00 83.00 73.00 85.00 58.00 68.00 99.00 93.00 38.00 57.00 84.00 51.00 44.00 91.00 57.00 73.00 23.00 44.00 36.00 67.00 42.00 43.00 46.00 40.00 67.00 79.00 47.00 87.00 49.00 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67.00 40.00 35.00 58.00 7 2.00 81.00 72.00 40.00 58.00 92.00 67.00 32.00 51.00 44.00 47.00 52.00 55.00 52.00 97.00 52.00 52.00 82.00 59.00 74.00 46.00 3 9.00 37.00 86.00 79.00 43.00 46.00 49.00 $69.00 \quad 70.00 \quad 67.00 \quad 90.00 \quad 52.00 \quad 95.00 \quad 74.00 \quad 91.00 \quad 75.00 \quad 72.00 \quad 47.00 \quad 66.00 \quad 48.00 \quad 73.00 \quad 73.0$ 0.00 61.00 58.00 93.00 53.00 40.00 79.00 81.00 88.00 90.00 37.00 96.00 87.00 100.00 50.00 74.00 56.00 37.00 93.00 92.00 93.00 8 5.00 39.00 95.00 46.00 51.00 94.00 73.00 64.00 62.00 68.00 99.00 54.00 78.00 57.00 87.00 81.00 63.00 37.00 48.00 99.00 83.00 48.00 70.00 37.00 47.00 41.00 42.00 80.00 $63.00 \quad 72.00 \quad 70.00 \quad 55.00 \quad 58.00 \quad 83.00 \quad 36.00 \quad 66.00 \quad 71.00 \quad 35.00 \quad 44.00 \quad 93.00 \quad 68.00 \quad 40.00 \quad 80.00 \quad 80.0$ 3.00 65.00 92.00 79.00 47.00 49.00 46.00 70.00 74.00 71.00 85.00 56.00 80.00 94.00 40.00 96.00 94.00 95.00 64.00 44.00 67.00 58.00 47.00 57.00 73.00 88.00 99.00 62.00 $63.00 \quad 73.00 \quad 78.00 \quad 86.00 \quad 54.00 \quad 37.00 \quad 93.00 \quad 100.00 \quad 94.00 \quad 76.00 \quad 86.00 \quad 76.00 \quad 68.00 \quad 36.00 \quad 88.00 \quad 88.$ 4.00 91.00 99.00 66.00 56.00 90.00 88.00 50.00 53.00 55.00 85.00 47.00 86.00 69.00 46.00 37.00 35.00 99.00 87.00 54.00 45.00 6 0.00 56.00 97.00 35.00 61.00 65.00 70.00 $58.00 \quad 68.00 \quad 61.00 \quad 98.00 \quad 97.00 \quad 54.00 \quad 89.00 \quad 45.00 \quad 79.00 \quad 81.00 \quad 91.00 \quad 47.00 \quad 74.00 \quad 76.00 \quad 78.00 \quad 79.00 \quad 79.0$ 3.00 92.00 90.00 94.00 38.00 46.00 55.00 $66.00 \quad 74.00 \quad 73.00 \quad 38.00 \quad 66.00 \quad 96.00 \quad 96.00 \quad 88.00 \quad 88.00 \quad 66.00 \quad 54.00 \quad 43.00 \quad 95.00 \quad 67.00 \quad 69.00 \quad 89.00 \quad 89.0$ 2.00 94.00 90.00 45.00 87.00 90.00 91.00 $67.00 \quad 75.00 \quad 70.00 \quad 76.00 \quad 52.00 \quad 56.00 \quad 37.00 \quad 64.00 \quad 80.00 \quad 75.00 \quad 41.00 \quad 74.00 \quad 36.00 \quad 66.00 \quad 40.00 \quad 76.00 \quad 70.00 \quad 70.0$ 3.00 97.00 48.00 42.00 81.00 72.00 87.00 54.00 54.00 45.00 42.00 69.00 76.00 96.00 86.00 93.00 97.00 52.00 57.00 40.00 46.00 4 8.00 68.00 85.00 48.00 61.00 80.00 71.00 $69.00 \quad 86.00 \quad 81.00 \quad 41.00 \quad 77.00 \quad 40.00 \quad 58.00 \quad 75.00 \quad 62.00 \quad 75.00 \quad 94.00 \quad 79.00 \quad 51.00 \quad 54.00 \quad 58.00 \quad 79.00 \quad 79.00 \quad 94.00 \quad 79.00 \quad 94.00 \quad 94.0$ 2.00 93.00 100.00 78.00 48.00 85.00 92.00 79.00 77.00 75.00 40.00 70.00 35.00 63.00 83.00 68.00 66.00 51.00 73.00 73.00 64.00 6 9.00 73.00 98.00 65.00 64.00 44.00 42.00 $69.00 \quad 73.00 \quad 73.00 \quad 83.00 \quad 49.00 \quad 35.00 \quad 91.00 \quad 96.00 \quad 50.00 \quad 73.00 \quad 64.00 \quad 68.00 \quad 85.00 \quad 47.00 \quad 68.00 \quad 85.00 \quad 85.0$ 4.00 84.00 81.00 88.00 47.00 55.00 59.00 74.00 86.00 89.00 43.00 86.00 45.00 75.00 68.00 58.00 88.00 41.00 81.00 51.00 64.00 5 7.00 85.00 51.00 69.00 46.00 74.00 74.00 100.00 100.00 93.00 89.00 71.00 79.00 49.00 73.00 92.00 66.00 68.00 95.00 76.00 65.00 5 1.00 53.00 62.00 49.00 76.00 40.00 86.00 77.00 90.00 85.00 93.00 88.00 86.00 76.00 40.00 72.00 35.00 71.00 54.00 43.00 77.00 9 3.00 55.00 79.00 73.00 43.00 73.00 81.00 61.00 62.00 61.00 53.00 85.00 53.00 59.00 63.00 85.00 98.00 44.00 57.00 97.00 61.00 90.00 100.00 77.00 35.00 41.00 85.00 59.00 73.00 69.00 95.00 72.00 71.00 85.00 47.00 79.00 63.00 89.00 64.00 44.00 38.00 4 0.00 82.00 46.00 35.00 70.00 54.00 77.00 75.00 68.00 64.00 82.00 54.00 55.00 42.00 48.00 62.00 94.00 52.00 78.00 60.00 81.00 8 7.00 43.00 43.00 46.00 51.00 41.00 72.00 32.00 34.00 38.00 93.00 42.00 94.00 36.00 37.00 73.00 89.00 60.00 47.00 69.00 65.00 3 5.00 55.00 35.00 71.00 49.00 70.00 81.00 97.00 97.00 96.00 53.00 78.00 99.00 89.00 66.00 39.00 94.00 36.00 74.00 91.00 87.00 5 3.00 48.00 62.00 74.00 81.00 94.00 91.00

92.00 100.00 97.00 65.00 79.00 37.00 88.00 41.00 38.00 35.00 35.00 56.00 63.00 99.00 3 5.00 76.00 43.00 88.00 42.00 87.00 87.00 74.00 81.00 76.00 84.00 83.00 81.00 80.00 40.00 47.00 36.00 63.00 37.00 95.00 47.00 5 3.00 81.00 67.00 62.00 80.00 51.00 77.00 $62.00 \quad 55.00 \quad 55.00 \quad 71.00 \quad 54.00 \quad 93.00 \quad 48.00 \quad 38.00 \quad 81.00 \quad 93.00 \quad 66.00 \quad 93.00 \quad 65.00 \quad 64.00 \quad 48.00 \quad 81.00 \quad 93.00 \quad 66.00 \quad 93.00 \quad 65.00 \quad 64.00 \quad 93.00 \quad 60.00 \quad 93.00 \quad 93.0$ 6.00 77.00 70.00 57.00 94.00 36.00 81.00 76.00 62.00 60.00 41.00 80.00 85.00 64.00 78.00 67.00 38.00 58.00 55.00 53.00 86.00 8 5.00 67.00 54.00 84.00 79.00 37.00 68.00 80.00 85.00 85.00 72.00 93.00 95.00 96.00 100.00 81.00 35.00 67.00 86.00 72.00 35.00 9 4.00 98.00 68.00 56.00 79.00 67.00 89.00 81.00 81.00 84.00 71.00 69.00 87.00 72.00 41.00 67.00 97.00 58.00 66.00 81.00 88.00 6 5.00 37.00 100.00 48.00 91.00 53.00 36.00 $62.00 \quad 64.00 \quad 66.00 \quad 63.00 \quad 39.00 \quad 85.00 \quad 39.00 \quad 74.00 \quad 39.00 \quad 87.00 \quad 61.00 \quad 68.00 \quad 64.00 \quad 62.00 \quad 78.00 \quad 79.00 \quad 89.00 \quad 89.0$ 7.00 85.00 76.00 46.00 53.00 55.00 38.00 73.00 92.00 84.00 69.00 61.00 57.00 99.00 88.00 49.00 74.00 90.00 88.00 98.00 97.00 8 2.00 90.00 68.00 78.00 67.00 82.00 42.00 74.00 73.00 67.00 50.00 57.00 39.00 96.00 98.00 36.00 95.00 89.00 47.00 54.00 71.00 6 8.00 73.00 66.00 90.00 53.00 40.00 91.00 $73.00 \quad 78.00 \quad 74.00 \quad 42.00 \quad 66.00 \quad 95.00 \quad 81.00 \quad 43.00 \quad 79.00 \quad 49.00 \quad 46.00 \quad 87.00 \quad 70.00 \quad 81.00 \quad 70.00 \quad 70.00 \quad 81.00 \quad 70.00 \quad 81.00 \quad 70.00 \quad 70.0$ 5.00 74.00 89.00 48.00 60.00 53.00 38.00 $81.00 \quad 74.00 \quad 71.00 \quad 66.00 \quad 86.00 \quad 36.00 \quad 46.00 \quad 79.00 \quad 66.00 \quad 63.00 \quad 73.00 \quad 62.00 \quad 54.00 \quad 40.00 \quad 40.0$ 9.00 46.00 52.00 51.00 55.00 64.00 87.00 88.00 84.00 75.00 93.00 97.00 35.00 72.00 43.00 86.00 87.00 53.00 42.00 86.00 43.00 9 1.00 93.00 94.00 51.00 67.00 86.00 87.00 79.00 82.00 80.00 70.00 96.00 71.00 75.00 95.00 98.00 44.00 97.00 97.00 97.00 36.00 5 1.00 70.00 69.00 47.00 67.00 57.00 65.00 58.00 55.00 48.00 99.00 44.00 94.00 76.00 68.00 76.00 42.00 93.00 51.00 75.00 60.00 4 4.00 41.00 76.00 71.00 73.00 57.00 50.00 $51.00 \ 60.00 \ 58.00 \ 51.00 \ 93.00 \ 97.00 \ 89.00 \ 38.00 \ 65.00 \ 88.00 \ 93.00 \ 77.00 \ 62.00 \ 46.00 \ 78.00 \ 93.0$ 6.00 77.00 66.00 100.00 51.00 38.00 35.00 55.00 47.00 44.00 41.00 99.00 35.00 81.00 42.00 41.00 58.00 91.00 60.00 85.00 76.00 9 8.00 39.00 54.00 72.00 48.00 74.00 85.00 57.00 74.00 76.00 38.00 36.00 68.00 56.00 45.00 58.00 71.00 76.00 67.00 74.00 73.00 6 0.00 92.00 82.00 77.00 97.00 90.00 78.00 70.00 75.00 78.00 97.00 47.00 35.00 96.00 86.00 62.00 72.00 42.00 88.00 82.00 89.00 5 8.00 72.00 72.00 50.00 61.00 97.00 95.00 63.00 63.00 60.00 37.00 45.00 52.00 87.00 74.00 88.00 56.00 62.00 90.00 54.00 100.00 63.00 51.00 43.00 39.00 68.00 72.00 61.00 $63.00 \quad 65.00 \quad 61.00 \quad 38.00 \quad 97.00 \quad 82.00 \quad 98.00 \quad 46.00 \quad 44.00 \quad 69.00 \quad 71.00 \quad 72.00 \quad 87.00 \quad 56.00 \quad 98.00 \quad 98.00 \quad 98.00 \quad 99.00 \quad 99.0$ 8.00 71.00 83.00 40.00 79.00 36.00 99.00 61.00 66.00 61.00 68.00 54.00 88.00 72.00 86.00 91.00 43.00 93.00 75.00 53.00 57.00 8 2.00 83.00 42.00 64.00 53.00 99.00 94.00 78.00 81.00 86.00 37.00 66.00 90.00 54.00 90.00 96.00 98.00 63.00 84.00 98.00 76.00 5 8.00 50.00 79.00 85.00 41.00 98.00 86.00 97.00 87.00 82.00 70.00 99.00 85.00 67.00 69.00 56.00 54.00 51.00 90.00 84.00 44.00 5 6.00 38.00 97.00 91.00 41.00 70.00 63.00 81.00 66.00 64.00 65.00 56.00 93.00 62.00 39.00 86.00 73.00 51.00 43.00 91.00 87.00 7 0.00 80.00 45.00 57.00 89.00 95.00 94.00 73.00 64.00 57.00 90.00 63.00 86.00 98.00 38.00 35.00 48.00 76.00 83.00 41.00 59.00 4 9.00 88.00 86.00 86.00 64.00 75.00 74.00 $68.00 \quad 65.00 \quad 61.00 \quad 81.00 \quad 46.00 \quad 87.00 \quad 38.00 \quad 91.00 \quad 48.00 \quad 39.00 \quad 52.00 \quad 48.00 \quad 97.00 \quad 94.00 \quad 5$ 6.00 92.00 43.00 64.00 98.00 36.00 88.00 79.00 92.00 89.00 86.00 93.00 47.00 84.00 83.00 67.00 44.00 89.00 42.00 49.00 91.00 5 3.00 68.00 88.00 76.00 40.00 35.00 62.00 $60.00 \quad 64.00 \quad 74.00 \quad 72.00 \quad 67.00 \quad 88.00 \quad 96.00 \quad 43.00 \quad 78.00 \quad 54.00 \quad 37.00 \quad 85.00 \quad 55.00 \quad 89.00 \quad 78.00 \quad 79.00 \quad 79.0$ 7.00 81.00 85.00 69.00 46.00 51.00 60.00 42.00 62.00 60.00 86.00 94.00 96.00 51.00 90.00 89.00 37.00 94.00 99.00 53.00 67.00 4 9.00 78.00 45.00 59.00 68.00 42.00 95.00 88.00 77.00 77.00 52.00 74.00 62.00 58.00 70.00 51.00 69.00 98.00 66.00 97.00 83.00 8 7.00 64.00 42.00 100.00 82.00 64.00 94.00 $62.00 \quad 68.00 \quad 68.00 \quad 44.00 \quad 59.00 \quad 44.00 \quad 86.00 \quad 43.00 \quad 96.00 \quad 83.00 \quad 70.00 \quad 41.00 \quad 42.00 \quad 98.00 \quad 3$ 6.00 64.00 57.00 45.00 89.00 69.00 72.00 71.00 70.00 76.00 77.00 87.00 99.00 76.00 85.00 81.00 48.00 64.00 43.00 91.00 75.00 65.00 76.00 65.00 54.00 63.00 88.00 44.00 75.00 85.00 82.00 71.00 81.00 43.00 35.00 67.00 53.00 92.00 58.00 70.00 62.00 89.00 7 3.00 73.00 76.00 39.00 97.00 76.00 77.00 78.00 87.00 91.00 91.00 63.00 68.00 40.00 82.00 92.00 74.00 66.00 48.00 35.00 62.00 5 6.00 72.00 74.00 39.00 36.00 38.00 74.00 46.00 43.00 42.00 75.00 96.00 72.00 93.00 48.00 52.00 39.00 89.00 69.00 49.00 75.00 4 8.00 89.00 51.00 74.00 39.00 40.00 57.00 88.00 75.00 76.00 72.00 38.00 68.00 60.00 95.00 55.00 76.00 93.00 59.00 80.00 83.00 7 0.00 51.00 67.00 86.00 66.00 88.00 49.00 89.00 87.00 79.00 72.00 57.00 82.00 90.00 86.00 63.00 66.00 41.00 46.00 60.00 44.00 5 2.00 80.00 67.00 70.00 52.00 49.00 99.00 93.00 100.00 100.00 42.00 43.00 38.00 66.00 97.00 78.00 52.00 63.00 83.00 44.00 92.00 7 2.00 78.00 69.00 46.00 47.00 84.00 35.00 $67.00 \quad 74.00 \quad 77.00 \quad 46.00 \quad 70.00 \quad 36.00 \quad 82.00 \quad 36.00 \quad 59.00 \quad 87.00 \quad 95.00 \quad 60.00 \quad 41.00 \quad 35.00 \quad 59.00 \quad 87.00 \quad 95.00 \quad 87.00 \quad 95.00 \quad 87.00 \quad 95.00 \quad 87.00 \quad 95.00 \quad 95.0$ 2.00 36.00 96.00 92.00 41.00 67.00 83.00 65.00 82.00 78.00 99.00 81.00 43.00 82.00 47.00 94.00 58.00 40.00 43.00 37.00 39.00 3 6.00 61.00 77.00 94.00 55.00 65.00 70.00 54.00 61.00 62.00 62.00 94.00 67.00 47.00 36.00 52.00 56.00 56.00 36.00 93.00 56.00 6 5.00 49.00 69.00 66.00 79.00 93.00 52.00 69.00 66.00 60.00 94.00 56.00 55.00 58.00 48.00 68.00 59.00 54.00 66.00 75.00 71.00 6 7.00 64.00 83.00 77.00 73.00 73.00 39.00 52.00 65.00 61.00 44.00 47.00 98.00 96.00 35.00 36.00 85.00 41.00 38.00 53.00 37.00 7 1.00 86.00 47.00 55.00 43.00 76.00 65.00

 $35.00 \quad 53.00 \quad 46.00 \quad 75.00 \quad 60.00 \quad 91.00 \quad 48.00 \quad 94.00 \quad 63.00 \quad 65.00 \quad 66.00 \quad 78.00 \quad 37.00 \quad 61.00 \quad 78.00 \quad 78.0$ 6.00 37.00 44.00 57.00 48.00 92.00 41.00 $62.00 \quad 64.00 \quad 55.00 \quad 54.00 \quad 95.00 \quad 53.00 \quad 83.00 \quad 72.00 \quad 40.00 \quad 89.00 \quad 99.00 \quad 87.00 \quad 72.00 \quad 78.00 \quad 68.00 \quad 78.00 \quad 78.00 \quad 68.00 \quad 78.00 \quad 78.0$ 5.00 91.00 96.00 64.00 38.00 81.00 100.00 40.00 58.00 54.00 93.00 72.00 61.00 72.00 86.00 38.00 89.00 43.00 60.00 99.00 91.00 7 0.00 68.00 79.00 71.00 35.00 42.00 53.00 $60.00 \quad 63.00 \quad 59.00 \quad 41.00 \quad 91.00 \quad 50.00 \quad 89.00 \quad 42.00 \quad 77.00 \quad 64.00 \quad 71.00 \quad 90.00 \quad 94.00 \quad 54.00 \quad 70.00 \quad 94.00 \quad 94.0$ 9.00 52.00 56.00 58.00 91.00 41.00 75.00 76.00 78.00 80.00 47.00 97.00 69.00 40.00 54.00 37.00 53.00 56.00 53.00 86.00 56.00 5 1.00 73.00 89.00 43.00 49.00 42.00 61.00 57.00 68.00 73.00 69.00 99.00 59.00 38.00 85.00 71.00 77.00 65.00 44.00 52.00 57.00 8 5.00 78.00 97.00 67.00 50.00 42.00 87.00 79.00 86.00 81.00 70.00 71.00 53.00 35.00 79.00 42.00 73.00 43.00 90.00 39.00 61.00 4 0.00 68.00 38.00 75.00 55.00 81.00 99.00 81.00 81.00 79.00 71.00 43.00 92.00 54.00 64.00 78.00 40.00 85.00 90.00 46.00 98.00 98.00 78.00 55.00 48.00 92.00 42.00 35.00 91.00 95.00 94.00 95.00 60.00 79.00 78.00 72.00 80.00 36.00 93.00 59.00 64.00 82.00 4 5.00 71.00 36.00 51.00 61.00 83.00 53.00 $67.00 \quad 57.00 \quad 53.00 \quad 47.00 \quad 56.00 \quad 90.00 \quad 50.00 \quad 76.00 \quad 44.00 \quad 37.00 \quad 44.00 \quad 87.00 \quad 51.00 \quad 70.00 \quad 50.00 \quad 70.00 \quad 50.00 \quad 70.00 \quad 70.0$ 3.00 60.00 86.00 57.00 37.00 52.00 93.00 64.00 79.00 77.00 70.00 86.00 39.00 44.00 46.00 66.00 94.00 93.00 84.00 42.00 38.00 51.00 35.00 76.00 66.00 44.00 84.00 84.00 71.00 83.00 77.00 43.00 98.00 100.00 66.00 45.00 98.00 98.00 73.00 90.00 66.00 50.00 62.00 89.00 80.00 86.00 66.00 71.00 42.00 81.00 77.00 79.00 59.00 100.00 89.00 55.00 44.00 36.00 42.00 96.00 90.00 43.00 91.00 8 9.00 73.00 37.00 82.00 45.00 53.00 94.00 88.00 78.00 75.00 77.00 96.00 97.00 52.00 41.00 84.00 38.00 79.00 72.00 44.00 48.00 9 4.00 54.00 41.00 38.00 43.00 82.00 59.00 77.00 67.00 68.00 99.00 76.00 71.00 46.00 74.00 78.00 72.00 58.00 54.00 93.00 43.00 5 7.00 49.00 99.00 72.00 65.00 70.00 72.00 73.00 86.00 82.00 37.00 37.00 81.00 87.00 94.00 89.00 99.00 47.00 63.00 73.00 85.00 4 7.00 83.00 64.00 82.00 42.00 90.00 52.00 79.00 85.00 86.00 91.00 98.00 53.00 90.00 69.00 47.00 78.00 80.00 84.00 46.00 81.00 5 7.00 54.00 48.00 66.00 75.00 88.00 54.00 59.00 41.00 42.00 68.00 86.00 51.00 76.00 75.00 94.00 78.00 84.00 92.00 39.00 46.00 6 0.00 55.00 63.00 70.00 71.00 98.00 97.00 80.00 64.00 66.00 64.00 51.00 92.00 100.00 61.00 83.00 77.00 70.00 51.00 78.00 47.00 7 2.00 56.00 97.00 60.00 65.00 80.00 80.00 72.00 72.00 74.00 62.00 64.00 74.00 87.00 52.00 73.00 63.00 57.00 37.00 74.00 67.00 8 7.00 66.00 95.00 72.00 100.00 69.00 99.00 83.00 85.00 90.00 66.00 44.00 96.00 72.00 76.00 76.00 76.00 48.00 79.00 63.00 49.00 8 7.00 67.00 46.00 98.00 54.00 44.00 87.00 80.00 73.00 72.00 96.00 51.00 42.00 61.00 86.00 74.00 97.00 51.00 81.00 97.00 88.00 4

7.00 35.00 87.00 54.00 72.00 66.00 63.00 47.00 54.00 53.00 85.00 92.00 81.00 63.00 86.00 96.00 88.00 35.00 48.00 100.00 60.00 4 2.00 48.00 66.00 56.00 100.00 92.00 100.00 69.00 77.00 78.00 46.00 70.00 89.00 98.00 63.00 43.00 51.00 77.00 85.00 54.00 60.00 69.00 83.00 57.00 58.00 57.00 47.00 48.00 81.00 73.00 72.00 92.00 42.00 72.00 78.00 59.00 99.00 77.00 46.00 83.00 40.00 42.00 10 0.00 43.00 95.00 65.00 42.00 74.00 81.00 91.00 81.00 79.00 68.00 41.00 92.00 89.00 85.00 96.00 100.00 68.00 79.00 82.00 42.00 5 4.00 89.00 100.00 99.00 39.00 56.00 89.00 84.00 77.00 74.00 36.00 80.00 48.00 85.00 50.00 48.00 64.00 87.00 92.00 58.00 71.00 8 9.00 72.00 49.00 78.00 50.00 95.00 41.00 57.00 56.00 54.00 66.00 74.00 64.00 46.00 76.00 37.00 89.00 69.00 68.00 36.00 52.00 4 6.00 77.00 35.00 83.00 36.00 95.00 59.00 $63.00 \quad 69.00 \quad 74.00 \quad 87.00 \quad 98.00 \quad 39.00 \quad 45.00 \quad 37.00 \quad 55.00 \quad 45.00 \quad 81.00 \quad 93.00 \quad 35.00 \quad 56.00 \quad 4$ 6.00 59.00 69.00 54.00 39.00 93.00 56.00 53.00 58.00 57.00 62.00 96.00 55.00 72.00 54.00 98.00 78.00 79.00 53.00 45.00 88.00 8 1.00 39.00 100.00 69.00 97.00 99.00 44.00 59.00 63.00 75.00 81.00 63.00 78.00 99.00 39.00 92.00 71.00 84.00 71.00 37.00 86.00 7 1.00 83.00 89.00 82.00 51.00 46.00 76.00 $66.00 \quad 83.00 \quad 83.00 \quad 86.00 \quad 44.00 \quad 80.00 \quad 48.00 \quad 95.00 \quad 49.00 \quad 56.00 \quad 76.00 \quad 85.00 \quad 91.00 \quad 41.00 \quad 58.00 \quad 91.00 \quad 91.0$ 7.00 61.00 46.00 60.00 93.00 93.00 51.00 $61.00 \quad 71.00 \quad 78.00 \quad 63.00 \quad 77.00 \quad 43.00 \quad 91.00 \quad 85.00 \quad 100.00 \quad 56.00 \quad 54.00 \quad 86.00 \quad 38.00 \quad 73.00 \quad 78.00 \quad 78.$ 1.00 63.00 63.00 92.00 61.00 65.00 67.00 53.00 52.00 49.00 45.00 92.00 88.00 78.00 51.00 89.00 42.00 69.00 79.00 75.00 69.00 7 2.00 94.00 82.00 35.00 74.00 60.00 90.00 45.00 56.00 54.00 61.00 84.00 39.00 60.00 81.00 69.00 51.00 56.00 59.00 72.00 73.00 7 2.00 57.00 69.00 73.00 75.00 49.00 44.00 $65.00 \quad 76.00 \quad 76.00 \quad 58.00 \quad 48.00 \quad 58.00 \quad 40.00 \quad 93.00 \quad 47.00 \quad 52.00 \quad 91.00 \quad 99.00 \quad 95.00 \quad 85.00 \quad 3$ 7.00 45.00 96.00 79.00 97.00 60.00 95.00 76.00 85.00 82.00 41.00 80.00 80.00 93.00 78.00 60.00 91.00 52.00 60.00 60.00 35.00 8 2.00 76.00 69.00 53.00 81.00 50.00 48.00 73.00 56.00 57.00 68.00 73.00 95.00 38.00 88.00 81.00 90.00 60.00 55.00 47.00 83.00 6 8.00 72.00 81.00 64.00 42.00 55.00 53.00 75.00 68.00 65.00 99.00 41.00 94.00 54.00 46.00 41.00 95.00 46.00 65.00 49.00 76.00 8 9.00 69.00 37.00 43.00 48.00 37.00 72.00 66.00 66.00 59.00 84.00 35.00 84.00 46.00 92.00 66.00 88.00 100.00 68.00 57.00 93.00 8 9.00 99.00 73.00 87.00 68.00 64.00 54.00 58.00 61.00 52.00 49.00 55.00 86.00 57.00 65.00 81.00 49.00 92.00 57.00 65.00 70.00 5 0.00 87.00 88.00 44.00 75.00 42.00 35.00 58.00 70.00 67.00 76.00 43.00 65.00 42.00 45.00 64.00 65.00 88.00 49.00 75.00 97.00 6 2.00 92.00 88.00 47.00 84.00 48.00 39.00 65.00 65.00 63.00 51.00 68.00 59.00 38.00 96.00 82.00 59.00 62.00 54.00 77.00 94.00 3 6.00 76.00 81.00 94.00 41.00 43.00 94.00

 $81.00 \quad 92.00 \quad 91.00 \quad 75.00 \quad 70.00 \quad 70.00 \quad 74.00 \quad 60.00 \quad 61.00 \quad 94.00 \quad 82.00 \quad 62.00 \quad 55.00 \quad 77.00 \quad 98.00 \quad 98.00 \quad 99.00 \quad 99.0$ 8.00 91.00 35.00 69.00 95.00 38.00 86.00 $71.00 \quad 61.00 \quad 69.00 \quad 44.00 \quad 47.00 \quad 88.00 \quad 68.00 \quad 37.00 \quad 57.00 \quad 43.00 \quad 72.00 \quad 93.00 \quad 70.00 \quad 57.00 \quad 69.00 \quad 70.00 \quad 70.0$ 2.00 62.00 48.00 92.00 54.00 46.00 79.00 $65.00 \quad 77.00 \quad 74.00 \quad 72.00 \quad 37.00 \quad 51.00 \quad 99.00 \quad 68.00 \quad 92.00 \quad 77.00 \quad 66.00 \quad 88.00 \quad 87.00 \quad 93.00 \quad 48.00 \quad 93.00 \quad 93.0$ 6.00 56.00 64.00 82.00 55.00 93.00 49.00 78.00 79.00 76.00 82.00 63.00 57.00 66.00 86.00 68.00 59.00 85.00 98.00 81.00 94.00 6 9.00 46.00 55.00 79.00 58.00 77.00 45.00 72.00 81.00 79.00 47.00 76.00 47.00 54.00 92.00 93.00 91.00 35.00 69.00 53.00 94.00 8 7.00 72.00 44.00 95.00 45.00 79.00 90.00 70.00 72.00 76.00 49.00 80.00 49.00 53.00 55.00 50.00 72.00 39.00 65.00 70.00 83.00 4 8.00 39.00 66.00 89.00 66.00 96.00 99.00 $60.00 \quad 68.00 \quad 60.00 \quad 71.00 \quad 78.00 \quad 58.00 \quad 99.00 \quad 89.00 \quad 66.00 \quad 61.00 \quad 95.00 \quad 49.00 \quad 42.00 \quad 35.00 \quad 49.00 \quad 49.0$ 9.00 35.00 95.00 66.00 95.00 61.00 71.00 $81.00 \quad 75.00 \quad 76.00 \quad 39.00 \quad 49.00 \quad 97.00 \quad 45.00 \quad 97.00 \quad 83.00 \quad 77.00 \quad 42.00 \quad 77.00 \quad 42.00 \quad 68.00 \quad 8$ 1.00 54.00 84.00 98.00 93.00 94.00 61.00 52.00 57.00 50.00 99.00 39.00 69.00 85.00 69.00 90.00 37.00 66.00 65.00 59.00 52.00 7 1.00 100.00 78.00 57.00 53.00 64.00 53.00 $69.00 \quad 74.00 \quad 74.00 \quad 100.00 \quad 70.00 \quad 80.00 \quad 42.00 \quad 50.00 \quad 58.00 \quad 48.00 \quad 36.00 \quad 94.00 \quad 70.00 \quad 86.00 \quad 50.00 \quad 50.00 \quad 70.00 \quad 80.00 \quad 70.00 \quad 70.$ 0.00 51.00 76.00 64.00 84.00 51.00 41.00 58.00 62.00 59.00 70.00 37.00 68.00 87.00 80.00 69.00 46.00 48.00 97.00 92.00 49.00 9 7.00 99.00 87.00 70.00 47.00 50.00 48.00 67.00 54.00 63.00 59.00 47.00 90.00 83.00 63.00 56.00 36.00 35.00 96.00 76.00 55.00 44.00 98.00 70.00 65.00 85.00 52.00 53.00 85.00 92.00 93.00 35.00 72.00 50.00 41.00 35.00 91.00 85.00 68.00 52.00 60.00 86.00 6 2.00 71.00 89.00 73.00 91.00 80.00 88.00 47.00 37.00 35.00 100.00 88.00 100.00 66.00 91.00 66.00 44.00 64.00 62.00 63.00 51.00 5 3.00 38.00 87.00 48.00 54.00 68.00 44.00 61.00 58.00 56.00 50.00 46.00 57.00 37.00 84.00 38.00 86.00 67.00 83.00 65.00 47.00 77.00 53.00 73.00 95.00 55.00 66.00 95.00 76.00 76.00 74.00 89.00 97.00 44.00 44.00 93.00 66.00 79.00 37.00 67.00 56.00 83.00 8 5.00 37.00 73.00 85.00 89.00 52.00 89.00 72.00 57.00 62.00 79.00 99.00 73.00 87.00 66.00 73.00 35.00 64.00 64.00 96.00 76.00 7 1.00 74.00 50.00 71.00 52.00 67.00 66.00 72.00 65.00 68.00 65.00 47.00 63.00 59.00 52.00 57.00 84.00 57.00 35.00 66.00 91.00 9 8.00 86.00 35.00 41.00 55.00 42.00 45.00 77.00 67.00 64.00 68.00 84.00 92.00 71.00 76.00 87.00 51.00 97.00 93.00 49.00 44.00 9 8.00 79.00 83.00 96.00 52.00 68.00 66.00 72.00 79.00 77.00 91.00 46.00 64.00 46.00 86.00 98.00 39.00 95.00 66.00 82.00 96.00 9 8.00 45.00 78.00 77.00 99.00 94.00 64.00 73.00 71.00 68.00 97.00 89.00 76.00 82.00 60.00 93.00 41.00 43.00 46.00 90.00 88.00 8 7.00 47.00 79.00 55.00 69.00 80.00 62.00 73.00 75.00 80.00 71.00 80.00 99.00 47.00 64.00 41.00 97.00 61.00 90.00 41.00 55.00 8 9.00 70.00 67.00 60.00 97.00 55.00 40.00 $68.00 \quad 71.00 \quad 75.00 \quad 85.00 \quad 38.00 \quad 55.00 \quad 71.00 \quad 70.00 \quad 41.00 \quad 70.00 \quad 82.00 \quad 40.00 \quad 90.00 \quad 100.00 \quad 80.00 \quad 80.00 \quad 90.00 \quad 90.$ 4.00 68.00 91.00 71.00 46.00 43.00 66.00 51.00 56.00 53.00 50.00 85.00 89.00 90.00 48.00 93.00 83.00 53.00 45.00 45.00 60.00 92.00 62.00 44.00 88.00 77.00 44.00 71.00 82.00 84.00 78.00 80.00 77.00 77.00 53.00 60.00 66.00 80.00 49.00 72.00 70.00 92.00 7 5.00 74.00 98.00 48.00 63.00 72.00 38.00 29.00 41.00 47.00 48.00 85.00 94.00 81.00 99.00 85.00 55.00 84.00 70.00 99.00 95.00 9 2.00 45.00 71.00 80.00 69.00 54.00 59.00 53.00 55.00 48.00 83.00 66.00 83.00 88.00 93.00 61.00 44.00 86.00 93.00 86.00 68.00 4 1.00 77.00 94.00 66.00 72.00 50.00 48.00 $69.00 \quad 80.00 \quad 71.00 \quad 70.00 \quad 87.00 \quad 87.00 \quad 45.00 \quad 81.00 \quad 65.00 \quad 99.00 \quad 93.00 \quad 84.00 \quad 60.00 \quad 77.00 \quad 38.00 \quad 80.00 \quad 70.00 \quad 80.00 \quad 70.00 \quad 80.00 \quad 70.00 \quad 80.00 \quad 70.00 \quad 80.00 \quad 80.00 \quad 70.00 \quad 80.00 \quad 80.0$ 7.00 75.00 66.00 71.00 69.00 92.00 100.00 $62.00 \quad 55.00 \quad 54.00 \quad 84.00 \quad 48.00 \quad 38.00 \quad 64.00 \quad 47.00 \quad 84.00 \quad 87.00 \quad 96.00 \quad 51.00 \quad 72.00 \quad 44.00 \quad 78.00 \quad 78.0$ 8.00 90.00 56.00 39.00 68.00 42.00 95.00 84.00 87.00 91.00 37.00 59.00 94.00 63.00 55.00 40.00 42.00 75.00 44.00 77.00 58.00 4 4.00 97.00 48.00 86.00 35.00 86.00 95.00 61.00 58.00 62.00 66.00 38.00 63.00 55.00 91.00 41.00 51.00 58.00 87.00 71.00 52.00 74.00 89.00 68.00 98.00 89.00 38.00 38.00 41.00 55.00 51.00 38.00 69.00 71.00 67.00 73.00 94.00 95.00 94.00 92.00 81.00 75.00 8 5.00 83.00 89.00 50.00 38.00 75.00 94.00 80.00 63.00 63.00 77.00 47.00 49.00 61.00 90.00 92.00 38.00 62.00 58.00 63.00 61.00 9 8.00 72.00 80.00 43.00 87.00 78.00 82.00 59.00 52.00 46.00 63.00 60.00 77.00 97.00 89.00 78.00 87.00 54.00 38.00 85.00 43.00 6 0.00 87.00 38.00 80.00 41.00 55.00 36.00 77.00 69.00 68.00 100.00 56.00 86.00 72.00 53.00 42.00 55.00 72.00 74.00 64.00 71.00 73.00 59.00 57.00 68.00 88.00 44.00 91.00 71.00 87.00 82.00 84.00 46.00 70.00 96.00 53.00 95.00 38.00 50.00 48.00 58.00 61.00 6 4.00 60.00 59.00 97.00 39.00 36.00 81.00 80.00 76.00 65.00 55.00 51.00 46.00 82.00 47.00 91.00 92.00 42.00 75.00 77.00 99.00 6 7.00 82.00 51.00 53.00 79.00 62.00 67.00 71.00 71.00 74.00 86.00 76.00 100.00 79.00 44.00 44.00 38.00 52.00 50.00 71.00 41.00 48.00 51.00 77.00 86.00 52.00 64.00 70.00 85.00 81.00 85.00 46.00 78.00 76.00 57.00 52.00 53.00 84.00 83.00 73.00 80.00 66.00 5 8.00 38.00 90.00 86.00 71.00 99.00 84.00 54.00 49.00 47.00 58.00 80.00 44.00 63.00 91.00 62.00 96.00 74.00 93.00 55.00 4.00 76.00 57.00 37.00 92.00 85.00 35.00 71.00 83.00 78.00 82.00 82.00 86.00 77.00 42.00 99.00 80.00 93.00 52.00 71.00 88.00 3 7.00 69.00 96.00 96.00 55.00 43.00 85.00 76.00 87.00 85.00 85.00 48.00 90.00 95.00 76.00 53.00 46.00 75.00 37.00 69.00 89.00 5 1.00 48.00 50.00 71.00 72.00 91.00 100.00 46.00 54.00 58.00 54.00 95.00 73.00 77.00 90.00 95.00 44.00 74.00 95.00 58.00 59.00 8 9.00 90.00 67.00 59.00 35.00 65.00 81.00

79.00 79.00 78.00 45.00 83.00 45.00 69.00 95.00 56.00 88.00 80.00 56.00 56.00 64.00 51.00 85.00 91.00 83.00 43.00 50.00 46.00 54.00 60.00 63.00 57.00 46.00 61.00 65.00 88.00 38.00 90.00 85.00 81.00 86.00 59.00 9 2.00 53.00 78.00 99.00 78.00 91.00 55.00 74.00 77.00 73.00 67.00 81.00 37.00 55.00 45.00 38.00 77.00 75.00 35.00 99.00 51.00 4 6.00 56.00 95.00 80.00 68.00 61.00 79.00 76.00 67.00 67.00 69.00 74.00 74.00 41.00 35.00 35.00 37.00 47.00 75.00 80.00 89.00 9 2.00 45.00 61.00 92.00 54.00 76.00 59.00 98.00 86.00 90.00 88.00 82.00 98.00 46.00 95.00 73.00 99.00 44.00 99.00 89.00 83.00 7 7.00 56.00 93.00 62.00 51.00 71.00 81.00 41.00 52.00 51.00 81.00 42.00 82.00 36.00 64.00 89.00 38.00 89.00 54.00 47.00 50.00 6 5.00 71.00 46.00 85.00 35.00 46.00 59.00 $62.00 \quad 76.00 \quad 80.00 \quad 51.00 \quad 61.00 \quad 88.00 \quad 68.00 \quad 90.00 \quad 65.00 \quad 63.00 \quad 63.00 \quad 60.00 \quad 57.00 \quad 47.00 \quad 58.00 \quad 60.00 \quad 60.0$ 6.00 50.00 43.00 69.00 70.00 70.00 82.00 91.00 96.00 91.00 76.00 67.00 93.00 56.00 93.00 44.00 66.00 47.00 66.00 69.00 81.00 7 8.00 46.00 68.00 52.00 67.00 49.00 38.00 75.00 66.00 73.00 63.00 98.00 82.00 49.00 70.00 69.00 55.00 63.00 66.00 45.00 71.00 9 3.00 49.00 93.00 88.00 54.00 45.00 47.00 75.00 77.00 83.00 36.00 43.00 69.00 53.00 72.00 35.00 46.00 35.00 63.00 86.00 70.00 7 0.00 90.00 71.00 69.00 41.00 64.00 49.00 78.00 81.00 82.00 41.00 94.00 38.00 97.00 74.00 76.00 68.00 57.00 95.00 60.00 50.00 6 5.00 44.00 72.00 67.00 79.00 79.00 87.00 77.00 89.00 98.00 45.00 86.00 56.00 52.00 74.00 64.00 40.00 88.00 88.00 67.00 78.00 3 9.00 51.00 97.00 48.00 73.00 85.00 71.00 $66.00 \quad 74.00 \quad 69.00 \quad 90.00 \quad 38.00 \quad 49.00 \quad 95.00 \quad 46.00 \quad 79.00 \quad 98.00 \quad 66.00 \quad 60.00 \quad 88.00 \quad 83.00 \quad 69.00 \quad 90.00 \quad 80.00 \quad 80.0$ 3.00 88.00 62.00 79.00 37.00 100.00 48.00 $62.00 \quad 67.00 \quad 67.00 \quad 68.00 \quad 51.00 \quad 63.00 \quad 75.00 \quad 88.00 \quad 74.00 \quad 67.00 \quad 48.00 \quad 68.00 \quad 64.00 \quad 94.00 \quad 58.00 \quad 69.00 \quad 69.0$ 2.00 76.00 82.00 82.00 63.00 57.00 59.00 $69.00 \quad 77.00 \quad 69.00 \quad 97.00 \quad 43.00 \quad 78.00 \quad 97.00 \quad 43.00 \quad 90.00 \quad 93.00 \quad 78.00 \quad 38.00 \quad 63.00 \quad 49.00 \quad 8$ 4.00 62.00 72.00 91.00 52.00 90.00 60.00 $68.00 \quad 72.00 \quad 64.00 \quad 60.00 \quad 37.00 \quad 46.00 \quad 83.00 \quad 70.00 \quad 93.00 \quad 94.00 \quad 97.00 \quad 99.00 \quad 60.00 \quad 79.00 \quad 5$ 5.00 83.00 65.00 50.00 35.00 82.00 54.00 $64.00 \quad 85.00 \quad 85.00 \quad 48.00 \quad 82.00 \quad 69.00 \quad 66.00 \quad 36.00 \quad 75.00 \quad 38.00 \quad 100.00 \quad 96.00 \quad 35.00 \quad 84.00 \quad 75.00 \quad 84.00 \quad 85.00 \quad 85.$ 6.00 80.00 67.00 72.00 98.00 72.00 65.00 65.00 67.00 65.00 55.00 88.00 78.00 51.00 46.00 67.00 95.00 45.00 68.00 53.00 65.00 95.00 69.00 73.00 38.00 52.00 51.00 54.00 65.00 86.00 80.00 79.00 49.00 87.00 56.00 75.00 94.00 39.00 43.00 55.00 52.00 48.00 4 5.00 44.00 40.00 84.00 97.00 52.00 80.00 86.00 81.00 80.00 95.00 86.00 46.00 71.00 53.00 43.00 50.00 52.00 61.00 53.00 96.00 4 9.00 99.00 100.00 82.00 83.00 97.00 36.00 55.00 73.00 73.00 95.00 82.00 97.00 93.00 37.00 58.00 67.00 61.00 70.00 74.00 37.00 6 5.00 57.00 47.00 52.00 76.00 69.00 79.00 $68.00 \quad 83.00 \quad 78.00 \quad 100.00 \quad 56.00 \quad 90.00 \quad 72.00 \quad 52.00 \quad 39.00 \quad 54.00 \quad 93.00 \quad 67.00 \quad 85.00 \quad 56.00 \quad 80.00 \quad 80.$ 3.00 60.00 47.00 51.00 40.00 45.00 71.00 59.00 54.00 67.00 56.00 64.00 98.00 36.00 68.00 47.00 59.00 54.00 46.00 67.00 73.00 10 0.00 52.00 93.00 85.00 39.00 70.00 67.00 $64.00 \quad 73.00 \quad 68.00 \quad 64.00 \quad 76.00 \quad 61.00 \quad 69.00 \quad 83.00 \quad 39.00 \quad 56.00 \quad 68.00 \quad 69.00 \quad 60.00 \quad 81.00 \quad 69.00 \quad 69.0$ 0.00 54.00 94.00 84.00 69.00 88.00 37.00 71.00 83.00 83.00 48.00 70.00 39.00 78.00 49.00 45.00 52.00 63.00 82.00 39.00 77.00 69.00 55.00 54.00 52.00 52.00 91.00 79.00 56.00 58.00 64.00 49.00 88.00 62.00 39.00 42.00 59.00 80.00 94.00 51.00 78.00 71.00 7 1.00 43.00 87.00 81.00 80.00 79.00 92.00 48.00 56.00 58.00 94.00 40.00 74.00 91.00 62.00 56.00 73.00 98.00 73.00 77.00 58.00 4 9.00 97.00 81.00 39.00 83.00 96.00 47.00 77.00 68.00 77.00 96.00 73.00 44.00 71.00 54.00 70.00 65.00 52.00 79.00 39.00 51.00 5 1.00 77.00 76.00 95.00 37.00 97.00 87.00 54.00 58.00 61.00 98.00 58.00 54.00 49.00 100.00 59.00 85.00 99.00 91.00 95.00 76.00 7 0.00 49.00 38.00 73.00 35.00 54.00 40.00 79.00 81.00 71.00 59.00 49.00 83.00 40.00 90.00 46.00 100.00 90.00 55.00 51.00 86.00 8 8.00 87.00 45.00 82.00 48.00 45.00 66.00 61.00 48.00 46.00 39.00 70.00 44.00 76.00 83.00 72.00 59.00 40.00 35.00 48.00 97.00 47.00 60.00 57.00 71.00 78.00 63.00 43.00 53.00 39.00 37.00 98.00 39.00 56.00 92.00 44.00 86.00 53.00 95.00 75.00 97.00 52.00 6 7.00 82.00 44.00 69.00 42.00 70.00 86.00 93.00 84.00 90.00 68.00 60.00 39.00 61.00 46.00 57.00 70.00 74.00 69.00 93.00 56.00 9 3.00 48.00 54.00 56.00 60.00 44.00 75.00 70.00 64.00 70.00 80.00 68.00 96.00 95.00 73.00 62.00 50.00 47.00 55.00 78.00 42.00 7 8.00 68.00 49.00 44.00 76.00 43.00 54.00 72.00 79.00 82.00 43.00 69.00 36.00 45.00 60.00 66.00 89.00 37.00 100.00 95.00 54.00 3 6.00 66.00 48.00 80.00 80.00 80.00 78.00 73.00 76.00 80.00 99.00 54.00 63.00 71.00 73.00 48.00 77.00 72.00 68.00 68.00 59.00 50.00 39.00 60.00 61.00 51.00 40.00 51.00 58.00 76.00 78.00 86.00 98.00 46.00 69.00 38.00 46.00 83.00 91.00 98.00 74.00 86.00 9 2.00 90.00 84.00 45.00 62.00 70.00 94.00 64.00 60.00 74.00 53.00 93.00 50.00 59.00 39.00 79.00 56.00 58.00 86.00 67.00 85.00 42.00 95.00 74.00 78.00 96.00 47.00 75.00 73.00 78.00 76.00 56.00 73.00 76.00 51.00 53.00 99.00 41.00 64.00 44.00 85.00 97.00 50.00 99.00 58.00 61.00 84.00 94.00 85.00 77.00 62.00 64.00 74.00 70.00 62.00 98.00 78.00 76.00 77.00 83.00 73.00 86.00 60.00 6 1.00 92.00 36.00 36.00 38.00 89.00 64.00 79.00 73.00 67.00 68.00 73.00 42.00 53.00 94.00 39.00 86.00 91.00 93.00 90.00 67.00 4 5.00 68.00 60.00 97.00 55.00 49.00 56.00 44.00 51.00 48.00 69.00 66.00 77.00 62.00 72.00 58.00 49.00 84.00 41.00 74.00 80.00 6 0.00 98.00 49.00 73.00 75.00 95.00 99.00 88.00 74.00 75.00 81.00 66.00 38.00 89.00 60.00 89.00 90.00 57.00 86.00 92.00 82.00 4 9.00 85.00 90.00 87.00 65.00 53.00 56.00

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8.00 36.00 50.00 58.00 54.00 100.00 93.00 $60.00 \quad 51.00 \quad 56.00 \quad 61.00 \quad 88.00 \quad 85.00 \quad 53.00 \quad 100.00 \quad 95.00 \quad 95.00 \quad 39.00 \quad 48.00 \quad 81.00 \quad 73.00 \quad 78.00 \quad 79.00 \quad 79.$ 9.00 48.00 66.00 81.00 45.00 40.00 67.00 73.00 67.00 59.00 66.00 46.00 65.00 54.00 62.00 69.00 58.00 46.00 98.00 78.00 37.00 4 5.00 59.00 40.00 50.00 90.00 85.00 67.00 $66.00 \quad 76.00 \quad 68.00 \quad 95.00 \quad 40.00 \quad 69.00 \quad 52.00 \quad 36.00 \quad 65.00 \quad 39.00 \quad 47.00 \quad 100.00 \quad 88.00 \quad 58.00 \quad 59.00 \quad 100.00 \quad 100.00$ 0.00 87.00 98.00 37.00 73.00 87.00 68.00 48.00 43.00 45.00 86.00 39.00 77.00 64.00 88.00 39.00 63.00 38.00 74.00 52.00 87.00 9 2.00 89.00 35.00 45.00 85.00 79.00 96.00 90.00 85.00 84.00 93.00 71.00 70.00 44.00 90.00 88.00 54.00 65.00 46.00 74.00 43.00 5 0.00 50.00 93.00 53.00 74.00 39.00 71.00 67.00 86.00 83.00 93.00 65.00 50.00 53.00 77.00 61.00 55.00 51.00 61.00 93.00 76.00 3 8.00 70.00 54.00 93.00 82.00 45.00 88.00 58.00 59.00 66.00 71.00 95.00 95.00 85.00 55.00 52.00 45.00 66.00 62.00 93.00 78.00 7 5.00 56.00 70.00 79.00 41.00 64.00 94.00 $69.00 \quad 67.00 \quad 69.00 \quad 75.00 \quad 44.00 \quad 37.00 \quad 43.00 \quad 82.00 \quad 49.00 \quad 51.00 \quad 47.00 \quad 93.00 \quad 39.00 \quad 90.00 \quad 82.00 \quad 90.00 \quad 82.00 \quad 90.00 \quad 82.00 \quad 90.00 \quad 90.0$ 4.00 48.00 81.00 79.00 40.00 74.00 55.00 41.00 51.00 48.00 46.00 84.00 67.00 48.00 73.00 96.00 83.00 43.00 85.00 79.00 73.00 8 5.00 41.00 87.00 44.00 45.00 72.00 90.00 58.00 73.00 68.00 75.00 44.00 35.00 57.00 94.00 41.00 41.00 59.00 47.00 60.00 68.00 7 0.00 74.00 84.00 45.00 70.00 83.00 57.00 $60.00 \quad 57.00 \quad 51.00 \quad 60.00 \quad 41.00 \quad 66.00 \quad 74.00 \quad 69.00 \quad 83.00 \quad 89.00 \quad 96.00 \quad 81.00 \quad 66.00 \quad 54.00 \quad 3$ 5.00 60.00 82.00 48.00 50.00 55.00 87.00 89.00 76.00 74.00 95.00 82.00 45.00 99.00 100.00 71.00 60.00 38.00 91.00 90.00 40.00 7 2.00 36.00 86.00 63.00 36.00 38.00 60.00 55.00 59.00 54.00 52.00 65.00 82.00 45.00 53.00 71.00 48.00 63.00 55.00 42.00 59.00 9 3.00 55.00 69.00 39.00 43.00 91.00 68.00 $62.00 \quad 61.00 \quad 58.00 \quad 96.00 \quad 41.00 \quad 39.00 \quad 61.00 \quad 40.00 \quad 53.00 \quad 60.00 \quad 62.00 \quad 38.00 \quad 94.00 \quad 56.00 \quad 8$ 0.00 71.00 95.00 91.00 43.00 49.00 68.00 $81.00 \quad 91.00 \quad 89.00 \quad 43.00 \quad 35.00 \quad 56.00 \quad 53.00 \quad 76.00 \quad 91.00 \quad 60.00 \quad 53.00 \quad 92.00 \quad 68.00 \quad 44.00 \quad 48.00 \quad 49.00 \quad 49.0$ 9.00 73.00 87.00 100.00 37.00 57.00 49.00 47.00 62.00 66.00 53.00 46.00 54.00 92.00 68.00 77.00 46.00 62.00 49.00 57.00 77.00 5 7.00 79.00 100.00 83.00 86.00 37.00 57.00 71.00 66.00 65.00 74.00 81.00 78.00 75.00 83.00 79.00 96.00 53.00 78.00 63.00 78.00 78.00 79.003.00 55.00 37.00 95.00 80.00 48.00 57.00 93.00 90.00 83.00 47.00 82.00 84.00 88.00 85.00 97.00 40.00 52.00 59.00 68.00 42.00 9 8.00 54.00 54.00 91.00 42.00 38.00 57.00 49.00 53.00 52.00 44.00 43.00 39.00 54.00 99.00 95.00 39.00 36.00 69.00 99.00 38.00 7 9.00 46.00 62.00 90.00 62.00 67.00 40.00 58.00 60.00 57.00 86.00 80.00 55.00 47.00 78.00 94.00 84.00 74.00 67.00 45.00 95.00 10 0.00 61.00 58.00 78.00 87.00 43.00 78.00 72.00 57.00 58.00 70.00 55.00 84.00 71.00 59.00 94.00 40.00 87.00 64.00 66.00 52.00 5 9.00 40.00 76.00 60.00 96.00 58.00 76.00

 $39.00 \quad 39.00 \quad 34.00 \quad 70.00 \quad 84.00 \quad 96.00 \quad 64.00 \quad 39.00 \quad 65.00 \quad 49.00 \quad 93.00 \quad 95.00 \quad 77.00 \quad 46.00 \quad 88.00 \quad 89.00 \quad 89.00 \quad 99.00 \quad 99.0$ 1.00 62.00 79.00 95.00 49.00 89.00 96.00 46.00 58.00 57.00 91.00 74.00 91.00 56.00 45.00 96.00 82.00 51.00 45.00 71.00 49.00 9 2.00 92.00 41.00 45.00 55.00 82.00 40.00 $65.00 \quad 72.00 \quad 74.00 \quad 57.00 \quad 65.00 \quad 35.00 \quad 35.00 \quad 50.00 \quad 78.00 \quad 47.00 \quad 71.00 \quad 74.00 \quad 93.00 \quad 100.00 \quad 93.00 \quad 93.$ 7.00 44.00 36.00 43.00 36.00 98.00 67.00 82.00 82.00 74.00 58.00 62.00 40.00 89.00 68.00 67.00 43.00 80.00 55.00 69.00 50.00 5 3.00 100.00 66.00 55.00 85.00 84.00 50.00 87.00 74.00 76.00 77.00 90.00 69.00 49.00 35.00 100.00 71.00 51.00 58.00 37.00 94.00 7 4.00 42.00 73.00 83.00 93.00 94.00 83.00 73.00 74.00 61.00 50.00 78.00 99.00 69.00 64.00 87.00 82.00 78.00 57.00 82.00 77.00 8 1.00 85.00 39.00 65.00 52.00 71.00 64.00 $69.00 \quad 76.00 \quad 74.00 \quad 39.00 \quad 43.00 \quad 96.00 \quad 68.00 \quad 89.00 \quad 66.00 \quad 36.00 \quad 47.00 \quad 87.00 \quad 92.00 \quad 82.00 \quad 4$ 3.00 92.00 78.00 100.00 65.00 36.00 67.00 77.00 82.00 91.00 91.00 35.00 96.00 41.00 42.00 42.00 51.00 39.00 62.00 100.00 39.00 8 6.00 35.00 59.00 73.00 92.00 87.00 74.00 92.00 87.00 78.00 97.00 88.00 54.00 58.00 90.00 51.00 51.00 36.00 38.00 88.00 36.00 6 9.00 66.00 61.00 35.00 82.00 75.00 95.00 97.00 100.00 100.00 49.00 55.00 84.00 48.00 49.00 36.00 42.00 55.00 71.00 36.00 79.00 8 4.00 58.00 47.00 91.00 72.00 44.00 75.00 80.00 86.00 83.00 98.00 55.00 99.00 62.00 35.00 83.00 56.00 92.00 47.00 53.00 68.00 5 5.00 64.00 89.00 37.00 52.00 67.00 39.00 $63.00 \quad 80.00 \quad 80.00 \quad 91.00 \quad 71.00 \quad 62.00 \quad 73.00 \quad 44.00 \quad 59.00 \quad 51.00 \quad 100.00 \quad 97.00 \quad 71.00 \quad 88.00 \quad 80.00 \quad 80.00 \quad 91.00 \quad 91.$ 8.00 40.00 93.00 51.00 63.00 42.00 89.00 $68.00 \quad 54.00 \quad 53.00 \quad 75.00 \quad 38.00 \quad 87.00 \quad 67.00 \quad 51.00 \quad 54.00 \quad 56.00 \quad 64.00 \quad 69.00 \quad 47.00 \quad 68.00 \quad 78.00 \quad 79.00 \quad 79.0$ 1.00 66.00 64.00 52.00 46.00 85.00 72.00 $62.00 \quad 72.00 \quad 74.00 \quad 55.00 \quad 97.00 \quad 50.00 \quad 72.00 \quad 41.00 \quad 47.00 \quad 93.00 \quad 91.00 \quad 89.00 \quad 97.00 \quad 89.00 \quad 8$ 6.00 59.00 76.00 53.00 87.00 76.00 51.00 56.00 54.00 52.00 64.00 47.00 47.00 64.00 76.00 79.00 88.00 100.00 91.00 95.00 96.00 6 0.00 90.00 72.00 70.00 60.00 85.00 79.00 52.00 55.00 57.00 69.00 71.00 98.00 65.00 50.00 89.00 51.00 45.00 87.00 80.00 52.00 8 2.00 69.00 36.00 43.00 57.00 73.00 63.00 36.00 29.00 27.00 64.00 70.00 54.00 38.00 92.00 37.00 86.00 57.00 70.00 93.00 84.00 4 8.00 56.00 51.00 93.00 84.00 71.00 77.00 84.00 83.00 78.00 44.00 90.00 77.00 94.00 61.00 55.00 97.00 62.00 64.00 36.00 3 6.00 72.00 45.00 70.00 79.00 71.00 35.00 53.00 52.00 42.00 41.00 45.00 47.00 53.00 79.00 87.00 39.00 45.00 66.00 66.00 98.00 8 6.00 47.00 80.00 97.00 42.00 52.00 58.00 59.00 63.00 64.00 36.00 80.00 40.00 84.00 83.00 78.00 37.00 84.00 35.00 85.00 50.00 7 8.00 44.00 98.00 49.00 93.00 75.00 93.00 74.00 72.00 72.00 95.00 51.00 54.00 82.00 38.00 100.00 40.00 94.00 54.00 43.00 61.00 7 2.00 73.00 92.00 69.00 53.00 80.00 76.00 $63.00 \quad 48.00 \quad 47.00 \quad 60.00 \quad 82.00 \quad 80.00 \quad 66.00 \quad 67.00 \quad 68.00 \quad 58.00 \quad 38.00 \quad 82.00 \quad 89.00 \quad 42.00 \quad 7$ 0.00 89.00 37.00 44.00 86.00 75.00 86.00 $63.00 \quad 55.00 \quad 63.00 \quad 87.00 \quad 35.00 \quad 40.00 \quad 63.00 \quad 83.00 \quad 59.00 \quad 39.00 \quad 77.00 \quad 78.00 \quad 76.00 \quad 83.00 \quad 78.00 \quad 78.0$ 7.00 59.00 62.00 53.00 55.00 36.00 49.00 81.00 80.00 76.00 88.00 50.00 90.00 77.00 62.00 80.00 92.00 69.00 58.00 90.00 41.00 91.00 100.00 36.00 39.00 58.00 92.00 97.00 $64.00 \quad 56.00 \quad 52.00 \quad 90.00 \quad 81.00 \quad 44.00 \quad 65.00 \quad 54.00 \quad 84.00 \quad 95.00 \quad 93.00 \quad 36.00 \quad 84.00 \quad 94.00 \quad 98.00 \quad 98.0$ 8.00 68.00 68.00 97.00 38.00 47.00 38.00 37.00 46.00 46.00 83.00 48.00 70.00 48.00 42.00 61.00 94.00 70.00 50.00 91.00 44.00 72.00 91.00 52.00 91.00 69.00 49.00 46.00 49.00 45.00 45.00 74.00 80.00 40.00 48.00 88.00 89.00 43.00 74.00 55.00 95.00 71.00 6 5.00 78.00 78.00 60.00 75.00 42.00 37.00 81.00 78.00 78.00 93.00 91.00 60.00 64.00 50.00 38.00 43.00 35.00 58.00 76.00 35.00 3 5.00 64.00 90.00 90.00 91.00 80.00 52.00 $100.00 \quad 92.00 \quad 97.00 \quad 77.00 \quad 70.00 \quad 87.00 \quad 62.00 \quad 84.00 \quad 48.00 \quad 95.00 \quad 49.00 \quad 75.00 \quad 79.00 \quad 92.00 \quad 4$ 9.00 87.00 41.00 36.00 47.00 100.00 43.00 57.00 75.00 73.00 56.00 37.00 93.00 50.00 48.00 84.00 86.00 75.00 52.00 89.00 62.00 7 1.00 99.00 42.00 66.00 66.00 100.00 93.00 85.00 84.00 89.00 55.00 60.00 58.00 55.00 65.00 89.00 57.00 59.00 88.00 98.00 100.00 7 5.00 61.00 67.00 40.00 86.00 69.00 69.00 73.00 68.00 66.00 96.00 61.00 91.00 79.00 41.00 51.00 54.00 89.00 75.00 52.00 58.00 58.00 98.00 60.00 68.00 72.00 46.00 69.00 61.00 56.00 56.00 99.00 62.00 100.00 78.00 78.00 89.00 57.00 66.00 89.00 48.00 70.00 39.00 94.00 93.00 39.00 39.00 84.00 45.00 $65.00 \quad 67.00 \quad 62.00 \quad 46.00 \quad 74.00 \quad 55.00 \quad 56.00 \quad 40.00 \quad 89.00 \quad 52.00 \quad 90.00 \quad 100.00 \quad 93.00 \quad 41.00 \quad 40.00 \quad 89.00 \quad 50.00 \quad 90.00 \quad 90.$ 8.00 98.00 84.00 73.00 66.00 85.00 61.00 $69.00 \quad 70.00 \quad 63.00 \quad 71.00 \quad 85.00 \quad 36.00 \quad 97.00 \quad 52.00 \quad 91.00 \quad 94.00 \quad 75.00 \quad 60.00 \quad 82.00 \quad 92.00 \quad 38.00 \quad 92.00 \quad 92.0$ 8.00 97.00 64.00 53.00 90.00 60.00 58.00 59.00 62.00 61.00 48.00 51.00 97.00 76.00 48.00 83.00 47.00 69.00 89.00 64.00 93.00 10 0.00 79.00 61.00 35.00 45.00 89.00 64.00 70.00 78.00 78.00 46.00 45.00 41.00 69.00 61.00 66.00 67.00 73.00 61.00 66.00 79.00 7 3.00 36.00 63.00 66.00 59.00 62.00 36.00 58.00 51.00 52.00 45.00 80.00 67.00 98.00 47.00 43.00 51.00 85.00 86.00 96.00 52.00 9 8.00 68.00 39.00 88.00 73.00 86.00 94.00 49.00 65.00 61.00 82.00 77.00 65.00 67.00 48.00 100.00 46.00 74.00 60.00 74.00 83.00 7 7.00 60.00 66.00 81.00 74.00 47.00 66.00 53.00 58.00 65.00 69.00 50.00 76.00 83.00 63.00 51.00 46.00 53.00 63.00 45.00 44.00 6 8.00 90.00 88.00 42.00 55.00 49.00 52.00 70.00 75.00 74.00 84.00 58.00 49.00 94.00 81.00 77.00 100.00 90.00 79.00 66.00 69.00 5 6.00 61.00 86.00 35.00 40.00 74.00 46.00 82.00 85.00 87.00 61.00 54.00 73.00 68.00 77.00 47.00 77.00 77.00 44.00 78.00 57.00 6 8.00 64.00 47.00 40.00 54.00 68.00 90.00 87.00 90.00 88.00 53.00 63.00 91.00 53.00 77.00 55.00 84.00 58.00 77.00 87.00 62.00 7 6.00 39.00 100.00 67.00 36.00 40.00 68.00

84.00 83.00 75.00 40.00 48.00 81.00 94.00 57.00 36.00 100.00 47.00 59.00 47.00 41.00 76.00 46.00 56.00 56.00 81.00 90.00 61.00 $61.00 \quad 60.00 \quad 55.00 \quad 41.00 \quad 75.00 \quad 77.00 \quad 51.00 \quad 71.00 \quad 74.00 \quad 46.00 \quad 44.00 \quad 77.00 \quad 71.00 \quad 47.00 \quad 70.00 \quad 70.0$ 0.00 42.00 83.00 81.00 41.00 59.00 79.00 70.00 70.00 65.00 94.00 99.00 69.00 100.00 49.00 91.00 40.00 69.00 73.00 46.00 36.00 4 1.00 92.00 91.00 37.00 36.00 58.00 79.00 62.00 49.00 52.00 52.00 39.00 71.00 56.00 77.00 49.00 76.00 84.00 42.00 79.00 88.00 71.00 96.00 66.00 55.00 54.00 36.00 77.00 45.00 37.00 37.00 100.00 60.00 77.00 50.00 64.00 72.00 56.00 86.00 85.00 52.00 78.00 4 5.00 44.00 48.00 73.00 67.00 64.00 37.00 57.00 51.00 54.00 80.00 98.00 62.00 41.00 69.00 77.00 78.00 73.00 42.00 54.00 38.00 7 7.00 76.00 62.00 58.00 61.00 62.00 91.00 90.00 87.00 75.00 81.00 82.00 49.00 73.00 39.00 72.00 82.00 100.00 76.00 65.00 94.00 9 6.00 100.00 87.00 64.00 66.00 94.00 63.00 86.00 76.00 74.00 98.00 76.00 97.00 98.00 67.00 65.00 71.00 53.00 55.00 60.00 76.00 4 7.00 59.00 90.00 52.00 60.00 69.00 72.00 39.00 64.00 57.00 43.00 59.00 59.00 78.00 99.00 50.00 60.00 82.00 71.00 97.00 42.00 5 7.00 55.00 56.00 55.00 66.00 98.00 55.00 $61.00 \quad 71.00 \quad 73.00 \quad 81.00 \quad 64.00 \quad 44.00 \quad 49.00 \quad 52.00 \quad 39.00 \quad 59.00 \quad 78.00 \quad 36.00 \quad 42.00 \quad 86.00 \quad 38.00 \quad 39.00 \quad 78.00 \quad 38.00 \quad 42.00 \quad 86.00 \quad 38.00 \quad 48.00 \quad 48.0$ 9.00 92.00 83.00 84.00 86.00 73.00 36.00 78.00 77.00 80.00 36.00 95.00 91.00 98.00 37.00 91.00 44.00 87.00 43.00 64.00 73.00 8 0.00 65.00 91.00 39.00 60.00 59.00 80.00 70.00 84.00 81.00 93.00 58.00 52.00 45.00 66.00 85.00 50.00 72.00 44.00 94.00 58.00 4 8.00 90.00 40.00 68.00 56.00 40.00 90.00 79.00 78.00 77.00 38.00 50.00 84.00 94.00 71.00 49.00 72.00 83.00 67.00 82.00 85.00 9 6.00 38.00 44.00 87.00 52.00 46.00 51.00 57.00 50.00 54.00 79.00 55.00 94.00 84.00 91.00 57.00 41.00 64.00 49.00 88.00 63.00 38.00 67.00 62.00 97.00 52.00 89.00 72.00 51.00 66.00 62.00 37.00 65.00 90.00 70.00 84.00 67.00 49.00 41.00 46.00 69.00 71.00 81.00 65.00 83.00 62.00 93.00 35.00 80.00 $69.00 \quad 60.00 \quad 54.00 \quad 93.00 \quad 52.00 \quad 96.00 \quad 58.00 \quad 90.00 \quad 73.00 \quad 81.00 \quad 37.00 \quad 66.00 \quad 95.00 \quad 74.00 \quad 58.00 \quad 90.00 \quad 73.00 \quad 81.00 \quad 90.00 \quad 90.00 \quad 70.00 \quad 90.00 \quad 90.0$ 8.00 66.00 61.00 47.00 88.00 98.00 67.00 52.00 65.00 69.00 78.00 70.00 41.00 57.00 90.00 55.00 54.00 39.00 69.00 42.00 62.00 4 1.00 92.00 48.00 43.00 71.00 65.00 85.00 46.00 61.00 55.00 71.00 69.00 89.00 54.00 42.00 71.00 65.00 74.00 100.00 66.00 79.00 8 3.00 81.00 80.00 91.00 43.00 88.00 73.00 94.00 87.00 92.00 48.00 55.00 49.00 73.00 51.00 43.00 91.00 77.00 93.00 65.00 41.00 5 1.00 57.00 96.00 88.00 68.00 68.00 73.00 79.00 88.00 94.00 63.00 40.00 98.00 38.00 36.00 41.00 100.00 86.00 52.00 76.00 38.00 6 7.00 96.00 37.00 49.00 73.00 97.00 72.00 90.00 75.00 69.00 84.00 74.00 88.00 50.00 61.00 53.00 40.00 59.00 87.00 78.00 37.00 5 2.00 81.00 58.00 86.00 56.00 62.00 88.00 80.00 83.00 83.00 90.00 88.00 51.00 45.00 76.00 45.00 68.00 45.00 67.00 98.00 100.00 8

1.00 79.00 76.00 84.00 81.00 72.00 52.00 66.00 69.00 63.00 38.00 89.00 85.00 67.00 64.00 86.00 42.00 97.00 56.00 55.00 70.00 6 9.00 97.00 51.00 49.00 41.00 35.00 41.00 86.00 81.00 75.00 78.00 82.00 35.00 95.00 96.00 43.00 96.00 52.00 50.00 51.00 75.00 6 9.00 63.00 97.00 90.00 86.00 99.00 46.00 $62.00 \quad 72.00 \quad 70.00 \quad 90.00 \quad 76.00 \quad 79.00 \quad 53.00 \quad 89.00 \quad 41.00 \quad 49.00 \quad 48.00 \quad 66.00 \quad 91.00 \quad 64.00 \quad 3$ 6.00 94.00 68.00 42.00 89.00 72.00 70.00 43.00 45.00 50.00 69.00 93.00 53.00 44.00 93.00 97.00 42.00 61.00 65.00 35.00 45.00 4 7.00 56.00 53.00 65.00 84.00 38.00 57.00 70.00 55.00 56.00 69.00 38.00 45.00 91.00 96.00 55.00 69.00 70.00 60.00 65.00 62.00 4 9.00 98.00 64.00 42.00 100.00 60.00 76.00 $60.00 \quad 59.00 \quad 54.00 \quad 71.00 \quad 39.00 \quad 77.00 \quad 73.00 \quad 57.00 \quad 61.00 \quad 97.00 \quad 50.00 \quad 46.00 \quad 73.00 \quad 65.00 \quad 59.00 \quad 79.00 \quad 79.0$ 7.00 53.00 72.00 87.00 54.00 81.00 37.00 40.00 59.00 51.00 55.00 91.00 84.00 59.00 44.00 55.00 57.00 53.00 82.00 45.00 100.00 6 6.00 64.00 55.00 57.00 72.00 62.00 59.00 70.00 56.00 51.00 77.00 90.00 100.00 78.00 98.00 55.00 65.00 51.00 64.00 44.00 40.00 59.00 41.00 89.00 73.00 50.00 46.00 94.00 $63.00 \quad 73.00 \quad 68.00 \quad 44.00 \quad 99.00 \quad 93.00 \quad 36.00 \quad 37.00 \quad 64.00 \quad 84.00 \quad 98.00 \quad 90.00 \quad 86.00 \quad 51.00 \quad 50.00 \quad 80.00 \quad 80.0$ 0.00 43.00 41.00 72.00 56.00 93.00 52.00 72.00 64.00 63.00 43.00 92.00 61.00 99.00 80.00 43.00 40.00 99.00 60.00 100.00 45.00 3 7.00 70.00 56.00 47.00 99.00 37.00 37.00 64.00 63.00 66.00 91.00 59.00 41.00 80.00 40.00 92.00 67.00 45.00 80.00 57.00 69.00 8 9.00 67.00 81.00 60.00 55.00 65.00 47.00 $69.00 \quad 64.00 \quad 68.00 \quad 58.00 \quad 57.00 \quad 85.00 \quad 89.00 \quad 49.00 \quad 64.00 \quad 54.00 \quad 52.00 \quad 79.00 \quad 100.00 \quad 70.00 \quad 80.00 \quad 80.$ 5.00 55.00 86.00 68.00 77.00 93.00 81.00 $63.00 \quad 67.00 \quad 67.00 \quad 77.00 \quad 36.00 \quad 49.00 \quad 58.00 \quad 38.00 \quad 84.00 \quad 35.00 \quad 82.00 \quad 72.00 \quad 81.00 \quad 61.00 \quad 70.00 \quad 70.00 \quad 81.00 \quad 81.0$ 7.00 93.00 59.00 44.00 80.00 91.00 83.00 86.00 83.00 86.00 81.00 65.00 42.00 47.00 99.00 83.00 72.00 96.00 47.00 35.00 83.00 4 1.00 66.00 88.00 79.00 59.00 91.00 62.00 71.00 49.00 52.00 54.00 35.00 36.00 94.00 80.00 74.00 78.00 85.00 76.00 92.00 43.00 81.00 71.00 73.00 75.00 83.00 62.00 35.00 59.00 73.00 72.00 60.00 90.00 88.00 35.00 57.00 88.00 57.00 79.00 74.00 82.00 62.00 7 0.00 80.00 75.00 98.00 66.00 36.00 78.00 $68.00 \quad 63.00 \quad 54.00 \quad 43.00 \quad 100.00 \quad 84.00 \quad 58.00 \quad 64.00 \quad 80.00 \quad 97.00 \quad 42.00 \quad 57.00 \quad 93.00 \quad 67.00 \quad 48.00 \quad 97.00 \quad 97.$ 8.00 39.00 42.00 94.00 54.00 47.00 36.00 77.00 79.00 80.00 75.00 47.00 80.00 39.00 48.00 59.00 36.00 70.00 85.00 53.00 45.00 4 9.00 72.00 38.00 78.00 62.00 98.00 75.00 85.00 92.00 85.00 91.00 49.00 75.00 92.00 63.00 85.00 91.00 57.00 75.00 97.00 68.00 7 3.00 70.00 68.00 50.00 85.00 77.00 46.00 66.00 59.00 52.00 38.00 87.00 35.00 75.00 46.00 58.00 50.00 78.00 84.00 71.00 76.00 9 9.00 35.00 65.00 100.00 38.00 56.00 59.00 63.00 61.00 61.00 63.00 53.00 85.00 53.00 38.00 90.00 64.00 84.00 37.00 39.00 63.00 3 9.00 95.00 43.00 75.00 38.00 58.00 83.00

46.00 56.00 57.00 50.00 42.00 57.00 90.00 55.00 51.00 81.00 70.00 39.00 42.00 89.00 3 5.00 72.00 56.00 60.00 59.00 69.00 85.00 71.00 76.00 70.00 99.00 100.00 48.00 81.00 67.00 64.00 52.00 84.00 59.00 71.00 44.00 52.00 85.00 39.00 61.00 51.00 40.00 72.00 50.00 48.00 53.00 57.00 73.00 49.00 52.00 88.00 46.00 51.00 88.00 57.00 77.00 89.00 6 3.00 36.00 68.00 49.00 38.00 76.00 87.00 73.00 83.00 76.00 73.00 38.00 64.00 51.00 36.00 36.00 58.00 81.00 40.00 89.00 52.00 8 9.00 73.00 45.00 91.00 57.00 74.00 88.00 91.00 73.00 80.00 90.00 46.00 44.00 47.00 66.00 93.00 85.00 64.00 38.00 72.00 39.00 7 1.00 60.00 59.00 81.00 72.00 36.00 70.00 59.00 62.00 69.00 71.00 64.00 46.00 58.00 57.00 42.00 70.00 57.00 62.00 91.00 100.00 4 6.00 85.00 42.00 72.00 35.00 48.00 69.00 59.00 42.00 41.00 62.00 76.00 57.00 42.00 45.00 56.00 65.00 75.00 91.00 35.00 43.00 9 8.00 87.00 99.00 50.00 67.00 36.00 42.00 42.00 55.00 54.00 84.00 58.00 67.00 37.00 88.00 98.00 76.00 71.00 84.00 68.00 72.00 7 3.00 68.00 85.00 95.00 53.00 84.00 48.00 51.00 63.00 61.00 98.00 61.00 97.00 80.00 41.00 78.00 55.00 69.00 70.00 66.00 92.00 38.00 91.00 92.00 62.00 53.00 84.00 81.00 49.00 52.00 54.00 56.00 97.00 75.00 61.00 55.00 39.00 60.00 37.00 38.00 88.00 58.00 6 9.00 79.00 57.00 43.00 61.00 57.00 59.00 49.00 58.00 60.00 89.00 70.00 67.00 79.00 53.00 41.00 66.00 87.00 42.00 48.00 76.00 5 4.00 100.00 74.00 57.00 94.00 88.00 57.00 $65.00 \quad 58.00 \quad 49.00 \quad 52.00 \quad 90.00 \quad 52.00 \quad 66.00 \quad 51.00 \quad 42.00 \quad 38.00 \quad 50.00 \quad 80.00 \quad 46.00 \quad 83.00 \quad 40.00 \quad 40.00 \quad 80.00 \quad 80.0$ 1.00 95.00 40.00 92.00 51.00 89.00 85.00 82.00 80.00 77.00 94.00 79.00 47.00 64.00 81.00 50.00 49.00 45.00 49.00 77.00 82.00 4 4.00 53.00 35.00 64.00 43.00 66.00 40.00 40.00 46.00 50.00 96.00 53.00 74.00 86.00 98.00 51.00 41.00 48.00 74.00 97.00 59.00 7 9.00 56.00 59.00 38.00 41.00 41.00 81.00 71.00 75.00 70.00 67.00 72.00 60.00 51.00 48.00 79.00 35.00 79.00 84.00 43.00 56.00 68.00 35.00 67.00 54.00 37.00 44.00 64.00 $62.00 \quad 66.00 \quad 68.00 \quad 64.00 \quad 59.00 \quad 71.00 \quad 51.00 \quad 81.00 \quad 43.00 \quad 52.00 \quad 64.00 \quad 58.00 \quad 57.00 \quad 35.00 \quad 68.00 \quad 69.00 \quad 69.0$ 7.00 98.00 64.00 72.00 49.00 88.00 68.00 53.00 50.00 60.00 56.00 39.00 50.00 68.00 98.00 85.00 98.00 42.00 40.00 98.00 47.00 57.00 63.00 41.00 72.00 56.00 90.00 98.00 58.00 70.00 68.00 39.00 97.00 91.00 97.00 65.00 48.00 94.00 37.00 99.00 70.00 75.00 5 4.00 92.00 53.00 67.00 73.00 68.00 48.00 89.00 84.00 77.00 46.00 50.00 93.00 89.00 95.00 88.00 86.00 89.00 52.00 65.00 43.00 9 1.00 54.00 45.00 74.00 44.00 99.00 75.00 57.00 56.00 57.00 71.00 70.00 91.00 71.00 71.00 36.00 84.00 97.00 82.00 75.00 96.00 5 1.00 49.00 78.00 94.00 64.00 67.00 93.00 54.00 63.00 67.00 76.00 39.00 50.00 71.00 51.00 94.00 87.00 94.00 43.00 59.00 97.00 8 1.00 93.00 59.00 74.00 78.00 39.00 85.00 $67.00 \quad 64.00 \quad 61.00 \quad 45.00 \quad 83.00 \quad 44.00 \quad 51.00 \quad 58.00 \quad 40.00 \quad 87.00 \quad 68.00 \quad 72.00 \quad 37.00 \quad 47.00 \quad 88.00 \quad 88.0$ 4.00 66.00 78.00 90.00 81.00 70.00 46.00 77.00 97.00 94.00 72.00 74.00 43.00 37.00 39.00 63.00 76.00 64.00 39.00 86.00 45.00 8 1.00 56.00 48.00 51.00 97.00 48.00 96.00 $62.00 \quad 70.00 \quad 72.00 \quad 36.00 \quad 42.00 \quad 62.00 \quad 38.00 \quad 94.00 \quad 43.00 \quad 69.00 \quad 51.00 \quad 81.00 \quad 56.00 \quad 97.00 \quad 81.00 \quad 97.00 \quad 81.00 \quad 97.00 \quad 81.00 \quad 97.00 \quad 97.0$ 0.00 38.00 96.00 39.00 54.00 57.00 45.00 $65.00 \quad 69.00 \quad 76.00 \quad 93.00 \quad 53.00 \quad 88.00 \quad 46.00 \quad 100.00 \quad 74.00 \quad 96.00 \quad 43.00 \quad 83.00 \quad 66.00 \quad 90.00 \quad 58.00 \quad 90.00 \quad 90.$ 8.00 66.00 35.00 57.00 78.00 63.00 46.00 $66.00 \quad 69.00 \quad 68.00 \quad 50.00 \quad 64.00 \quad 84.00 \quad 84.00 \quad 44.00 \quad 62.00 \quad 44.00 \quad 57.00 \quad 64.00 \quad 91.00 \quad 77.00 \quad 48.00 \quad 91.00 \quad 91.0$ 1.00 65.00 68.00 41.00 36.00 53.00 76.00 $62.00 \quad 63.00 \quad 56.00 \quad 53.00 \quad 63.00 \quad 84.00 \quad 56.00 \quad 42.00 \quad 71.00 \quad 95.00 \quad 88.00 \quad 92.00 \quad 59.00 \quad 94.00 \quad 8$ 0.00 68.00 89.00 97.00 69.00 80.00 41.00 71.00 77.00 77.00 53.00 97.00 82.00 61.00 100.00 94.00 98.00 44.00 60.00 78.00 45.00 89.00 89.00 50.00 99.00 37.00 79.00 53.00 71.00 66.00 60.00 62.00 41.00 85.00 68.00 89.00 64.00 54.00 52.00 92.00 79.00 54.00 83.00 52.00 72.00 82.00 96.00 80.00 74.00 84.00 77.00 71.00 84.00 39.00 83.00 64.00 64.00 48.00 61.00 68.00 85.00 74.00 67.00 3 8.00 40.00 52.00 80.00 100.00 81.00 80.00 87.00 89.00 94.00 78.00 98.00 91.00 74.00 38.00 57.00 95.00 41.00 49.00 81.00 54.00 6 3.00 47.00 98.00 96.00 56.00 75.00 90.00 66.00 77.00 70.00 55.00 62.00 45.00 51.00 79.00 87.00 72.00 67.00 60.00 46.00 70.00 60.00 52.00 41.00 40.00 71.00 46.00 64.00 56.00 61.00 60.00 66.00 71.00 75.00 49.00 39.00 85.00 61.00 48.00 40.00 62.00 79.00 8 4.00 59.00 94.00 90.00 61.00 42.00 88.00 59.00 58.00 59.00 85.00 99.00 89.00 85.00 38.00 91.00 42.00 56.00 79.00 49.00 54.00 7 1.00 79.00 72.00 99.00 82.00 57.00 96.00 48.00 58.00 54.00 74.00 82.00 86.00 51.00 50.00 90.00 53.00 42.00 45.00 46.00 57.00 4 0.00 77.00 60.00 85.00 47.00 39.00 89.00 64.00 64.00 70.00 96.00 78.00 78.00 99.00 47.00 87.00 96.00 86.00 37.00 59.00 64.00 78.00 53.00 45.00 97.00 68.00 41.00 66.00 $67.00 \quad 78.00 \quad 79.00 \quad 85.00 \quad 45.00 \quad 91.00 \quad 81.00 \quad 90.00 \quad 87.00 \quad 73.00 \quad 100.00 \quad 93.00 \quad 90.00 \quad 93.00 \quad 5$ 4.00 72.00 38.00 100.00 51.00 61.00 80.00 48.00 62.00 60.00 93.00 51.00 96.00 56.00 69.00 79.00 64.00 35.00 100.00 36.00 100.00 7 8.00 75.00 95.00 72.00 61.00 74.00 85.00 58.00 57.00 54.00 75.00 72.00 50.00 62.00 82.00 74.00 40.00 44.00 75.00 41.00 89.00 46.00 83.00 98.00 57.00 73.00 84.00 62.00 79.00 82.00 73.00 60.00 71.00 56.00 63.00 64.00 82.00 44.00 52.00 69.00 85.00 65.00 9 2.00 39.00 94.00 56.00 67.00 39.00 87.00 75.00 88.00 85.00 42.00 81.00 97.00 72.00 79.00 87.00 88.00 99.00 36.00 78.00 95.00 9 1.00 42.00 72.00 96.00 49.00 74.00 51.00 85.00 76.00 71.00 75.00 48.00 63.00 44.00 89.00 52.00 69.00 67.00 61.00 94.00 82.00 5 7.00 41.00 58.00 81.00 43.00 85.00 49.00 8.00 24.00 23.00 95.00 40.00 58.00 82.00 38.00 63.00 91.00 76.00 93.00 61.00 51.00 5 8.00 85.00 85.00 84.00 78.00 74.00 38.00

89.00 100.00 100.00 70.00 97.00 49.00 77.00 91.00 97.00 79.00 68.00 97.00 69.00 93.00 7 2.00 87.00 91.00 81.00 42.00 70.00 47.00 76.00 83.00 88.00 53.00 89.00 76.00 77.00 55.00 46.00 76.00 69.00 63.00 68.00 96.00 6 7.00 36.00 40.00 43.00 48.00 53.00 99.00 58.00 49.00 42.00 70.00 57.00 39.00 38.00 67.00 49.00 92.00 72.00 44.00 74.00 84.00 51.00 77.00 52.00 64.00 77.00 92.00 53.00 74.00 90.00 88.00 54.00 66.00 45.00 99.00 52.00 72.00 44.00 85.00 100.00 38.00 50.00 4 8.00 36.00 39.00 65.00 66.00 55.00 86.00 82.00 75.00 77.00 96.00 64.00 38.00 68.00 35.00 96.00 43.00 69.00 70.00 76.00 98.00 8 0.00 73.00 38.00 42.00 78.00 55.00 76.00 87.00 74.00 70.00 77.00 35.00 48.00 58.00 82.00 86.00 88.00 90.00 71.00 79.00 69.00 4 3.00 75.00 66.00 79.00 35.00 77.00 98.00 40.00 48.00 50.00 78.00 85.00 42.00 36.00 76.00 37.00 84.00 44.00 62.00 66.00 73.00 7 1.00 86.00 88.00 93.00 37.00 98.00 37.00 61.00 56.00 55.00 39.00 76.00 85.00 95.00 44.00 65.00 78.00 70.00 83.00 57.00 78.00 80.00 50.00 55.00 86.00 41.00 92.00 47.00 $64.00 \quad 74.00 \quad 75.00 \quad 75.00 \quad 64.00 \quad 100.00 \quad 45.00 \quad 44.00 \quad 67.00 \quad 45.00 \quad 58.00 \quad 35.00 \quad 49.00 \quad 44.00 \quad 78.00 \quad 79.00 \quad 79.$ 2.00 76.00 38.00 37.00 78.00 92.00 60.00 53.00 54.00 48.00 92.00 97.00 100.00 45.00 90.00 58.00 46.00 95.00 84.00 94.00 99.00 49.00 38.00 75.00 68.00 40.00 63.00 93.00 $62.00 \quad 61.00 \quad 55.00 \quad 44.00 \quad 79.00 \quad 71.00 \quad 86.00 \quad 91.00 \quad 90.00 \quad 86.00 \quad 88.00 \quad 48.00 \quad 65.00 \quad 87.00 \quad 87.0$ 4.00 93.00 90.00 66.00 93.00 88.00 52.00 78.00 74.00 72.00 100.00 66.00 39.00 77.00 86.00 97.00 62.00 61.00 88.00 84.00 47.00 76.00 72.00 49.00 90.00 49.00 58.00 78.00 99.00 87.00 81.00 71.00 39.00 80.00 59.00 44.00 60.00 67.00 76.00 98.00 92.00 79.00 6 1.00 65.00 100.00 48.00 60.00 59.00 51.00 94.00 88.00 78.00 68.00 48.00 62.00 66.00 46.00 40.00 79.00 58.00 70.00 83.00 61.00 9 6.00 47.00 78.00 49.00 78.00 49.00 72.00 76.00 62.00 66.00 70.00 57.00 81.00 57.00 53.00 71.00 61.00 56.00 51.00 47.00 79.00 8 3.00 68.00 94.00 75.00 48.00 66.00 74.00 $65.00 \quad 78.00 \quad 82.00 \quad 86.00 \quad 39.00 \quad 80.00 \quad 95.00 \quad 50.00 \quad 62.00 \quad 45.00 \quad 53.00 \quad 91.00 \quad 85.00 \quad 80.00 \quad 4$ 3.00 39.00 56.00 82.00 65.00 64.00 80.00 53.00 70.00 70.00 100.00 74.00 94.00 94.00 59.00 93.00 49.00 100.00 64.00 65.00 91.00 48.00 81.00 92.00 73.00 54.00 62.00 99.00 71.00 74.00 68.00 54.00 62.00 64.00 68.00 71.00 54.00 39.00 55.00 70.00 90.00 41.00 36.00 55.00 43.00 42.00 82.00 57.00 98.00 43.00 53.00 53.00 56.00 72.00 88.00 58.00 79.00 70.00 99.00 56.00 79.00 81.00 48.00 8 3.00 83.00 36.00 57.00 43.00 54.00 40.00 61.00 72.00 70.00 87.00 99.00 92.00 63.00 44.00 46.00 44.00 68.00 42.00 81.00 43.00 77.00 94.00 53.00 90.00 37.00 39.00 86.00 53.00 72.00 64.00 51.00 66.00 54.00 48.00 41.00 78.00 56.00 47.00 75.00 99.00 71.00 6 1.00 55.00 77.00 74.00 35.00 37.00 55.00 58.00 63.00 73.00 69.00 67.00 100.00 97.00 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4.00 87.00 42.00 87.00 35.00 51.00 72.00 $68.00 \quad 51.00 \quad 57.00 \quad 79.00 \quad 80.00 \quad 81.00 \quad 50.00 \quad 78.00 \quad 91.00 \quad 57.00 \quad 40.00 \quad 90.00 \quad 74.00 \quad 55.00 \quad 6$ 1.00 35.00 67.00 100.00 82.00 74.00 54.00 71.00 84.00 87.00 49.00 72.00 43.00 45.00 84.00 48.00 94.00 57.00 46.00 35.00 42.00 9 9.00 58.00 83.00 52.00 85.00 86.00 66.00 47.00 57.00 44.00 43.00 87.00 99.00 47.00 75.00 89.00 62.00 87.00 74.00 66.00 77.00 9 6.00 94.00 76.00 59.00 36.00 59.00 73.00 65.00 69.00 67.00 86.00 88.00 35.00 38.00 77.00 89.00 69.00 49.00 78.00 37.00 45.00 41.00 65.00 74.00 89.00 47.00 60.00 79.00 47.00 49.00 50.00 92.00 42.00 35.00 52.00 90.00 45.00 44.00 71.00 52.00 45.00 65.00 8 5.00 70.00 62.00 87.00 65.00 80.00 65.00 59.00 58.00 47.00 88.00 48.00 59.00 65.00 71.00 69.00 84.00 58.00 69.00 86.00 68.00 10 0.00 49.00 84.00 75.00 89.00 85.00 41.00 75.00 84.00 80.00 84.00 82.00 41.00 64.00 60.00 84.00 67.00 48.00 69.00 43.00 79.00 8 9.00 41.00 52.00 73.00 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 $81.00 \quad 75.00 \quad 78.00 \quad 90.00 \quad 52.00 \quad 70.00 \quad 98.00 \quad 74.00 \quad 40.00 \quad 61.00 \quad 96.00 \quad 41.00 \quad 73.00 \quad 48.00 \quad 40.00 \quad 40.00 \quad 61.00 \quad 96.00 \quad 40.00 \quad 73.00 \quad 40.00 \quad 40.00 \quad 61.00 \quad 96.00 \quad 90.00 \quad 70.00 \quad 90.00 \quad 90.0$ 8.00 66.00 54.00 61.00 60.00 38.00 83.00 $68.00 \quad 67.00 \quad 69.00 \quad 77.00 \quad 71.00 \quad 76.00 \quad 49.00 \quad 41.00 \quad 88.00 \quad 76.00 \quad 54.00 \quad 81.00 \quad 82.00 \quad 94.00 \quad 69.00 \quad 77.00 \quad 70.00 \quad 70.0$ 4.00 48.00 87.00 76.00 58.00 45.00 94.00 40.00 52.00 43.00 82.00 74.00 88.00 36.00 73.00 88.00 44.00 71.00 84.00 37.00 59.00 10 0.00 62.00 63.00 82.00 94.00 89.00 50.00 76.00 73.00 68.00 82.00 46.00 60.00 77.00 46.00 74.00 67.00 100.00 62.00 52.00 88.00 8 6.00 40.00 95.00 37.00 84.00 76.00 77.00 85.00 66.00 71.00 95.00 82.00 52.00 94.00 80.00 55.00 43.00 61.00 57.00 42.00 73.00 4 2.00 71.00 77.00 48.00 59.00 35.00 95.00 77.00 86.00 86.00 61.00 71.00 71.00 80.00 56.00 47.00 79.00 78.00 36.00 68.00 87.00 9 6.00 66.00 89.00 38.00 62.00 41.00 55.00 $68.00 \quad 67.00 \quad 73.00 \quad 60.00 \quad 44.00 \quad 86.00 \quad 96.00 \quad 100.00 \quad 84.00 \quad 36.00 \quad 79.00 \quad 58.00 \quad 35.00 \quad 95.00 \quad 5$ 0.00 69.00 53.00 63.00 73.00 39.00 38.00 78.00 72.00 70.00 78.00 54.00 49.00 46.00 79.00 37.00 60.00 95.00 49.00 60.00 85.00 4 3.00 58.00 100.00 60.00 77.00 80.00 100.00 77.00 82.00 89.00 39.00 48.00 74.00 99.00 90.00 95.00 59.00 50.00 68.00 97.00 60.00 4 3.00 40.00 48.00 53.00 58.00 83.00 77.00 71.00 74.00 68.00 64.00 41.00 35.00 73.00 40.00 79.00 88.00 70.00 75.00 69.00 82.00 64.00 82.00 43.00 47.00 95.00 87.00 100.00 73.00 78.00 72.00 94.00 64.00 53.00 63.00 82.00 78.00 80.00 84.00 96.00 60.00 43.00 50.00 99.00 38.00 65.00 35.00 86.00 83.00 $61.00 \quad 42.00 \quad 41.00 \quad 39.00 \quad 45.00 \quad 38.00 \quad 78.00 \quad 98.00 \quad 63.00 \quad 67.00 \quad 83.00 \quad 43.00 \quad 96.00 \quad 65.00 \quad 5$ 3.00 57.00 83.00 68.00 71.00 99.00 51.00 58.00 67.00 62.00 84.00 43.00 90.00 40.00 53.00 91.00 42.00 38.00 77.00 82.00 63.00 7 0.00 73.00 87.00 53.00 100.00 69.00 61.00 84.00 89.00 90.00 49.00 92.00 82.00 73.00 77.00 54.00 59.00 95.00 67.00 38.00 42.00 4 1.00 75.00 78.00 42.00 67.00 49.00 73.00 88.00 92.00 95.00 97.00 74.00 44.00 63.00 58.00 85.00 85.00 61.00 51.00 50.00 58.00 8 9.00 65.00 85.00 43.00 97.00 58.00 43.00 58.00 75.00 77.00 46.00 42.00 77.00 38.00 75.00 85.00 87.00 55.00 38.00 45.00 52.00 8 4.00 81.00 38.00 96.00 73.00 63.00 88.00 81.00 82.00 82.00 70.00 70.00 50.00 75.00 92.00 68.00 69.00 56.00 48.00 56.00 56.00 6 1.00 72.00 61.00 38.00 67.00 61.00 58.00 62.00 66.00 68.00 65.00 81.00 67.00 60.00 71.00 66.00 89.00 54.00 46.00 39.00 65.00 5 0.00 79.00 47.00 72.00 64.00 36.00 61.00 79.00 86.00 92.00 71.00 58.00 55.00 73.00 79.00 43.00 54.00 99.00 63.00 48.00 96.00 5 1.00 93.00 54.00 44.00 50.00 91.00 79.00 48.00 51.00 46.00 48.00 54.00 62.00 40.00 90.00 43.00 83.00 68.00 99.00 92.00 43.00 9 7.00 59.00 70.00 85.00 74.00 86.00 71.00 77.00 76.00 77.00 40.00 100.00 54.00 66.00 94.00 63.00 62.00 40.00 48.00 70.00 94.00 10 0.00 81.00 36.00 47.00 71.00 35.00 74.00 79.00 89.00 86.00 75.00 81.00 77.00 64.00 98.00 61.00 98.00 95.00 67.00 79.00 76.00 9

7.00 39.00 78.00 62.00 98.00 56.00 56.00 76.00 64.00 66.00 62.00 36.00 93.00 60.00 75.00 57.00 91.00 90.00 49.00 94.00 76.00 5 2.00 62.00 43.00 79.00 86.00 94.00 56.00 72.00 67.00 64.00 54.00 82.00 55.00 98.00 89.00 56.00 49.00 81.00 91.00 86.00 74.00 9 2.00 88.00 69.00 89.00 47.00 47.00 88.00 81.00 86.00 87.00 61.00 72.00 46.00 46.00 58.00 63.00 98.00 42.00 76.00 46.00 82.00 9 2.00 55.00 44.00 55.00 58.00 68.00 89.00 61.00 64.00 62.00 50.00 90.00 80.00 100.00 88.00 94.00 51.00 50.00 81.00 46.00 68.00 70.00 83.00 55.00 82.00 97.00 83.00 36.00 94.00 73.00 71.00 39.00 35.00 56.00 44.00 44.00 38.00 43.00 38.00 44.00 66.00 55.00 3 9.00 90.00 99.00 55.00 60.00 40.00 91.00 90.00 78.00 81.00 59.00 62.00 46.00 41.00 80.00 37.00 68.00 67.00 38.00 93.00 43.00 4 1.00 60.00 97.00 91.00 73.00 80.00 59.00 82.00 84.00 82.00 83.00 44.00 57.00 58.00 61.00 75.00 84.00 47.00 71.00 93.00 36.00 8 3.00 78.00 95.00 57.00 89.00 58.00 48.00 73.00 76.00 78.00 50.00 38.00 53.00 43.00 42.00 46.00 40.00 74.00 36.00 50.00 85.00 4 7.00 100.00 46.00 61.00 44.00 42.00 91.00 75.00 69.00 68.00 67.00 61.00 74.00 42.00 59.00 78.00 73.00 57.00 99.00 67.00 50.00 6 6.00 100.00 95.00 42.00 75.00 92.00 79.00 $64.00 \quad 73.00 \quad 71.00 \quad 86.00 \quad 95.00 \quad 66.00 \quad 81.00 \quad 85.00 \quad 88.00 \quad 40.00 \quad 44.00 \quad 59.00 \quad 37.00 \quad 85.00 \quad 70.00 \quad 70.00 \quad 80.00 \quad 80.0$ 6.00 69.00 64.00 82.00 49.00 93.00 53.00 78.00 77.00 77.00 69.00 94.00 39.00 63.00 38.00 41.00 76.00 89.00 63.00 65.00 85.00 4 9.00 90.00 91.00 98.00 71.00 52.00 78.00 62.00 68.00 75.00 45.00 71.00 97.00 99.00 47.00 94.00 89.00 96.00 48.00 89.00 55.00 73.00 89.00 42.00 69.00 80.00 66.00 95.00 76.00 72.00 71.00 90.00 40.00 74.00 95.00 76.00 40.00 89.00 52.00 74.00 44.00 99.00 9 1.00 74.00 55.00 91.00 47.00 83.00 93.00 96.00 100.00 100.00 96.00 42.00 70.00 91.00 89.00 40.00 45.00 74.00 57.00 55.00 67.00 8 7.00 50.00 49.00 52.00 93.00 78.00 49.00 50.00 66.00 64.00 84.00 36.00 73.00 73.00 50.00 82.00 78.00 87.00 83.00 78.00 64.00 8 5.00 55.00 38.00 81.00 51.00 96.00 43.00 90.00 90.00 91.00 69.00 72.00 94.00 37.00 99.00 63.00 47.00 75.00 76.00 64.00 93.00 6 4.00 91.00 82.00 39.00 44.00 50.00 91.00 $69.00 \quad 79.00 \quad 81.00 \quad 75.00 \quad 59.00 \quad 52.00 \quad 89.00 \quad 86.00 \quad 74.00 \quad 89.00 \quad 39.00 \quad 90.00 \quad 89.00 \quad 64.00 \quad 78.00 \quad 79.00 \quad 89.00 \quad 89.0$ 4.00 45.00 35.00 49.00 58.00 93.00 49.00 74.00 75.00 79.00 35.00 62.00 69.00 87.00 97.00 97.00 75.00 92.00 58.00 70.00 39.00 3 9.00 83.00 47.00 51.00 55.00 88.00 47.00 73.00 70.00 75.00 89.00 53.00 35.00 63.00 42.00 49.00 37.00 72.00 92.00 71.00 83.00 7 1.00 38.00 56.00 75.00 53.00 77.00 59.00 68.00 68.00 67.00 97.00 83.00 55.00 87.00 79.00 39.00 100.00 41.00 39.00 58.00 96.00 47.00 60.00 46.00 44.00 40.00 76.00 47.00 85.00 89.00 95.00 93.00 39.00 97.00 40.00 94.00 40.00 67.00 88.00 39.00 92.00 47.00 5 4.00 49.00 57.00 48.00 73.00 43.00 58.00

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5.00 55.00 59.00 82.00 73.00 83.00 69.00 76.00 71.00 73.00 88.00 43.00 68.00 40.00 91.00 52.00 70.00 93.00 45.00 91.00 42.00 9 1.00 78.00 38.00 77.00 69.00 35.00 64.00 75.00 90.00 88.00 77.00 93.00 99.00 96.00 35.00 58.00 39.00 88.00 41.00 99.00 51.00 9 7.00 93.00 82.00 51.00 96.00 68.00 88.00 55.00 76.00 76.00 99.00 98.00 86.00 50.00 71.00 63.00 92.00 92.00 41.00 73.00 35.00 6 9.00 67.00 91.00 36.00 57.00 89.00 84.00 49.00 65.00 55.00 54.00 50.00 62.00 54.00 53.00 72.00 68.00 42.00 88.00 86.00 37.00 4 7.00 69.00 37.00 69.00 36.00 68.00 93.00 $66.00 \quad 78.00 \quad 78.00 \quad 65.00 \quad 100.00 \quad 69.00 \quad 78.00 \quad 47.00 \quad 41.00 \quad 94.00 \quad 39.00 \quad 48.00 \quad 95.00 \quad 59.00 \quad 8$ 7.00 93.00 78.00 57.00 76.00 56.00 69.00 82.00 93.00 93.00 81.00 70.00 88.00 36.00 78.00 55.00 57.00 73.00 94.00 69.00 80.00 5 4.00 51.00 66.00 68.00 39.00 100.00 72.00 55.00 61.00 54.00 72.00 75.00 38.00 82.00 43.00 96.00 70.00 40.00 99.00 78.00 49.00 6 5.00 60.00 37.00 97.00 69.00 98.00 55.00 74.00 89.00 84.00 83.00 37.00 69.00 67.00 90.00 100.00 68.00 92.00 49.00 93.00 36.00 7 7.00 60.00 38.00 37.00 43.00 98.00 56.00 50.00 64.00 66.00 64.00 46.00 66.00 44.00 74.00 77.00 71.00 45.00 74.00 93.00 63.00 9 6.00 42.00 50.00 46.00 69.00 95.00 64.00 $67.00 \quad 69.00 \quad 75.00 \quad 93.00 \quad 36.00 \quad 64.00 \quad 50.00 \quad 73.00 \quad 61.00 \quad 93.00 \quad 56.00 \quad 74.00 \quad 62.00 \quad 46.00 \quad 40.00 \quad 60.00 \quad 60.0$ 2.00 81.00 45.00 68.00 79.00 84.00 39.00 53.00 43.00 43.00 90.00 92.00 72.00 85.00 60.00 96.00 83.00 44.00 80.00 84.00 68.00 84.00 99.00 90.00 68.00 46.00 49.00 58.00 82.00 78.00 74.00 62.00 85.00 73.00 56.00 47.00 59.00 70.00 38.00 90.00 69.00 71.00 6 7.00 92.00 57.00 35.00 70.00 71.00 92.00 45.00 63.00 59.00 36.00 59.00 38.00 48.00 36.00 70.00 36.00 92.00 36.00 96.00 100.00 8 7.00 67.00 76.00 72.00 43.00 60.00 93.00 77.00 90.00 91.00 91.00 40.00 84.00 94.00 80.00 59.00 86.00 80.00 40.00 86.00 55.00 3 6.00 38.00 100.00 45.00 59.00 39.00 40.00 82.00 95.00 89.00 54.00 79.00 87.00 41.00 73.00 78.00 39.00 84.00 49.00 60.00 89.00 9 3.00 84.00 77.00 70.00 96.00 42.00 42.00 44.00 41.00 38.00 37.00 100.00 79.00 97.00 74.00 54.00 46.00 97.00 87.00 63.00 78.00 6 6.00 58.00 74.00 82.00 80.00 66.00 68.00 100.00 100.00 100.00 97.00 61.00 82.00 96.00 36.00 69.00 39.00 95.00 39.00 85.00 63.00 6 4.00 72.00 43.00 83.00 98.00 93.00 79.00 55.00 59.00 59.00 65.00 41.00 65.00 35.00 94.00 43.00 71.00 58.00 93.00 97.00 39.00 6 1.00 66.00 53.00 72.00 92.00 54.00 100.00 59.00 60.00 58.00 54.00 53.00 89.00 87.00 100.00 97.00 42.00 71.00 96.00 68.00 86.00 4 0.00 48.00 58.00 88.00 41.00 93.00 69.00 52.00 49.00 46.00 39.00 89.00 94.00 40.00 91.00 84.00 93.00 66.00 63.00 53.00 67.00 5 1.00 98.00 79.00 81.00 35.00 60.00 63.00 79.00 81.00 82.00 54.00 45.00 86.00 46.00 46.00 40.00 58.00 36.00 79.00 73.00 68.00 7 5.00 80.00 79.00 78.00 67.00 52.00 51.00

59.00 70.00 65.00 95.00 61.00 97.00 74.00 70.00 73.00 74.00 47.00 92.00 93.00 88.00 9 7.00 41.00 59.00 59.00 64.00 95.00 78.00 57.00 48.00 51.00 35.00 93.00 99.00 70.00 38.00 56.00 92.00 63.00 71.00 87.00 87.00 5 8.00 71.00 62.00 76.00 37.00 100.00 50.00 45.00 59.00 64.00 98.00 62.00 95.00 92.00 39.00 76.00 72.00 95.00 46.00 35.00 71.00 7 5.00 49.00 92.00 91.00 86.00 40.00 55.00 61.00 68.00 63.00 63.00 81.00 35.00 74.00 49.00 50.00 67.00 94.00 85.00 89.00 69.00 42.00 45.00 36.00 90.00 98.00 51.00 85.00 76.00 94.00 87.00 80.00 68.00 68.00 70.00 76.00 44.00 85.00 72.00 94.00 74.00 63.00 5 7.00 39.00 37.00 65.00 94.00 74.00 61.00 57.00 43.00 47.00 62.00 72.00 96.00 47.00 100.00 48.00 56.00 65.00 61.00 92.00 63.00 6 6.00 80.00 42.00 63.00 87.00 67.00 76.00 81.00 72.00 77.00 76.00 89.00 70.00 95.00 61.00 90.00 56.00 64.00 72.00 66.00 76.00 54.00 36.00 92.00 81.00 69.00 94.00 50.00 80.00 90.00 82.00 63.00 93.00 76.00 73.00 43.00 66.00 80.00 86.00 50.00 72.00 35.00 5 9.00 42.00 66.00 98.00 80.00 70.00 56.00 46.00 34.00 36.00 40.00 92.00 59.00 35.00 48.00 64.00 58.00 58.00 47.00 74.00 43.00 6 0.00 80.00 62.00 51.00 60.00 45.00 87.00 83.00 80.00 73.00 100.00 79.00 56.00 76.00 41.00 52.00 95.00 43.00 52.00 44.00 82.00 4 8.00 36.00 38.00 44.00 51.00 74.00 52.00 $63.00 \quad 73.00 \quad 71.00 \quad 76.00 \quad 98.00 \quad 86.00 \quad 94.00 \quad 76.00 \quad 46.00 \quad 88.00 \quad 79.00 \quad 74.00 \quad 44.00 \quad 79.00 \quad 78.00 \quad 79.00 \quad 79.0$ 2.00 70.00 94.00 98.00 51.00 93.00 49.00 43.00 62.00 61.00 78.00 55.00 58.00 98.00 54.00 69.00 39.00 46.00 90.00 57.00 41.00 7 3.00 95.00 43.00 35.00 47.00 99.00 79.00 77.00 90.00 84.00 99.00 74.00 54.00 46.00 56.00 39.00 67.00 93.00 87.00 85.00 70.00 8 8.00 88.00 78.00 80.00 93.00 97.00 79.00 75.00 58.00 62.00 96.00 84.00 99.00 85.00 64.00 91.00 77.00 78.00 79.00 51.00 36.00 5 7.00 91.00 50.00 67.00 61.00 92.00 88.00 $69.00 \quad 77.00 \quad 77.00 \quad 96.00 \quad 48.00 \quad 63.00 \quad 84.00 \quad 92.00 \quad 53.00 \quad 37.00 \quad 67.00 \quad 45.00 \quad 91.00 \quad 63.00 \quad 48.00 \quad 91.00 \quad 63.00 \quad 48.00 \quad 91.00 \quad 63.00 \quad 91.00 \quad 63.00 \quad 91.00 \quad 91.0$ 2.00 76.00 70.00 54.00 43.00 35.00 94.00 48.00 52.00 45.00 42.00 47.00 45.00 90.00 58.00 46.00 49.00 68.00 63.00 38.00 89.00 6 3.00 78.00 38.00 95.00 80.00 67.00 56.00 47.00 53.00 58.00 90.00 96.00 72.00 58.00 79.00 89.00 78.00 73.00 74.00 46.00 85.00 6 4.00 84.00 75.00 86.00 86.00 55.00 80.00 75.00 86.00 79.00 56.00 78.00 89.00 64.00 37.00 50.00 68.00 76.00 93.00 92.00 39.00 6 1.00 66.00 46.00 70.00 80.00 68.00 37.00 76.00 74.00 73.00 54.00 87.00 51.00 86.00 100.00 72.00 71.00 53.00 89.00 86.00 94.00 7 1.00 86.00 82.00 47.00 74.00 70.00 93.00 70.00 89.00 88.00 78.00 51.00 87.00 41.00 57.00 55.00 37.00 100.00 87.00 74.00 54.00 6 8.00 67.00 67.00 58.00 75.00 77.00 41.00 $63.00 \quad 61.00 \quad 54.00 \quad 36.00 \quad 79.00 \quad 45.00 \quad 74.00 \quad 61.00 \quad 97.00 \quad 54.00 \quad 59.00 \quad 84.00 \quad 35.00 \quad 81.00 \quad 38.00 \quad 97.00 \quad 97.0$ 7.00 64.00 87.00 99.00 46.00 73.00 77.00 65.00 59.00 53.00 39.00 39.00 71.00 44.00 48.00 57.00 76.00 86.00 87.00 48.00 69.00 5

3.00 80.00 36.00 43.00 98.00 47.00 83.00 $71.00 \quad 74.00 \quad 64.00 \quad 50.00 \quad 97.00 \quad 99.00 \quad 65.00 \quad 37.00 \quad 98.00 \quad 79.00 \quad 59.00 \quad 60.00 \quad 47.00 \quad 92.00 \quad 8$ 2.00 79.00 41.00 80.00 75.00 83.00 72.00 100.00 100.00 100.00 89.00 39.00 90.00 39.00 77.00 99.00 57.00 48.00 92.00 45.00 97.00 9 1.00 42.00 83.00 80.00 99.00 88.00 92.00 47.00 43.00 41.00 87.00 46.00 69.00 70.00 63.00 64.00 77.00 44.00 97.00 62.00 44.00 4 0.00 43.00 94.00 91.00 74.00 85.00 50.00 $62.00 \quad 70.00 \quad 75.00 \quad 65.00 \quad 63.00 \quad 100.00 \quad 77.00 \quad 88.00 \quad 53.00 \quad 46.00 \quad 85.00 \quad 51.00 \quad 96.00 \quad 41.00 \quad 88.00 \quad 88.$ 3.00 37.00 40.00 100.00 89.00 40.00 87.00 58.00 63.00 65.00 70.00 89.00 51.00 63.00 74.00 65.00 51.00 47.00 70.00 51.00 84.00 9 0.00 93.00 89.00 88.00 48.00 67.00 87.00 52.00 59.00 65.00 84.00 91.00 71.00 93.00 79.00 45.00 54.00 70.00 55.00 52.00 44.00 5 7.00 67.00 41.00 36.00 90.00 46.00 95.00 $68.00 \quad 78.00 \quad 77.00 \quad 80.00 \quad 44.00 \quad 93.00 \quad 59.00 \quad 72.00 \quad 62.00 \quad 65.00 \quad 44.00 \quad 82.00 \quad 67.00 \quad 53.00 \quad 4$ 8.00 92.00 44.00 35.00 64.00 37.00 47.00 73.00 84.00 85.00 44.00 44.00 86.00 59.00 48.00 37.00 56.00 61.00 80.00 53.00 59.00 8 5.00 51.00 86.00 54.00 76.00 79.00 69.00 $63.00 \quad 74.00 \quad 74.00 \quad 63.00 \quad 75.00 \quad 86.00 \quad 74.00 \quad 85.00 \quad 56.00 \quad 98.00 \quad 35.00 \quad 73.00 \quad 35.00 \quad 37.00 \quad 9$ 2.00 78.00 57.00 51.00 69.00 85.00 35.00 $62.00 \quad 74.00 \quad 70.00 \quad 100.00 \quad 52.00 \quad 72.00 \quad 76.00 \quad 68.00 \quad 97.00 \quad 41.00 \quad 93.00 \quad 39.00 \quad 86.00 \quad 99.00 \quad 4$ 4.00 100.00 97.00 92.00 82.00 47.00 88.00 81.00 84.00 82.00 39.00 92.00 68.00 49.00 51.00 72.00 96.00 45.00 74.00 69.00 71.00 8 0.00 46.00 52.00 68.00 38.00 36.00 97.00 $69.00 \quad 77.00 \quad 77.00 \quad 53.00 \quad 74.00 \quad 64.00 \quad 38.00 \quad 98.00 \quad 73.00 \quad 46.00 \quad 47.00 \quad 68.00 \quad 97.00 \quad 100.00 \quad 4$ 5.00 94.00 85.00 69.00 59.00 58.00 58.00 54.00 48.00 52.00 63.00 58.00 51.00 79.00 43.00 79.00 41.00 66.00 45.00 93.00 45.00 8 1.00 40.00 45.00 51.00 72.00 84.00 92.00 $62.00 \quad 67.00 \quad 61.00 \quad 45.00 \quad 40.00 \quad 68.00 \quad 92.00 \quad 98.00 \quad 64.00 \quad 84.00 \quad 67.00 \quad 95.00 \quad 66.00 \quad 51.00 \quad 50.00 \quad 60.00 \quad 60.0$ 7.00 93.00 41.00 36.00 41.00 78.00 78.00 59.00 66.00 67.00 65.00 37.00 58.00 95.00 98.00 54.00 57.00 72.00 44.00 66.00 50.00 7 4.00 85.00 87.00 91.00 81.00 83.00 40.00 73.00 66.00 66.00 58.00 57.00 62.00 81.00 90.00 71.00 38.00 42.00 53.00 71.00 43.00 76.00 95.00 55.00 37.00 95.00 62.00 36.00 $68.00 \quad 70.00 \quad 66.00 \quad 93.00 \quad 39.00 \quad 84.00 \quad 77.00 \quad 99.00 \quad 47.00 \quad 81.00 \quad 95.00 \quad 36.00 \quad 43.00 \quad 64.00 \quad 98.00 \quad 98.0$ 3.00 57.00 35.00 53.00 71.00 92.00 54.00 75.00 73.00 74.00 56.00 35.00 61.00 84.00 47.00 40.00 62.00 86.00 72.00 96.00 88.00 8 5.00 96.00 88.00 49.00 86.00 59.00 80.00 64.00 58.00 51.00 100.00 48.00 45.00 56.00 88.00 94.00 52.00 100.00 79.00 58.00 79.00 38.00 79.00 74.00 90.00 95.00 64.00 56.00 91.00 74.00 76.00 42.00 92.00 92.00 86.00 56.00 96.00 53.00 78.00 61.00 61.00 41.00 4 0.00 42.00 99.00 52.00 67.00 97.00 100.00 78.00 81.00 80.00 70.00 52.00 63.00 42.00 48.00 55.00 81.00 59.00 56.00 96.00 86.00 5 6.00 73.00 97.00 91.00 96.00 43.00 62.00

53.00 61.00 62.00 40.00 46.00 85.00 41.00	85.00	49.00	80.00	81.00	55.00	39.00	37.00	6
6.00 48.00 55.00 54.00 98.00 74.00 38.00 74.00 79.00 75.00 81.00 91.00 68.00 35.00	78.00	78.00	65.00	65.00	73.00	46.00	98.00	6
1.00 68.00 78.00 81.00 59.00 66.00 80.00								
38.00 43.00 43.00 80.00 48.00 63.00 64.00	93.00	81.00	74.00	48.00	81.00	94.00	68.00	5
8.00 91.00 59.00 36.00 80.00 53.00 67.00 85.00 84.00 78.00 79.00 56.00 99.00 47.00	42.00	00 00	E7 00	02 00	07 00	EE 00	100.00	0
8.00 89.00 60.00 98.00 50.00 97.00 53.00	42.00	00.00	37.00	03.00	07.00	33.00	100.00	0
77.00 77.00 73.00 79.00 43.00 87.00 61.00	45.00	59.00	67.00	71.00	52.00	90.00	55.00	8
0.00 55.00 78.00 86.00 54.00 76.00 87.00	10000				5200	2000		
80.00 80.00 72.00 53.00 84.00 65.00 93.00	53.00	51.00	65.00	93.00	37.00	59.00	43.00	8
2.00 71.00 82.00 41.00 68.00 63.00 64.00								
67.00 61.00 68.00 73.00 49.00 43.00 82.00	85.00	97.00	57.00	78.00	68.00	68.00	37.00	3
6.00 43.00 68.00 47.00 52.00 92.00 76.00								
85.00 75.00 68.00 82.00 71.00 93.00 78.00	57.00	86.00	67.00	74.00	93.00	70.00	98.00	7
0.00 68.00 55.00 93.00 42.00 42.00 98.00								_
84.00 84.00 80.00 98.00 73.00 100.00 97.00	60.00	51.00	39.00	80.00	86.00	96.00	100.00	6
3.00 35.00 76.00 35.00 52.00 91.00 66.00 60.00 68.00 72.00 84.00 57.00 37.00 96.00	94.00	77 00	42.00	72 00	70.00	60.00	50.00	1
0.00 89.00 41.00 84.00 66.00 81.00 63.00	94.00	77.00	42.00	73.00	70.00	60.00	30.00	4
58.00 61.00 66.00 48.00 78.00 87.00 99.00	50.00	78.00	81.00	82.00	97.00	45.00	42.00	7
3.00 64.00 73.00 86.00 84.00 39.00 61.00	30.00	70.00	01.00	02.00	37.00	43.00	42.00	,
49.00 52.00 51.00 95.00 65.00 54.00 48.00	58.00	60.00	88.00	40.00	85.00	53.00	36.00	4
3.00 80.00 51.00 66.00 44.00 44.00 92.00								
67.00 80.00 81.00 58.00 36.00 66.00 62.00	94.00	96.00	43.00	61.00	93.00	78.00	89.00	3
8.00 60.00 66.00 35.00 83.00 75.00 80.00								
85.00 90.00 92.00 60.00 46.00 41.00 37.00	75.00	37.00	48.00	89.00	74.00	37.00	37.00	5
3.00 91.00 78.00 69.00 84.00 61.00 85.00								
36.00 53.00 43.00 69.00 55.00 79.00 70.00	90.00	38.00	72.00	90.00	41.00	81.00	82.00	8
2.00 83.00 68.00 40.00 69.00 43.00 59.00								_
67.00 79.00 84.00 98.00 48.00 79.00 53.00	84.00	90.00	93.00	39.00	59.00	42.00	77.00	5
6.00 94.00 48.00 77.00 90.00 57.00 54.00 85.00 91.00 89.00 56.00 81.00 78.00 78.00	00 00	E0 00	<i>C</i>	71 00	57.00	01 00	35.00	1
2.00 86.00 67.00 35.00 62.00 47.00 82.00	99.00	50.00	05.00	/1.00	57.00	91.00	35.00	4
46.00 41.00 43.00 97.00 75.00 48.00 95.00	47.00	62.00	77.00	98.00	66.00	46.00	66.00	7
2.00 57.00 85.00 70.00 96.00 47.00 90.00	17.00	32.00	, , • • • •	20.00	30.00	10.00	30.00	,
2111 27.00 33.00 70.00 17.00 90.00								

[1000 rows x 21 columns]

```
IOPub data rate exceeded.
```

The notebook server will temporarily stop sending output to the client in order to avoid crashing it. To change this limit, set the config variable `--NotebookApp.iopub data rate limit`.

Current values:

NotebookApp.iopub_data_rate_limit=1000000.0 (bytes/sec) NotebookApp.rate_limit_window=3.0 (secs)

Calculated Error ==> 0.00 for K Mean 1000

Calculated Inertia ==> 0.00 for K Mean 1000

----- K Mean Table - Error(MSE) ----->

K-Mean(2), =====> 6828098.10

K-Mean(5), =====> 6319169.43

K-Mean(10), =====> 5856944.16

K-Mean(50), =====> 4560014.86

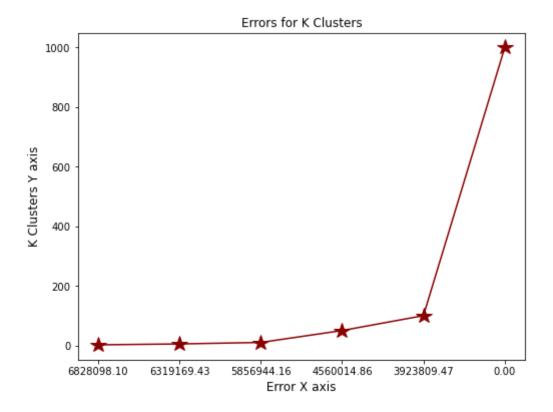
K-Mean(100), =====> 3923809.47

K-Mean(1000), =====> 0.00

Out[10]:

	K	Error
0	2	6828098.10
1	5	6319169.43
2	10	5856944.16
3	50	4560014.86
4	100	3923809.47
5	1000	0.00

Out[11]: [<matplotlib.lines.Line2D at 0x127beb700>]



In []: