

# Kira Plastinina customer behaviour analysis

victoria

2022-03-26

## Analysis on Kira Plastinina to study customer behavior analysis using Unsupervised learning .

### 1. Defining the Question

#### a) Specifying the Question

Kira Plastinina's brand Sales and Marketing team would like to understand their customer's behavior from data that they have collected over the past year.

- Learn the characteristics of customer groups of Kira Plastinina
- Perform clustering stating insights drawn from your analysis and visualizations.
- Upon implementation, provide comparisons between the approaches learned this week i.e. K-Means clustering vs Hierarchical clustering highlighting the strengths and limitations of each approach in the context of your analysis.

#### b) Defining the Metric for Success

To use Unsupervised learning algorithms on the given data to extract useful information on customer behavior.

#### c) Understanding the context

Kira Plastinina is a Russian brand that is sold through a defunct chain of retail stores in Russia, Ukraine, Kazakhstan, Belarus, China, Philippines, and Armenia. The brand's Sales and Marketing team would like to understand their customer's behavior from data that they have collected over the past year.

- The dataset consists of 10 numerical and 8 categorical attributes. The 'Revenue' attribute can be used as the class label.
- "Administrative", "Administrative Duration", "Informational", "Informational Duration", "Product Related" and "Product Related Duration" represents the number of different types of pages visited by the visitor in that session and total time spent in each of these page categories. The values of these features are derived from the URL information of the pages visited by the user and updated in real-time when a user takes an action, e.g. moving from one page to another.
- The "Bounce Rate", "Exit Rate" and "Page Value" features represent the metrics measured by "Google Analytics" for each page in the e-commerce site.

- The value of the “Bounce Rate” feature for a web page refers to the percentage of visitors who enter the site from that page and then leave (“bounce”) without triggering any other requests to the analytics server during that session.
- The value of the “Exit Rate” feature for a specific web page is calculated as for all pageviews to the page, the percentage that was the last in the session.
- The “Page Value” feature represents the average value for a web page that a user visited before completing an e-commerce transaction.
- The “Special Day” feature indicates the closeness of the site visiting time to a specific special day (e.g. Mother’s Day, Valentine’s Day) in which the sessions are more likely to be finalized with the transaction. The value of this attribute is determined by considering the dynamics of e-commerce such as the duration between the order date and delivery date. For example, for Valentine’s day, this value takes a nonzero value between February 2 and February 12, zero before and after this date unless it is close to another special day, and its maximum value of 1 on February 8.
- The dataset also includes the operating system, browser, region, traffic type, visitor type as returning or new visitor, a Boolean value indicating whether the date of the visit is weekend, and month of the year.

#### d) Recording the Experimental Design

1. Define the question, the metric for success, the context, experimental design taken.
2. Read and explore the given dataset.
3. Define the appropriateness of the available data to answer the given question.
4. Find and deal with outliers, anomalies, and missing data within the dataset.
5. Perform univariate, bivariate recording your observations.
6. Perform Clustering.
7. Recommendation and conclusions

#### e) Data Relevance

The link to the dataset [<http://bit.ly/EcommerceCustomersDataset>].

#### Loading libraries

```
library(Hmisc)
```

```
## Loading required package: lattice
```

```
## Loading required package: survival
```

```
## Loading required package: Formula
```

```
## Loading required package: ggplot2
```

```
##
## Attaching package: 'Hmisc'

## The following objects are masked from 'package:base':
##
##      format.pval, units

library(ggcorrplot)

library(moments)

library(corrplot)

## corrplot 0.92 loaded

library(factoextra)

## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa

library(cluster)

library(purrr)
```

## 2. Reading the Data

Loading the dataset

```
customer<-read.csv('http://bit.ly/EcommerceCustomersDataset')
```

## 3. Data Understanding

checking for first 5 rows

```
head(customer)
```

	Administrative	Administrative_Duration	Informational	Informational_Duration
## 1	0	0	0	0
## 2	0	0	0	0
## 3	0	-1	0	-1
## 4	0	0	0	0
## 5	0	0	0	0
## 6	0	0	0	0

	ProductRelated	ProductRelated_Duration	BounceRates	ExitRates	PageValues
## 1	1	0.000000	0.20000000	0.2000000	0
## 2	2	64.000000	0.00000000	0.1000000	0
## 3	1	-1.000000	0.20000000	0.2000000	0

```

## 4          2          2.666667 0.05000000 0.1400000          0
## 5         10         627.500000 0.02000000 0.0500000          0
## 6         19        154.216667 0.01578947 0.0245614          0
##   SpecialDay Month OperatingSystems Browser Region TrafficType
## 1          0   Feb              1      1      1          1
## 2          0   Feb              2      2      1          2
## 3          0   Feb              4      1      9          3
## 4          0   Feb              3      2      2          4
## 5          0   Feb              3      3      1          4
## 6          0   Feb              2      2      1          3
##           VisitorType Weekend Revenue
## 1 Returning_Visitor  FALSE  FALSE
## 2 Returning_Visitor  FALSE  FALSE
## 3 Returning_Visitor  FALSE  FALSE
## 4 Returning_Visitor  FALSE  FALSE
## 5 Returning_Visitor   TRUE  FALSE
## 6 Returning_Visitor  FALSE  FALSE

```

checking for last 5 rows

```
tail(customer)
```

```

##           Administrative Administrative_Duration Informational
## 12325          0              0              1
## 12326          3             145              0
## 12327          0              0              0
## 12328          0              0              0
## 12329          4             75              0
## 12330          0              0              0
##           Informational_Duration ProductRelated ProductRelated_Duration BounceRates
## 12325          0              16          503.000 0.000000000
## 12326          0              53         1783.792 0.007142857
## 12327          0              5          465.750 0.000000000
## 12328          0              6          184.250 0.083333333
## 12329          0             15          346.000 0.000000000
## 12330          0              3          21.250 0.000000000
##           ExitRates PageValues SpecialDay Month OperatingSystems Browser Region
## 12325 0.03764706   0.00000      0   Nov              2      2      1
## 12326 0.02903061  12.24172      0   Dec              4      6      1
## 12327 0.02133333   0.00000      0   Nov              3      2      1
## 12328 0.08666667   0.00000      0   Nov              3      2      1
## 12329 0.02105263   0.00000      0   Nov              2      2      3
## 12330 0.06666667   0.00000      0   Nov              3      2      1
##           TrafficType VisitorType Weekend Revenue
## 12325      1 Returning_Visitor  FALSE  FALSE
## 12326      1 Returning_Visitor   TRUE  FALSE
## 12327      8 Returning_Visitor   TRUE  FALSE
## 12328     13 Returning_Visitor   TRUE  FALSE
## 12329     11 Returning_Visitor  FALSE  FALSE
## 12330      2      New_Visitor   TRUE  FALSE

```

## checking for data types

```
str(customer)
```

```
## 'data.frame': 12330 obs. of 18 variables:
## $ Administrative : int 0 0 0 0 0 0 0 1 0 0 ...
## $ Administrative_Duration: num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ Informational : int 0 0 0 0 0 0 0 0 0 0 ...
## $ Informational_Duration : num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ ProductRelated : int 1 2 1 2 10 19 1 1 2 3 ...
## $ ProductRelated_Duration: num 0 64 -1 2.67 627.5 ...
## $ BounceRates : num 0.2 0 0.2 0.05 0.02 ...
## $ ExitRates : num 0.2 0.1 0.2 0.14 0.05 ...
## $ PageValues : num 0 0 0 0 0 0 0 0 0 0 ...
## $ SpecialDay : num 0 0 0 0 0 0 0.4 0 0.8 0.4 ...
## $ Month : chr "Feb" "Feb" "Feb" "Feb" ...
## $ OperatingSystems : int 1 2 4 3 3 2 2 1 2 2 ...
## $ Browser : int 1 2 1 2 3 2 4 2 2 4 ...
## $ Region : int 1 1 9 2 1 1 3 1 2 1 ...
## $ TrafficType : int 1 2 3 4 4 3 3 5 3 2 ...
## $ VisitorType : chr "Returning_Visitor" "Returning_Visitor" "Returning_Visitor" "Return
## $ Weekend : logi FALSE FALSE FALSE FALSE TRUE FALSE ...
## $ Revenue : logi FALSE FALSE FALSE FALSE FALSE FALSE ...
```

We have integer, logical, character and double datatypes in our dataset

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:Hmisc':
##
## src, summarize

## The following objects are masked from 'package:stats':
##
## filter, lag

## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
```

```
glimpse(customer)
```

```
## Rows: 12,330
## Columns: 18
## $ Administrative <int> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 2~
## $ Administrative_Duration <dbl> 0, 0, -1, 0, 0, 0, -1, -1, 0, 0, 0, 0, 0, 0, 0, 0~
## $ Informational <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0~
```

```
## $ Informational_Duration <dbl> 0, 0, -1, 0, 0, 0, -1, -1, 0, 0, 0, 0, 0, 0, 0~
## $ ProductRelated <int> 1, 2, 1, 2, 10, 19, 1, 1, 2, 3, 3, 16, 7, 6, 2~
## $ ProductRelated_Duration <dbl> 0.000000, 64.000000, -1.000000, 2.666667, 627.~
## $ BounceRates <dbl> 0.200000000, 0.000000000, 0.200000000, 0.05000~
## $ ExitRates <dbl> 0.200000000, 0.100000000, 0.200000000, 0.14000~
## $ PageValues <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0~
## $ SpecialDay <dbl> 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.4, 0.0, 0.8, 0~
## $ Month <chr> "Feb", "Feb", "Feb", "Feb", "Feb", "Feb", "Feb", "Feb~
## $ OperatingSystems <int> 1, 2, 4, 3, 3, 2, 2, 1, 2, 2, 1, 1, 1, 2, 3, 1~
## $ Browser <int> 1, 2, 1, 2, 3, 2, 4, 2, 2, 4, 1, 1, 1, 5, 2, 1~
## $ Region <int> 1, 1, 9, 2, 1, 1, 3, 1, 2, 1, 3, 4, 1, 1, 3, 9~
## $ TrafficType <int> 1, 2, 3, 4, 4, 3, 3, 5, 3, 2, 3, 3, 3, 3, 3, 3~
## $ VisitorType <chr> "Returning_Visitor", "Returning_Visitor", "Ret~
## $ Weekend <lgl> FALSE, FALSE, FALSE, FALSE, TRUE, FALSE, FALSE~
## $ Revenue <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FALS~
```

```
dim(customer)
```

```
## [1] 12330 18
```

the dataset has 12,330 records and 18 variables

## A description of the dataset

```
summary(customer)
```

```
## Administrative      Administrative_Duration Informational
## Min.   : 0.000      Min.   : -1.00      Min.   : 0.000
## 1st Qu.: 0.000      1st Qu.:  0.00      1st Qu.: 0.000
## Median : 1.000      Median :  8.00      Median : 0.000
## Mean   : 2.318      Mean   : 80.91      Mean   : 0.504
## 3rd Qu.: 4.000      3rd Qu.: 93.50      3rd Qu.: 0.000
## Max.   :27.000      Max.   :3398.75     Max.   :24.000
## NA's   :14         NA's   :14         NA's   :14
## Informational_Duration ProductRelated      ProductRelated_Duration
## Min.   : -1.00      Min.   :  0.00      Min.   : -1.0
## 1st Qu.:  0.00      1st Qu.:  7.00      1st Qu.: 185.0
## Median :  0.00      Median : 18.00      Median : 599.8
## Mean   : 34.51      Mean   : 31.76      Mean   : 1196.0
## 3rd Qu.:  0.00      3rd Qu.: 38.00      3rd Qu.: 1466.5
## Max.   :2549.38      Max.   :705.00      Max.   :63973.5
## NA's   :14         NA's   :14         NA's   :14
## BounceRates      ExitRates      PageValues      SpecialDay
## Min.   :0.000000      Min.   :0.00000      Min.   : 0.000      Min.   :0.00000
## 1st Qu.:0.000000      1st Qu.:0.01429      1st Qu.: 0.000      1st Qu.:0.00000
## Median :0.003119      Median :0.02512      Median : 0.000      Median :0.00000
## Mean   :0.022152      Mean   :0.04300      Mean   : 5.889      Mean   :0.06143
## 3rd Qu.:0.016684      3rd Qu.:0.05000      3rd Qu.: 0.000      3rd Qu.:0.00000
## Max.   :0.200000      Max.   :0.20000      Max.   :361.764      Max.   :1.00000
## NA's   :14         NA's   :14
## Month      OperatingSystems      Browser      Region
```

```
## Length:12330      Min.    :1.000      Min.    : 1.000      Min.    :1.000
## Class :character  1st Qu.:2.000      1st Qu.: 2.000      1st Qu.:1.000
## Mode  :character  Median :2.000      Median : 2.000      Median :3.000
##                      Mean  :2.124      Mean  : 2.357      Mean  :3.147
##                      3rd Qu.:3.000      3rd Qu.: 2.000      3rd Qu.:4.000
##                      Max.   :8.000      Max.   :13.000      Max.   :9.000
##
## TrafficType      VisitorType      Weekend      Revenue
## Min.    : 1.00    Length:12330    Mode :logical  Mode :logical
## 1st Qu.: 2.00    Class :character FALSE:9462     FALSE:10422
## Median : 2.00    Mode  :character TRUE :2868      TRUE :1908
## Mean    : 4.07
## 3rd Qu.: 4.00
## Max.    :20.00
##
```

## 4.0 Data Cleaning

### 4.1 Completeness

```
# checking for the sum of missing values in each column

colSums(is.na(customer))
```

```
##      Administrative Administrative_Duration      Informational
##      14                      14                      14
## Informational_Duration      ProductRelated ProductRelated_Duration
##      14                      14                      14
##      BounceRates              ExitRates              PageValues
##      14                      14                      0
##      SpecialDay              Month              OperatingSystems
##      0                      0                      0
##      Browser              Region              TrafficType
##      0                      0                      0
##      VisitorType              Weekend              Revenue
##      0                      0                      0
```

We have missing values in Administrative,Administrative\_Duration,Informational, Informational\_Duration,ProductRelated,ProductRelated\_Duration,BounceRates and ExitRates variables. With all variables having 14 missing values each.

```
# Check the exact rows with missing values
customer[!complete.cases(customer),]
```

```
##      Administrative Administrative_Duration Informational
## 1066              NA                      NA              NA
## 1133              NA                      NA              NA
## 1134              NA                      NA              NA
## 1135              NA                      NA              NA
## 1136              NA                      NA              NA
## 1137              NA                      NA              NA
## 1474              NA                      NA              NA
```

##	1475	NA	NA	NA				
##	1476	NA	NA	NA				
##	1477	NA	NA	NA				
##	2038	NA	NA	NA				
##	2039	NA	NA	NA				
##	2040	NA	NA	NA				
##	2754	NA	NA	NA				
##	Informational_Duration ProductRelated ProductRelated_Duration BounceRates							
##	1066	NA	NA	NA				
##	1133	NA	NA	NA				
##	1134	NA	NA	NA				
##	1135	NA	NA	NA				
##	1136	NA	NA	NA				
##	1137	NA	NA	NA				
##	1474	NA	NA	NA				
##	1475	NA	NA	NA				
##	1476	NA	NA	NA				
##	1477	NA	NA	NA				
##	2038	NA	NA	NA				
##	2039	NA	NA	NA				
##	2040	NA	NA	NA				
##	2754	NA	NA	NA				
##	ExitRates PageValues SpecialDay Month OperatingSystems Browser Region							
##	1066	NA	0	0	Mar	2	2	2
##	1133	NA	0	0	Mar	1	1	1
##	1134	NA	0	0	Mar	2	4	5
##	1135	NA	0	0	Mar	2	2	1
##	1136	NA	0	0	Mar	3	2	1
##	1137	NA	0	0	Mar	2	2	1
##	1474	NA	0	0	Mar	2	2	1
##	1475	NA	0	0	Mar	1	1	6
##	1476	NA	0	0	Mar	2	2	3
##	1477	NA	0	0	Mar	1	1	2
##	2038	NA	0	0	Mar	3	2	4
##	2039	NA	0	0	Mar	2	2	1
##	2040	NA	0	0	Mar	3	2	4
##	2754	NA	0	0	May	2	2	4
##	TrafficType VisitorType Weekend Revenue							
##	1066	1	Returning_Visitor	FALSE	FALSE			
##	1133	2	Returning_Visitor	FALSE	FALSE			
##	1134	1	Returning_Visitor	FALSE	FALSE			
##	1135	2	Returning_Visitor	FALSE	FALSE			
##	1136	1	Returning_Visitor	FALSE	FALSE			
##	1137	2	Returning_Visitor	FALSE	FALSE			
##	1474	1	Returning_Visitor	TRUE	FALSE			
##	1475	1	Returning_Visitor	TRUE	FALSE			
##	1476	1	Returning_Visitor	FALSE	FALSE			
##	1477	3	Returning_Visitor	FALSE	FALSE			
##	2038	1	Returning_Visitor	FALSE	FALSE			
##	2039	2	Returning_Visitor	FALSE	FALSE			
##	2040	15	Returning_Visitor	TRUE	FALSE			
##	2754	13	Returning_Visitor	FALSE	FALSE			

It is realized that missing values are in the same rows



```
customer1 <- na.omit(customer)
```

```
# Confirm changes made
colSums(is.na(customer1))
```

```
##      Administrative Administrative_Duration      Informational
##      0              0              0
## Informational_Duration      ProductRelated ProductRelated_Duration
##      0              0              0
##      BounceRates      ExitRates      PageValues
##      0              0              0
##      SpecialDay      Month      OperatingSystems
##      0              0              0
##      Browser      Region      TrafficType
##      0              0              0
##      VisitorType      Weekend      Revenue
##      0              0              0
```

we have lesser records since the missing values have been cleared out .

## 4.2 Consistency

```
# checking for duplicates
sum(duplicated(customer1))
```

```
## [1] 117
```

We have 117 duplicates

```
# Dropping the with duplicates
customer.df <- customer1[!duplicated(customer1),]
# Let's confirm the changes made
sum(duplicated(customer.df))
```

```
## [1] 0
```

After dropping there are no more duplicates

```
unique(customer.df$Administrative)
```

```
## [1] 0 1 2 4 12 3 10 6 5 9 8 16 13 11 7 18 14 17 19 15 24 22 21 20 23
## [26] 27 26
```

```
unique(customer.df$Administrative_Duration)
```

##	[1]	0.000000	-1.000000	53.000000	64.600000	6.000000	18.000000
##	[7]	9.000000	56.000000	16.000000	279.416667	87.833333	44.000000
##	[13]	1005.666667	36.000000	18.333333	61.000000	31.000000	58.500000
##	[19]	326.250000	22.000000	462.000000	20.000000	111.500000	103.625000
##	[25]	19.000000	58.000000	9.500000	41.300000	87.000000	293.778205
##	[31]	47.000000	1226.000000	52.000000	112.960784	94.000000	32.000000
##	[37]	218.000000	119.000000	281.000000	40.000000	107.000000	49.000000
##	[43]	57.000000	2.000000	123.000000	118.000000	38.000000	54.000000
##	[49]	993.000000	74.250000	666.833333	73.000000	154.000000	49.333333
##	[55]	118.500000	153.500000	72.250000	24.500000	155.631313	21.333333
##	[61]	191.000000	96.500000	13.000000	1388.750000	51.000000	158.000000
##	[67]	10.000000	28.000000	27.000000	15.000000	1249.809524	390.000000
##	[73]	215.523809	11.000000	8.000000	171.250000	227.333333	86.000000
##	[79]	7.000000	186.976191	138.000000	374.000000	14.000000	96.000000
##	[85]	615.250000	111.000000	147.000000	53.166667	48.500000	21.000000
##	[91]	115.333333	32.285714	277.750000	241.166667	64.000000	25.500000
##	[97]	130.000000	79.000000	84.000000	41.000000	618.000000	11.888889
##	[103]	51.500000	269.000000	44.500000	3.000000	90.000000	102.500000
##	[109]	17.000000	213.321429	71.500000	304.000000	151.000000	199.750000
##	[115]	13.500000	191.200000	197.000000	115.125000	312.750000	724.000000
##	[121]	237.500000	66.333333	190.000000	174.000000	227.000000	23.000000
##	[127]	26.000000	74.000000	45.000000	112.000000	37.000000	5.500000
##	[133]	50.000000	113.500000	279.000000	228.000000	55.000000	112.500000
##	[139]	8.500000	319.500000	97.500000	182.083333	97.000000	34.833333
##	[145]	77.000000	614.166667	315.966667	47.666667	30.000000	25.000000
##	[151]	359.000000	59.000000	1347.750000	280.950000	100.300000	53.380952
##	[157]	416.392857	573.500000	465.833333	97.642857	148.000000	97.611111
##	[163]	34.000000	37.500000	22.500000	99.333333	117.000000	16.666667
##	[169]	81.500000	38.500000	156.250000	67.500000	311.409091	145.000000
##	[175]	43.000000	120.000000	263.000000	72.944444	18.500000	87.333333
##	[181]	99.605882	63.000000	68.000000	68.500000	135.000000	176.250000
##	[187]	315.144986	523.214286	76.000000	118.666667	174.500000	201.166667
##	[193]	374.875000	92.833333	4.000000	102.000000	187.000000	185.000000
##	[199]	166.200000	754.109524	24.000000	17.348485	125.500000	42.000000
##	[205]	95.000000	56.500000	134.928571	20.500000	11.333333	504.000000
##	[211]	19.666667	76.333333	45.444444	125.166667	72.666667	100.916667
##	[217]	60.000000	49.500000	466.500000	175.230769	96.857143	402.185714
##	[223]	178.200000	156.500000	306.000000	72.000000	202.000000	359.300000
##	[229]	39.000000	41.500000	95.500000	48.666667	294.700000	125.000000
##	[235]	12.000000	10.500000	99.000000	171.083333	159.500000	5.000000
##	[241]	206.000000	262.250000	62.500000	937.174603	48.000000	437.391304
##	[247]	159.333333	32.500000	212.741667	16.333333	140.500000	88.000000
##	[253]	110.409091	316.140503	140.000000	301.700000	421.000000	115.000000
##	[259]	208.000000	193.000000	87.500000	42.181818	132.500000	163.666667
##	[265]	83.000000	117.833333	55.500000	160.500000	64.333333	73.333333
##	[271]	215.233333	201.500000	492.416667	146.250000	156.269048	13.619048
##	[277]	352.500000	92.750000	168.000000	179.500000	274.500000	64.500000
##	[283]	171.666667	311.916667	98.500000	867.922619	106.750000	241.666667
##	[289]	35.000000	33.000000	152.500000	828.052632	162.000000	539.500000
##	[295]	120.500000	285.011905	198.500000	224.000000	162.500000	77.500000
##	[301]	192.500000	148.800000	1521.000000	112.266667	150.000000	167.500000
##	[307]	345.000000	267.166667	1373.500000	29.000000	29.500000	79.333333
##	[313]	139.000000	54.500000	272.500000	169.000000	59.250000	175.000000
##	[319]	159.000000	247.333333	78.333333	267.500000	114.750000	164.500000

##	[325]	387.500000	320.500000	122.000000	308.000000	72.500000	233.083333
##	[331]	315.000000	43.500000	160.095238	177.166667	196.000000	231.000000
##	[337]	1011.361111	464.000000	80.428571	61.500000	243.000000	210.666667
##	[343]	156.142857	282.000000	512.833333	73.500000	184.688889	75.166667
##	[349]	302.000000	117.333333	204.083333	98.000000	600.423077	132.000000
##	[355]	152.833333	710.333333	83.500000	848.142857	130.833333	281.630952
##	[361]	160.000000	31.333333	81.000000	91.000000	85.500000	36.333333
##	[367]	110.250000	155.500000	487.500000	376.800000	985.500000	606.000000
##	[373]	1640.590909	228.027778	136.555556	1.333333	310.000000	1417.500000
##	[379]	960.000000	106.000000	91.888889	139.500000	178.000000	180.000000
##	[385]	107.333333	211.000000	69.000000	183.250000	613.666667	11.923077
##	[391]	1499.571429	1223.000000	206.333333	67.000000	242.000000	217.833333
##	[397]	136.666667	739.209195	91.833333	89.750000	165.500000	134.000000
##	[403]	67.071429	17.500000	69.333333	85.000000	103.000000	69.500000
##	[409]	171.000000	64.142857	143.000000	221.000000	124.000000	75.000000
##	[415]	219.000000	60.833333	182.648052	154.291667	108.200000	1559.750000
##	[421]	249.166667	65.000000	143.166667	102.533333	197.800000	31.500000
##	[427]	81.250000	149.250000	172.200000	523.916667	377.833333	129.416667
##	[433]	298.666667	876.233333	129.750000	408.200000	24.428571	52.333333
##	[439]	382.833333	27.500000	475.000000	210.000000	46.000000	546.000000
##	[445]	47.500000	48.333333	28.500000	250.333333	77.333333	63.333333
##	[451]	108.666667	230.166667	79.750000	2047.234848	14.500000	11.428571
##	[457]	348.654762	187.833333	184.333333	66.000000	412.000000	1130.502941
##	[463]	132.466667	82.000000	236.000000	158.333333	170.000000	217.666667
##	[469]	699.166667	227.532692	78.000000	4.750000	101.333333	190.285714
##	[475]	15.666667	183.000000	248.500000	146.000000	274.333333	1155.666667
##	[481]	355.500000	352.000000	162.050000	45.833333	136.000000	275.000000
##	[487]	161.000000	206.666667	238.375000	213.391667	156.000000	84.250000
##	[493]	377.512820	137.000000	155.000000	42.600000	62.000000	55.750000
##	[499]	429.333333	167.000000	110.000000	485.333333	100.000000	70.500000
##	[505]	1283.000000	63.500000	24.600000	22.833333	187.277778	98.250000
##	[511]	89.000000	31.600000	648.000000	18.750000	211.500000	494.166667
##	[517]	511.500000	58.066667	387.600000	143.833333	11.500000	141.000000
##	[523]	57.062500	12.833333	179.607143	135.650000	45.333333	39.600000
##	[529]	309.000000	456.988095	78.500000	99.500000	333.000000	825.000000
##	[535]	203.833333	195.316667	74.333333	80.666667	156.716667	172.000000
##	[541]	324.300000	413.500000	75.050000	354.833333	169.500000	104.000000
##	[547]	765.666667	214.882353	15.500000	702.000000	188.000000	352.242857
##	[553]	73.750000	221.500000	82.500000	92.000000	183.500000	139.681818
##	[559]	50.500000	124.125000	55.325758	241.766667	145.500000	28.666667
##	[565]	253.000000	220.333333	445.333333	654.775000	35.125000	222.500000
##	[571]	200.833333	33.500000	243.666667	148.500000	129.500000	223.000000
##	[577]	46.500000	254.000000	85.666667	154.500000	598.000000	226.954545
##	[583]	97.882353	515.600000	397.500000	16.500000	22.750000	238.466667
##	[589]	175.933333	675.333333	129.000000	144.000000	89.500000	91.750000
##	[595]	296.000000	269.166667	168.750000	430.833333	150.500000	724.500000
##	[601]	7.500000	130.500000	228.125000	133.166667	357.250000	418.666667
##	[607]	335.119048	329.297619	91.984848	153.275000	527.000000	135.500000
##	[613]	133.500000	186.100000	43.400000	32.666667	86.200000	299.000000
##	[619]	295.694056	177.000000	187.266667	587.000000	76.500000	161.764411
##	[625]	36.500000	80.000000	75.846154	240.200000	29.333333	152.875000
##	[631]	76.750000	353.000000	275.910444	104.500000	43.100000	92.250000
##	[637]	135.916667	119.150000	107.533333	61.166667	39.500000	217.000000
##	[643]	124.500000	277.666667	398.700000	147.750000	149.500000	42.333333

##	[649]	200.500000	424.166667	65.166667	220.000000	389.750000	118.700000
##	[655]	281.750000	513.553571	131.750000	4.500000	181.166667	1687.500000
##	[661]	431.000000	210.855556	58.333333	92.500000	70.000000	427.000000
##	[667]	662.535714	626.000000	109.000000	131.333333	128.571429	230.333333
##	[673]	245.333333	337.000000	117.500000	105.500000	109.500000	47.166667
##	[679]	71.300000	750.750000	121.666667	70.833333	86.083333	252.500000
##	[685]	126.000000	318.000000	331.166667	203.471429	189.000000	82.166667
##	[691]	101.500000	704.869925	196.138592	114.250000	432.583333	99.666667
##	[697]	364.500000	345.833333	248.666667	106.321429	262.000000	166.000000
##	[703]	230.106944	118.454545	156.833333	290.333333	113.000000	199.000000
##	[709]	26.500000	535.750000	72.425000	450.400000	166.931818	198.400000
##	[715]	135.666667	95.325000	40.166667	299.603175	454.000000	103.500000
##	[721]	45.500000	114.000000	61.666667	79.166667	138.500000	155.600000
##	[727]	259.166667	86.500000	299.083333	376.500000	230.250000	205.500000
##	[733]	41.333333	25.750000	173.083333	620.952381	65.833333	204.500000
##	[739]	498.900000	101.000000	1541.500000	197.166667	66.772727	105.000000
##	[745]	19.500000	196.666667	162.107143	66.166667	128.500000	290.666667
##	[751]	57.500000	102.067692	578.500000	246.250000	164.000000	35.666667
##	[757]	168.166667	331.300000	548.314286	3.500000	65.500000	228.916667
##	[763]	249.000000	236.408333	261.500000	166.500000	232.900000	176.000000
##	[769]	56.666667	89.466667	149.933333	53.250000	497.750000	149.000000
##	[775]	316.800000	49.750000	74.500000	233.500000	149.666667	314.500000
##	[781]	10.666667	106.500000	537.000000	211.964286	106.828571	161.708333
##	[787]	50.333333	766.833333	1215.333333	148.666667	152.333333	405.258333
##	[793]	294.000000	637.938889	84.550000	381.866667	236.833333	244.500000
##	[799]	180.500000	592.001401	335.000000	269.800000	235.250000	277.166667
##	[805]	25.083333	1629.333333	505.000000	108.500000	118.903226	192.555556
##	[811]	267.000000	54.833333	239.833333	210.500000	36.400000	69.166667
##	[817]	509.666667	1751.047619	827.200000	93.000000	260.000000	566.000000
##	[823]	85.529167	186.500000	361.476190	794.883333	89.900000	204.750000
##	[829]	91.500000	423.500000	174.475000	418.333333	90.875000	110.500000
##	[835]	144.500000	207.866667	656.000000	319.000000	108.000000	105.564423
##	[841]	30.500000	341.428571	99.166667	436.000000	102.666667	195.875000
##	[847]	255.000000	37.333333	59.500000	336.500000	168.429198	11.666667
##	[853]	44.166667	41.375000	567.357143	316.550000	59.833333	100.096537
##	[859]	160.333333	42.166667	32.100000	133.000000	32.333333	71.000000
##	[865]	75.600000	120.666667	247.136364	256.000000	76.166667	160.230769
##	[871]	338.000000	844.000000	13.333333	324.500000	241.000000	284.850000
##	[877]	64.750000	108.916667	25.571429	322.500000	178.500000	176.666667
##	[883]	418.000000	12.500000	66.966667	374.369048	54.636364	44.333333
##	[889]	738.000000	468.366667	283.666667	53.500000	278.833333	21.500000
##	[895]	250.857143	545.000000	37.300000	237.833333	1764.000000	63.666667
##	[901]	312.000000	93.500000	251.866667	121.000000	167.166667	142.700000
##	[907]	276.866667	1321.250000	190.583333	131.000000	397.833333	251.000000
##	[913]	203.000000	232.400000	22.333333	116.000000	90.500000	159.716667
##	[919]	318.666667	5.384615	147.500000	131.200000	386.000000	26.666667
##	[925]	44.750000	225.000000	368.833333	68.666667	839.000000	402.500000
##	[931]	112.333333	245.466667	86.166667	87.250000	50.666667	294.500000
##	[937]	362.000000	157.000000	820.800000	316.833333	235.000000	367.000000
##	[943]	51.019231	165.000000	38.166667	375.278571	96.250000	40.666667
##	[949]	38.333333	114.666667	142.300000	339.166667	219.250000	78.300000
##	[955]	15.600000	259.833333	389.000000	122.500000	127.000000	84.500000
##	[961]	35.750000	388.300000	245.083333	214.000000	52.500000	142.500000
##	[967]	543.000000	9.166667	245.166667	246.500000	156.900000	74.214286

##	[973]	210.777778	92.166667	90.511111	641.535714	815.766667	128.166667
##	[979]	203.500000	1271.500000	313.033333	61.196429	602.000000	157.058333
##	[985]	279.500000	334.750000	282.500000	46.333333	321.666667	84.666667
##	[991]	253.900000	105.750000	512.000000	975.750000	143.800000	129.666667
##	[997]	323.550000	153.250000	1474.500000	19.333333	464.150000	523.333333
##	[1003]	173.000000	31.100000	299.633333	433.100000	35.333333	140.333333
##	[1009]	200.000000	270.000000	104.985714	310.857143	732.250000	126.500000
##	[1015]	216.750000	321.600000	666.000000	332.666667	661.000000	259.000000
##	[1021]	591.663636	228.833333	370.275000	34.400000	200.333333	214.333333
##	[1027]	208.400000	779.355662	64.088235	160.583333	262.500000	244.000000
##	[1033]	293.000000	340.611111	137.075000	157.500000	726.366667	43.666667
##	[1039]	1261.916667	123.500000	71.666667	770.600000	186.866667	82.666667
##	[1045]	236.900000	194.000000	424.000000	134.500000	253.750000	161.250000
##	[1051]	471.500000	313.090909	137.566667	47.071429	273.000000	405.166667
##	[1057]	25.400000	406.416667	6.400000	179.000000	271.333333	280.000000
##	[1063]	674.000000	40.500000	820.000000	255.866667	209.000000	1951.279141
##	[1069]	318.720238	98.944444	215.500000	365.111111	84.333333	377.000000
##	[1075]	98.833333	633.500000	47.333333	109.833333	738.400000	178.166667
##	[1081]	173.250000	281.333333	515.000000	195.000000	1064.000000	208.266667
##	[1087]	334.600000	115.111111	51.666667	78.400000	50.750000	99.291667
##	[1093]	624.200000	1279.500000	49.183333	228.500000	268.166667	147.790769
##	[1099]	141.761905	82.234848	213.433333	313.866667	25.200000	152.000000
##	[1105]	40.250000	43.750000	182.000000	248.800000	189.221515	89.800000
##	[1111]	113.666667	989.900000	67.666667	298.000000	75.892857	127.700000
##	[1117]	98.666667	141.500000	149.916667	26.416667	48.833333	88.628571
##	[1123]	81.222222	91.333333	181.375000	561.000000	114.333333	147.333333
##	[1129]	394.100000	56.200000	104.113636	1023.000000	341.400000	117.023809
##	[1135]	449.250000	121.166667	233.000000	224.583333	268.000000	46.400000
##	[1141]	672.095238	604.500000	188.166667	2156.166667	475.750000	79.100000
##	[1147]	595.100000	212.000000	27.533333	133.583333	136.333333	417.250000
##	[1153]	114.500000	124.861111	236.250000	57.833333	440.104167	290.860369
##	[1159]	683.000000	115.600000	170.833333	42.500000	105.428571	197.666667
##	[1165]	27.583333	81.666667	470.000000	120.250000	156.800000	417.000000
##	[1171]	285.800000	1172.000000	237.250000	611.047059	586.648019	363.333333
##	[1177]	154.791667	183.708333	255.716667	194.036232	201.333333	134.750000
##	[1183]	310.633333	699.000000	248.000000	363.875000	38.305556	130.333333
##	[1189]	131.995614	147.666667	249.500000	356.000000	169.566667	46.272727
##	[1195]	2629.253968	79.500000	70.666667	176.500000	286.833333	134.766667
##	[1201]	187.166667	505.500000	703.500000	325.333333	190.250000	189.214286
##	[1207]	86.600000	238.400000	200.583333	261.000000	204.387500	181.000000
##	[1213]	64.250000	215.200000	62.142857	30.250000	181.333333	183.750000
##	[1219]	63.600000	443.291667	32.750000	200.523809	138.333333	63.166667
##	[1225]	69.833333	313.000000	292.190476	52.400000	132.666667	250.000000
##	[1231]	771.928571	295.666667	184.000000	154.833333	200.222222	33.666667
##	[1237]	24.166667	194.416667	453.000000	101.666667	316.500000	309.250000
##	[1243]	35.500000	85.928571	40.200000	63.400000	618.066667	152.600000
##	[1249]	56.300000	39.200000	89.600000	104.300000	204.200000	180.133333
##	[1255]	41.200000	101.800000	26.200000	79.600000	227.900000	47.400000
##	[1261]	196.600000	33.200000	55.400000	1222.400000	13.733333	23.200000
##	[1267]	150.700000	66.600000	92.600000	1013.056909	48.400000	57.400000
##	[1273]	297.600000	56.733333	38.600000	545.650000	94.600000	28.800000
##	[1279]	46.520000	41.400000	82.140000	397.700000	932.797143	56.800000
##	[1285]	89.980000	234.566667	196.880000	60.200000	271.000000	85.200000
##	[1291]	62.466667	164.066667	189.264615	5.066667	94.700000	45.400000

##	[1297]	38.800000	82.600000	850.000000	585.800000	491.666667	340.900000
##	[1303]	112.800000	698.133333	32.200000	16.600000	54.200000	455.066667
##	[1309]	601.900000	136.500000	49.300000	278.666667	118.800000	17.100000
##	[1315]	268.080000	22.200000	68.400000	468.100663	43.200000	45.033333
##	[1321]	80.600000	137.900000	9.600000	161.200000	301.000000	45.200000
##	[1327]	167.400000	19.400000	157.400000	459.500000	42.200000	69.600000
##	[1333]	66.550000	103.733333	60.400000	423.600000	63.683333	96.600000
##	[1339]	628.366667	13.100000	58.400000	61.633333	68.800000	11.600000
##	[1345]	34.180952	36.300000	498.600000	194.400000	28.650000	66.500000
##	[1351]	194.900000	44.666667	83.600000	79.200000	35.700000	59.790000
##	[1357]	15.200000	96.400000	66.400000	28.733333	661.766667	53.400000
##	[1363]	23.800000	23.960000	358.258333	31.200000	199.850000	59.900000
##	[1369]	265.043333	68.733333	219.933333	70.600000	166.700000	54.400000
##	[1375]	152.100000	106.800000	275.084444	17.200000	189.483333	33.600000
##	[1381]	304.600000	102.800000	353.400000	151.333333	36.200000	208.513333
##	[1387]	175.866667	1672.033333	187.100000	133.350000	570.266667	238.683809
##	[1393]	144.833333	40.800000	122.200000	68.600000	242.633333	17.945455
##	[1399]	80.500000	158.200000	180.800000	2720.500000	154.600000	10.300000
##	[1405]	124.600000	139.366667	12.066667	45.800000	133.800000	21.200000
##	[1411]	115.400000	28.200000	40.900000	275.333333	35.200000	246.533333
##	[1417]	245.800000	391.683333	43.466667	452.500000	123.200000	35.300000
##	[1423]	96.800000	71.700000	631.107317	94.840000	196.150000	215.600000
##	[1429]	88.280000	271.750000	8.100000	195.400000	71.333333	25.600000
##	[1435]	103.900000	603.800000	61.400000	134.100000	65.400000	456.233333
##	[1441]	95.300000	15.800000	30.866667	498.980965	84.345455	32.700000
##	[1447]	438.800000	181.816667	49.400000	141.058333	112.270000	227.480000
##	[1453]	37.200000	267.800000	107.800000	232.340476	50.946154	603.900000
##	[1459]	168.200000	18.200000	239.600000	172.327778	39.300000	214.600000
##	[1465]	154.200000	165.133333	245.733333	169.033333	176.600000	81.600000
##	[1471]	140.066667	252.667619	43.325000	135.400000	68.014286	362.300000
##	[1477]	90.700000	760.900000	67.400000	1566.600000	59.200000	50.150000
##	[1483]	166.460000	241.350000	48.832434	60.166667	131.400000	62.900000
##	[1489]	177.600000	103.800000	230.100000	228.350000	381.500000	188.500000
##	[1495]	34.200000	160.200000	29.200000	59.860000	399.800000	344.200000
##	[1501]	108.533333	408.600000	91.600000	77.100000	1013.886667	117.666667
##	[1507]	401.150000	206.250000	552.200000	65.600000	47.300000	57.600000
##	[1513]	116.972222	167.450000	100.100000	69.400000	288.000000	187.775000
##	[1519]	57.300000	40.600000	91.200000	102.866667	110.786667	14.200000
##	[1525]	211.050000	700.633333	12.600000	102.600000	139.200000	134.360000
##	[1531]	65.900000	69.233333	72.600000	1220.914286	754.533333	1013.171429
##	[1537]	102.300000	79.220000	51.400000	92.571429	112.900000	67.200000
##	[1543]	69.966667	78.633333	186.666667	145.200000	106.180000	140.600000
##	[1549]	38.040000	440.281395	216.230000	154.400000	153.000000	37.600000
##	[1555]	82.533333	227.600000	273.660000	32.600000	381.800000	423.100000
##	[1561]	104.654545	211.800000	54.842857	7.100000	265.433333	38.200000
##	[1567]	197.400000	107.040000	209.500000	115.700000	255.516667	108.700000
##	[1573]	234.300000	44.016667	116.960714	142.200000	501.483333	207.092857
##	[1579]	2407.423810	60.366667	78.513333	117.320000	67.600000	137.500000
##	[1585]	89.250000	1104.200000	56.400000	73.600000	279.266667	318.266667
##	[1591]	217.649123	317.914286	30.300000	289.000000	33.466667	50.373333
##	[1597]	50.933333	397.264444	105.466667	306.460000	67.866667	60.800000
##	[1603]	779.000000	778.400000	28.057143	76.600000	368.400000	54.333333
##	[1609]	87.800000	58.600000	190.400000	213.600000	293.633333	54.933333
##	[1615]	27.200000	322.350000	96.186667	254.253245	169.200000	86.950000

## [1621]	49.800000	298.200000	275.100000	118.900000	169.883333	206.066667
## [1627]	264.900000	101.083333	333.540000	569.825000	48.800000	304.583333
## [1633]	39.800000	81.400000	11.100000	53.850000	27.466667	419.000000
## [1639]	61.480000	268.950000	178.520000	175.200000	228.720000	146.533333
## [1645]	101.142857	201.840000	129.360000	142.350000	55.333333	103.933333
## [1651]	157.888333	82.466667	94.800000	115.200000	296.860000	361.600000
## [1657]	61.080000	168.906667	42.400000	34.442424	99.800000	20.200000
## [1663]	40.550000	471.626667	241.600000	117.800000	179.378571	98.600000
## [1669]	29.440000	158.670450	24.200000	356.600000	249.800000	315.845679
## [1675]	15.100000	19.800000	143.066667	65.680000	140.900000	12.100000
## [1681]	98.733333	64.400000	184.733333	75.663492	50.400000	123.400000
## [1687]	432.200000	251.309091	113.100000	38.300000	43.733333	131.340000
## [1693]	385.566667	59.533333	119.400000	82.957143	89.333333	66.266667
## [1699]	98.466667	667.250000	206.030000	109.800000	149.031609	86.100000
## [1705]	903.700000	236.800000	24.133333	82.011111	416.200000	125.453333
## [1711]	319.400000	114.200000	165.200000	191.400000	484.461579	419.179525
## [1717]	149.950000	36.866667	202.133333	34.300000	70.933333	243.650000
## [1723]	170.150000	30.200000	49.200000	98.100000	706.556667	88.600000
## [1729]	84.600000	85.100000	91.900000	99.200000	175.100000	80.066667
## [1735]	173.966667	174.300000	415.550000	59.400000	115.800000	399.200000
## [1741]	106.900000	217.866667	212.600000	85.482234	125.733333	154.022917
## [1747]	132.920000	260.736111	162.625000	287.500000	189.800000	129.900000
## [1753]	50.066667	31.700000	159.700000	246.600000	173.411551	217.400000
## [1759]	608.140000	444.700000	376.333333	294.658788	47.200000	314.505000
## [1765]	140.166667	515.613333	19.200000	168.700000	178.920000	46.300000
## [1771]	209.200000	103.600000	182.400000	190.550000	161.107692	308.585965
## [1777]	1660.300000	913.522222	180.066667	74.400000	73.958333	177.200000
## [1783]	94.866667	33.400000	327.235714	16.200000	54.800000	341.816667
## [1789]	240.800000	199.456273	666.200000	446.383333	106.600000	221.727917
## [1795]	141.633333	391.300000	73.300000	178.300000	176.913333	26.700000
## [1801]	178.650000	72.295238	351.083333	113.800000	143.280000	141.140000
## [1807]	135.283333	519.000000	29.533333	216.600000	79.400000	122.517143
## [1813]	69.800000	202.100000	85.166667	55.050000	21.100000	430.157017
## [1819]	71.600000	53.300000	175.480000	287.700000	150.133333	83.400000
## [1825]	140.550000	449.816667	123.433333	78.600000	52.700000	76.150000
## [1831]	81.366667	61.650000	187.700000	579.133333	20.066667	79.700000
## [1837]	161.668571	285.200000	113.700000	215.244507	29.866667	128.800000
## [1843]	213.000000	337.580000	69.900000	93.800000	214.783333	420.100000
## [1849]	156.200000	264.133333	255.915929	230.394836	734.633333	104.973333
## [1855]	132.050000	224.800000	242.800000	91.650000	86.061905	231.900000
## [1861]	151.800000	1305.114737	109.400000	76.800000	120.600000	110.566667
## [1867]	146.600000	147.400000	47.800000	213.972222	1427.025000	295.200000
## [1873]	196.550000	19.100000	32.066667	253.150000	275.740000	327.400000
## [1879]	183.600000	101.200000	28.583333	92.101515	279.280000	410.550000
## [1885]	1097.016667	253.066667	102.200000	96.160606	176.680000	54.900000
## [1891]	150.200000	257.400000	10.771429	88.700000	251.814286	119.800000
## [1897]	287.000000	35.400000	344.100000	119.029508	62.600000	78.900000
## [1903]	19.600000	88.190476	104.200000	90.600000	456.900000	428.022222
## [1909]	205.700000	39.700000	221.330000	46.900000	124.426667	659.506667
## [1915]	135.100000	360.916667	445.350000	219.475000	168.850000	92.100000
## [1921]	299.450000	337.600000	120.900000	61.266667	162.200000	314.610714
## [1927]	97.800000	549.000000	70.400000	52.466667	593.466667	44.200000
## [1933]	398.000000	54.600000	128.114286	287.200000	43.950000	66.200000
## [1939]	51.480000	345.016667	218.800000	373.620000	193.400000	318.200000

## [1945]	225.220000	141.600000	240.100000	109.200000	346.000000	60.733333
## [1951]	114.080000	91.316667	170.926357	146.300000	35.800000	153.566667
## [1957]	174.600000	178.799550	128.000000	390.870000	291.235714	60.500000
## [1963]	218.966667	101.851111	405.550000	75.400000	85.966667	192.433333
## [1969]	136.100000	473.166667	341.600000	79.933333	202.400000	134.373333
## [1975]	93.600000	168.400000	109.600000	111.930000	180.900000	337.900000
## [1981]	130.300000	48.350000	177.880000	234.433333	380.433333	102.400000
## [1987]	149.200000	382.346667	266.700000	504.300000	250.800000	256.100000
## [1993]	312.800000	259.183333	301.077778	106.300000	116.200000	39.400000
## [1999]	81.200000	98.850000	30.700000	831.622222	292.300000	335.800000
## [2005]	203.280000	302.900000	353.700000	105.266667	185.800000	35.100000
## [2011]	145.883333	116.800000	174.750000	146.900000	108.800000	433.800000
## [2017]	95.600000	204.100000	400.650000	118.550000	257.093333	33.866667
## [2023]	97.600000	158.355564	264.000000	10.100000	296.200000	229.800000
## [2029]	34.266667	34.933333	294.200000	205.000000	280.336667	179.453333
## [2035]	36.050000	260.100000	198.990000	407.570000	44.400000	171.733333
## [2041]	145.980000	71.100000	187.716667	420.066667	153.200000	265.000000
## [2047]	423.000000	138.150000	512.580579	144.800000	187.900000	56.890000
## [2053]	127.800000	352.366667	266.047619	383.800000	365.033333	98.400000
## [2059]	163.425000	184.320000	132.400000	39.480000	211.033333	51.800000
## [2065]	309.633333	46.800000	584.200000	356.746420	604.730000	464.500000
## [2071]	240.900000	77.600000	150.600000	4.333333	72.573333	85.600000
## [2077]	233.622404	611.033333	95.100000	50.900000	74.600000	822.766667
## [2083]	664.086667	126.333333	869.166667	524.933333	44.228571	105.200000
## [2089]	466.616667	93.900000	159.200000	825.940018	92.933333	246.800000
## [2095]	263.460000	551.794444	90.100000	128.809524	148.900000	71.200000
## [2101]	45.700000	164.466667	352.233333	1178.600000	51.200000	181.073333
## [2107]	169.350000	369.833333	107.700000	237.832601	93.300000	343.066667
## [2113]	73.800000	161.520000	292.880000	17.600000	81.120000	18.600000
## [2119]	184.366667	902.160000	131.100000	100.920000	268.200000	95.800000
## [2125]	204.400000	124.700000	282.100000	148.600000	228.200000	271.200000
## [2131]	140.573333	229.000000	165.100000	237.000000	286.533333	75.866667
## [2137]	180.400000	172.400000	335.130952	210.600000	152.200000	352.400000
## [2143]	174.800000	236.400000	22.800000	171.200000	367.633333	196.400000
## [2149]	83.166667	138.100000	93.106667	36.703297	66.760000	245.933333
## [2155]	285.700000	262.020000	76.400000	149.066667	132.220000	421.250000
## [2161]	73.200000	115.727273	473.700000	203.600000	72.400000	107.750000
## [2167]	590.925000	52.900000	201.850000	253.400000	131.080000	95.170000
## [2173]	325.480000	174.457143	285.900000	247.100000	141.838889	196.250000
## [2179]	163.000000	38.577778	133.866667	69.100000	142.133333	206.600000
## [2185]	182.700000	121.400000	171.900000	342.100000	133.466667	72.040000
## [2191]	44.300000	82.850000	70.207650	42.100000	69.033333	508.800000
## [2197]	18.100000	154.933333	82.700000	94.233333	23.533333	216.400000
## [2203]	821.075410	7.600000	277.800000	62.133333	55.800000	64.666667
## [2209]	218.600000	254.500000	1251.200000	381.673122	75.100000	303.200000
## [2215]	73.233333	130.350000	23.314286	574.451191	190.500000	120.700000
## [2221]	272.033333	76.766667	138.566667	199.833333	630.533333	110.800000
## [2227]	125.100000	110.300000	83.800000	92.300000	157.388992	75.500000
## [2233]	371.800000	73.900000	215.400000	1415.500000	121.033333	380.800000
## [2239]	132.057143	564.900000	89.950000	574.550000	289.683333	245.400000
## [2245]	266.250000	107.366667	46.200000	291.960094	226.090000	70.580000
## [2251]	64.300000	89.666667	53.900000	263.733333	9.100000	122.800000
## [2257]	375.120000	226.600000	53.200000	157.316667	44.740000	94.833333
## [2263]	85.040000	803.470000	210.566667	132.025000	189.400000	130.550000



## [2269]	266.743333	71.400000	105.633333	301.200000	239.744534	243.680000
## [2275]	259.283648	292.200000	25.700000	100.600000	785.216667	124.200000
## [2281]	252.800000	398.066667	97.200000	107.400000	580.200000	471.060000
## [2287]	146.500000	378.466667	173.800000	114.800000	310.066667	101.700000
## [2293]	83.995238	109.700000	293.622222	66.900000	134.390000	56.633333
## [2299]	181.600000	184.417360	100.066667	27.400000	93.400000	383.300000
## [2305]	155.700000	200.420000	104.400000	98.800000	504.253333	275.800000
## [2311]	78.649808	136.400000	143.442857	135.150000	127.100000	410.900000
## [2317]	398.572712	171.119048	326.000000	248.228571	28.533333	117.850000
## [2323]	124.400000	95.833333	36.250000	103.300000	177.333333	626.493333
## [2329]	356.675000	142.911111	975.646667	265.400000	284.200000	52.533333
## [2335]	17.133333	113.250000	209.625000	93.125000	446.250000	6.500000
## [2341]	32.300000	441.850000	106.833333	97.333333	188.532234	77.666667
## [2347]	56.600000	524.750000	3398.750000	65.928571	75.750000	90.178571
## [2353]	935.100000	1145.250000	256.500000	416.000000	247.150000	333.867424
## [2359]	192.920455	171.291667	49.857143	41.750000	126.750000	29.750000
## [2365]	122.250000	60.291667	131.833333	548.500000	19.250000	140.583333
## [2371]	492.166667	63.875000	109.666667	588.297222	72.019608	265.041667
## [2377]	537.500000	171.500000	21.250000	191.166667	98.750000	162.416667
## [2383]	95.333333	490.500000	191.250000	82.766667	70.333333	68.583333
## [2389]	294.070513	147.166667	317.018939	110.950000	224.300000	159.895833
## [2395]	110.535714	239.333333	69.666667	11.166667	752.383333	233.475000
## [2401]	365.116667	111.541667	118.178571	643.833333	165.916667	993.083333
## [2407]	853.735949	84.750000	189.250000	121.750000	30.750000	44.295455
## [2413]	70.250000	479.250000	123.750000	355.000000	438.330952	201.150000
## [2419]	31.250000	125.750000	1652.000000	505.400000	334.500000	671.083333
## [2425]	28.250000	356.125000	144.461538	113.750000	74.750000	301.625000
## [2431]	173.550000	276.000000	156.607143	257.500000	13.875000	118.750000
## [2437]	192.665476	147.175000	47.250000	221.833333	58.416667	153.850000
## [2443]	328.750000	110.625000	27.900000	101.750000	42.257143	513.833333
## [2449]	79.250000	297.750000	337.541667	177.500000	98.266667	96.750000
## [2455]	172.083333	223.375000	275.750000	61.875000	121.500000	322.250000
## [2461]	112.166667	135.250000	1106.389831	232.353571	125.250000	662.339286
## [2467]	368.750000	64.464286	94.100000	507.000000	194.575000	474.000000
## [2473]	651.875000	199.625000	315.333333	148.208333	174.208333	250.083333
## [2479]	268.416667	101.625000	20.142857	238.775641	71.083333	677.191176
## [2485]	451.283613	530.500000	100.500000	346.709640	561.500000	209.062500
## [2491]	67.416667	173.166667	598.375000	645.666667	66.833333	190.437500
## [2497]	138.916667	258.144444	89.166667	718.000000	128.125000	327.500000
## [2503]	1715.000000	170.500000	14.750000	33.916667	99.750000	104.875000
## [2509]	153.916667	378.750000	143.500000	143.514286	125.265909	24.750000
## [2515]	316.000000	88.250000	109.333333	290.293408	260.208333	97.750000
## [2521]	1307.675000	116.100000	119.500000	73.708333	471.250000	34.500000
## [2527]	487.000000	51.041667	155.900000	122.100000	210.427451	407.250000
## [2533]	179.275000	1443.100000	543.354906	235.186170	65.416667	346.250000
## [2539]	179.750000	197.250000	151.700000	231.750000	52.166667	163.633333
## [2545]	95.750000	218.741707	318.641026	78.357143	241.861111	112.250000
## [2551]	179.875000	110.758333	286.464286	284.000000	115.083333	48.187500
## [2557]	115.375000	196.857143	69.125000	334.250000	126.263158	739.125000
## [2563]	334.166667	307.360119	631.416667	32.642857	184.933333	62.666667
## [2569]	55.575000	104.250000	67.750000	554.750000	201.000000	149.013357
## [2575]	562.000000	305.905303	203.916667	7.625000	1230.333333	129.020833
## [2581]	45.750000	189.109848	89.062500	155.607843	175.916667	634.266667
## [2587]	49.250000	214.621429	62.750000	964.250000	131.500000	152.696429

## [2593]	1012.500000	46.041667	322.941667	34.250000	151.525000	116.500000
## [2599]	169.791667	474.476412	263.358333	440.461539	80.625000	48.625000
## [2605]	866.428030	234.166667	459.333333	572.583333	171.750000	53.750000
## [2611]	66.375000	301.561688	164.625000	331.250000	286.933333	13.750000
## [2617]	133.333333	198.258503	73.125000	358.083333	27.333333	186.673077
## [2623]	126.250000	298.082022	222.875000	182.642857	571.250000	509.833333
## [2629]	226.000000	283.250000	99.125000	390.500000	571.500000	278.151961
## [2635]	227.227273	112.750000	55.250000	2657.318056	274.250000	196.500000
## [2641]	427.066667	214.050000	86.583333	218.666667	115.888889	202.250000
## [2647]	302.500000	140.250000	295.961905	115.500000	207.000000	269.041667
## [2653]	126.076923	241.854167	303.927976	350.600000	251.750000	163.333333
## [2659]	173.263213	249.391667	187.694444	12.625000	216.250000	150.375000
## [2665]	1528.250000	31.708333	52.666667	175.934524	160.111539	63.083333
## [2671]	162.229167	80.250000	195.486472	644.500000	212.761628	6.333333
## [2677]	98.916667	158.700000	87.916667	324.000000	150.444444	726.000000
## [2683]	23.375000	201.562500	235.625000	133.400000	636.000000	162.700000
## [2689]	722.208333	250.500000	158.500000	84.437500	353.500000	266.875000
## [2695]	205.992424	225.250000	57.425000	63.250000	103.083333	37.250000
## [2701]	96.625000	24.916667	22.277778	522.250000	161.350000	18.833333
## [2707]	293.578571	88.604167	347.791667	283.375000	113.833333	243.166667
## [2713]	145.770833	68.333333	743.582418	218.833333	170.250000	151.566667
## [2719]	238.483333	75.416667	736.000000	463.750000	488.462963	140.875000
## [2725]	36.750000	22.900000	408.408333	21.750000	46.142857	1668.500000
## [2731]	426.700000	388.791667	87.750000	146.700000	173.541667	264.416667
## [2737]	175.466667	276.750000	1946.000000	64.583333	320.000000	185.990476
## [2743]	114.259158	399.250000	943.000000	180.666667	634.500000	253.100000
## [2749]	121.266667	176.963855	381.450000	255.750000	323.363636	163.375000
## [2755]	216.333333	114.125000	1455.350000	493.750000	2086.750000	239.928846
## [2761]	111.300000	448.500000	112.875000	311.830093	201.366667	466.000000
## [2767]	317.958333	295.928571	288.087500	92.562500	322.833333	197.500000
## [2773]	1592.916667	183.083333	158.595238	33.750000	272.041667	159.166667
## [2779]	43.928571	569.000000	37.583333	331.983333	56.250000	224.875000
## [2785]	197.708333	49.700000	61.250000	576.000000	904.583333	45.250000
## [2791]	102.555556	77.700000	68.750000	14.250000	198.666667	395.708333
## [2797]	403.000000	494.533333	225.450000	265.750000	396.960452	175.333333
## [2803]	352.107143	132.722222	19.833333	301.136905	446.933333	184.458333
## [2809]	74.083333	32.250000	335.166667	1103.330357	875.000000	250.250000
## [2815]	166.375000	11.833333	261.161905	364.333333	147.458333	252.812500
## [2821]	965.500000	115.583333	242.500000	97.833333	48.976190	247.083333
## [2827]	222.750000	230.666667	167.406136	60.250000	191.833333	110.750000
## [2833]	164.583333	208.888889	63.750000	181.275000	149.761905	497.166667
## [2839]	135.200000	311.250000	93.750000	140.475000	140.800000	68.285714
## [2845]	58.250000	109.041667	184.272727	1079.184314	570.250000	116.541667
## [2851]	81.541667	119.333333	13.833333	790.900000	52.750000	125.630952
## [2857]	305.000000	934.500000	142.750000	241.841667	61.012500	152.750000
## [2863]	770.738889	172.375000	315.166667	856.833333	504.283333	387.750000
## [2869]	192.571429	190.923193	526.850000	209.375000	64.900000	238.050000
## [2875]	199.125000	446.238095	167.888889	111.166667	371.700000	37.750000
## [2881]	202.425439	51.708333	900.500000	19.750000	46.458333	43.225000
## [2887]	76.250000	296.750000	1449.666667	444.284722	55.375000	793.500000
## [2893]	303.866667	342.750000	613.500000	214.666667	335.500000	506.388393
## [2899]	139.983333	395.878571	83.250000	474.666667	1040.250000	75.250000
## [2905]	137.322222	235.750000	320.270833	68.107692	243.250000	150.250000
## [2911]	86.277778	155.750000	1115.500000	143.583333	222.816667	130.700000

## [2917]	195.500000	218.571429	198.433333	86.750000	193.750000	65.541667
## [2923]	507.333333	122.875000	509.531250	82.200000	268.500000	379.500000
## [2929]	150.750000	39.833333	189.666667	501.750000	217.083333	334.000000
## [2935]	183.300000	157.250000	369.375000	108.833333	194.291667	230.326389
## [2941]	138.750000	143.250000	88.625000	123.541667	131.964286	190.750000
## [2947]	32.833333	223.333333	22.916667	205.250000	236.500000	168.500000
## [2953]	59.527778	107.208333	216.228571	341.000000	251.619048	321.266667
## [2959]	296.116667	207.500000	440.583333	90.416667	81.833333	1153.682251
## [2965]	521.075000	150.125000	20.166667	194.285714	52.850000	417.500000
## [2971]	165.250000	424.475000	356.500000	779.450000	88.833333	166.916667
## [2977]	73.250000	98.172619	244.708333	108.384454	215.250000	404.766667
## [2983]	227.375000	225.500000	192.847619	340.591667	85.333333	60.700000
## [2989]	1098.500000	167.008333	288.520833	225.416667	200.416667	240.166667
## [2995]	52.833333	171.375000	365.000000	107.125000	224.500000	46.958333
## [3001]	52.875000	173.944444	111.666667	271.300000	340.933333	274.666667
## [3007]	41.700000	86.328571	15.416667	25.625000	167.375000	448.062121
## [3013]	58.285714	130.625000	86.388889	68.545455	248.921429	104.450000
## [3019]	176.489011	212.625000	69.875000	248.916667	444.444444	555.500000
## [3025]	58.833333	37.666667	392.000000	257.562500	26.178571	623.500000
## [3031]	397.630952	210.625000	211.250000	922.750000	485.906593	242.125000
## [3037]	396.500000	238.583333	44.312500	974.000000	185.750000	265.291667
## [3043]	339.000000	204.095238	354.291667	107.428571	190.262821	215.000000
## [3049]	47.833333	236.079545	330.055556	102.083333	8.214286	296.041667
## [3055]	559.166667	63.791667	194.083333	316.822917	142.000000	29.250000
## [3061]	392.500000	229.250000	353.125000	39.583333	140.750000	305.666667
## [3067]	39.875000	992.714286	228.250000	164.400000	318.801282	77.083333
## [3073]	250.222222	224.750000	112.375000	162.750000	198.750000	237.350000
## [3079]	1463.333333	87.700000	268.250000	49.125000	105.208333	214.250000
## [3085]	229.500000	96.666667	319.833333	270.016667	17.333333	198.772727
## [3091]	184.155674	175.125000	1276.264286	82.250000	49.083333	60.750000
## [3097]	151.500000	712.000000	406.000000	393.266667	367.666667	344.492216
## [3103]	367.250000	400.000000	166.333333	177.666667	208.250000	123.464286
## [3109]	793.750000	283.016667	116.697368	723.500000	576.620833	264.809524
## [3115]	244.266667	91.250000	46.611111	7.125000	26.750000	88.750000
## [3121]	190.416667	137.916667	204.107143	585.500000	234.928571	335.063636
## [3127]	335.875000	307.300000	297.208333	213.750000	198.243056	280.266667
## [3133]	34.916667	389.500000	243.746951	60.136364	16.250000	1535.355556
## [3139]	46.875000	120.375000	119.566667	258.000000	94.250000	81.333333
## [3145]	252.000000	71.375000	247.750000	145.100000	1284.337500	360.750000
## [3151]	177.250000	65.250000	244.250000	77.833333	229.333333	60.083333
## [3157]	218.402778	141.750000	203.416667	109.571429	100.750000	101.642857
## [3163]	188.833333	105.375000	1028.833333	279.250000	302.083333	121.425000
## [3169]	81.750000	123.875000	262.121212	17.750000	88.375000	720.500000
## [3175]	40.416667	449.750000	172.849265	18.250000	98.350000	162.491176
## [3181]	164.925000	514.075000	172.125000	344.000000	127.666667	181.500000
## [3187]	78.750000	20.750000	461.000000	42.750000	202.833333	27.250000
## [3193]	213.500000	86.333333	225.538636	57.250000	79.666667	22.250000
## [3199]	2137.112745	107.666667	35.833333	304.500000	647.333333	229.750000
## [3205]	43.625000	281.916667	115.966667	187.875000	52.250000	266.000000
## [3211]	255.416667	190.312500	28.125000	45.416667	453.600000	102.166667
## [3217]	15.750000	159.916667	103.875000	188.563830	122.041667	314.083333
## [3223]	144.666667	879.500000	246.252381	515.982143	447.125000	878.712121
## [3229]	598.872727	27.375000	165.948718	349.775000	218.583333	233.250000
## [3235]	524.950000	671.000000	76.125000	23.166667	161.833333	84.833333

```
## [3241] 247.050000 104.194444 216.500000 29.815152 148.250000 140.675000
## [3247] 153.750000 321.500000 129.625000 50.875000 107.500000 183.785714
## [3253] 1005.608333 442.600000 155.845833 150.208333 345.806548 397.716667
## [3259] 228.748539 76.541667 164.333333 89.625000 67.166667 57.958333
## [3265] 363.050000 1922.000000 199.385684 795.208333 483.333333 381.750000
## [3271] 255.500000 53.125000 323.500000 146.416667 25.650000 20.150000
## [3277] 194.333333 127.500000 822.666667 91.666667 127.416667 260.250000
## [3283] 441.100000 889.166667 169.975000 495.166667 85.250000 275.516667
## [3289] 57.333333 141.035714 441.833333 77.750000 141.916667 297.833333
## [3295] 172.059524 143.625000 326.494681 43.727273 134.625000 888.833333
## [3301] 1489.041667 1561.717567 298.581761 1294.900000 533.591353 76.312500
## [3307] 112.125000 344.500000 698.500000 60.875000 500.000000 257.750000
## [3313] 270.750000 317.628205 40.136364 580.333333 399.750000 219.274359
## [3319] 243.750000 739.194872 311.136111 41.125000 127.200000 262.666667
## [3325] 157.333333 413.499612 223.750000 95.916667 111.083333 134.333333
## [3331] 139.575000 181.866667 369.333333 167.910714 305.125000 150.357143
```

```
unique(customer.df$Informational)
```

```
## [1] 0 1 2 4 16 5 3 14 6 12 7 9 10 8 11 24 13
```

```
unique(customer.df$Informational_Duration)
```

```
## [1] 0.000000 -1.000000 120.000000 16.000000 94.000000 93.000000
## [7] 75.000000 19.000000 22.000000 1210.397619 153.000000 48.500000
## [13] 51.000000 3.000000 144.000000 125.000000 127.000000 261.000000
## [19] 306.333333 84.000000 740.000000 303.250000 21.500000 1220.000000
## [25] 235.000000 100.000000 64.000000 47.000000 205.000000 70.000000
## [31] 14.333333 24.000000 40.000000 136.000000 116.000000 929.000000
## [37] 18.000000 155.500000 9.000000 1165.166667 60.000000 528.000000
## [43] 28.000000 654.333333 246.000000 142.000000 18.500000 39.000000
## [49] 629.000000 267.500000 4.000000 132.000000 57.000000 14.000000
## [55] 148.500000 954.000000 762.500000 449.333333 71.000000 212.500000
## [61] 1411.000000 447.000000 28.500000 90.000000 245.000000 15.000000
## [67] 125.095238 103.000000 404.000000 147.866667 263.000000 41.000000
## [73] 53.000000 126.000000 371.000000 77.000000 395.000000 54.000000
## [79] 40.666667 399.333333 345.000000 23.000000 29.500000 75.250000
## [85] 122.000000 844.000000 407.000000 60.500000 81.000000 329.500000
## [91] 162.000000 298.000000 357.000000 235.550000 30.000000 104.000000
## [97] 17.000000 88.000000 321.666667 26.000000 336.500000 76.500000
## [103] 50.000000 13.000000 20.000000 1467.000000 450.000000 384.000000
## [109] 74.750000 102.000000 109.750000 229.000000 84.500000 243.500000
## [115] 389.366667 75.500000 158.000000 32.000000 44.500000 92.000000
## [121] 81.333333 32.500000 242.055556 52.250000 369.000000 123.333333
## [127] 281.500000 710.000000 125.500000 87.000000 61.000000 63.000000
## [133] 94.500000 36.333333 45.000000 237.000000 138.500000 56.000000
## [139] 29.000000 8.000000 171.500000 300.000000 278.000000 37.000000
## [145] 62.000000 42.000000 17.666667 219.000000 388.666667 109.000000
## [151] 445.000000 338.000000 80.500000 35.000000 105.666667 308.000000
## [157] 33.000000 55.000000 73.000000 209.000000 7.000000 58.000000
## [163] 46.000000 21.000000 83.000000 373.000000 139.000000 101.000000
## [169] 141.000000 186.000000 416.000000 23.500000 9.500000 845.000000
## [175] 255.000000 208.500000 20.500000 67.000000 291.500000 105.000000
```

##	[181]	34.000000	58.166667	625.500000	278.166667	239.000000	319.300000
##	[187]	65.000000	52.333333	853.750000	222.000000	123.500000	12.000000
##	[193]	1146.666667	11.000000	108.000000	261.633333	201.000000	292.684211
##	[199]	78.000000	562.000000	907.833333	609.000000	571.500000	1.000000
##	[205]	270.333333	284.000000	775.500000	265.000000	44.000000	41.500000
##	[211]	193.000000	279.500000	146.000000	869.000000	49.000000	111.000000
##	[217]	451.500000	100.250000	88.583333	119.000000	168.833333	175.500000
##	[223]	25.000000	164.000000	2.000000	172.000000	65.500000	5.500000
##	[229]	89.333333	72.833333	250.666667	403.000000	166.000000	117.285714
##	[235]	419.000000	156.000000	13.500000	48.000000	241.500000	199.000000
##	[241]	29.666667	353.333333	70.500000	135.500000	604.800000	46.666667
##	[247]	91.000000	415.000000	97.000000	118.000000	865.000000	144.500000
##	[253]	89.500000	300.900000	262.000000	80.000000	115.000000	470.000000
##	[259]	58.952381	394.000000	213.000000	191.000000	163.000000	188.000000
##	[265]	360.000000	243.000000	66.000000	49.500000	236.000000	227.250000
##	[271]	246.333333	1636.000000	606.750000	261.833333	257.000000	161.000000
##	[277]	132.833333	56.500000	545.000000	89.000000	404.583333	52.000000
##	[283]	472.000000	39.666667	499.000000	346.166667	10.666667	31.000000
##	[289]	106.000000	10.000000	506.000000	154.000000	724.000000	140.000000
##	[295]	269.500000	6.000000	17.333333	112.000000	382.333333	189.000000
##	[301]	124.000000	27.500000	72.000000	141.166667	113.000000	114.000000
##	[307]	584.000000	168.500000	173.000000	282.000000	135.000000	165.000000
##	[313]	189.500000	424.500000	1307.000000	81.500000	147.166667	3.500000
##	[319]	913.000000	149.000000	448.500000	406.000000	10.166667	27.000000
##	[325]	646.000000	26.666667	459.000000	196.000000	59.500000	537.000000
##	[331]	193.250000	76.000000	1360.000000	216.000000	900.500000	214.500000
##	[337]	909.000000	62.500000	107.000000	104.500000	93.666667	10.500000
##	[343]	38.500000	69.000000	808.500000	255.500000	68.000000	1.500000
##	[349]	111.500000	86.000000	85.000000	134.000000	181.722222	341.333333
##	[355]	249.000000	292.000000	327.000000	232.000000	221.000000	559.000000
##	[361]	120.666667	171.000000	314.000000	1779.166667	134.333333	323.000000
##	[367]	37.500000	101.500000	313.000000	348.000000	1131.000000	335.000000
##	[373]	2.500000	140.833333	176.000000	47.666667	500.000000	161.500000
##	[379]	9.307692	231.700000	707.500000	258.000000	74.000000	482.333333
##	[385]	148.000000	82.000000	417.000000	194.000000	320.500000	114.500000
##	[391]	215.000000	1222.750000	298.666667	618.000000	151.000000	30.666667
##	[397]	514.000000	460.000000	218.000000	11.500000	160.500000	1258.833333
##	[403]	309.000000	1778.000000	666.783333	151.666667	689.833333	163.666667
##	[409]	136.750000	872.000000	129.000000	985.419048	1150.000000	83.500000
##	[415]	330.000000	331.750000	516.000000	5.000000	53.500000	99.000000
##	[421]	600.000000	848.416667	43.666667	272.500000	55.500000	376.333333
##	[427]	26.750000	25.500000	131.000000	153.500000	515.000000	22.500000
##	[433]	36.000000	43.000000	474.500000	391.000000	370.875000	489.600000
##	[439]	95.000000	92.500000	157.000000	75.666667	1439.000000	72.500000
##	[445]	315.000000	529.700000	38.000000	503.250000	725.500000	58.500000
##	[451]	262.750000	393.325000	103.166667	263.666667	62.333333	61.500000
##	[457]	37.400000	178.000000	96.333333	2050.433333	241.000000	377.000000
##	[463]	373.500000	1005.000000	187.000000	16.500000	302.000000	226.000000
##	[469]	99.500000	110.000000	194.500000	202.500000	214.166667	285.000000
##	[475]	493.500000	79.000000	120.800000	80.600000	332.080000	102.800000
##	[481]	204.346667	2195.300000	1093.300000	42.200000	14.200000	88.600000
##	[487]	269.800000	33.200000	306.100000	31.200000	657.833333	191.866667
##	[493]	28.200000	69.600000	118.100000	45.266667	199.100000	152.200000
##	[499]	95.650000	38.200000	90.200000	225.766667	204.000000	99.600000

##	[505]	377.433333	387.500000	28.700000	322.400000	303.200000	383.800000
##	[511]	86.600000	10.066667	353.400000	54.400000	842.300000	426.200000
##	[517]	52.400000	36.200000	535.000000	7.600000	32.200000	294.600000
##	[523]	50.200000	102.750000	37.200000	36.600000	97.800000	433.100000
##	[529]	106.800000	15.100000	432.200000	19.200000	42.400000	169.200000
##	[535]	34.400000	1511.700000	204.400000	295.400000	21.200000	26.700000
##	[541]	65.400000	206.100000	25.200000	165.666667	16.200000	22.200000
##	[547]	38.300000	923.900000	201.400000	678.000000	378.800000	439.200000
##	[553]	2252.033333	168.200000	110.866667	89.100000	133.000000	1657.300000
##	[559]	1005.400000	353.966667	103.800000	297.833333	793.800000	76.600000
##	[565]	100.800000	115.800000	17.720000	140.500000	101.700000	541.000000
##	[571]	475.200000	35.700000	53.200000	99.800000	225.366667	434.300000
##	[577]	189.300000	63.400000	652.800000	59.400000	64.400000	1009.733333
##	[583]	216.566667	63.100000	43.200000	66.400000	246.800000	274.000000
##	[589]	13.400000	35.200000	223.150000	173.200000	16.600000	380.700000
##	[595]	160.400000	14.800000	316.000000	239.800000	245.800000	183.266667
##	[601]	297.200000	84.800000	179.500000	112.600000	18.400000	466.400000
##	[607]	235.600000	430.200000	722.900000	382.400000	6.500000	18.200000
##	[613]	229.800000	1655.400000	43.400000	468.400000	44.400000	29.200000
##	[619]	348.600000	1529.200000	28.400000	26.200000	112.800000	211.600000
##	[625]	251.800000	27.600000	560.000000	100.200000	379.000000	91.200000
##	[631]	812.000000	34.300000	212.800000	186.500000	39.400000	12.500000
##	[637]	239.200000	72.600000	37.300000	67.400000	733.800000	69.400000
##	[643]	97.640000	17.200000	244.300000	85.140000	96.800000	108.300000
##	[649]	141.880000	105.133333	94.800000	260.000000	790.006667	51.400000
##	[655]	105.800000	299.033333	173.540000	144.200000	13.100000	11.400000
##	[661]	16.133333	148.100000	40.800000	49.400000	92.333333	594.133333
##	[667]	98.800000	1236.200000	194.400000	365.966667	8.100000	341.600000
##	[673]	622.400000	53.400000	385.800000	24.700000	380.957143	189.400000
##	[679]	245.171429	113.800000	49.300000	30.200000	48.300000	41.200000
##	[685]	66.133333	62.600000	232.733333	137.000000	186.233333	629.514286
##	[691]	93.600000	183.800000	92.300000	56.900000	256.066667	438.700000
##	[697]	291.200000	108.800000	174.700000	249.800000	20.200000	31.700000
##	[703]	101.800000	477.600000	696.200000	87.600000	218.650000	70.600000
##	[709]	92.700000	114.200000	89.533333	34.200000	321.400000	608.450000
##	[715]	47.400000	34.800000	801.800000	22.133333	56.400000	276.000000
##	[721]	322.800000	62.400000	68.400000	15.200000	137.816667	47.640000
##	[727]	136.171429	161.966667	23.533333	26.100000	195.400000	924.000000
##	[733]	256.750000	14.600000	358.600000	21.600000	270.600000	99.700000
##	[739]	241.700000	181.950000	123.000000	32.700000	177.800000	269.666667
##	[745]	217.600000	108.900000	277.633333	518.800000	73.600000	230.700000
##	[751]	24.200000	211.000000	96.200000	100.100000	985.483333	232.800000
##	[757]	173.233333	45.800000	1109.533333	44.200000	208.600000	116.800000
##	[763]	505.600000	81.400000	145.000000	124.200000	482.400000	41.600000
##	[769]	124.800000	58.400000	182.200000	109.800000	48.350000	871.400000
##	[775]	114.800000	55.400000	39.200000	71.100000	88.900000	102.300000
##	[781]	40.020000	201.900000	87.700000	118.800000	399.800000	49.733333
##	[787]	30.266667	74.500000	124.266667	1021.600000	20.600000	124.900000
##	[793]	11.100000	22.600000	27.200000	46.400000	141.200000	62.800000
##	[799]	145.166667	199.400000	206.600000	33.300000	155.566667	23.200000
##	[805]	250.000000	74.600000	68.500000	111.900000	242.800000	34.600000
##	[811]	21.800000	68.200000	338.400000	18.466667	207.600000	522.166667
##	[817]	129.750000	38.900000	61.600000	79.700000	130.760000	214.100000
##	[823]	1312.400000	105.950000	624.600000	216.600000	96.700000	145.600000

##	[829]	277.133333	104.800000	191.900000	309.733333	722.520000	256.300000
##	[835]	60.300000	1665.066667	30.700000	39.680000	19.600000	406.900000
##	[841]	493.000000	303.650000	276.080000	663.916667	521.979167	118.750000
##	[847]	802.500000	26.500000	96.000000	447.500000	197.416667	43.500000
##	[853]	230.166667	258.625000	2549.375000	88.500000	91.303571	121.000000
##	[859]	788.000000	121.625000	57.500000	343.000000	433.500000	193.500000
##	[865]	164.500000	1343.250000	126.750000	487.000000	147.500000	330.266667
##	[871]	63.500000	65.750000	6.333333	91.500000	150.500000	50.500000
##	[877]	27.750000	126.500000	139.500000	703.500000	36.500000	155.333333
##	[883]	167.166667	156.750000	254.000000	51.500000	386.000000	497.833333
##	[889]	352.500000	15.750000	312.000000	32.750000	627.458333	80.166667
##	[895]	36.250000	141.500000	383.750000	30.500000	249.500000	52.500000
##	[901]	34.250000	961.450000	207.250000	24.500000	94.875000	134.500000
##	[907]	64.500000	785.875000	303.000000	546.500000	192.250000	46.500000
##	[913]	132.666667	97.666667	435.450000	67.500000	763.000000	243.283333
##	[919]	1830.500000	110.750000	294.000000	886.250000	991.250000	210.666667
##	[925]	228.000000	72.125000	103.500000	13.833333	121.500000	92.166667
##	[931]	33.750000	143.750000	50.833333	69.500000	77.916667	1037.150000
##	[937]	45.750000	277.500000	39.500000	861.000000	138.000000	89.954545
##	[943]	114.750000	286.083333	888.000000	500.800000	347.500000	162.500000
##	[949]	182.166667	114.333333	93.416667	437.500000	435.250000	167.142857
##	[955]	691.000000	162.666667	365.250000	418.500000	398.000000	492.900000
##	[961]	17.750000	285.625000	119.375000	47.500000	287.500000	248.500000
##	[967]	1949.166667	247.750000	160.000000	45.500000	43.333333	406.916667
##	[973]	98.666667	1021.666667	495.500000	1174.000000	54.500000	1079.833333
##	[979]	166.500000	191.333333	40.500000	260.500000	35.500000	231.600000
##	[985]	86.750000	181.000000	151.500000	158.500000	147.000000	31.500000
##	[991]	1729.000000	39.250000	103.750000	7.666667	8.500000	590.000000
##	[997]	408.500000	909.250000	337.500000	178.500000	137.500000	485.833333
##	[1003]	478.916667	14.750000	200.000000	944.750000	195.000000	34.500000
##	[1009]	111.166667	352.083333	649.250000	312.750000	266.875000	719.000000
##	[1015]	137.833333	201.500000	220.250000	821.000000	17.900000	146.666667
##	[1021]	167.000000	502.750000	66.500000	128.000000	157.500000	130.516667
##	[1027]	588.000000	1188.500000	59.000000	1231.000000	79.500000	84.250000
##	[1033]	77.958333	182.800000	242.750000	759.000000	886.500000	597.583333
##	[1039]	8.166667	696.833333	28.750000	216.500000	78.500000	452.083333
##	[1045]	254.916667	121.250000	288.000000	62.750000	662.000000	267.250000
##	[1051]	136.500000	430.333333	428.547619	254.750000	390.000000	47.750000
##	[1057]	176.500000	174.000000	208.666667	181.250000	204.250000	1368.000000
##	[1063]	138.666667	82.500000	185.500000	693.500000	1193.125000	143.250000
##	[1069]	1488.000000	12.250000	825.500000	25.750000	324.500000	1767.666667
##	[1075]	280.500000	758.500000	789.125000	2256.916667	559.083333	566.000000
##	[1081]	96.500000	248.166667	298.333333	1022.250000	1475.250000	636.750000
##	[1087]	33.500000	286.666667	480.125000	759.500000	170.583333	464.875000
##	[1093]	1039.166667	19.750000	1373.750000	124.250000	704.750000	230.000000
##	[1099]	1024.250000	162.750000	151.250000	1083.000000	585.625000	19.250000
##	[1105]	185.750000	240.500000	102.250000	258.250000	686.000000	110.250000
##	[1111]	53.833333	25.166667	278.250000	402.000000	627.750000	160.833333
##	[1117]	355.500000	504.500000	685.250000	122.500000	124.500000	193.166667
##	[1123]	70.250000	665.500000	840.583333	143.500000	342.500000	13.250000
##	[1129]	119.500000	129.125000	191.750000	132.500000	170.000000	38.250000
##	[1135]	358.750000	141.750000	70.875000	880.250000	118.500000	251.500000
##	[1141]	46.250000	273.000000	71.250000	234.500000	230.250000	414.500000
##	[1147]	809.500000	349.000000	62.250000	501.000000	343.875000	486.666667

```
## [1153] 523.750000 29.750000 1530.000000 360.166667 251.666667 23.750000
## [1159] 246.500000 619.500000 1494.500000 271.250000 228.500000 400.375000
## [1165] 117.000000 235.750000 1007.500000 112.250000 620.250000 410.500000
## [1171] 321.000000 1043.928571 889.500000 902.500000 738.083333 21.250000
## [1177] 276.250000 199.500000 264.750000 1073.000000 34.625000 575.000000
## [1183] 645.500000 2166.500000 303.625000 115.250000 310.500000 154.833333
## [1189] 1652.000000 273.500000 364.916667 19.500000 88.725000 248.750000
## [1195] 183.000000 138.750000 66.875000 264.100000 333.833333 98.000000
## [1201] 368.154762 220.000000 376.500000 505.166667 218.250000 191.583333
## [1207] 68.750000 139.750000 94.166667 117.250000 54.916667 152.500000
## [1213] 190.416667 168.375000 256.500000 12.833333 425.000000 145.500000
## [1219] 248.333333 693.000000 858.570833 494.000000 376.000000 127.500000
## [1225] 97.750000 17.250000 164.625000 1415.000000 155.375000 431.333333
## [1231] 121.583333 73.750000 184.500000 225.333333 288.375000 167.800000
## [1237] 518.250000 37.833333 102.500000 1060.750000 290.225000 407.500000
## [1243] 103.250000 182.791667 231.875000 503.722222 339.500000 32.666667
## [1249] 333.500000 385.000000 224.000000 120.500000 97.166667 857.166667
## [1255] 540.333333 225.500000 547.750000 368.250000 211.250000
```

```
unique(customer.df$ProductRelated)
```

```
## [1] 1 2 10 19 3 16 7 6 23 13 20 8 5 32 4 45 14 52
## [19] 9 46 15 22 11 12 36 42 27 90 18 38 17 128 25 30 21 51
## [37] 26 28 31 24 50 96 49 68 98 67 55 35 37 29 34 71 63 87
## [55] 40 33 54 64 75 39 111 81 61 47 44 88 149 41 0 79 66 43
## [73] 258 80 62 83 173 48 58 57 56 69 82 59 109 287 53 84 78 137
## [91] 113 89 65 60 104 129 77 74 93 76 72 194 140 110 132 115 73 328
## [109] 160 86 150 95 130 151 117 124 127 125 116 105 92 157 154 220 187 112
## [127] 131 159 94 204 142 206 102 313 145 85 97 198 181 126 106 101 108 119
## [145] 70 122 91 276 100 291 114 172 217 141 133 156 136 180 135 195 99 362
## [163] 179 118 175 148 440 103 178 184 705 134 176 146 189 120 193 222 121 107
## [181] 305 199 439 223 230 280 377 310 158 486 153 139 182 221 229 216 170 202
## [199] 346 274 240 162 123 211 227 168 161 429 686 167 518 256 255 358 213 191
## [217] 282 155 138 246 237 271 171 414 219 262 409 243 241 197 449 143 188 391
## [235] 238 152 165 293 174 584 164 311 340 250 200 385 292 232 251 517 225 169
## [253] 309 235 501 224 275 318 144 397 343 245 186 337 351 166 349 423 359 163
## [271] 147 264 312 226 324 266 260 338 272 534 470 207 218 326 190 304 205 233
## [289] 401 177 330 286 247 357 315 231 339 283 374 248 279 281 234 261 290 336
## [307] 378 254 183 210 192
```

```
unique(customer.df$ProductRelated_Duration)
```

```
## [1] 0.000000 64.000000 -1.000000 2.666667 627.500000
## [6] 154.216667 37.000000 738.000000 395.000000 407.750000
## [11] 280.500000 98.000000 68.000000 1668.285119 334.966667
## [16] 32.000000 2981.166667 136.166667 105.000000 15.000000
## [21] 156.000000 1135.444444 76.000000 63.000000 1582.750000
## [26] 35.000000 78.000000 209.500000 183.666667 380.500000
## [31] 2086.242857 388.000000 298.000000 482.000000 4084.393939
## [36] 22.000000 310.166667 34.000000 88.000000 622.250000
## [41] 222.400000 80.000000 800.833333 265.166667 29.000000
## [46] 160.000000 135.666667 998.741667 104.000000 381.686508
## [51] 169.000000 400.800000 1553.583333 706.500000 798.333333
```



##	[56]	6951.972222	902.000000	197.377778	43.000000	426.666667
##	[61]	135.000000	588.333333	2111.341667	208.000000	270.000000
##	[66]	39.500000	375.000000	150.000000	138.000000	337.500000
##	[71]	620.033333	168.846154	52.000000	649.250000	925.333333
##	[76]	33.000000	1566.500000	50.000000	644.200000	2635.177778
##	[81]	607.000000	415.000000	2083.530952	281.666667	27.000000
##	[86]	215.000000	162.000000	114.000000	5062.213753	253.000000
##	[91]	436.500000	1045.833333	317.833333	1146.333333	577.000000
##	[96]	95.000000	301.500000	243.000000	135.500000	442.333333
##	[101]	41.000000	292.900000	1238.333333	225.466667	1873.216667
##	[106]	13.000000	222.000000	214.833333	2017.166667	449.027778
##	[111]	158.166667	303.666667	25.000000	42.000000	1003.416667
##	[116]	272.500000	344.000000	852.000000	780.000000	1038.000000
##	[121]	573.000000	1231.233333	316.666667	873.736508	16.000000
##	[126]	615.000000	261.750000	615.883117	117.500000	501.666667
##	[131]	829.166667	1223.000000	467.000000	737.166667	129.000000
##	[136]	125.000000	684.333333	665.472222	487.500000	437.166667
##	[141]	55.000000	446.927778	320.500000	666.000000	405.709524
##	[146]	163.250000	284.250000	260.000000	279.857143	927.450000
##	[151]	836.800000	3283.166739	1868.819697	3008.124108	3230.250000
##	[156]	319.000000	354.333333	3556.612410	2563.783333	3014.018519
##	[161]	840.233333	1970.844805	2867.000000	284.500000	133.500000
##	[166]	297.666667	453.750000	1331.750000	558.500000	145.833333
##	[171]	731.000000	188.000000	565.333333	591.000000	281.000000
##	[176]	483.833333	1192.386111	198.000000	643.000000	23.000000
##	[181]	14.000000	210.500000	1529.304670	19.000000	1599.083333
##	[186]	102.500000	2337.000000	1883.500000	1245.300000	1674.583333
##	[191]	132.000000	1434.255128	367.250000	148.500000	1482.210784
##	[196]	1048.492063	478.000000	980.250000	1124.693074	353.166667
##	[201]	1489.083333	2389.333333	753.000000	688.166667	811.000000
##	[206]	415.250000	908.013456	2753.378571	2452.582143	5188.500000
##	[211]	57.000000	8.000000	1430.659091	20.000000	1373.750000
##	[216]	844.250000	527.375000	1916.761905	116.333333	397.000000
##	[221]	5220.083333	219.333333	74.000000	1559.600000	236.500000
##	[226]	348.666667	224.500000	601.766667	75.500000	153.000000
##	[231]	197.200000	3658.500000	1162.500000	556.600000	300.071429
##	[236]	1626.625433	69.250000	1169.100000	402.000000	3324.333333
##	[241]	3037.499952	59.000000	1059.253472	720.000000	905.485606
##	[246]	603.666667	328.916667	778.816667	851.559524	227.500000
##	[251]	528.900000	872.833333	835.066667	82.500000	9.000000
##	[256]	7.000000	94.500000	267.300000	3312.500000	75.000000
##	[261]	1547.500000	1276.157071	2631.100000	96.000000	1370.000000
##	[266]	97.000000	1380.166667	1483.600000	240.750000	1238.500000
##	[271]	2524.719048	54.000000	175.916667	263.600000	101.800000
##	[276]	1042.242857	613.666667	1588.944444	4105.666667	269.500000
##	[281]	1236.200000	1384.016667	664.750000	326.500000	1690.977778
##	[286]	178.750000	407.000000	1513.566667	832.090909	250.833333
##	[291]	565.666667	194.000000	1743.066667	655.916667	1992.833333
##	[296]	308.863553	2749.666667	812.000000	166.000000	65.000000
##	[301]	2450.688095	226.833333	341.000000	226.000000	3510.879903
##	[306]	6.000000	559.400000	1109.883333	239.000000	212.166667
##	[311]	2820.952419	44.000000	781.000000	175.666667	397.884615
##	[316]	770.028571	1034.975000	12.000000	399.800000	2258.430586
##	[321]	254.000000	67.000000	240.416667	551.166667	1532.200000

##	[326]	379.500000	548.185714	1735.301587	103.000000	1406.100000
##	[331]	331.400000	1759.275703	1204.600433	1743.366667	236.000000
##	[336]	427.083333	909.522619	702.916667	962.333333	159.000000
##	[341]	24.000000	1569.625000	424.833333	154.833333	758.442857
##	[346]	305.875000	62.000000	656.250000	617.500000	245.000000
##	[351]	872.400000	1372.000000	139.000000	5042.458059	288.500000
##	[356]	192.000000	954.666667	429.000000	1546.500000	96.466667
##	[361]	198.833333	181.000000	208.500000	517.423809	358.066667
##	[366]	339.250000	796.000000	1759.416667	3277.000000	437.200000
##	[371]	92.000000	1266.267677	1882.113409	616.400000	155.000000
##	[376]	814.500000	460.416667	819.500000	659.200000	427.000000
##	[381]	766.500000	2425.000000	416.500000	638.642857	445.000000
##	[386]	81.000000	1985.000000	758.144444	310.900000	709.833333
##	[391]	4547.166667	1040.000000	223.000000	687.500000	632.583333
##	[396]	312.000000	2502.966667	3608.900000	406.575000	2487.500000
##	[401]	212.800000	510.000000	72.333333	96.500000	267.000000
##	[406]	481.166667	2528.000000	1530.194444	289.500000	10.000000
##	[411]	676.750000	36.000000	630.750000	336.500000	77.000000
##	[416]	44.666667	3410.875000	322.500000	919.000000	2096.911364
##	[421]	2868.133333	1058.893939	54.380952	543.500000	1089.000000
##	[426]	1131.808333	314.500000	11301.204160	1946.942857	1558.000000
##	[431]	1198.750000	927.166667	584.595887	292.500000	68.500000
##	[436]	364.166667	694.300000	1128.468254	521.500000	496.750000
##	[441]	104.833333	45.000000	492.500000	624.750000	116.500000
##	[446]	144.000000	686.322222	1411.000000	126.000000	185.000000
##	[451]	218.000000	484.672619	439.833333	733.700000	1469.702381
##	[456]	485.833333	345.500000	543.800000	48.000000	343.369048
##	[461]	171.000000	2202.579167	299.500000	1056.500000	627.308333
##	[466]	583.833333	221.500000	441.791667	1037.355013	246.000000
##	[471]	46.000000	801.802381	1361.166667	53.000000	2648.500000
##	[476]	255.000000	225.000000	323.000000	1929.329762	4233.480700
##	[481]	116.000000	1585.666667	644.000000	488.500000	1235.650000
##	[486]	1505.166667	495.000000	293.000000	2122.656061	1231.160256
##	[491]	341.666667	1686.333333	212.000000	2161.979365	318.073016
##	[496]	390.666667	1470.853037	2585.618350	400.333333	808.500000
##	[501]	1484.000000	505.000000	1121.205556	141.000000	234.000000
##	[506]	179.000000	2720.671429	6255.017866	2309.732468	1936.550000
##	[511]	694.000000	195.500000	1400.500000	914.166667	5958.071931
##	[516]	270.491667	463.816667	371.500000	185.833333	502.833333
##	[521]	1016.500000	887.066667	3200.366667	1769.697383	1037.500000
##	[526]	1694.750000	1643.435516	383.500000	626.221368	1070.461905
##	[531]	195.000000	1187.833333	1021.619336	58.000000	771.083333
##	[536]	291.258974	695.400000	21.000000	1594.283333	343.583333
##	[541]	2241.002381	5.000000	825.083333	1357.617830	836.333333
##	[546]	1409.416667	60.500000	420.000000	389.000000	449.500000
##	[551]	202.166667	17.000000	689.285714	2013.595238	933.416667
##	[556]	371.227273	306.000000	719.738095	56.000000	302.388889
##	[561]	491.666667	922.083333	667.916667	181.500000	512.111111
##	[566]	317.000000	85.666667	128.500000	78.833333	851.642653
##	[571]	1400.438961	84.000000	167.222222	396.500000	371.000000
##	[576]	1814.583333	30.500000	1802.250000	855.166667	879.909091
##	[581]	1432.223333	2524.501905	1545.500000	1616.425824	332.000000
##	[586]	40.000000	2224.850000	672.545238	551.000000	3179.354257
##	[591]	203.000000	368.200000	694.712121	657.261905	974.666667

##	[596]	1223.347222	276.000000	1108.000000	261.000000	1372.700000
##	[601]	964.500000	461.500000	39.250000	5485.105556	450.000000
##	[606]	438.333333	787.000000	1148.000000	534.500000	644.400000
##	[611]	875.000000	873.000000	3121.369048	3214.020563	1551.666667
##	[616]	334.500000	3726.333333	2816.781781	667.166667	1202.904762
##	[621]	1117.333333	211.000000	705.400000	5.333333	525.000000
##	[626]	635.333333	1803.768849	2419.133333	952.285714	249.000000
##	[631]	271.000000	650.696193	481.666667	258.500000	510.500000
##	[636]	600.750000	2302.021242	1636.016667	519.750000	673.000000
##	[641]	173.500000	156.533333	574.533333	548.333333	6682.677557
##	[646]	1671.375000	1390.166667	2503.881781	520.666667	423.816667
##	[651]	1114.916667	1678.905125	438.866667	505.583333	203.500000
##	[656]	818.791667	490.000000	645.916667	142.000000	672.500000
##	[661]	1090.490476	30.000000	244.166667	129.500000	1734.780952
##	[666]	145.000000	1106.333333	684.916667	3120.211102	1178.666667
##	[671]	12983.787710	558.000000	893.511111	26.500000	708.533333
##	[676]	244.000000	130.000000	1282.500000	1981.016667	186.500000
##	[681]	119.000000	1310.500000	1111.000000	1066.500000	110.500000
##	[686]	850.533333	49.000000	214.250000	141.833333	143.500000
##	[691]	5818.916667	1461.666667	123.000000	2049.458471	271.716667
##	[696]	1279.166667	70.500000	231.181818	1567.966667	119.333333
##	[701]	605.885714	502.547619	808.700000	494.500000	203.150000
##	[706]	1656.316667	1420.250000	721.000000	1433.916667	478.833333
##	[711]	182.000000	1974.352381	223.583333	817.416667	750.166667
##	[716]	4699.277778	1030.266667	776.019048	520.333333	349.500000
##	[721]	754.500000	305.000000	399.851190	696.666667	2756.215152
##	[726]	425.166667	1781.696970	296.166667	1792.800000	515.575758
##	[731]	1334.551371	624.583333	1284.663492	316.500000	925.833333
##	[736]	28.000000	633.400000	3909.368290	915.166667	137.333333
##	[741]	778.166667	1842.950000	1206.000000	324.500000	1054.944444
##	[746]	402.166667	352.000000	751.800000	465.500000	585.000000
##	[751]	253.500000	46.500000	3065.945238	2099.930554	158.500000
##	[756]	250.500000	3960.646154	280.000000	281.547619	2004.500000
##	[761]	967.210697	100.000000	73.214286	789.350000	1281.000000
##	[766]	1115.266667	341.291667	3000.666667	1715.687897	31.000000
##	[771]	1027.657143	196.500000	2284.687302	1503.490909	271.333333
##	[776]	97.333333	161.333333	1006.257576	869.900000	479.866667
##	[781]	229.500000	606.000000	881.441667	371.666667	2798.073810
##	[786]	1185.666667	60.000000	6770.274267	337.250000	323.916667
##	[791]	1142.816919	207.000000	11.000000	354.000000	277.142857
##	[796]	411.625000	392.142857	3135.517677	1127.288305	954.470238
##	[801]	3506.166667	370.380952	139.250000	270.500000	321.000000
##	[806]	64.750000	927.277778	141.166667	7221.000000	218.500000
##	[811]	262.500000	469.416667	1240.916667	101.000000	62.500000
##	[816]	1349.000000	331.250000	157.571429	224.958333	1152.500000
##	[821]	2292.679762	329.000000	111.666667	1074.428571	1080.047619
##	[826]	666.946429	279.900000	1674.000000	480.966667	1841.171429
##	[831]	37.500000	131.300000	78.333333	114.600000	671.000000
##	[836]	624.000000	448.750000	79.500000	189.500000	2190.666667
##	[841]	2502.816667	1778.125214	49.500000	663.500000	284.900000
##	[846]	576.083333	79.000000	4566.952839	8646.000000	600.500000
##	[851]	434.500000	499.400000	1694.797619	1306.151974	61.000000
##	[856]	1165.333333	70.833333	649.307143	1647.152381	3135.442572
##	[861]	181.333333	465.833333	112.000000	952.966667	372.833333

##	[866]	327.000000	1057.000000	2264.333333	866.000000	701.542424
##	[871]	979.083333	324.769231	1682.870247	210.000000	1610.916667
##	[876]	1188.566667	1663.683333	930.300000	1003.000000	69.000000
##	[881]	1199.725758	1524.058333	1229.766667	972.600000	438.433333
##	[886]	333.000000	504.233333	845.500000	744.500000	1129.000000
##	[891]	358.000000	832.000000	36.500000	157.000000	71.333333
##	[896]	1054.309524	308.166667	229.250000	225.833333	326.583333
##	[901]	3486.690476	863.333333	1405.131241	1031.704762	917.083333
##	[906]	573.657143	238.166667	164.000000	750.590476	1834.083333
##	[911]	606.833333	509.121429	5900.351378	449.333333	200.000000
##	[916]	946.166667	514.000000	1180.500000	771.500000	1096.750000
##	[921]	381.666667	1509.594444	1181.198413	1394.666667	326.000000
##	[926]	459.830769	2043.500000	663.466667	7669.250794	115.166667
##	[931]	296.450000	2633.869048	392.000000	748.666667	834.666667
##	[936]	497.333333	631.989682	315.600000	183.333333	192.166667
##	[941]	1296.600000	698.000000	1093.142857	2397.500000	196.200000
##	[946]	39.666667	408.333333	906.566667	149.000000	1224.750000
##	[951]	1262.000000	115.666667	321.500000	3552.702381	716.357143
##	[956]	343.000000	3763.166667	1883.827222	251.666667	1413.333333
##	[961]	83.000000	584.500000	940.833333	791.666667	4346.541667
##	[966]	50.500000	2593.741667	1518.761111	365.400000	468.000000
##	[971]	7533.272727	1059.000000	892.000000	430.500000	132.633333
##	[976]	363.318182	73.000000	612.000000	595.009524	1813.208333
##	[981]	102.000000	1278.090909	996.516667	69.500000	1530.248485
##	[986]	2595.280952	471.500000	923.675735	3946.008333	648.400000
##	[991]	263.000000	193.000000	38.000000	1077.869048	266.333333
##	[996]	67.500000	499.666667	286.000000	112.728571	1571.000000
##	[1001]	241.000000	187.000000	451.000000	1741.483333	838.683333
##	[1006]	406.000000	437.187500	898.500000	215.750000	266.583333
##	[1011]	546.000000	2156.000000	557.166667	461.050000	1473.333333
##	[1016]	474.833333	500.000000	369.000000	136.666667	243.200000
##	[1021]	459.000000	441.466667	328.000000	518.666667	631.458333
##	[1026]	1849.833333	436.000000	850.333333	457.795727	143.000000
##	[1031]	3224.819084	1038.845238	216.000000	363.666667	1314.250000
##	[1036]	146.000000	228.000000	419.750000	395.222222	945.010870
##	[1041]	90.000000	936.833333	447.500000	416.400000	1051.248276
##	[1046]	1218.000000	756.333333	151.500000	1387.606061	1418.000000
##	[1051]	437.222222	411.500000	474.666667	1415.625000	1448.752381
##	[1056]	2777.666667	1436.500000	224.000000	3087.000000	3424.583333
##	[1061]	1418.500000	423.000000	651.400000	249.500000	337.000000
##	[1066]	1377.769697	66.833333	957.000000	1166.726190	4099.737392
##	[1071]	205.976191	1644.000000	268.000000	2905.943651	419.000000
##	[1076]	279.000000	1286.688889	1616.083333	2755.670940	655.783333
##	[1081]	917.350000	353.000000	835.833333	338.127273	1572.571429
##	[1086]	1321.059195	502.458333	1424.928571	2448.784448	1480.666667
##	[1091]	25.500000	952.434524	854.333333	39.000000	1332.833333
##	[1096]	467.916667	674.250000	2207.391667	300.000000	177.500000
##	[1101]	311.500000	486.516667	1418.250000	391.850000	142.666667
##	[1106]	1659.319697	1560.601163	1451.227362	2588.958333	496.583333
##	[1111]	678.273809	163.000000	286.500000	1395.258333	416.666667
##	[1116]	413.800000	403.000000	106.000000	515.000000	1720.000000
##	[1121]	226.500000	130.166667	192.933333	745.333333	233.000000
##	[1126]	1409.809524	448.500000	73.750000	386.150000	638.833333
##	[1131]	489.583333	660.816667	1489.144444	2270.833333	121.000000

## [1136]	296.000000	481.833333	309.933333	851.000000	88.333333
## [1141]	893.100000	526.333333	535.345960	884.633333	2175.993651
## [1146]	1028.116667	93.000000	1373.464719	991.367857	1.000000
## [1151]	147.250000	1225.500000	183.000000	250.800000	148.250000
## [1156]	504.083333	1650.416667	2743.216667	1288.533333	1663.761905
## [1161]	1165.583333	1038.916667	1302.500000	172.500000	925.947619
## [1166]	1524.702381	288.000000	1476.300000	685.000000	2396.690316
## [1171]	451.833333	1512.523810	306.500000	3332.293511	2815.416667
## [1176]	956.500000	1500.422543	2271.000000	588.166667	1212.809524
## [1181]	792.722222	439.523810	525.266667	1337.842794	1770.625000
## [1186]	1084.500000	4261.842857	527.208333	110.000000	1733.666667
## [1191]	198.522150	504.000000	1588.666667	381.500000	1173.070000
## [1196]	878.623809	1928.000000	2735.728571	4163.797619	1728.321429
## [1201]	449.600000	243.666667	2760.716667	1503.250000	591.166667
## [1206]	402.500000	1540.583333	1561.083333	1330.300000	360.750000
## [1211]	245.500000	608.416667	708.250000	157.500000	1123.242857
## [1216]	926.633333	2808.666667	1685.266667	2124.726768	1272.916667
## [1221]	474.500000	180.333333	1607.297619	126.666667	865.277778
## [1226]	2612.357143	850.208333	556.666667	186.700000	6737.271825
## [1231]	1762.250000	8961.407671	128.000000	213.500000	849.883333
## [1236]	316.000000	4114.083333	1470.966667	189.000000	780.166667
## [1241]	73.500000	717.616667	3641.213151	1040.750000	833.233333
## [1246]	453.625000	51.250000	1229.289286	1202.000000	538.000000
## [1251]	1775.516667	638.000000	558.800000	190.000000	302.000000
## [1256]	796.957143	314.900000	789.958333	422.833333	362.000000
## [1261]	628.833333	839.500000	5764.366667	161.000000	739.833333
## [1266]	66.000000	2377.000000	381.000000	2559.898333	553.150000
## [1271]	651.000000	1957.616667	1660.222222	170.000000	47.000000
## [1276]	165.000000	406.866667	570.516667	1138.500000	2777.616667
## [1281]	463.758333	775.500000	490.066667	266.016667	1306.000000
## [1286]	634.200000	1220.433333	1750.333333	1087.250000	762.547619
## [1291]	244.500000	1010.000000	1342.666667	1593.388889	639.000000
## [1296]	521.000000	377.500000	494.666667	1003.965152	536.683333
## [1301]	3025.521713	424.000000	171.500000	1231.136508	266.500000
## [1306]	1533.000000	1300.190476	804.283333	734.583333	3113.516667
## [1311]	114.833333	95.500000	93.666667	26.000000	1136.603030
## [1316]	2989.494048	1724.250000	333.600000	334.785714	355.166667
## [1321]	456.666667	1298.500000	2258.833333	2881.133333	206.500000
## [1326]	267.833333	454.000000	717.600000	1069.168290	807.833333
## [1331]	477.000000	134.900000	314.000000	637.000000	160.500000
## [1336]	1577.000000	660.166667	89.333333	2517.048459	86.000000
## [1341]	229.750000	498.333333	1039.766667	369.166667	1669.000000
## [1346]	44.500000	140.000000	250.166667	221.200000	127.000000
## [1351]	229.333333	370.833333	1583.596154	399.693939	457.000000
## [1356]	581.416667	574.666667	1011.000000	139.833333	608.833333
## [1361]	1251.000000	264.500000	1509.800000	356.800000	598.783333
## [1366]	1141.833333	1209.802992	1107.047619	4996.666667	936.166667
## [1371]	666.100000	170.833333	1118.647186	1206.614719	2174.375000
## [1376]	330.000000	437.250000	3211.827706	3036.400000	640.666667
## [1381]	480.250000	1350.391667	976.200000	70.200000	2126.461941
## [1386]	1112.000000	409.750000	401.285714	423.833333	115.000000
## [1391]	427.166667	609.500000	547.333333	2062.890972	1077.007576
## [1396]	1606.333333	775.333333	973.500000	727.500000	710.250000
## [1401]	3644.752381	1089.750000	494.000000	2566.220887	1049.516667

## [1406]	685.950000	758.166667	1852.750000	2517.000000	751.333333
## [1411]	1549.857143	202.250000	669.967949	1088.830952	2151.000000
## [1416]	130.500000	2866.902020	608.942857	4056.175369	771.591667
## [1421]	491.100000	602.166667	77.333333	4.000000	103.666667
## [1426]	387.884615	345.383333	1001.000000	70.666667	1298.000000
## [1431]	1686.966667	370.500000	89.000000	164.333333	2244.666667
## [1436]	3246.977381	1573.233333	779.505159	2625.009524	3266.127778
## [1441]	303.250000	806.666667	465.416667	1018.000000	261.500000
## [1446]	910.000000	4270.141667	413.000000	372.800000	550.500000
## [1451]	1300.728987	68.750000	684.727273	1253.333333	331.000000
## [1456]	1791.700000	1596.672282	9128.283883	313.000000	204.000000
## [1461]	2490.138095	162.750000	9694.260714	1762.500000	2183.500000
## [1466]	234.475000	139.708333	1371.633333	711.566667	232.666667
## [1471]	51.500000	176.819363	240.000000	415.833333	200.850000
## [1476]	2372.333333	574.833333	1045.102381	971.000000	1589.273810
## [1481]	1656.666667	1246.919048	597.600000	3888.166667	2600.258333
## [1486]	709.000000	82.000000	760.250000	1362.000000	924.333333
## [1491]	1440.298918	856.752240	513.466667	748.566667	383.083333
## [1496]	976.710317	1916.633333	1266.119048	1679.833333	315.166667
## [1501]	290.000000	463.500000	1833.000000	196.000000	1200.892857
## [1506]	139.333333	665.566667	151.900000	1620.000000	1268.000000
## [1511]	969.102381	773.466667	808.166667	469.876191	823.500000
## [1516]	201.000000	1063.950000	412.000000	1789.398810	644.125000
## [1521]	529.702381	221.714286	312.333333	325.750000	2717.327381
## [1526]	3380.691558	614.944444	1274.190476	1071.611111	408.000000
## [1531]	2335.064286	18.000000	1299.383333	489.000000	233.666667
## [1536]	71.000000	1266.500000	182.583333	169.300000	1358.750000
## [1541]	131.000000	2816.438810	3484.233333	1076.500000	357.250000
## [1546]	197.000000	489.145238	610.000000	588.666667	580.200000
## [1551]	999.000000	622.000000	1005.849206	3451.751515	2217.333333
## [1556]	485.666667	484.950000	284.000000	1219.113725	574.722619
## [1561]	4053.092208	1485.416667	634.166667	1182.106162	333.750000
## [1566]	550.066667	2243.666667	2193.150794	289.850000	909.500000
## [1571]	1436.450000	1998.444081	777.500000	126.500000	598.450000
## [1576]	87.714286	1834.166667	1365.216667	1005.806061	5186.116667
## [1581]	2211.608333	167.000000	2102.581502	2003.415152	1490.552778
## [1586]	1988.658333	148.750000	134.000000	191.071429	809.245635
## [1591]	262.166667	234.992424	258.000000	133.333333	255.300000
## [1596]	1524.748377	1306.666667	224.166667	473.683333	686.400000
## [1601]	3537.991667	1896.272222	598.297619	127.500000	154.000000
## [1606]	5349.563713	98.500000	810.000000	903.000000	2973.008333
## [1611]	1093.000000	137.000000	136.750000	384.000000	1975.458333
## [1616]	758.750000	1267.155556	381.333333	1271.821212	827.646212
## [1621]	1011.500000	1267.233333	4891.972222	694.303571	4764.429997
## [1626]	1350.500000	1385.833333	285.988095	45.500000	1507.333333
## [1631]	1460.566667	214.000000	136.500000	545.571429	1244.833333
## [1636]	555.894444	429.633333	111.000000	402.690476	292.694444
## [1641]	654.066667	4990.959524	158.000000	3332.208333	4164.936905
## [1646]	1194.500000	638.333333	152.250000	631.500000	6860.632738
## [1651]	271.125000	2564.278157	896.500000	4895.022989	2293.599020
## [1656]	1449.683333	1403.841919	227.000000	461.083333	762.500000
## [1661]	74.500000	898.000000	91.000000	583.166667	392.928571
## [1666]	2819.966667	1888.500000	1801.371429	13158.666670	252.500000
## [1671]	851.333333	253.333333	717.219048	370.333333	5198.533333

## [1676]	1148.838095	152.666667	474.000000	907.500000	505.333333
## [1681]	497.000000	1103.916667	866.700000	1492.166667	137.500000
## [1686]	950.328571	1711.333333	2487.333333	829.500000	1163.333333
## [1691]	1171.333333	131.500000	81.500000	394.500000	336.000000
## [1696]	452.797619	2281.208333	1262.833333	2338.567766	597.833333
## [1701]	549.083333	1742.325216	787.200000	1239.500000	867.333333
## [1706]	4093.430519	216.166667	659.083333	2265.529221	729.000000
## [1711]	1299.500000	129.333333	122.000000	1294.251207	246.791667
## [1716]	2889.250000	3882.025758	4207.666667	199.500000	2529.750000
## [1721]	2081.000000	1845.666667	1927.031548	831.933333	706.299603
## [1726]	1888.547619	2407.322811	1528.382468	599.100000	4656.800366
## [1731]	151.200000	5378.045851	748.400000	314.833333	867.833333
## [1736]	379.000000	66.500000	994.822222	824.666667	443.933333
## [1741]	906.300000	117.000000	2424.750000	311.000000	2418.529040
## [1746]	905.600000	986.500000	3121.555556	1378.966667	3003.419048
## [1751]	2053.933333	212.500000	785.474359	316.333333	769.500000
## [1756]	298.166667	1808.333333	1184.500000	184.500000	2573.875000
## [1761]	2121.304304	4639.410534	315.366667	1464.000000	1483.550000
## [1766]	2247.608298	950.000000	6254.420122	205.000000	1570.500000
## [1771]	295.900000	524.500000	674.434524	931.500000	672.879487
## [1776]	3022.478571	877.500000	412.833333	486.500000	1221.853846
## [1781]	1370.833333	1652.000000	178.333333	1146.500000	2680.828571
## [1786]	197.500000	2295.182143	248.900000	1151.116667	830.000000
## [1791]	125.250000	2172.333333	4945.083333	358.250000	233.166667
## [1796]	528.000000	1154.766667	1522.816667	468.166667	432.500000
## [1801]	1100.916667	663.233333	2874.083333	1813.864610	214.692208
## [1806]	78.500000	534.583333	262.666667	1056.150000	1273.875000
## [1811]	875.500000	582.000000	63.666667	1443.250000	569.119048
## [1816]	386.444444	399.500000	238.500000	1506.220833	588.900000
## [1821]	1719.416667	1906.800000	457.233333	227.333333	517.500000
## [1826]	570.333333	183.095238	366.000000	280.933333	265.600000
## [1831]	109.000000	901.250000	1406.209524	972.250000	965.833333
## [1836]	236.166667	879.666667	1044.000000	901.091667	1671.257393
## [1841]	1483.366667	5538.916667	191.000000	451.933333	670.300000
## [1846]	900.916667	368.000000	1580.166667	587.691176	2471.391775
## [1851]	502.466667	3864.428571	2456.297619	2656.183333	599.000000
## [1856]	1212.000000	173.250000	599.333333	2215.866667	5284.765079
## [1861]	433.133333	1690.790351	1621.152083	454.500000	911.500000
## [1866]	1019.293939	715.500000	3147.584294	321.958333	169.500000
## [1871]	2104.311400	499.000000	120.000000	7009.095996	8704.372405
## [1876]	2058.250000	580.500000	1701.857143	312.700000	202.000000
## [1881]	908.333333	480.500000	3473.857143	277.000000	273.000000
## [1886]	360.000000	1127.250000	996.083333	227.700000	579.333333
## [1891]	237.000000	678.500000	3098.033333	285.166667	340.200000
## [1896]	231.000000	2054.114286	2008.833333	1065.900000	619.000000
## [1901]	584.133333	4107.119658	293.500000	229.666667	155.833333
## [1906]	1688.058761	3509.130952	866.500000	755.000000	1681.523810
## [1911]	2635.616270	231.500000	194.333333	1564.161905	854.286325
## [1916]	124.500000	1021.750000	2660.150000	1135.166667	298.233333
## [1921]	554.500000	335.666667	2107.583333	96.333333	2755.336111
## [1926]	653.277778	964.047619	650.666667	256.666667	1516.966667
## [1931]	648.067857	462.000000	630.500000	688.666667	285.416667
## [1936]	61.333333	2961.483333	3222.758730	500.788095	375.750000
## [1941]	534.916667	2098.238095	869.100000	1494.500000	699.250000

## [1946]	331.333333	1563.930952	419.250000	4643.755952	564.500000
## [1951]	65.666667	1462.659125	404.619048	960.733333	726.276190
## [1956]	4415.333333	723.315873	1088.050000	1688.726190	998.954545
## [1961]	1654.722222	281.500000	1501.000000	153.583333	483.583333
## [1966]	586.333333	2213.000000	178.000000	1150.192063	892.916667
## [1971]	173.000000	289.666667	633.985714	1837.966667	8038.325302
## [1976]	706.983766	11308.097950	501.500000	497.666667	4115.978571
## [1981]	2.333333	121.500000	869.000000	865.000000	220.333333
## [1986]	657.166667	1517.900000	538.287879	4139.625000	832.833333
## [1991]	464.000000	673.481380	217.000000	472.995238	1500.380952
## [1996]	692.666667	9487.639162	455.500000	259.000000	2065.150000
## [2001]	4190.750000	129.200000	607.466667	8699.407065	2022.250000
## [2006]	761.250000	874.583333	1483.000000	639.500000	356.000000
## [2011]	2132.683333	431.083333	401.950000	2524.000000	822.650000
## [2016]	1714.166667	783.500000	3258.071212	1329.261905	87.000000
## [2021]	813.800000	1039.477564	531.000000	1239.083333	1306.028022
## [2026]	543.750000	258.833333	623.416667	1040.333333	3395.729484
## [2031]	701.500000	2059.109203	203.416667	197.333333	300.666667
## [2036]	471.000000	7968.903361	2607.500000	865.672222	1076.977778
## [2041]	2818.094444	234.966667	935.000000	1662.733333	436.600000
## [2046]	716.625000	1223.416667	1286.750000	897.666667	2178.672222
## [2051]	3195.828571	1143.657143	2871.262932	417.966667	1248.000000
## [2056]	837.666667	418.233333	370.000000	743.916667	3178.583333
## [2061]	463.666667	178.600000	689.750000	963.166667	387.000000
## [2066]	534.000000	338.233333	255.750000	228.500000	72.900000
## [2071]	982.833333	473.500000	636.000000	1806.504167	1111.245175
## [2076]	1055.500000	2697.487879	272.333333	895.809524	607.977778
## [2081]	615.816667	1133.666667	2759.833333	1433.083333	743.666667
## [2086]	680.750000	118.666667	136.000000	2236.900000	2841.000000
## [2091]	895.833333	2559.541228	1161.767949	252.000000	385.000000
## [2096]	1550.211111	1738.250000	176.666667	3.000000	304.523077
## [2101]	268.500000	101.250000	361.500000	492.683333	397.666667
## [2106]	4290.833333	2542.333333	3657.101515	920.000000	670.422619
## [2111]	2101.466667	578.333333	502.500000	1283.052597	226.256410
## [2116]	1535.242063	762.333333	1266.333333	1050.708333	212.833333
## [2121]	1386.716667	2514.250000	1968.250000	1517.750000	1056.666667
## [2126]	399.000000	2743.819189	769.000000	178.833333	517.392857
## [2131]	1683.633333	833.000000	319.333333	733.500000	822.000000
## [2136]	838.550000	2479.000000	519.500000	1035.935714	219.500000
## [2141]	858.500000	54.500000	107.000000	342.500000	1138.504762
## [2146]	544.833333	176.333333	3227.500000	440.666667	2297.801282
## [2151]	22.500000	194.066667	2145.563492	1703.321429	1999.833333
## [2156]	3382.287999	2038.000000	2409.068434	9487.940434	4668.052051
## [2161]	201.666667	156.833333	412.166667	2617.233333	465.705128
## [2166]	803.000000	887.583333	394.250000	1941.083333	142.500000
## [2171]	270.214286	541.666667	1090.060606	253.800000	2259.533333
## [2176]	797.333333	594.966667	108.000000	503.000000	1425.750000
## [2181]	188.500000	1722.866667	1078.727778	2050.395743	1040.166667
## [2186]	1803.758333	2241.844444	482.500000	1225.857143	573.166667
## [2191]	507.833333	458.500000	724.000000	93.500000	483.300000
## [2196]	511.166667	2129.536752	480.300000	352.800000	657.500000
## [2201]	1384.383333	1280.166667	1822.008117	1269.766667	149.600000
## [2206]	1817.000000	9143.435714	1080.150000	316.250000	1783.250000
## [2211]	1384.533333	996.438095	368.500000	1285.548533	6223.870847



## [2216]	841.033333	1250.500000	699.500000	1766.855952	567.450000
## [2221]	90.666667	981.166667	1661.750000	548.250000	808.083333
## [2226]	87.500000	1875.744689	4346.916667	884.335714	1678.733333
## [2231]	325.833333	549.500000	4277.000000	179.500000	561.550000
## [2236]	2136.000000	2797.816667	643.875000	898.833333	453.000000
## [2241]	888.000000	9997.728571	5703.476786	1495.580952	2905.500000
## [2246]	1192.317857	355.666667	332.500000	297.300000	2309.995238
## [2251]	810.371377	384.500000	975.972222	3382.083333	541.500000
## [2256]	1343.097619	953.833333	674.500000	817.016377	1124.916667
## [2261]	7428.181584	5577.826456	887.833333	2765.200000	3121.283333
## [2266]	1190.548851	410.916667	710.500000	319.666667	401.500000
## [2271]	1311.072012	414.333333	1155.033333	1589.183333	233.500000
## [2276]	1384.071429	452.814103	1708.083333	3374.916667	5448.994444
## [2281]	654.500000	1435.000000	512.066667	797.295238	555.866667
## [2286]	2954.759524	97.166667	291.000000	472.000000	628.000000
## [2291]	1141.061905	273.500000	461.222222	1783.122222	731.523809
## [2296]	3057.809524	601.790196	1370.067857	321.666667	540.500000
## [2301]	4977.850000	1066.166667	1142.666667	1294.183333	1086.178571
## [2306]	754.226191	432.571429	1051.500000	1101.333333	2477.666667
## [2311]	1501.166667	1736.447368	269.000000	833.083333	86.750000
## [2316]	547.000000	1474.500000	323.500000	813.051948	2028.500000
## [2321]	2220.871465	440.000000	1356.000000	438.583333	347.666667
## [2326]	2931.580303	1462.450000	727.619048	553.166667	460.666667
## [2331]	2837.166667	264.000000	1638.888095	1383.500000	1382.665140
## [2336]	352.500000	1444.166667	250.083333	327.500000	1085.078571
## [2341]	2665.798039	816.500000	2877.500000	448.033333	6842.002513
## [2346]	2645.833333	586.189286	1133.016667	562.666667	3000.250794
## [2351]	816.954545	1861.500000	815.000000	165.500000	1090.916667
## [2356]	133.000000	533.071429	303.400000	516.476191	72.500000
## [2361]	652.923809	3393.903571	466.500000	2778.333333	677.500000
## [2366]	908.466667	346.833333	661.630952	324.000000	670.166667
## [2371]	183.833333	5633.538274	936.000000	1329.666667	1026.750000
## [2376]	2068.928571	118.000000	953.068687	714.500000	1797.298291
## [2381]	154.500000	805.099298	138.500000	1190.616667	411.388889
## [2386]	778.761905	512.050000	998.400000	1049.833333	472.916667
## [2391]	5645.176455	1615.000000	28.333333	283.500000	2694.833333
## [2396]	1130.846970	2478.622727	1714.400000	2213.366667	739.583333
## [2401]	3206.193407	1243.500000	1448.333333	304.000000	304.500000
## [2406]	1699.666667	4833.925000	3731.138116	1263.333333	4509.823016
## [2411]	585.178355	536.000000	2197.195238	72.666667	542.333333
## [2416]	342.166667	1190.418903	74.666667	1978.214286	3129.393438
## [2421]	751.500000	2748.624538	321.833333	2926.431962	2070.643939
## [2426]	214.333333	1592.133333	986.916667	418.333333	536.500000
## [2431]	410.116667	2650.408502	450.200000	2749.058333	1959.304762
## [2436]	869.061111	1320.500000	976.338235	522.000000	1008.916667
## [2441]	931.000000	933.333333	1552.547619	3439.733242	1851.500000
## [2446]	457.583333	2081.500000	1310.472222	1001.166667	3436.066667
## [2451]	198.166667	296.233333	1649.000000	574.333333	2643.333333
## [2456]	706.000000	2996.487500	2171.174592	255.638889	1925.102381
## [2461]	202.333333	380.166667	4324.737073	2114.083333	894.000000
## [2466]	85.000000	625.085689	164.500000	275.666667	5044.756890
## [2471]	691.000000	1569.866667	1368.484848	1697.550000	1134.500000
## [2476]	2787.250000	297.250000	352.083333	1486.666667	1164.099635
## [2481]	1360.500000	1942.933333	133.833333	1407.500000	1187.500000

## [2486]	1090.566667	115.500000	463.000000	91.500000	840.833333
## [2491]	895.973169	76.500000	104.333333	345.166667	869.800000
## [2496]	980.833333	1438.722222	423.666667	185.500000	421.166667
## [2501]	578.200000	6931.049725	522.666667	1720.416667	2464.900000
## [2506]	5459.967105	328.416667	1046.500000	354.250000	127.666667
## [2511]	455.000000	2153.718590	166.250000	578.000000	341.350000
## [2516]	40.500000	2826.790048	2078.666667	881.166667	950.833333
## [2521]	2279.222222	217.866667	1390.866667	591.892857	1829.183333
## [2526]	903.700000	2946.600000	740.500000	4566.238095	3158.561476
## [2531]	441.216667	242.000000	1439.500000	312.666667	56.333333
## [2536]	689.383333	614.333333	422.730303	485.283974	2588.077268
## [2541]	603.707143	600.000000	82.833333	483.266667	272.666667
## [2546]	4051.375000	1725.870671	359.000000	676.166667	707.266667
## [2551]	1178.000000	1916.900000	2773.166667	631.666667	1340.750000
## [2556]	282.500000	434.000000	464.666667	240.500000	530.000000
## [2561]	495.273810	2232.450000	151.000000	1845.166667	1523.050000
## [2566]	70.000000	1552.883333	381.357143	5604.977381	1239.949603
## [2571]	265.250000	657.666667	1157.452381	1673.653846	355.500000
## [2576]	5621.599206	2806.829918	557.245238	650.033333	1614.226190
## [2581]	2973.125000	3014.290476	801.509524	363.500000	1087.000000
## [2586]	681.619048	1243.180556	2504.699567	1903.666667	343.200000
## [2591]	653.000000	1564.444444	2509.250000	646.791667	209.833333
## [2596]	713.000000	112.500000	630.316667	6141.432139	536.266667
## [2601]	590.516667	490.533333	631.000000	916.250000	571.500000
## [2606]	1025.000000	1143.348504	975.750000	139.500000	3827.753571
## [2611]	2058.534091	1639.500000	720.500000	472.666667	568.478261
## [2616]	569.166667	1669.559524	986.833333	2414.900000	330.083333
## [2621]	744.833333	1540.750000	89.500000	1723.000000	1576.205078
## [2626]	506.000000	537.000000	239.750000	1470.333333	105.250000
## [2631]	1636.500000	273.250000	1623.500000	1643.333333	1080.266667
## [2636]	152.000000	574.500000	142.416667	1420.472496	3291.000000
## [2641]	1144.483333	404.000000	714.966667	527.500000	4313.139103
## [2646]	454.750000	1205.566667	1652.750000	239.500000	1539.000000
## [2651]	192.500000	2208.788095	2062.443592	1456.783333	604.000000
## [2656]	362.500000	1584.300000	3855.200000	543.833333	574.000000
## [2661]	127.750000	2666.000000	1166.333333	4758.380638	308.000000
## [2666]	2463.244841	958.250000	516.416667	689.666667	887.354762
## [2671]	2026.476190	529.333333	2376.861905	1564.173810	1180.000000
## [2676]	291.600000	871.833333	3098.992857	2340.500000	1927.122222
## [2681]	143.750000	553.000000	855.000000	880.800000	1721.125000
## [2686]	3345.685836	809.166667	466.750000	1513.000000	769.992857
## [2691]	317.500000	12065.181350	616.433333	978.000000	487.666667
## [2696]	647.500000	204.500000	72.000000	143.850000	258.083333
## [2701]	99.700000	1886.500000	1987.533333	391.866667	791.955952
## [2706]	2259.200000	1232.733333	1397.500000	183.500000	765.445454
## [2711]	1006.666667	764.750000	1304.666667	1336.554221	336.800000
## [2716]	813.100000	664.333333	655.000000	5407.788889	691.500000
## [2721]	3772.405525	24.500000	2154.723810	883.000000	632.000000
## [2726]	180.500000	73.666667	1097.050000	611.000000	724.133333
## [2731]	441.000000	1803.584127	855.250000	466.666667	2311.090909
## [2736]	309.800000	889.000000	78.250000	142.166667	647.666667
## [2741]	836.833333	1145.571429	984.000000	2797.213095	388.744444
## [2746]	3872.509420	818.500000	4115.233333	146.766667	3268.075758
## [2751]	295.000000	261.600000	413.722222	1005.000000	2222.900000

## [2756]	467.952381	870.666667	1010.166667	27.500000	1353.115146
## [2761]	542.166667	623.966667	782.500000	442.166667	696.402778
## [2766]	443.208333	262.000000	1144.000000	251.333333	468.191667
## [2771]	180.000000	1993.915257	174.833333	1501.333333	1584.044444
## [2776]	438.075000	687.533333	826.850000	4086.144897	894.666667
## [2781]	1858.733333	368.333333	211.333333	1197.666667	671.666667
## [2786]	3473.733333	2515.100000	967.250000	388.500000	906.000000
## [2791]	548.883117	262.375000	549.000000	1564.000000	884.804062
## [2796]	1651.928571	243.833333	5492.366667	731.333333	1752.942857
## [2801]	274.250000	3583.166667	474.681818	71.750000	6100.527778
## [2806]	3646.278788	778.000000	592.566667	343.666667	1249.628205
## [2811]	1260.666667	1377.409524	675.833333	1259.000000	1472.000000
## [2816]	2394.000000	190.400000	253.166667	579.583333	297.000000
## [2821]	597.333333	2900.638469	934.000000	1098.000000	5478.530087
## [2826]	1873.166667	2129.333333	1721.872725	655.166667	1008.416667
## [2831]	1033.066667	463.416667	4153.276587	456.333333	84.333333
## [2836]	56.500000	128.333333	1205.583333	4987.688889	1845.333333
## [2841]	1195.726923	457.404780	189.666667	788.266667	1647.500000
## [2846]	1483.333333	304.750000	1207.000000	893.450000	794.500000
## [2851]	2725.000000	746.166667	433.833333	123.500000	1905.652754
## [2856]	162.500000	304.166667	2246.166667	2210.500000	417.000000
## [2861]	689.000000	789.666667	879.916667	202.833333	506.766667
## [2866]	806.500000	1835.066667	5016.351205	5664.146032	7515.583333
## [2871]	1248.242262	1485.566667	2816.553070	3209.000000	1420.733333
## [2876]	347.000000	45.333333	287.291667	1580.000000	2071.000000
## [2881]	190.750000	4377.983333	519.916667	618.000000	193.333333
## [2886]	1296.942857	305.428571	440.600000	1689.000000	1518.903694
## [2891]	727.714286	302.983333	2831.561111	480.857143	1575.216667
## [2896]	1546.503822	944.297619	186.000000	796.300000	1035.821429
## [2901]	298.500000	2886.523521	2663.823810	2789.166667	982.000000
## [2906]	295.666667	3242.000000	1735.595238	908.500000	2094.983333
## [2911]	608.400000	203.666667	3731.079365	1042.416667	1034.583333
## [2916]	590.833333	819.000000	2091.662821	3279.407576	896.066667
## [2921]	309.000000	1609.313889	887.916667	462.733333	1192.500000
## [2926]	3085.007143	260.200000	1425.183333	746.800000	1193.000000
## [2931]	2387.990657	3068.922487	3096.375000	1040.200000	180.166667
## [2936]	1217.200000	80.500000	3272.000000	1075.759524	399.666667
## [2941]	166.166667	77.666667	641.500000	5432.836783	380.000000
## [2946]	1556.600000	752.459208	2451.869048	777.217532	1295.916667
## [2951]	1222.333333	1212.030303	783.450000	2574.725974	648.000000
## [2956]	2277.377056	3981.892484	222.666667	2454.450000	1479.083333
## [2961]	5233.590476	3156.501914	525.666667	341.366667	152.333333
## [2966]	619.400000	1545.833333	1525.666667	1838.500000	693.500000
## [2971]	1337.245455	2199.972222	374.380952	819.916667	953.500000
## [2976]	4877.257071	83.500000	1363.263492	1859.083333	2453.750000
## [2981]	135.833333	165.800000	196.833333	207.166667	535.466667
## [2986]	1342.500000	520.600000	290.833333	538.966667	319.500000
## [2991]	168.285714	1562.866667	310.500000	411.800000	1706.712281
## [2996]	1431.666667	1230.368182	259.500000	960.833333	2130.025000
## [3001]	4569.904365	1496.833333	376.333333	805.000000	506.716667
## [3006]	596.083333	313.333333	452.583333	1620.183333	963.000000
## [3011]	327.666667	743.166667	679.500000	2598.991667	813.388889
## [3016]	6483.775000	408.250000	3646.966667	2058.500000	1115.459524
## [3021]	831.690476	126.833333	1365.500000	1624.223485	1511.000000

## [3026]	364.666667	1073.500000	957.900000	1608.500000	1075.713095
## [3031]	994.575758	1137.166667	2039.000000	1603.333333	2531.060479
## [3036]	601.971429	862.000000	1840.666667	2299.391667	5426.022078
## [3041]	3098.912088	337.166667	2326.666667	736.783333	1123.691667
## [3046]	1232.026840	1367.630952	1887.694444	443.000000	1388.866667
## [3051]	1107.466667	2533.833333	51.000000	637.500000	669.916667
## [3056]	1005.946429	1270.166667	186.166667	140.500000	147.000000
## [3061]	973.583333	306.333333	3386.000000	117.666667	1160.000000
## [3066]	1324.666667	1058.189474	354.833333	2241.500000	518.000000
## [3071]	764.500000	582.400000	798.535714	629.500000	623.076923
## [3076]	6657.151362	2213.819048	647.816667	645.500000	1221.138095
## [3081]	606.785714	4773.335638	3700.495815	307.571429	747.400000
## [3086]	1578.000000	1810.966667	710.000000	338.500000	237.333333
## [3091]	190.250000	2544.166667	2605.702273	296.550000	426.000000
## [3096]	598.778571	885.125000	783.250000	259.666667	177.404762
## [3101]	99.000000	1900.896078	1296.716667	926.669048	5343.049577
## [3106]	1296.183333	1159.666667	496.666667	624.624896	177.333333
## [3111]	2869.788095	210.200000	377.000000	667.666667	350.833333
## [3116]	3394.130159	545.500000	1324.616667	322.000000	1373.950000
## [3121]	939.633333	3970.700000	2325.611905	90.750000	209.000000
## [3126]	443.250000	1044.800000	783.566667	2124.833333	402.716667
## [3131]	557.404762	1062.749495	1231.200000	98.333333	5293.824709
## [3136]	1230.312302	710.908333	356.500000	1975.633333	248.833333
## [3141]	1311.000000	2473.250000	110.750000	581.226191	1634.095238
## [3146]	473.750000	602.000000	4651.033333	2854.783333	701.000000
## [3151]	506.166667	791.000000	401.166667	852.766667	2670.869444
## [3156]	898.171429	243.416667	7675.149290	182.166667	547.500000
## [3161]	3540.239394	1386.633333	673.125000	158.333333	1523.416667
## [3166]	856.333333	289.750000	2555.123810	566.500000	453.333333
## [3171]	489.250000	6266.208586	88.950000	2423.750000	1606.831818
## [3176]	692.622222	48.500000	2232.500000	90.333333	13259.293960
## [3181]	149.500000	1638.500000	1926.333390	845.833333	2950.623810
## [3186]	813.000000	1390.388889	1345.755952	1369.750000	138.800000
## [3191]	1164.416667	1740.271008	1994.500000	283.000000	459.666667
## [3196]	1527.166667	1151.200000	266.000000	2061.066667	360.083333
## [3201]	989.333333	1822.841667	2080.750000	407.500000	2782.750000
## [3206]	285.666667	1381.750000	3289.500000	19.600000	488.333333
## [3211]	760.000000	401.968254	2072.991919	2504.413636	488.000000
## [3216]	1505.333333	2763.250000	947.000000	365.750000	363.300000
## [3221]	1188.950000	312.033333	244.666667	338.857143	219.000000
## [3226]	2964.590278	1820.566667	888.333333	785.383333	528.196429
## [3231]	177.733333	502.000000	1148.500000	13430.976060	682.200000
## [3236]	1933.898930	1632.733333	737.261905	113.000000	722.700000
## [3241]	1058.023810	1456.273810	3909.620363	1219.516667	4516.588312
## [3246]	1839.833333	1217.430556	2088.443506	3503.025000	2715.000000
## [3251]	351.750000	819.833333	193.500000	174.500000	287.750000
## [3256]	1326.250000	386.850000	4322.779121	1229.166667	4555.023810
## [3261]	1956.022222	584.333333	497.538889	5072.395938	115.050000
## [3266]	477.500000	3727.323810	668.250000	677.950000	364.416667
## [3271]	384.157143	1844.416667	1115.878205	12.500000	598.600000
## [3276]	1019.500000	5996.025000	3593.129320	1687.850000	3372.826797
## [3281]	392.166667	559.380952	421.600000	538.200000	1471.858333
## [3286]	304.275000	2425.083333	223.333333	2584.714286	1739.250000
## [3291]	569.513889	1420.547902	591.250000	167.500000	567.750000

## [3296]	106.500000	2461.250000	1038.797619	724.333333	1238.375000
## [3301]	1306.100000	335.000000	1193.333333	1930.333333	1175.500000
## [3306]	3083.050977	739.066667	1233.250000	1660.354762	221.000000
## [3311]	1039.244444	270.571429	384.400000	228.666667	2351.333333
## [3316]	501.750000	267.500000	1599.266667	2042.250000	990.919118
## [3321]	443.500000	2958.500000	1307.666667	1723.750000	352.416667
## [3326]	257.000000	1149.433333	364.500000	124.000000	777.000000
## [3331]	726.000000	700.666667	1282.000000	1165.623254	3510.416667
## [3336]	442.000000	612.750000	1580.600000	1090.533333	743.011905
## [3341]	2228.516667	345.250000	852.333333	1122.583333	716.950000
## [3346]	412.333333	3373.015865	498.500000	2852.000000	209.250000
## [3351]	3837.500000	1205.945238	5731.094444	1077.000000	1238.066667
## [3356]	728.200000	2218.276547	5882.174206	819.166667	570.500000
## [3361]	1527.607143	831.608333	952.533333	478.500000	1699.327668
## [3366]	47.500000	859.166667	708.916667	3712.811600	1279.333333
## [3371]	634.000000	3086.398654	174.000000	2205.666667	553.500000
## [3376]	1644.857143	3900.428571	944.233333	1137.000000	1340.611199
## [3381]	1348.700000	752.716667	2734.818254	2498.029762	974.269841
## [3386]	1728.025397	77.500000	698.833333	34.833333	986.516667
## [3391]	597.000000	606.500000	246.933333	1067.795238	698.583333
## [3396]	3095.975000	220.384849	2041.083333	405.333333	237.250000
## [3401]	1364.000000	3177.791667	1045.000000	676.000000	232.833333
## [3406]	3229.169841	584.000000	1179.014103	523.735065	177.666667
## [3411]	157.900000	824.833333	557.333333	499.500000	222.500000
## [3416]	3816.366667	78.666667	543.775000	1248.133333	697.166667
## [3421]	1423.967857	1379.500000	831.666667	186.933333	34.500000
## [3426]	454.289177	1201.600000	180.666667	3825.102381	3639.737302
## [3431]	344.333333	1447.577273	349.000000	1977.050000	706.400000
## [3436]	1815.279762	113.500000	164.916667	838.166667	12634.620890
## [3441]	553.583333	1155.000000	93.700000	4200.597222	141.500000
## [3446]	543.300000	886.958333	1887.158242	565.000000	1032.761905
## [3451]	879.033333	1332.088889	355.000000	272.000000	241.200000
## [3456]	1065.501515	612.583333	2516.833333	1814.564286	1880.966667
## [3461]	868.416667	2980.889179	893.216667	1331.000000	64.500000
## [3466]	4010.064286	2759.633333	2543.500000	1246.124103	850.035714
## [3471]	849.750000	385.500000	9951.869139	1038.333333	741.833333
## [3476]	253.554167	537.200000	1514.600000	3899.001328	2008.807143
## [3481]	1889.700000	725.333333	501.766667	718.666667	450.833333
## [3486]	867.464286	1203.083333	484.000000	595.341667	969.150000
## [3491]	790.166667	4033.471998	460.000000	1167.966667	409.303030
## [3496]	232.566667	1645.966667	428.450000	2872.916667	100.500000
## [3501]	1622.433333	589.666667	841.166667	1147.615584	2724.008983
## [3506]	248.416667	2537.450000	3733.228571	598.250000	161.166667
## [3511]	1474.233333	116.833333	2054.333333	476.000000	1217.850000
## [3516]	625.000000	1760.000000	1470.416667	4522.409524	1804.900000
## [3521]	63.500000	887.666667	1411.833333	2240.166667	3618.016667
## [3526]	1245.600000	1675.525366	220.966667	959.000000	278.914286
## [3531]	458.700000	759.666667	1740.450000	603.000000	1053.080952
## [3536]	1289.250000	192.750000	463.833333	697.516667	1431.333333
## [3541]	754.916667	161.500000	880.000000	1539.791667	945.666667
## [3546]	1261.166667	1037.807143	526.028138	659.935714	419.352381
## [3551]	1265.750000	2421.060623	4079.530461	428.666667	759.085714
## [3556]	1440.000000	4426.650649	861.333333	619.500000	806.833333
## [3561]	1131.315476	1816.427273	566.727273	468.833333	1247.357143

## [3566]	407.833333	95.300000	92.500000	364.350000	4175.750000
## [3571]	1190.400000	99.666667	5978.180357	2411.789279	111.416667
## [3576]	1225.000000	4681.894444	645.709524	252.892857	1722.500000
## [3581]	35.666667	460.450000	778.358333	713.333333	67.333333
## [3586]	392.466667	198.884849	961.549351	1155.500000	575.000000
## [3591]	881.741270	1511.195238	400.666667	674.247619	723.250000
## [3596]	976.000000	551.666667	446.833333	914.506061	549.916667
## [3601]	1383.166667	1271.333333	359.166667	3010.532051	5287.233333
## [3606]	237.095238	2387.435714	860.316667	148.333333	1089.642857
## [3611]	1229.250000	1934.992857	1905.152381	35.500000	148.000000
## [3616]	733.252381	1559.650000	208.833333	204.166667	434.671429
## [3621]	649.500000	2052.833333	1119.716667	1192.226190	292.000000
## [3626]	491.000000	3141.258333	1222.470924	1552.504762	922.208333
## [3631]	831.388889	593.507143	964.070513	421.250000	1633.833333
## [3636]	2581.208333	513.400000	1971.194444	247.000000	1911.333333
## [3641]	3025.283333	1846.635470	1955.783333	634.666667	724.066667
## [3646]	8388.316083	2162.224767	4339.534423	416.833333	213.366667
## [3651]	1107.666667	1851.833333	1120.266667	1215.766667	2562.083333
## [3656]	2827.428571	3596.933967	1880.271429	4713.800000	1974.702597
## [3661]	960.000000	1189.333333	1021.000000	970.419264	507.333333
## [3666]	1356.457359	2308.261905	935.557143	88.750000	1847.211905
## [3671]	420.200000	109.500000	4167.488095	660.404762	375.661905
## [3676]	1060.451515	1269.500000	2280.833333	2582.696970	548.000000
## [3681]	2046.500000	2530.500000	1705.041667	2066.927778	350.425397
## [3686]	344.500000	586.533333	1557.166667	2915.166667	100.166667
## [3691]	421.500000	1453.900000	408.500000	1244.066667	837.416667
## [3696]	454.226190	1753.583333	1352.816503	1380.833333	684.500000
## [3701]	1586.333333	575.666667	1319.833333	979.016667	948.000000
## [3706]	315.250000	549.333333	304.333333	1527.583333	856.416667
## [3711]	1075.500000	1919.245230	4712.769322	482.666667	2012.900794
## [3716]	1714.868651	650.833333	781.500000	665.984848	255.322222
## [3721]	2083.300000	1143.371078	630.871912	1122.272727	821.333333
## [3726]	7706.546429	626.000000	857.000000	1859.500000	625.308112
## [3731]	1209.761905	801.583333	1115.750000	280.083333	260.300000
## [3736]	1562.000000	3148.173939	464.583333	310.000000	1287.000000
## [3741]	601.768182	3364.191667	490.083333	954.500000	3283.722222
## [3746]	1412.500000	1828.774603	1381.733333	890.000000	1183.500000
## [3751]	536.035714	1917.683333	2362.500000	393.000000	730.533333
## [3756]	1563.000000	717.000000	2928.777778	884.333333	606.416667
## [3761]	261.700000	431.500000	184.833333	1135.860714	815.475000
## [3766]	678.000000	2351.050000	2588.500000	463.333333	1383.191667
## [3771]	877.666667	5883.040509	4501.433700	3357.340476	943.619048
## [3776]	1056.616667	406.800000	48.333333	148.166667	1799.833333
## [3781]	1189.458333	815.833333	703.833333	1066.000000	1630.972222
## [3786]	86.500000	2660.245238	924.000000	1183.233333	1712.833333
## [3791]	1041.316345	814.607143	269.750000	725.900000	768.500000
## [3796]	2506.333333	683.173809	1445.600000	1853.535714	2216.668320
## [3801]	43171.233380	6897.942424	1718.500000	43.500000	1086.074242
## [3806]	1799.144235	2075.983333	830.933333	582.500000	1288.066667
## [3811]	230.100000	1384.972222	176.500000	1945.321429	589.573810
## [3816]	1243.808820	572.880952	1277.833333	347.547619	1100.125000
## [3821]	473.000000	680.000000	533.500000	539.000000	340.000000
## [3826]	1747.125000	1594.972222	1227.000000	2450.435809	683.052489
## [3831]	392.400000	332.750000	379.416667	2259.550000	193.666667

## [3836]	862.573810	1580.833333	1603.500000	1323.250000	1227.047222
## [3841]	777.366667	1871.788041	193.750000	1007.900000	1754.000000
## [3846]	2141.400000	1742.883333	132.233333	85.500000	1061.000000
## [3851]	274.000000	987.500000	415.500000	326.666667	1476.500000
## [3856]	2710.570238	64.333333	486.000000	1518.097619	367.376191
## [3861]	513.940476	1349.250000	848.205128	375.600000	724.316667
## [3866]	957.666667	511.500000	776.413816	605.672222	2765.444444
## [3871]	2351.700000	1145.000000	3413.833333	3072.305403	2179.666667
## [3876]	382.490260	1083.690476	720.750000	314.250000	1066.666667
## [3881]	4749.240385	1046.916667	1748.000000	549.550000	734.000000
## [3886]	662.666667	383.000000	327.266667	2529.166667	792.666667
## [3891]	797.166667	465.666667	1449.000000	376.500000	2860.500000
## [3896]	462.500000	172.111111	195.666667	992.000000	526.833333
## [3901]	1129.214286	2676.000000	3545.191270	315.000000	1702.369048
## [3906]	2874.966667	459.963636	710.666667	821.166667	745.166667
## [3911]	3615.889239	2949.550000	839.666667	1432.500000	1475.266667
## [3916]	1341.261111	1384.500000	2101.733333	2720.700000	116.666667
## [3921]	4541.925000	1014.833333	182.416667	122.500000	278.000000
## [3926]	1906.476190	819.271569	328.321429	34.333333	436.812500
## [3931]	402.333333	1934.990476	576.833333	1421.668627	934.366667
## [3936]	277.500000	918.083333	4797.987915	901.916667	1093.154762
## [3941]	2382.428571	1417.666667	1948.713745	588.719048	356.166667
## [3946]	1156.384921	1995.466667	1424.866667	444.100000	333.900000
## [3951]	558.333333	94.333333	981.000000	773.559524	944.916667
## [3956]	418.000000	1092.364286	485.083333	672.583333	1022.474026
## [3961]	765.166667	2235.000000	2207.833333	512.833333	4126.353297
## [3966]	837.366667	1986.251515	2347.716667	287.500000	497.100000
## [3971]	1245.000000	3262.350896	1541.327451	1793.777778	885.000000
## [3976]	646.285714	7253.676493	344.321429	21.666667	334.000000
## [3981]	608.522727	1977.385088	1569.166667	631.306863	782.083333
## [3986]	1562.333333	1199.522619	103.833333	2250.083333	747.000000
## [3991]	298.690476	1572.273810	241.769231	2839.750000	275.702381
## [3996]	681.761905	2072.666667	207.570248	201.133333	120.400000
## [4001]	1342.083333	608.883333	315.400000	419.600000	1721.906667
## [4006]	2307.661212	41.400000	652.376667	6512.010952	493.303390
## [4011]	209.700000	68.400000	942.800000	5692.211713	106.800000
## [4016]	1011.016667	307.616667	701.016667	478.600000	710.066667
## [4021]	1228.500000	1514.300000	278.433333	86.533333	528.966667
## [4026]	402.750000	2988.883333	844.580000	407.683333	964.466667
## [4031]	201.600000	523.600000	968.692424	207.933333	1062.666667
## [4036]	2697.022104	2707.386667	303.100000	3572.241757	3287.000000
## [4041]	902.770000	519.866667	1091.394074	349.576190	1087.700000
## [4046]	1182.432333	1254.000000	778.833333	378.400000	2248.914286
## [4051]	558.611111	191.100000	267.566667	4152.763100	645.200000
## [4056]	991.715547	1677.666667	354.900000	74.600000	1304.973333
## [4061]	873.640000	1807.227778	1667.158421	227.100000	331.300000
## [4066]	118.913333	165.400000	147.900000	165.100000	1553.523810
## [4071]	777.414615	441.604545	897.190000	352.700000	214.053333
## [4076]	278.136667	66.533333	1321.700000	1570.133333	1893.466667
## [4081]	1070.098072	1114.733333	469.540000	1582.533333	33.200000
## [4086]	682.183333	1939.571111	3611.978569	1555.967143	62.400000
## [4091]	889.366667	4306.612355	1069.700000	1199.616667	1893.619048
## [4096]	1324.680000	230.566667	98.566667	5194.857143	342.686667
## [4101]	2517.583333	348.033333	283.700000	907.236364	122.166667

## [4106]	259.200000	58.200000	47.133333	2000.618333	4143.175238
## [4111]	812.287389	3252.200476	471.477778	764.133333	1275.900000
## [4116]	86.360000	152.600000	420.246667	136.100000	1779.163333
## [4121]	5175.377371	3428.527381	1356.866667	5771.466862	479.585714
## [4126]	131.200000	161.866667	261.800000	184.100000	555.400000
## [4131]	2621.621429	230.200000	191.150000	45.200000	136.066667
## [4136]	2653.500000	27.200000	6186.172260	58.400000	1163.266667
## [4141]	440.226190	1489.590909	1590.420000	545.100000	517.400000
## [4146]	275.000000	199.133333	583.000000	1556.523333	328.300000
## [4151]	572.600000	2031.506667	129.761111	307.700000	276.733333
## [4156]	4044.465674	4208.752099	7548.633333	820.363636	791.800000
## [4161]	2518.266667	1804.011111	781.516667	510.380000	87.600000
## [4166]	2012.660952	309.550000	1556.491429	1061.550000	182.514286
## [4171]	125.266667	75.050000	118.500000	1808.162266	1219.700000
## [4176]	268.400000	2347.333333	817.795811	1011.916667	1646.200000
## [4181]	2383.139223	752.560000	199.600000	386.180000	464.933333
## [4186]	217.600000	3210.848218	277.450000	512.716667	1286.050476
## [4191]	9630.209524	140.200000	43.700000	606.366667	243.750000
## [4196]	254.250000	539.500000	135.200000	346.386667	2103.938772
## [4201]	768.413333	5738.902193	64.600000	559.560000	53.400000
## [4206]	55.400000	206.600000	1267.453333	621.200000	148.933333
## [4211]	2359.522438	44.800000	579.300000	118.266667	651.765897
## [4216]	728.866667	1712.776667	2498.866667	1371.415714	3362.749679
## [4221]	515.233333	2636.513492	1644.233333	171.700000	1747.700000
## [4226]	270.900000	1474.533333	1131.800000	327.538095	1867.033333
## [4231]	50.200000	16.200000	806.026667	243.300000	4864.147143
## [4236]	374.900000	672.950000	623.200000	137.600000	1083.751630
## [4241]	1955.168685	3357.053333	1200.354444	1268.266667	4622.000000
## [4246]	470.896667	1085.891081	1109.233333	587.200000	283.333333
## [4251]	369.100000	436.800000	4376.902655	1427.676667	511.200000
## [4256]	518.396667	7220.776667	552.480000	259.553333	799.104942
## [4261]	1007.233333	1668.125238	189.200000	2303.960000	158.420000
## [4266]	1702.500000	546.669697	279.766667	1077.373333	1534.815256
## [4271]	268.452597	116.800000	477.700000	4402.250000	334.400000
## [4276]	408.466667	5943.547619	479.100000	677.333333	2074.929524
## [4281]	4204.433333	139.433333	591.264060	3747.833333	274.300000
## [4286]	1280.020000	2435.697531	4536.308139	203.350000	421.785714
## [4291]	485.633333	836.100000	1500.213333	845.300000	194.400000
## [4296]	58.600000	1911.711111	253.100000	36.600000	821.893333
## [4301]	1693.730000	157.066667	804.043082	1514.703333	501.071429
## [4306]	9447.578514	437.400000	719.883333	521.866667	55.300000
## [4311]	2150.433333	707.911667	96.700000	443.750000	27.266667
## [4316]	643.433333	283.721429	883.976191	18.100000	1970.000000
## [4321]	52.300000	1888.200000	1092.183333	244.200000	2104.573984
## [4326]	1487.229317	2623.580864	875.933333	2968.900000	310.971429
## [4331]	675.202099	1321.322222	2227.800000	6412.233333	295.333333
## [4336]	1216.364286	1608.700000	1476.021429	1156.500000	327.773333
## [4341]	1759.066667	5018.328289	631.085714	192.400000	381.600000
## [4346]	1002.366667	213.283333	1950.386667	110.300000	2097.420000
## [4351]	1288.563333	654.200000	28.200000	507.111111	1904.653507
## [4356]	262.587619	761.500000	463.694048	196.333333	403.833333
## [4361]	799.061905	472.900000	1983.225629	311.700000	779.262857
## [4366]	334.383333	1213.650000	617.150000	398.256667	271.466667
## [4371]	2129.989707	476.177778	4240.036205	35.333333	1170.733333



## [4376]	687.196667	126.916667	70.400000	213.171429	681.580000
## [4381]	1728.866268	7959.909524	222.300000	4304.366905	145.200000
## [4386]	4895.260000	186.066667	295.033333	616.500000	362.600000
## [4391]	504.028571	1323.093695	1760.657143	2026.633333	32.200000
## [4396]	157.200000	517.660000	1623.666667	981.508333	902.973810
## [4401]	316.200000	608.216667	165.200000	269.535714	3220.336667
## [4406]	1257.900000	21857.046480	2477.536550	789.366667	363.600000
## [4411]	281.433333	1346.200000	3146.709481	57.400000	78.100000
## [4416]	431.200000	1060.693791	675.684624	46.800000	127.400000
## [4421]	2092.673810	149.900000	1033.206667	1392.100000	1571.123810
## [4426]	1081.713333	1036.531780	2400.667778	217.761111	394.800000
## [4431]	2256.749540	1373.933333	2091.480392	1261.700000	1107.116667
## [4436]	981.601429	187.200000	332.800000	244.700000	365.774339
## [4441]	2322.866667	199.400000	20.200000	2260.838889	647.518523
## [4446]	288.433333	394.558095	532.000000	770.107180	4651.612222
## [4451]	355.850000	432.766667	284.783333	314.293333	328.900000
## [4456]	179.800000	905.122626	28.600000	7835.874629	590.600000
## [4461]	387.766667	2731.500000	1567.846667	2146.757984	595.800000
## [4466]	1568.320833	1147.696667	1992.733333	587.733333	1294.566667
## [4471]	652.566667	1750.371795	704.950000	725.210000	7243.649316
## [4476]	192.900000	21.200000	1693.633333	411.466667	257.900000
## [4481]	1738.472529	589.421429	1028.566667	1510.006667	249.409524
## [4486]	2101.305092	365.583333	281.100000	230.280000	1540.290115
## [4491]	1570.681813	1178.496667	572.650000	829.800000	5526.080123
## [4496]	575.816667	1062.812542	858.200000	3025.333333	384.403030
## [4501]	192.733333	451.700000	1294.599603	1135.880556	75.600000
## [4506]	755.876984	934.316667	60.400000	75.200000	639.756667
## [4511]	1009.550000	475.300000	2138.481263	176.800000	1341.716667
## [4516]	84.100000	3264.128466	488.716667	340.916667	250.200000
## [4521]	1618.233333	168.528571	384.800000	219.600000	1041.733333
## [4526]	1606.450000	599.919048	1138.793636	9050.459482	825.799048
## [4531]	1553.800000	43.200000	1242.776046	3275.113333	2767.200000
## [4536]	4897.845238	62.800000	263.266667	1871.900000	3346.969048
## [4541]	568.968333	3799.200000	85.600000	2306.047619	1256.825000
## [4546]	18171.794540	749.233333	93.600000	3098.649444	359.400000
## [4551]	4984.371429	102.200000	5330.633333	1684.496667	1216.352121
## [4556]	2011.966667	1685.747985	1417.022222	2436.605534	505.550000
## [4561]	987.119048	11729.408040	103.600000	14.200000	2728.755000
## [4566]	176.833333	111.600000	347.400000	286.700000	266.660000
## [4571]	222.255714	518.443333	490.566667	9836.068333	423.500000
## [4576]	886.570000	558.193333	864.100000	8468.339278	1267.060000
## [4581]	1074.683333	139.800000	526.000000	299.266667	2580.634935
## [4586]	1892.198319	668.700000	1301.300000	1835.500000	155.900000
## [4591]	36.400000	751.626667	939.783333	584.740000	31.200000
## [4596]	570.183229	331.550000	469.868182	776.923251	982.600000
## [4601]	683.400000	1029.170303	797.840000	512.900000	1023.960000
## [4606]	146.133333	393.409524	129.583333	222.233333	2110.255093
## [4611]	1282.953333	1299.196667	1631.400000	340.650000	846.200000
## [4616]	39.950000	1045.300000	5066.661100	3161.074762	1780.700000
## [4621]	431.900000	655.383333	436.858333	2651.943186	809.693333
## [4626]	456.150000	11.100000	162.533333	461.233333	539.227381
## [4631]	2293.490129	2239.502857	839.568189	1838.150000	23050.104140
## [4636]	304.700000	1691.236147	1177.506667	6053.466667	6978.613711
## [4641]	183.800000	1143.666667	753.300000	1844.650000	67.850000

## [4646]	1826.441667	1183.826667	4565.930621	104.950000	358.400000
## [4651]	50.400000	1033.650000	453.400000	1037.833333	2385.666667
## [4656]	1639.069361	910.080952	493.400000	538.480000	5107.034928
## [4661]	34.200000	788.500000	1576.252222	223.800000	3827.498846
## [4666]	860.021746	1021.838095	150.800000	668.316667	672.264444
## [4671]	778.966667	550.709524	2408.312828	20.600000	2611.747653
## [4676]	458.256032	2041.626667	1386.350000	827.533333	2260.857143
## [4681]	158.366667	1932.716667	284.100000	2007.206667	481.966667
## [4686]	619.533333	842.423593	585.883333	599.613333	1321.853333
## [4691]	60.900000	321.233333	3539.944615	533.110000	694.454978
## [4696]	709.400000	217.716667	1126.666667	1054.300000	1003.658333
## [4701]	1845.394615	447.200000	1345.136667	6606.726779	315.466667
## [4706]	481.310000	955.333333	223.466667	982.757619	1850.116667
## [4711]	6984.611525	126.933333	66.400000	2559.433333	188.400000
## [4716]	489.150000	63.400000	245.166667	113.433333	342.000000
## [4721]	718.956667	1341.632619	641.516667	477.716667	199.284444
## [4726]	349.116667	166.900000	1210.917778	568.100000	6065.016218
## [4731]	344.800000	761.223333	225.680000	1446.733333	14577.084980
## [4736]	35.400000	178.500000	240.300000	1165.840000	3004.628109
## [4741]	830.314253	161.200000	598.433333	1854.915556	59.400000
## [4746]	524.060000	362.102982	422.133333	797.003333	5286.587577
## [4751]	205.856667	1635.466667	154.900000	936.416667	3739.635556
## [4756]	320.266667	1370.127838	2074.401905	341.360000	3566.992857
## [4761]	349.111111	396.471429	172.133333	3888.278636	641.655892
## [4766]	153.900000	296.766667	19.200000	223.100000	1123.246667
## [4771]	2103.628837	805.500000	16093.309410	147.733333	1324.850000
## [4776]	1854.260000	1049.050000	853.850272	163.200000	1843.759347
## [4781]	2269.900000	839.733333	1195.800000	856.200000	13842.458330
## [4786]	2101.467925	12541.776280	1566.333333	942.687922	1308.573395
## [4791]	589.800000	159.200000	151.081818	397.800000	481.400000
## [4796]	883.120000	920.700000	336.300000	1954.400000	580.650000
## [4801]	323.300000	132.800000	353.900000	2032.396960	66.900000
## [4806]	1413.768571	131.978571	804.189913	131.800000	15.240000
## [4811]	5602.006712	1722.721127	114.533333	657.420000	589.251066
## [4816]	1391.105556	67.600000	2219.583333	1314.112346	195.166667
## [4821]	248.050000	1530.006667	1423.000000	1294.405000	285.680000
## [4826]	211.100000	352.875000	318.766667	51.066667	276.366667
## [4831]	368.680000	38.300000	4249.120000	944.405556	107.800000
## [4836]	2364.650000	425.096905	528.250000	276.350000	52.400000
## [4841]	905.100000	274.750000	1459.576667	3528.691250	351.400000
## [4846]	4590.381905	35.927778	1526.141190	1463.480000	585.370000
## [4851]	211.633333	271.578571	363.677619	274.700000	1249.048358
## [4856]	89.866667	54.400000	237.606667	929.200000	158.933333
## [4861]	6684.520952	7604.397831	1108.653333	2285.200000	1256.293333
## [4866]	183.650000	232.000000	101.272727	443.566667	1388.000000
## [4871]	557.400000	1004.383333	113.800000	249.410000	743.531429
## [4876]	809.433333	951.441270	86.600000	30.400000	339.500000
## [4881]	1010.633333	4318.668082	5876.459165	25.800000	502.508333
## [4886]	257.933333	236.800000	266.800000	3778.345000	598.761111
## [4891]	3111.362121	897.361905	2159.500000	2128.704568	1261.316667
## [4896]	48.400000	3297.491311	431.533333	1761.156667	5523.926505
## [4901]	263.712857	1225.200000	98.600000	390.200000	272.900000
## [4906]	6117.814359	8024.509197	18.200000	2240.996667	2525.307766
## [4911]	267.800000	1101.803333	401.900000	360.181667	923.220000

## [4916]	983.425000	41.133333	789.533333	898.491579	10278.904210
## [4921]	3886.823333	627.654286	92.700000	3708.392857	721.183333
## [4926]	132.400000	722.133333	1167.187143	810.833333	234.016667
## [4931]	252.300000	71.350000	1543.423333	1429.616667	2214.666667
## [4936]	1770.800000	293.033333	300.766667	2230.600476	4994.848002
## [4941]	533.300000	1572.816667	122.400000	426.066667	161.150000
## [4946]	458.610000	252.983333	7091.697778	674.533333	194.228571
## [4951]	1076.650000	1376.300000	1017.775758	824.860000	273.800000
## [4956]	106.966667	27.600000	338.200000	987.770000	3282.583983
## [4961]	51.300000	796.706667	587.900000	2149.190195	507.500000
## [4966]	930.366667	794.713115	1739.575000	4424.621667	897.800000
## [4971]	891.568795	1516.730000	1713.216190	7442.388149	245.400000
## [4976]	922.300000	425.033333	2889.946154	614.640952	150.600000
## [4981]	3898.816667	381.616667	3818.308629	169.166667	1433.163333
## [4986]	81.666667	348.540000	447.716667	1678.400000	1388.052366
## [4991]	1335.773333	2921.902778	535.399524	650.133333	841.358333
## [4996]	544.100000	626.600000	5332.547778	44.400000	1096.420000
## [5001]	169.966667	2084.479524	979.000000	1438.710000	2184.484938
## [5006]	803.583333	133.366667	1535.666667	531.720000	1805.146667
## [5011]	5284.816825	245.600000	950.016667	70.466667	5721.800123
## [5016]	336.883333	428.300000	163.900000	4948.398759	3296.550000
## [5021]	7263.957157	107.200000	792.733333	1555.601212	3173.210417
## [5026]	119.200000	2021.400000	65.400000	493.580000	1048.663333
## [5031]	1023.506667	5496.250000	526.800000	307.443506	1558.620000
## [5036]	469.100000	357.400000	2197.000000	146.400000	150.400000
## [5041]	1062.704762	566.486667	1017.576667	690.313333	487.600000
## [5046]	447.166667	1190.941667	600.573333	527.833333	1933.559259
## [5051]	1165.944762	280.650000	2982.063248	1784.755219	45.700000
## [5056]	1805.083333	1293.652222	111.800000	3107.173333	478.260000
## [5061]	747.907778	2810.797158	453.900000	526.376191	864.998333
## [5066]	252.800000	269.400000	817.433333	589.500000	812.135714
## [5071]	1795.925000	890.195238	443.499048	60.600000	748.233333
## [5076]	1720.444748	203.067778	396.000000	9661.585763	639.493333
## [5081]	934.870427	3371.050000	279.833333	3908.754762	868.163636
## [5086]	176.100000	699.267143	23342.082050	1581.488310	246.393333
## [5091]	789.126667	203.980000	5944.387373	1113.898538	119.600000
## [5096]	386.300000	20.100000	2451.346667	1918.966667	763.661429
## [5101]	185.400000	317.066667	72.400000	1003.380000	90.800000
## [5106]	4157.633333	830.341167	1015.300000	2872.719031	229.883333
## [5111]	2237.775000	1548.194444	703.300000	999.013333	1211.066667
## [5116]	2472.240000	1057.200000	1721.666667	3271.030448	601.033333
## [5121]	1017.966667	336.138333	1858.566667	787.243333	305.240000
## [5126]	892.724444	2577.960349	922.400606	3872.716667	53.200000
## [5131]	260.866667	814.709394	8365.602222	2339.207143	2102.750000
## [5136]	1014.200000	1463.800000	1121.433333	63.600000	394.000000
## [5141]	3890.865924	1483.457143	1764.180047	197.900000	676.600000
## [5146]	860.560317	3633.953333	538.720000	1299.833333	1126.392821
## [5151]	3507.365152	4916.583333	1180.366667	2668.712121	3684.855282
## [5156]	559.866667	98.100000	12449.900000	338.340000	531.560000
## [5161]	2244.416667	721.800000	372.600000	1194.988132	8147.111565
## [5166]	200.950000	132.883333	707.700000	744.800000	1568.533333
## [5171]	1553.696667	35.166667	3025.290325	881.350000	539.835714
## [5176]	221.400000	280.200000	297.166667	1051.550000	11976.721350
## [5181]	619.480000	536.085714	181.266667	3558.576942	534.483333

## [5186]	872.591667	13453.251030	700.550000	338.000000	243.466667
## [5191]	1846.666667	526.685397	368.466667	689.100000	725.200000
## [5196]	1968.942963	591.720000	2601.231408	109.800000	1197.800000
## [5201]	906.116667	204.600000	3637.985674	8467.584379	1372.455556
## [5206]	32.100000	919.899524	3276.190541	1249.216667	198.900000
## [5211]	307.866667	1561.200000	3523.331111	1387.267857	572.873333
## [5216]	2772.278333	4941.698611	1669.024978	1775.890000	1186.600000
## [5221]	672.514286	974.900000	524.969231	238.600000	2163.569524
## [5226]	553.343333	985.000000	1088.636905	188.300000	265.400000
## [5231]	367.816667	1161.479023	490.300000	427.066667	2050.292399
## [5236]	171.800000	1643.365907	42.200000	1813.753466	1203.720000
## [5241]	8006.695205	1226.100000	451.189007	600.396667	3043.916667
## [5246]	64.400000	3908.033490	1446.520523	1242.063095	422.533333
## [5251]	137.700000	1921.103070	952.159820	606.200000	1839.130000
## [5256]	399.066667	168.200000	145.900000	624.433333	273.706667
## [5261]	2806.846825	457.900000	3674.803673	1692.694155	140.700000
## [5266]	13.100000	649.863204	2183.007024	835.418095	2791.060635
## [5271]	548.960000	825.333333	204.400000	248.600000	4100.255455
## [5276]	322.366667	2568.675541	15.200000	314.400000	991.422222
## [5281]	226.400000	2549.529127	700.580000	111.133333	473.833333
## [5286]	93.900000	1596.412698	244.733333	2094.138889	620.130000
## [5291]	1722.814286	643.500000	316.133333	269.960000	5046.056667
## [5296]	473.083333	340.100000	1475.608427	956.333333	1305.527286
## [5301]	706.200000	1510.383333	3634.585714	1298.203260	184.600000
## [5306]	718.800000	3715.777564	4316.262171	456.900000	608.303333
## [5311]	1113.783333	487.320952	10338.671770	157.100000	565.380000
## [5316]	253.600000	883.139524	2960.971429	5245.277619	561.400000
## [5321]	720.676667	2072.605556	199.490476	1760.700000	138.873333
## [5326]	2006.593120	806.650000	2091.037588	285.600000	4131.156044
## [5331]	216.700000	3051.525518	836.200000	264.400000	906.233333
## [5336]	581.941988	1828.884048	219.800000	383.200000	433.636667
## [5341]	354.283333	43.400000	1653.600000	169.986667	649.020000
## [5346]	2802.367821	1429.501111	216.333333	156.200000	2593.808333
## [5351]	1316.533333	925.293333	349.696970	40.400000	141.200000
## [5356]	9760.690488	677.533333	733.166667	6418.819048	9151.494242
## [5361]	97.900000	39.200000	409.300000	106.300000	1340.300000
## [5366]	47.200000	1110.966667	346.133333	2846.295305	235.300000
## [5371]	770.313333	1544.533333	3220.887143	621.726667	1100.789082
## [5376]	775.888333	1481.866667	49.866667	811.380952	889.720000
## [5381]	473.283333	577.650000	1364.873333	778.643723	213.015714
## [5386]	303.246429	95.100000	641.800000	345.120000	164.813333
## [5391]	86.400000	373.500000	1076.073649	1816.555008	175.350000
## [5396]	71.400000	3677.258176	364.700000	414.866667	234.800000
## [5401]	445.333333	1607.173333	343.520000	330.533333	70.933333
## [5406]	2064.500000	1475.366667	999.800000	728.180000	668.033333
## [5411]	708.166667	663.277778	1107.216667	696.900000	747.480000
## [5416]	447.133333	1352.976722	159.900000	4339.924841	2787.692619
## [5421]	197.066667	785.050000	198.700000	3044.356667	742.209524
## [5426]	987.600000	251.200000	5946.275777	847.614286	3038.380000
## [5431]	2251.116667	940.104427	1145.170000	672.700000	47.400000
## [5436]	4749.250000	494.633333	591.154206	568.963333	1051.420000
## [5441]	1655.570000	1464.209618	1372.875238	1424.804887	4022.812148
## [5446]	1338.800000	238.533333	3198.186667	1875.103333	684.600000
## [5451]	348.850000	319.277143	2006.046667	1146.469048	1773.610152

## [5456]	1218.100000	4339.366667	580.935714	69.400000	2593.100000
## [5461]	495.100000	1123.993333	860.770000	2163.960000	679.566667
## [5466]	724.760000	1030.060000	717.466667	2396.272456	1903.450000
## [5471]	503.633333	676.266667	337.100000	630.326667	311.613333
## [5476]	6743.398760	1526.213333	688.314286	272.008333	1153.540000
## [5481]	1096.876822	1718.387778	843.016667	1012.200000	1375.133333
## [5486]	2016.564401	1424.400000	1193.517172	417.400000	2374.966713
## [5491]	784.734286	1538.056725	2331.150000	1057.033333	2021.747727
## [5496]	269.901818	55.900000	22.050000	1148.333333	562.166667
## [5501]	1290.500000	581.500000	845.278889	813.601667	59.200000
## [5506]	1953.537512	1199.916667	583.350000	910.410000	1975.125000
## [5511]	651.665000	2129.800000	1063.666667	961.520000	779.606667
## [5516]	959.900000	655.684762	631.276667	6440.235256	112.083333
## [5521]	170.400000	153.200000	773.256667	6707.540000	387.400000
## [5526]	631.400000	728.700000	938.933333	353.786667	128.700000
## [5531]	374.600000	952.283333	1948.088333	241.583333	3364.640450
## [5536]	1759.686519	476.360094	1720.422222	1516.200000	2016.566667
## [5541]	498.900000	238.200000	653.400000	4162.538005	769.900000
## [5546]	1085.900000	518.850000	291.200000	2064.766667	256.185714
## [5551]	1690.489222	436.100000	315.580000	1203.817143	920.400000
## [5556]	949.600000	1083.716667	2398.766667	22.800000	1994.023778
## [5561]	221.780000	337.853333	829.187143	344.450000	25.200000
## [5566]	1001.300000	794.160000	341.616667	624.760000	2387.596667
## [5571]	3987.386667	2159.400000	1558.529048	2650.780526	145.040000
## [5576]	687.384848	1926.701905	2087.649870	646.153333	566.566667
## [5581]	641.480952	529.800000	980.566667	41.700000	586.100000
## [5586]	375.800000	118.300000	166.706271	474.306667	277.350000
## [5591]	331.891429	1684.375000	470.866667	1348.450000	1251.600000
## [5596]	615.066667	616.203333	1203.533333	309.366667	232.310000
## [5601]	318.066667	2362.724563	1889.250000	82.200000	320.250000
## [5606]	43.900000	1374.630952	2107.033333	1296.916144	766.823810
## [5611]	605.616667	17.200000	3287.216667	21.100000	11492.208380
## [5616]	92.400000	9227.371429	461.733333	156.333333	2061.926508
## [5621]	226.800000	418.823333	104.250000	1077.511667	1926.133333
## [5626]	163.220000	5556.932698	296.300000	549.780000	1340.676667
## [5631]	864.007143	2230.986667	590.553333	1706.119697	743.266667
## [5636]	2693.963452	6847.936896	123.300000	1276.843158	635.723810
## [5641]	9437.769068	876.428571	351.033333	1369.700000	2554.562381
## [5646]	1430.208205	14.333333	1091.323333	1941.066667	190.600000
## [5651]	1161.900000	2633.400000	1980.266667	1496.466667	344.171429
## [5656]	937.807576	22.833333	1719.375714	1696.567619	445.900000
## [5661]	2686.402922	852.200000	2017.520714	1978.700000	1279.806667
## [5666]	1207.653333	1229.466667	71.600000	1494.053333	443.833333
## [5671]	189.433333	817.959070	838.150000	3835.564121	611.940000
## [5676]	401.013333	2865.817778	1157.444833	311.790000	238.933333
## [5681]	830.936667	2195.580952	2026.200000	4031.561667	1220.175000
## [5686]	14.600000	323.374048	433.360000	526.500000	379.616667
## [5691]	2110.422354	547.400794	1089.500000	20.257143	2063.642844
## [5696]	175.766667	1683.744444	4006.352857	5579.315873	3166.333333
## [5701]	643.050000	1584.770476	692.220000	1157.783333	178.800000
## [5706]	94.600000	26.700000	2268.900677	516.478571	46.200000
## [5711]	257.400000	1716.373333	380.806667	1737.016667	929.910000
## [5716]	158.600000	1297.250000	450.506667	1612.983333	615.559524
## [5721]	234.400000	5962.205556	228.800000	135.066667	2759.135058

## [5726]	506.400000	2678.055238	1108.369762	295.697436	3645.909048
## [5731]	3333.076068	749.800000	2532.960656	630.646667	1192.866667
## [5736]	2134.103333	7672.152381	497.800000	1390.403590	52.266667
## [5741]	583.093333	35.200000	368.900000	3019.805397	1171.471429
## [5746]	777.050000	112.800000	168.020000	1758.250000	380.266667
## [5751]	445.433333	820.483333	312.200000	1252.766667	2436.287879
## [5756]	61.400000	339.000000	976.333333	114.900000	1985.933333
## [5761]	704.566667	2337.196667	577.600000	2130.693837	107.600000
## [5766]	144.900000	970.626667	3528.060714	798.300000	286.200000
## [5771]	186.400000	144.600000	1912.751905	134.450000	2121.311111
## [5776]	2576.432121	337.533333	1422.103333	515.533333	460.200000
## [5781]	393.300000	390.900000	379.300000	1646.366667	835.710000
## [5786]	150.866667	652.700000	2001.700000	1822.866667	2265.492857
## [5791]	1870.966667	2646.400000	569.493333	1839.098106	97.600000
## [5796]	494.880000	201.633333	309.700000	1246.120000	41.300000
## [5801]	237.500000	472.433333	641.408333	341.700000	607.966667
## [5806]	835.300000	422.080000	1342.750000	1294.637143	596.033333
## [5811]	4287.960606	348.600000	561.094014	585.566667	144.066667
## [5816]	3177.366667	1708.980000	810.081667	1187.737297	267.900000
## [5821]	471.400000	409.837121	1333.800000	587.922857	997.314286
## [5826]	308.700000	688.453333	14.350000	781.800000	49.400000
## [5831]	366.616667	285.616667	101.600000	418.844444	1945.896667
## [5836]	239.700000	2660.283333	2101.691541	1052.400000	1629.438095
## [5841]	1454.750000	103.757909	36.200000	701.883333	2214.230303
## [5846]	728.800000	848.840714	1729.716667	29.200000	317.800000
## [5851]	278.580000	1458.936190	832.700000	4362.009752	824.157306
## [5856]	359.630000	1688.249400	170.533333	291.300000	427.300000
## [5861]	1188.200000	251.800000	2609.000000	486.560058	1227.713333
## [5866]	650.166667	776.883333	424.595714	12292.463810	231.800000
## [5871]	623.026667	1183.200000	584.377778	39.800000	368.600000
## [5876]	361.233333	282.800000	2167.900476	673.650000	771.413333
## [5881]	4052.358631	632.250000	463.400000	1808.953333	1418.377619
## [5886]	4554.692744	381.400000	3134.066667	840.286320	895.111111
## [5891]	4935.536124	709.433333	360.650000	468.850000	2805.038095
## [5896]	1993.396667	2289.079157	142.400000	2542.604310	527.666667
## [5901]	658.846667	443.900000	379.800000	742.000000	2426.006667
## [5906]	136.283333	1116.473333	835.680952	910.040000	232.400000
## [5911]	701.900000	405.283333	1219.054286	2935.255477	5465.320175
## [5916]	825.205000	2400.782077	884.500000	3421.653333	2023.200000
## [5921]	502.453333	2767.753333	4598.433333	936.810000	513.162222
## [5926]	712.271429	23888.810000	1081.108333	318.533333	199.000000
## [5931]	207.600000	1618.403280	1066.393635	392.600000	102.700000
## [5936]	857.735507	660.800000	376.700000	181.066667	360.511111
## [5941]	1053.175758	7710.731416	488.910000	906.400000	883.933333
## [5946]	2349.101818	314.850000	124.914286	2688.864762	425.000000
## [5951]	867.991515	417.533333	536.733333	74.400000	4391.666667
## [5956]	2013.659524	295.100000	1566.200000	213.800000	977.412857
## [5961]	1884.700000	669.933333	432.022222	582.733333	1860.950000
## [5966]	357.889524	265.933333	313.800000	780.500000	131.833333
## [5971]	85.766667	887.750000	1140.796667	122.800000	3621.606667
## [5976]	2056.488590	1094.310476	240.600000	1200.200000	81.700000
## [5981]	2224.633333	230.620000	1624.935625	158.973333	3441.806667
## [5986]	937.865349	783.208571	1221.700000	588.366667	876.476667
## [5991]	230.833333	2653.196667	1855.600000	228.900000	1243.976108

## [5996]	3410.697592	2664.416667	552.040000	385.740000	1115.400000
## [6001]	1618.203333	154.800000	1016.883333	1018.018025	571.423860
## [6006]	678.483333	227.600000	343.033333	261.666667	3773.300000
## [6011]	4098.699853	724.200000	297.500000	151.300000	280.046667
## [6016]	6747.414492	2487.520000	6847.736667	602.883333	692.870000
## [6021]	66.050000	296.580000	2199.520000	372.383333	2022.117778
## [6026]	422.523077	6079.820000	115.600000	1988.931429	294.700000
## [6031]	1292.449762	1907.080000	133.733333	175.400000	1547.233333
## [6036]	288.713333	849.744444	496.966667	606.666667	1576.966667
## [6041]	921.623333	691.950000	390.456667	6774.820000	3389.800000
## [6046]	2139.156647	634.688095	124.866667	1620.141667	1110.866667
## [6051]	292.700000	3856.829780	4800.574762	290.800000	242.109524
## [6056]	503.266667	385.750000	15.600000	1228.289524	743.476667
## [6061]	449.400000	246.386508	812.350000	75.400000	1836.983333
## [6066]	37.200000	381.800000	9100.402959	1256.000000	1854.242845
## [6071]	941.466667	1391.383333	324.266667	265.500000	143.300000
## [6076]	218.666667	432.000000	121.270422	450.800000	1191.616667
## [6081]	683.300000	452.000000	543.733333	2002.760000	385.300000
## [6086]	690.566667	562.300000	833.325000	2734.966667	5830.910000
## [6091]	700.046667	950.666667	411.600000	2557.350000	951.433333
## [6096]	1441.974535	162.233333	166.120000	1624.320952	708.554762
## [6101]	679.903333	364.961905	1216.726667	852.300000	1831.942222
## [6106]	2725.708571	86.633333	177.900000	128.233333	846.600000
## [6111]	323.400000	178.590000	1592.533333	103.800000	1257.946667
## [6116]	542.000000	1280.149821	192.450000	1717.873278	6137.144910
## [6121]	310.335556	51.200000	1231.790460	723.483333	689.650000
## [6126]	2139.700000	15454.438570	643.900000	94.200000	944.800000
## [6131]	440.533333	98.733333	402.600000	3564.590227	595.000000
## [6136]	697.586667	741.400000	502.966667	2222.419048	879.750000
## [6141]	275.100000	1227.153333	1582.700000	99.066667	360.473333
## [6146]	636.700000	8768.477228	348.061111	1354.800000	613.993333
## [6151]	4185.096695	73.100000	544.683333	1275.269270	2077.166667
## [6156]	3334.506667	3579.785900	593.701980	1199.226190	2590.800000
## [6161]	1220.257143	117.800000	985.080241	2479.342857	472.752381
## [6166]	571.350000	344.400000	364.533333	1046.320000	883.600000
## [6171]	1158.782857	89.383333	2006.688158	492.900000	242.450000
## [6176]	1572.486399	3801.680397	294.600000	47.300000	570.200000
## [6181]	463.360000	2299.970000	438.383333	585.700000	1649.766667
## [6186]	1620.024762	402.616667	1985.894203	120.790000	1477.154762
## [6191]	1636.258333	264.339682	2822.623603	182.500000	161.600000
## [6196]	2366.600000	2059.300000	1078.200000	2059.700000	1412.270833
## [6201]	561.666667	438.666667	733.287121	806.250000	242.083333
## [6206]	4066.207476	821.833333	398.000000	927.000000	3025.058333
## [6211]	424.125000	2339.805556	168.750000	1051.291667	631.933333
## [6216]	1132.791667	815.250000	4446.625000	3902.664774	2524.194444
## [6221]	947.416667	410.250000	511.250000	2073.916667	5194.798570
## [6226]	610.633333	2174.708333	1068.357692	541.062500	562.007143
## [6231]	390.500000	2577.449603	373.458333	202.750000	3804.287500
## [6236]	655.041667	462.267857	967.625000	770.309524	602.583333
## [6241]	475.025000	750.208333	5300.291667	1758.912393	482.750000
## [6246]	147.500000	279.547619	1445.666667	159.750000	835.583333
## [6251]	99.500000	770.375000	3773.715179	2023.750000	1493.695238
## [6256]	1058.338095	2295.000000	198.133333	729.291667	1185.986275
## [6261]	1473.701515	1055.583333	1211.166667	6309.427034	163.500000

## [6266]	1260.441758	281.750000	63973.522230	372.083333	557.686905
## [6271]	170.500000	4021.172222	81.083333	630.000000	2138.383333
## [6276]	4977.850893	1312.333333	61.750000	1131.208333	57.500000
## [6281]	475.650000	3534.298611	1093.083333	516.750000	1214.307692
## [6286]	759.583333	8629.783691	10524.359360	2756.192460	1173.000000
## [6291]	2147.375000	1175.488095	404.500000	264.750000	1557.916667
## [6296]	207.541667	135.250000	493.750000	117.250000	349.833333
## [6301]	1579.333333	1375.264286	59.500000	592.837500	1375.916667
## [6306]	4966.520661	2881.684524	2556.373335	1406.917424	955.375000
## [6311]	1394.236526	704.000000	7443.407447	1980.238095	914.500000
## [6316]	804.250000	4804.834524	596.075000	2076.966667	2281.583333
## [6321]	5149.434919	2400.037843	234.638462	947.392857	2876.441667
## [6326]	398.980392	2007.522619	108.500000	246.500000	2074.611111
## [6331]	2387.139881	541.875000	187.500000	341.458333	597.633053
## [6336]	294.750000	713.583333	1319.547421	41.500000	267.250000
## [6341]	1059.575000	2130.447802	1351.908333	561.500000	805.791667
## [6346]	1918.902722	4518.297619	2199.500000	1329.686508	243.500000
## [6351]	184.375000	730.150000	35.250000	2180.217803	86.166667
## [6356]	1027.000000	631.067460	1157.583333	4461.285240	1377.250000
## [6361]	2934.236722	3296.650000	1065.256410	599.500000	748.958333
## [6366]	566.883333	5728.673611	203.250000	2416.060484	305.208333
## [6371]	335.416667	960.125000	4656.331746	683.165385	712.296078
## [6376]	279.333333	2193.541667	611.083333	1792.466667	357.166667
## [6381]	1666.500000	846.250000	1481.108333	819.333333	549.250000
## [6386]	1181.851190	230.166667	2141.902778	1286.916667	1109.250000
## [6391]	5608.913545	590.583333	15025.233020	1012.964286	1049.313889
## [6396]	1781.191667	3472.870513	562.000000	1369.775000	9956.225533
## [6401]	307.666667	2403.250000	773.200000	448.250000	1845.958333
## [6406]	1424.839744	3648.562500	300.500000	756.041667	642.000000
## [6411]	396.345238	1017.166667	1875.169444	821.275000	1325.833333
## [6416]	228.625000	1517.416739	6524.035369	839.208333	426.325000
## [6421]	2245.333333	428.500000	221.125000	731.500000	4575.477552
## [6426]	3684.321458	882.750000	301.333333	4251.208187	6323.853465
## [6431]	12268.244770	4994.249150	6082.873739	1664.148810	5399.231269
## [6436]	50.833333	1723.753711	508.250000	65.500000	968.750000
## [6441]	3127.078788	418.375000	2052.125000	331.837500	1028.775000
## [6446]	2776.013582	360.541667	4379.863158	118.250000	821.682540
## [6451]	24844.156200	2050.191803	962.901190	586.372222	732.091667
## [6456]	855.666667	274.583333	1828.375000	247.500000	2123.500000
## [6461]	635.491667	1332.250000	5253.069444	593.750000	5252.861501
## [6466]	1169.000000	987.900000	2886.841667	473.166667	4791.460889
## [6471]	1481.783333	386.262121	1144.972222	2747.616288	271.500000
## [6476]	3022.370406	2156.525403	938.333333	1039.599344	721.416667
## [6481]	3480.811706	6241.687398	749.250000	225.166667	1587.250000
## [6486]	1397.666667	506.183333	7181.877778	1173.417614	318.250000
## [6491]	2855.166667	1165.950000	1470.208333	1707.666667	2636.138889
## [6496]	452.416667	447.047619	1113.309524	446.375000	952.677778
## [6501]	4434.281746	311.250000	323.233333	2835.417641	2893.940476
## [6506]	540.750000	6085.002381	1390.083333	1031.083333	539.150000
## [6511]	1657.000000	939.083333	1403.828355	29.500000	1862.333333
## [6516]	894.580952	475.666667	2187.338725	2312.337853	1652.486111
## [6521]	5826.333333	198.750000	464.383333	266.166667	1047.000000
## [6526]	512.500000	765.392857	314.750000	1682.275000	580.083333
## [6531]	1388.200000	470.816667	1184.269841	6919.899495	303.500000



## [6536]	1074.333333	588.500000	4155.746883	55.500000	12500.353060
## [6541]	1021.200000	2694.507143	2533.333333	1658.125000	1440.166667
## [6546]	1315.177778	1935.335516	2404.831006	346.566667	695.500000
## [6551]	415.273810	256.950000	1939.155952	1975.455952	28.250000
## [6556]	2556.220833	3812.161753	592.250000	190.333333	10902.458260
## [6561]	3543.809524	1159.541667	24.250000	2300.891317	841.783333
## [6566]	1609.939744	424.333333	1267.062500	1631.416667	1043.583333
## [6571]	2041.233550	504.600000	2793.733084	180.416667	530.583333
## [6576]	329.214286	1508.521825	803.507738	2251.280000	1286.500000
## [6581]	396.250000	4293.400000	3875.427778	936.642857	756.861111
## [6586]	1385.850000	3197.755638	1779.886905	1191.887500	851.666667
## [6591]	3111.683333	561.250000	5380.686996	860.208333	2058.300000
## [6596]	1032.300000	8622.380000	4067.010247	2690.333333	150.166667
## [6601]	844.941667	918.541667	46.750000	2422.375000	1249.866144
## [6606]	702.333333	4097.708838	1042.507143	169.916667	1421.250000
## [6611]	2429.279762	1123.050824	441.136905	1475.254167	1630.137415
## [6616]	3216.920172	32.500000	623.725000	3674.737578	486.147222
## [6621]	1645.679762	1361.780952	3152.500000	5209.820361	558.476191
## [6626]	2244.616667	2032.272727	1904.183333	883.550000	4389.887512
## [6631]	598.873809	593.000000	829.208333	4875.106113	1344.291667
## [6636]	817.500000	500.500000	1897.833333	1883.866667	3033.689449
## [6641]	2922.497511	794.992857	7444.938071	783.750000	1732.066667
## [6646]	2304.150000	2492.166667	1656.615043	17550.584860	224.391667
## [6651]	2693.582331	3697.731633	135.750000	795.000000	759.750000
## [6656]	525.166667	195.250000	499.750000	583.069444	231.750000
## [6661]	1441.636905	4284.422619	909.750000	691.833333	3368.305556
## [6666]	121.375000	386.500000	2335.125000	1414.589286	2334.105159
## [6671]	4212.141886	677.916667	431.000000	2126.077501	760.770833
## [6676]	1615.660256	805.650000	546.229167	809.000000	3066.695513
## [6681]	4272.607937	751.000000	3009.087500	242.583333	347.852273
## [6686]	3714.352664	738.886111	9018.123741	1726.500000	1361.833333
## [6691]	546.958333	3959.450000	4643.283732	1124.875000	67.250000
## [6696]	7097.582291	1458.976190	33.142857	572.900000	824.000000
## [6701]	7972.322431	1249.708333	480.605556	258.616667	57.750000
## [6706]	3408.266667	2533.008333	85.750000	2156.500000	111.250000
## [6711]	3561.130212	14505.727250	2801.751190	2460.323686	452.250000
## [6716]	2619.109709	784.883333	1264.000000	508.558547	61.500000
## [6721]	122.250000	698.671520	1799.666667	496.250000	687.467063
## [6726]	458.250000	53.500000	332.583333	749.750000	8282.214508
## [6731]	142.125000	3007.687500	1894.393840	4817.924102	905.500000
## [6736]	1254.750000	3401.050687	523.541667	627.000000	1514.037879
## [6741]	2429.812500	156.404762	1288.733333	4446.303175	920.550000
## [6746]	950.625000	5932.596554	1358.166667	89.666667	694.516667
## [6751]	3075.978608	2857.712454	1967.780163	1352.750000	866.333333
## [6756]	1878.996825	138.416667	1031.133333	1208.333333	5426.823764
## [6761]	1570.362302	644.250000	705.116667	1183.900000	2438.075000
## [6766]	106.083333	409.466667	2697.175350	2622.600281	5793.523810
## [6771]	631.750000	536.616667	1661.833333	2553.858333	490.833333
## [6776]	334.750000	270.583333	1052.833333	301.000000	535.500000
## [6781]	839.430556	4509.000000	273.708333	715.875000	903.357143
## [6786]	3309.448776	9297.575489	4096.090152	1480.233333	735.583333
## [6791]	581.083333	877.916667	805.625000	375.916667	555.502941
## [6796]	1935.887111	638.916667	2040.166667	990.464286	155.983333
## [6801]	2199.976786	246.645833	2493.985714	1359.957586	831.000000

## [6806]	812.875000	201.916667	722.083333	135.225000	3231.853672
## [6811]	74.750000	4215.961111	624.500000	1618.532967	1924.505952
## [6816]	4899.626984	7141.214642	2304.500000	1573.895833	2011.513765
## [6821]	3831.100000	275.500000	1176.500000	1436.690476	257.416667
## [6826]	9.500000	1264.833333	27009.859430	4679.029167	1252.750000
## [6831]	5639.221760	347.916667	2354.979058	3313.073936	147.583333
## [6836]	1403.720238	2155.653752	3026.374242	760.763235	839.517857
## [6841]	837.375000	362.633333	1625.583333	4152.083333	1400.958333
## [6846]	892.083333	1066.250000	322.750000	873.750000	695.193750
## [6851]	4112.394444	6515.454310	1140.166667	5212.708333	195.416667
## [6856]	1535.000000	53.625000	1066.566667	2106.894048	5276.594444
## [6861]	849.541667	9595.649629	6460.192638	1828.966667	6920.973243
## [6866]	2991.319444	78.750000	2512.517420	1297.750000	132.750000
## [6871]	1904.541667	270.750000	1692.250000	2259.736508	1775.241667
## [6876]	664.500000	5000.739116	2716.666667	1876.333333	2368.111111
## [6881]	229.916667	903.163462	3296.940476	238.666667	2163.132326
## [6886]	799.327381	122.750000	2787.678571	531.500000	898.238889
## [6891]	109.194444	805.783333	2019.769468	1979.300000	1425.583333
## [6896]	7838.556598	3591.744196	555.625000	242.500000	7761.034859
## [6901]	12158.196390	2289.100000	7712.375000	4755.224054	465.250000
## [6906]	1210.100000	313.017857	3044.047222	946.595238	97.416667
## [6911]	1574.375000	1830.583333	1011.319444	669.483333	795.361111
## [6916]	1061.816667	1206.833333	858.946429	1093.175000	3174.088455
## [6921]	2058.604545	5396.264881	2014.416667	1837.204167	1326.430556
## [6926]	2558.500000	930.500000	1052.255952	1792.814481	3301.222222
## [6931]	1887.232143	111.750000	251.000000	217.916667	1533.025834
## [6936]	582.266667	6867.193847	1366.058333	6854.604365	305.500000
## [6941]	859.333333	70.750000	192.875000	1460.908333	2070.325000
## [6946]	551.500000	295.833333	762.238095	296.916667	2197.780952
## [6951]	10046.807710	2004.371491	3817.203846	3178.500000	1671.583333
## [6956]	762.000000	1655.190476	1412.316667	29.166667	3978.245833
## [6961]	103.500000	38.500000	4817.369546	447.000000	829.083333
## [6966]	2989.780952	21672.244250	1931.630952	6095.481945	3993.135714
## [6971]	1805.277375	42.575000	566.800000	2189.500000	2811.478070
## [6976]	777.212500	876.250000	1077.250000	1429.875000	688.183333
## [6981]	1022.384615	1935.061310	354.500000	417.989286	1466.088462
## [6986]	3971.515278	124.216667	1319.366667	2250.350000	5250.891667
## [6991]	2494.817100	8866.167386	1050.250000	520.000000	3646.083333
## [6996]	141.666667	577.750000	655.535714	2207.366936	1746.108683
## [7001]	1945.500000	6038.244769	3903.167094	1104.900000	1199.160606
## [7006]	3147.245589	1401.458333	2861.966667	379.083333	283.750000
## [7011]	755.417892	3507.010877	364.541667	1273.083333	3059.013889
## [7016]	255.083333	2749.150000	9139.496696	938.041667	1806.558333
## [7021]	58.500000	1296.000000	1080.875000	2942.021588	276.250000
## [7026]	2864.633333	4130.937879	3586.833333	227.250000	52.500000
## [7031]	673.638095	975.500000	6165.878774	1502.291667	134.750000
## [7036]	572.061039	1098.524802	5889.730504	3541.324493	658.916667
## [7041]	2641.416667	364.750000	2781.125000	2500.128052	200.250000
## [7046]	3163.096825	6057.928961	1448.928571	1984.025000	739.666667
## [7051]	2235.828084	3142.941176	1289.333333	3227.483333	1183.000000
## [7056]	5251.382738	685.174405	2209.750000	1102.500000	1686.354994
## [7061]	704.166667	1240.650000	1140.666667	56.250000	310.250000
## [7066]	91.250000	3208.208333	109.250000	1547.625000	2049.750000
## [7071]	2324.820965	3416.279167	1245.250000	3236.865632	682.133333

## [7076]	2492.224020	1197.932540	3972.000000	211.470238	1617.612554
## [7081]	1589.583333	2408.815476	120.500000	1512.750000	591.900000
## [7086]	514.416667	771.750000	13717.402050	531.036905	1494.083333
## [7091]	3478.750000	677.666667	4620.088889	2194.490404	650.250000
## [7096]	44.333333	3344.958929	306.250000	553.833333	273.750000
## [7101]	175.175000	892.967949	668.000000	269.250000	332.291667
## [7106]	3328.903752	734.250000	3556.516667	454.916667	1110.579167
## [7111]	950.816667	7609.820650	855.541667	2095.819048	2085.972565
## [7116]	4653.190245	1156.416667	2237.757205	6671.290144	1356.458333
## [7121]	3422.525000	1777.520455	191.562500	975.289394	461.000000
## [7126]	201.333333	1606.308250	1828.733333	3009.042857	5972.416667
## [7131]	5485.017857	1773.250000	496.000000	185.666667	1461.833333
## [7136]	468.541667	1409.533550	286.516667	842.750000	910.233333
## [7141]	11940.016500	3815.166667	1622.883333	789.416667	1916.873737
## [7146]	2671.069940	6505.333333	470.916667	294.000000	278.291667
## [7151]	2807.149729	1438.854167	1186.141667	4836.486905	1166.166667
## [7156]	876.300000	1285.583333	357.333333	1196.250000	94.800000
## [7161]	454.333333	777.116667	5575.614608	2038.052273	386.416667
## [7166]	79.750000	999.833333	1491.500000	444.633333	4218.074847
## [7171]	700.000000	1940.293452	705.500000	380.666667	29970.465970
## [7176]	607.500000	112.708333	2267.330952	252.750000	857.183333
## [7181]	3626.003223	512.250000	7569.248612	3492.316304	536.322727
## [7186]	2207.757143	1119.854167	5969.573168	1737.000000	5178.531731
## [7191]	426.500000	198.250000	1226.000000	108.916667	1198.024145
## [7196]	2606.779545	285.500000	4877.122575	1514.836310	1572.200000
## [7201]	567.250000	5878.940603	314.696429	445.625000	257.166667
## [7206]	986.933333	549.200000	130.050000	1347.962500	1040.100000
## [7211]	2033.845238	1833.244643	138.375000	1592.233333	2366.192105
## [7216]	472.416667	1438.000000	125.500000	143.250000	145.500000
## [7221]	117.750000	6400.430101	237.666667	1395.445862	1660.000000
## [7226]	1368.000000	2188.258333	10014.269350	876.550000	3184.815705
## [7231]	546.607143	186.250000	523.250000	801.050000	92.250000
## [7236]	1853.286538	1558.250000	312.350000	573.750000	2435.743750
## [7241]	241.400000	2259.047619	1338.778571	3085.250000	3723.529739
## [7246]	354.583333	1317.795833	661.445529	1949.647252	1544.855159
## [7251]	1465.555338	3247.583333	1733.658333	3376.027564	629.858333
## [7256]	2582.699717	2428.350000	4045.726634	2743.213113	254.500000
## [7261]	161.550000	4155.620833	1268.125000	155.500000	2374.500000
## [7266]	1056.511364	2378.263492	2587.530411	219.583333	1542.350000
## [7271]	444.750000	1423.790476	184.000000	1548.086310	234.100000
## [7276]	6014.398401	3181.500000	530.625000	1202.875000	117.083333
## [7281]	1835.556213	867.777778	946.393421	2303.183333	6606.783899
## [7286]	1367.000000	7405.360281	3486.370682	1267.250000	1260.524994
## [7291]	2239.363889	224.250000	1621.766667	3800.089234	925.898809
## [7296]	212.916667	1202.916667	2681.998105	2618.681061	740.166667
## [7301]	4760.778303	4262.966667	130.750000	3228.502137	2018.300000
## [7306]	658.250000	2267.472565	4251.741250	1629.641667	9049.534024
## [7311]	5106.262991	1315.455182	98.666667	1378.166667	348.250000
## [7316]	382.250000	256.500000	4096.712716	1288.130556	594.000000
## [7321]	1364.266667	189.250000	1621.025379	2323.166667	338.250000
## [7326]	2431.242995	1151.000000	1048.980263	94.750000	1243.176190
## [7331]	1148.166667	659.636111	1990.125000	398.400000	2413.754403
## [7336]	422.166667	62.250000	3313.455754	126.250000	11.500000
## [7341]	3954.950000	3993.833333	1071.083333	315.300000	3188.483333

## [7346]	1056.658333	3397.957955	996.148077	5696.165963	2003.375779
## [7351]	629.291667	819.589286	652.500000	974.083333	2666.066667
## [7356]	3374.016667	3445.012500	66.250000	348.750000	748.250000
## [7361]	1579.375000	104.666667	3770.021698	5520.175505	1078.583117
## [7366]	2983.358135	69.750000	10340.369160	8701.851617	4885.049069
## [7371]	2193.383333	1092.354167	977.125000	5410.956705	1679.666667
## [7376]	1333.166667	914.229437	315.083333	3873.021970	583.083333
## [7381]	2780.609524	612.208333	2092.500000	2336.319444	747.042857
## [7386]	1090.385281	1975.825000	3367.041281	647.142857	138.541667
## [7391]	1401.083333	393.788889	2478.000000	1702.916667	1401.508730
## [7396]	281.425000	1491.775000	2056.106981	2109.919048	460.750000
## [7401]	1406.950000	3757.079762	1295.008333	1002.104167	1883.725000
## [7406]	2243.676587	193.366667	1690.778409	1698.000000	3517.039683
## [7411]	472.500000	8684.983333	1653.395833	3561.139286	36.902778
## [7416]	1899.058333	46.250000	5098.754980	90.500000	5080.233631
## [7421]	251.900000	851.250000	543.000000	23.833333	1964.847222
## [7426]	3457.628812	2997.002030	4022.000000	1542.791667	2434.144872
## [7431]	5442.085417	3299.525000	885.750000	219.550000	23.666667
## [7436]	671.642857	6566.867562	770.250000	1370.038095	11835.103890
## [7441]	916.458333	132.500000	3057.045833	442.500000	2446.144571
## [7446]	269.233333	819.150000	1434.908333	177.250000	1950.840873
## [7451]	116.750000	752.566667	2171.547149	6123.741494	4310.775000
## [7456]	502.525000	1565.958333	2595.095833	1140.150000	3327.537566
## [7461]	2625.185014	3747.814286	1126.250000	393.583333	5962.732411
## [7466]	21.250000	121.750000	325.000000	165.583333	58.900000
## [7471]	1547.477273	465.633333	328.500000	737.181935	1340.583333
## [7476]	742.960317	2186.961538	84.250000	4492.311111	857.266667
## [7481]	1773.375000	1346.630231	805.833333	1372.975000	2445.066667
## [7486]	4140.333766	348.383333	325.500000	1911.610665	1464.416667
## [7491]	472.541667	1593.583333	135.083333	4350.647321	1399.150000
## [7496]	663.527778	1717.666667	740.307143	1859.382937	874.952381
## [7501]	1275.092424	3372.748214	1328.626894	2378.377381	342.125000
## [7506]	1009.375000	340.500000	948.342857	4436.376299	56.750000
## [7511]	1334.083333	450.750000	1952.500000	776.166667	3091.146033
## [7516]	818.316667	684.750000	1224.541667	459.083333	474.333333
## [7521]	783.875000	1445.458333	517.000000	444.000000	1197.700198
## [7526]	10415.783640	6245.704152	2409.875000	2004.708333	1905.078571
## [7531]	903.430556	935.666667	979.375000	127.166667	1280.450000
## [7536]	787.535714	210.400000	257.750000	8041.588870	7017.192635
## [7541]	1244.350000	1591.888095	8650.048771	1986.553118	1363.700000
## [7546]	3753.194490	1070.625000	1839.250000	1787.479365	1534.825143
## [7551]	1568.500000	111.500000	2332.109524	598.500000	1287.273810
## [7556]	985.315151	2420.650000	300.333333	1602.940260	1646.612195
## [7561]	1824.083333	1525.000000	114.416667	1768.657051	5546.000000
## [7566]	2346.220238	2177.333333	1929.185664	1261.500000	898.150000
## [7571]	4172.115720	749.125000	2537.807082	580.250000	3494.067460
## [7576]	1605.583333	1100.475000	134.675000	296.392857	691.750000
## [7581]	6850.499335	291.166667	232.500000	2046.832418	2974.734799
## [7586]	108.250000	1151.136905	2060.508333	2764.290278	175.750000
## [7591]	609.541667	2264.091667	546.750000	781.425000	3391.685880
## [7596]	43.750000	1423.833333	834.075000	706.700000	806.125000
## [7601]	6759.311928	440.750000	1404.459091	326.927778	2517.216667
## [7606]	3060.055556	866.216667	2110.124603	5316.459524	176.766667
## [7611]	820.500000	2990.312500	2152.588889	1722.583333	7012.266796

## [7616]	320.983333	6879.801826	2237.603885	2270.750000	602.250000
## [7621]	1256.291667	1796.583333	269.700000	1130.807540	1333.914286
## [7626]	1907.135417	1085.333333	3239.418207	2002.250000	3757.750000
## [7631]	115.250000	204.750000	556.000000	238.550000	423.183333
## [7636]	1664.000000	2766.942172	2696.108730	1831.149084	1626.000000
## [7641]	9951.359644	941.699405	1716.583333	597.250000	1982.523611
## [7646]	1335.737854	690.958333	8217.678753	5999.808333	182.250000
## [7651]	845.750000	1430.250000	179.250000	1359.771429	1021.519444
## [7656]	491.833333	907.943254	8402.715986	184.333333	1991.822567
## [7661]	595.750000	5315.211905	9648.177094	738.910714	1749.000000
## [7666]	140.458333	698.541667	123.229167	587.750000	589.875000
## [7671]	4096.158590	723.000000	4126.448611	5504.695238	27.375000
## [7676]	2939.625000	3713.580105	2596.204762	1668.116667	742.687500
## [7681]	1218.750000	551.158333	1302.518056	929.583333	1309.658333
## [7686]	2852.013141	272.166667	3770.916071	834.361111	668.500000
## [7691]	521.925000	1544.595238	17086.234240	1082.750000	1803.666667
## [7696]	4729.065909	1355.366667	529.750000	836.500000	719.200000
## [7701]	146.500000	2632.700000	8178.226923	1461.725000	1616.548160
## [7706]	197.750000	8613.257312	2070.616667	1449.608333	163.375000
## [7711]	4081.041667	353.152778	791.916667	1088.866667	9247.383869
## [7716]	1659.250000	2638.244429	127.600000	3789.583333	3660.342875
## [7721]	565.500000	2021.320833	97.500000	2614.209722	308.250000
## [7726]	1020.013889	5154.777093	1443.641667	480.000000	548.267857
## [7731]	828.250000	3608.346752	545.083333	5097.418330	2350.667857
## [7736]	1310.636905	1398.390775	2915.571429	949.750000	2381.097222
## [7741]	1273.250000	3002.902778	6235.066030	12959.915150	1361.203175
## [7746]	2375.114286	1404.750000	780.791667	8276.292565	1206.750000
## [7751]	1858.833333	424.750000	1992.717308	3642.066026	480.916667
## [7756]	2120.630952	1725.966667	1200.500000	1314.083333	2225.288889
## [7761]	528.583333	1587.765598	507.291667	162.625000	4597.124242
## [7766]	1885.337440	1895.133333	1903.081639	2872.125000	4048.583333
## [7771]	105.500000	1902.250000	1433.634921	709.750000	145.666667
## [7776]	1076.958333	5004.229167	1029.583333	1437.750000	534.875000
## [7781]	1751.847727	1435.375000	638.250000	954.083333	1159.567100
## [7786]	258.291667	101.833333	4600.540873	953.589286	1749.842262
## [7791]	2178.850000	1512.574405	4254.666667	506.452381	1383.661111
## [7796]	1261.658333	466.125000	2833.814103	711.166667	3788.800000
## [7801]	8584.025049	1004.500000	1322.004437	2051.466667	131.583333
## [7806]	308.458333	541.535714	282.083333	209.333333	3296.602091
## [7811]	1426.583333	6725.663690	146.750000	864.458333	259.750000
## [7816]	1215.666667	3427.665476	680.255952	492.250000	799.375000
## [7821]	1475.166667	32.833333	4772.919574	5778.966667	816.833333
## [7826]	1586.154762	1335.809127	743.750000	6203.690476	2689.625000
## [7831]	774.728814	6617.791228	71.500000	393.500000	96.625000
## [7836]	3283.715359	62.750000	3934.201024	977.533333	4373.847619
## [7841]	162.250000	584.308333	559.000000	922.708333	516.833333
## [7846]	689.202381	1170.166667	3974.534501	1666.750000	3891.214286
## [7851]	2161.388889	2006.834416	103.520833	123.750000	1252.561414
## [7856]	478.033333	1740.052778	156.500000	904.566667	432.750000
## [7861]	2714.958333	871.500000	735.515152	741.055556	833.166667
## [7866]	212.250000	1870.791667	577.166667	1954.754167	2359.375000
## [7871]	1136.083333	686.500000	1427.689394	2162.840879	5254.158333
## [7876]	108.416667	1728.250000	1813.250382	1998.250000	396.166667
## [7881]	576.300000	1035.083333	808.041667	552.333333	491.750000

## [7886]	901.266667	158.750000	1599.500000	675.666667	4590.431277
## [7891]	158.250000	287.333333	253.583333	1768.980303	5602.593506
## [7896]	8336.039583	675.375000	2627.756494	244.750000	2702.390385
## [7901]	3069.077778	1073.310020	13379.366580	1124.888889	6001.171475
## [7906]	2504.870761	4722.568651	457.250000	816.776190	3279.238428
## [7911]	4123.956674	1995.416667	1242.000000	2891.744571	937.716667
## [7916]	983.138889	650.808333	1523.578030	673.033333	190.708333
## [7921]	277.035714	1141.066667	1506.916667	1346.966667	771.875000
## [7926]	7044.064508	709.333333	726.038889	12900.767600	1087.986111
## [7931]	188.458333	4218.916667	5757.853961	402.805556	2787.750000
## [7936]	4815.701606	4766.021032	925.666667	4716.572619	1245.576190
## [7941]	2451.058466	292.875000	2296.250000	38.358333	476.866667
## [7946]	435.333333	597.625000	1677.805952	1177.291667	980.502199
## [7951]	1330.666667	1050.500000	9119.885413	1053.952381	8150.556716
## [7956]	1385.666667	1046.666667	548.283333	603.256526	67.750000
## [7961]	559.750000	14213.636520	2807.164836	2623.916667	2112.101515
## [7966]	9770.812093	2754.117424	1682.250000	1922.150000	1293.083333
## [7971]	3275.873810	208.900000	2668.725046	1543.750000	8555.765985
## [7976]	76.750000	2762.408333	430.607143	851.166667	205.700000
## [7981]	1092.333333	754.319444	1806.166667	674.958333	866.707143
## [7986]	72.250000	637.428571	586.375000	934.150000	5256.472341
## [7991]	411.937500	318.500000	6740.557143	1277.750000	304.541667
## [7996]	1125.875000	2128.730927	1391.733333	64.250000	113.250000
## [8001]	691.252381	274.500000	13265.355950	2846.833333	7569.182143
## [8006]	3436.975000	1957.500000	942.395833	1133.333333	7434.743073
## [8011]	8981.580128	2875.615909	2270.908333	293.725000	678.250000
## [8016]	1636.466667	99.750000	301.666667	2354.958333	183.708333
## [8021]	4876.007712	1598.250000	180.147059	2744.541071	18504.126210
## [8026]	486.666667	1978.148810	421.000000	1430.854167	2611.651923
## [8031]	161.666667	357.555556	2440.473611	348.433333	3752.666970
## [8036]	41.666667	1925.979167	263.250000	917.250000	653.125000
## [8041]	3284.500000	1731.500000	6793.383281	4377.708157	289.625000
## [8046]	135.875000	1678.333333	283.791667	4156.900000	297.125000
## [8051]	562.250000	14129.880800	4868.000000	1195.583333	118.750000
## [8056]	1048.107143	349.375000	2822.172118	2528.287431	677.883333
## [8061]	3959.145344	4307.409559	1960.475000	1789.954762	2284.488095
## [8066]	6481.483333	1051.166667	1966.092332	5160.451362	651.066667
## [8071]	565.416667	1250.125000	572.976191	2555.994444	113.666667
## [8076]	706.050000	4737.087716	25.750000	8205.687940	1933.244444
## [8081]	886.479167	1000.800000	729.791667	96.250000	386.750000
## [8086]	1788.370821	251.291667	656.768182	968.644444	2455.147619
## [8091]	1524.962997	341.250000	8130.964914	5276.227193	381.358333
## [8096]	3497.214286	2065.838165	1441.910588	2330.727381	2910.632251
## [8101]	2719.734091	2170.286706	837.250000	2038.772727	1494.250000
## [8106]	243.166667	1469.666667	7793.158685	1130.926190	2587.766667
## [8111]	39.333333	1405.327056	1032.750000	1279.089286	53.375000
## [8116]	1028.533333	760.875000	1760.613095	3312.879422	921.600000
## [8121]	244.250000	151.416667	553.333333	612.500000	5389.883333
## [8126]	625.300000	3094.366667	276.166667	1316.434982	2719.654762
## [8131]	744.166667	200.933333	3616.008121	696.225000	275.166667
## [8136]	2984.130952	4424.916667	168.900000	250.035714	1352.133333
## [8141]	169.375000	1183.050000	513.333333	2032.599702	464.658333
## [8146]	1238.586029	3621.066667	1836.775000	898.758333	11945.629540
## [8151]	824.229167	451.714286	636.583333	830.104167	2689.291667

## [8156]	2167.126924	943.500000	5505.401209	363.250000	610.191667
## [8161]	1357.833333	336.583333	8618.031872	281.738095	308.500000
## [8166]	1289.000000	409.500000	2348.812500	628.583333	1996.565909
## [8171]	2476.154789	211.416667	2930.722222	4316.833333	2710.381731
## [8176]	2904.922294	427.750000	988.062500	2999.716667	1328.500000
## [8181]	691.357280	912.434849	780.583333	1931.512121	2334.916667
## [8186]	754.300000	167.833333	1291.351190	335.250000	783.375000
## [8191]	1095.658333	187.916667	1258.791667	2351.834722	605.500000
## [8196]	5767.465043	1726.750000	2464.294444	1284.569048	1787.395833
## [8201]	1139.638889	814.154762	2508.413853	2086.666667	124.958333
## [8206]	902.083333	343.250000	660.803968	1407.446429	428.000000
## [8211]	1604.791667	1030.000000	2076.750000	1118.987027	221.250000
## [8216]	3679.128882	242.750000	1643.958333	2834.697619	946.363636
## [8221]	1760.600000	677.000000	381.214286	1784.516667	5189.960659
## [8226]	532.750000	728.979167	1383.375000	513.250000	3247.433333
## [8231]	1017.500000	2553.625000	144.500000	142.750000	214.750000
## [8236]	585.391667	733.250000	2162.657393	11250.486720	159.500000
## [8241]	862.791667	3441.439286	4894.851299	1538.950794	242.916667
## [8246]	71.166667	3074.852778	263.175000	618.250000	2487.061777
## [8251]	2269.732143	2310.083333	374.500000	5057.175000	604.500000
## [8256]	2634.476245	1777.702381	1558.361111	1825.557143	100.416667
## [8261]	6858.672122	79.250000	166.500000	3247.644636	4295.305066
## [8266]	5124.691667	1332.695346	2467.256349	5325.234886	123.166667
## [8271]	902.652778	1330.375000	1714.778571	205.083333	517.035714
## [8276]	1026.450758	57.666667	3575.000000	3696.225342	1600.000000
## [8281]	2230.500000	153.625000	765.041667	1256.383333	2642.458333
## [8286]	1992.916667	1002.491667	494.644048	835.238095	7952.491839
## [8291]	1433.712560	277.300000	2923.250000	1889.953409	8125.852288
## [8296]	199.666667	2008.900974	672.125000	140.166667	4173.131061
## [8301]	2849.482143	444.500000	3079.083333	205.750000	470.000000
## [8306]	1352.833333	497.250000	6975.887249	125.750000	3734.958333
## [8311]	318.750000	1766.833333	608.750000	279.083333	1098.500000
## [8316]	2355.682738	288.125000	1210.921324	863.346825	412.875000
## [8321]	850.666667	8591.591742	1903.601743	1585.608730	6367.506345
## [8326]	978.091667	118.333333	4293.833333	9126.982468	31.166667
## [8331]	402.395833	1632.533333	624.008333	391.583333	664.850000
## [8336]	1254.112179	5321.441032	751.541667	2520.056936	45.250000
## [8341]	31.500000	1456.916667	618.750000	1699.583333	935.097222
## [8346]	541.916667	559.250000	376.000000	811.863095	446.000000
## [8351]	1166.683333	233.375000	72.416667	2371.371545	3881.793590
## [8356]	1761.285714	333.333333	1343.946429	87.916667	1089.285714
## [8361]	737.750000	1102.850000	3763.000758	916.000000	491.583333
## [8366]	585.800000	630.083333	657.250000	366.500000	1478.073810
## [8371]	152.416667	711.363095	3881.938907	890.527778	1125.904762
## [8376]	1610.783197	3488.070803	2762.770833	460.833333	211.833333
## [8381]	13.250000	5244.471512	237.750000	671.088652	107.166667
## [8386]	517.541667	1767.400000	338.583333	1218.030952	1358.874152
## [8391]	1831.903509	1076.861905	529.291667	194.500000	1297.464286
## [8396]	720.425794	2370.729167	391.250000	392.187500	14568.162010
## [8401]	5619.384897	143.333333	1655.358333	3511.833059	405.100000
## [8406]	1182.590278	2367.400000	8596.669979	683.029221	671.425000
## [8411]	4263.977734	87.875000	427.816667	192.083333	2183.887500
## [8416]	5341.784253	3650.316667	4041.734915	3986.789646	707.166667
## [8421]	253.250000	1900.675000	549.950000	271.166667	556.916667

## [8426]	897.090278	535.250000	1091.005876	374.416667	1743.517857
## [8431]	2986.916667	1731.625000	797.833333	2345.589140	6225.988835
## [8436]	810.500000	504.500000	137.250000	1174.666667	11208.355060
## [8441]	107.929167	661.500000	803.333333	1242.661699	3879.831760
## [8446]	1055.333333	968.196429	177.583333	183.625000	92.333333
## [8451]	1051.125000	1581.500000	152.500000	9952.349817	702.125000
## [8456]	641.694444	783.636364	2034.261905	1361.634420	753.100000
## [8461]	2107.258333	6483.080400	686.878968	1550.916667	3105.365207
## [8466]	110.333333	327.650000	309.166667	432.166667	140.250000
## [8471]	476.250000	419.375000	348.500000	3711.605357	1267.502814
## [8476]	2997.083333	1493.958333	10415.325660	697.500000	484.845238
## [8481]	3068.062904	3763.447588	2863.400427	1277.741667	1069.973810
## [8486]	5918.308915	125.125000	6449.457197	1608.214286	8249.106771
## [8491]	382.033333	90.166667	2473.196429	1344.750000	1422.909324
## [8496]	1473.658333	4681.420833	1938.996646	3165.958333	753.637363
## [8501]	1263.900000	98.250000	1470.629167	770.583333	1410.428571
## [8506]	3154.970833	2933.695013	411.916667	268.750000	363.000000
## [8511]	126.083333	489.708333	1866.107143	330.416667	2447.548611
## [8516]	2269.336111	445.500000	1669.988095	569.750000	3359.625000
## [8521]	8864.036841	440.583333	19.250000	2128.416667	1117.642857
## [8526]	1241.750000	991.827020	2786.916667	516.500000	2028.172619
## [8531]	4042.949908	2767.976190	3237.114166	1708.625000	2531.342297
## [8536]	488.750000	4409.300000	1066.339286	3363.182143	991.500000
## [8541]	1843.187696	2352.166667	1269.645833	1167.321429	72.750000
## [8546]	1457.113095	1262.651515	971.666667	4279.966667	694.017857
## [8551]	1531.920136	2147.983333	3573.472222	1338.225000	3559.375000
## [8556]	1231.791667	115.625000	357.000000	1016.160714	3197.290064
## [8561]	1481.429167	2587.150595	390.773810	402.958333	2499.990079
## [8566]	710.541667	313.250000	1425.566667	2589.881537	1142.195833
## [8571]	777.333333	736.233333	210.250000	1266.094048	1009.950000
## [8576]	1661.133333	907.508333	105.616667	411.083333	558.398809
## [8581]	3421.575758	2158.500000	3484.269118	11232.656910	587.250000
## [8586]	2971.435101	974.166667	863.166667	2448.536054	9666.857845
## [8591]	783.694444	929.083333	1249.481746	4374.416667	887.800000
## [8596]	4558.372222	2549.534524	168.000000	849.833333	621.416667
## [8601]	2386.000000	385.291667	2498.833658	550.166667	814.000000
## [8606]	446.250000	143.200000	4081.248718	1607.191667	1233.307765
## [8611]	676.250000	4709.992857	168.500000	11246.133790	1729.750000
## [8616]	661.916667	8437.099188	1145.416667	174.083333	372.250000
## [8621]	3725.670725	2547.717986	2073.383333	2784.800000	796.250000
## [8626]	181.750000	2209.554876	284.700000	4937.639583	593.291667
## [8631]	752.761905	3494.831225	248.000000	1793.214286	968.092445
## [8636]	2161.133333	865.807143	1202.750000	4447.110508	1669.940186
## [8641]	290.100000	1704.580556	2106.833333	398.694444	16138.290800
## [8646]	2123.000000	851.885714	381.750000	535.000000	5076.380556
## [8651]	1543.500000	3675.500000	689.060606	323.683333	935.250000
## [8656]	555.666667	235.416667	524.000000	445.583333	916.500000
## [8661]	2453.177381	673.625000	220.266667	170.250000	91.750000
## [8666]	316.541667	818.583333	620.500000	1143.833333	2011.041667
## [8671]	1410.238889	448.194589	953.666667	2426.791667	6732.124414
## [8676]	33.333333	544.000000	858.833333	344.345238	2195.283333
## [8681]	3452.262500	865.583333	3614.105147	1893.444444	1090.700000
## [8686]	682.958333	1183.650000	7114.798341	880.633333	2652.552904
## [8691]	2190.429367	356.083333	212.750000	357.750000	1605.875000



## [8696]	3608.432937	9354.484111	4442.394444	2767.625000	332.333333
## [8701]	4568.338675	2780.600000	825.140152	172.208333	226.666667
## [8706]	3989.485553	3401.300000	2436.106169	4514.739394	3418.696975
## [8711]	181.666667	689.991667	755.250000	106.750000	3830.000000
## [8716]	8060.963948	96.125000	1544.750000	3215.173074	3688.846861
## [8721]	827.166667	4165.138690	1838.850000	3887.222321	3174.642793
## [8726]	700.127778	1316.035714	2572.429487	1287.958333	2019.828571
## [8731]	716.791667	3339.075980	6817.942235	3785.562500	361.000000
## [8736]	2570.426190	1209.558333	366.583333	4191.031746	5402.785260
## [8741]	2451.000000	7980.363439	968.666667	1390.583333	2466.533333
## [8746]	592.500000	1933.423611	1869.451190	2581.355128	170.666667
## [8751]	875.155952	2871.104167	2258.175000	1982.884524	2856.993600
## [8756]	2232.833333	955.525000	3329.100000	1283.750000	423.166667
## [8761]	1570.469048	602.916667	205.500000	3186.958333	646.166667
## [8766]	633.750000	100.250000	1338.933333	542.933333	9405.836721
## [8771]	249.333333	672.875000	930.014103	5093.300000	3580.333333
## [8776]	2034.466667	101.750000	997.287879	412.250000	680.500000
## [8781]	1093.833333	4502.511111	2716.519048	1878.195833	1039.887446
## [8786]	3274.521154	4484.669445	67.666667	5208.650000	646.825000
## [8791]	1617.519048	955.543215	350.250000	1873.589297	1712.416667
## [8796]	696.875000	916.625000	83.416667	3585.177579	2964.650595
## [8801]	757.375000	3913.987030	685.750000	572.000000	213.000000
## [8806]	180.750000	933.850000	3163.143290	347.732143	3634.141512
## [8811]	784.083333	6050.883117	2228.707287	936.133333	2706.595238
## [8816]	1494.125000	1178.250000	2447.300000	487.000000	1438.100000
## [8821]	533.700000	316.600000	2180.933333	778.675000	724.766667
## [8826]	1189.053571	2054.841667	375.554762	4344.919986	329.683333
## [8831]	338.750000	8425.870475	109.166667	1996.816667	470.500000
## [8836]	267.750000	3013.116917	1336.208333	496.482143	1384.197436
## [8841]	404.339286	1118.833333	578.810606	129.250000	586.850000
## [8846]	1661.166667	3457.285317	1037.819444	4984.542857	1591.000000
## [8851]	315.779762	1599.994589	10044.757560	603.250000	686.583333
## [8856]	117.625000	4931.198912	3708.383949	3411.955853	143.375000
## [8861]	194.750000	119.250000	456.525000	262.916667	250.250000
## [8866]	2853.020833	1029.250000	3606.088889	2267.833333	1344.340476
## [8871]	2415.416667	1398.937500	313.583333	2546.856685	1253.176407
## [8876]	938.583333	914.333333	833.669551	2253.799603	5358.375439
## [8881]	446.383333	499.608333	1231.500000	1364.812500	339.750000
## [8886]	362.750000	2375.083333	577.541667	1483.800000	943.250000
## [8891]	1167.950000	3719.643711	947.357702	2335.633333	1109.083333
## [8896]	225.500000	662.500000	269.683333	766.250000	3487.124710
## [8901]	11257.108300	755.175000	1265.892857	81.750000	170.750000
## [8906]	1182.416667	585.650000	1805.425000	2590.016667	374.000000
## [8911]	3346.041667	1212.441667	2478.070833	10497.154430	297.833333
## [8916]	1689.708333	829.333333	1659.866667	4006.359314	1285.166667
## [8921]	1753.083333	1952.750000	1194.750000	235.500000	2631.473214
## [8926]	812.104762	422.500000	372.816667	1474.530303	832.083333
## [8931]	1204.416667	930.053571	190.159091	1692.257143	178.250000
## [8936]	2663.583333	897.783730	3998.333333	3505.087955	12499.377110
## [8941]	12433.218650	221.375000	5947.971230	134.500000	4478.699416
## [8946]	4875.609432	3978.626167	138.166667	794.541667	2426.266667
## [8951]	4829.625000	1776.083333	98.550000	1268.116667	1263.864951
## [8956]	1164.202381	599.583333	5209.958128	1005.833333	6794.735417
## [8961]	2544.053571	56.625000	1717.740476	1778.663263	1246.708333

## [8966]	342.920238	2565.797222	488.409091	4838.294060	7445.957075
## [8971]	2763.011332	1874.841667	493.000000	293.416667	2903.764417
## [8976]	8956.097502	1140.791667	723.766667	1584.250000	7468.860173
## [8981]	610.975000	276.500000	47.250000	0.500000	431.166667
## [8986]	1249.750000	366.750000	3230.546573	1195.375000	7514.790476
## [8991]	10580.344790	1170.711048	1034.312500	1477.734676	1786.109649
## [8996]	1787.500000	104.500000	369.050000	1407.375000	2002.814281
## [9001]	4008.578283	866.416667	381.250000	2796.316667	8068.742154
## [9006]	160.250000	1909.232143	2002.230612	1677.178571	9485.374568
## [9011]	1162.797222	1899.598899	1089.625000	1435.772114	6630.479365
## [9016]	6194.852381	2767.366071	2271.553571	325.166667	1477.394841
## [9021]	343.833333	173.433333	1697.058333	1860.250000	122.666667
## [9026]	267.733333	53.833333	308.333333	929.333333	2265.571429
## [9031]	663.000000	1009.430952	601.086415	529.500000	640.875000
## [9036]	369.500000	534.263889	305.400000	2834.280117	465.732143
## [9041]	1073.295779	868.678571	351.500000	807.083333	3041.676452
## [9046]	403.416667	2186.145833	720.150000	2408.579762	1602.350000
## [9051]	150.250000	879.500000	1234.525000	954.908333	3740.291667
## [9056]	759.083333	831.111111	537.625000	1234.500000	690.254167
## [9061]	152.750000	797.761905	2895.129762	2011.305556	614.750000
## [9066]	417.750000	3400.248897	2526.483333	613.895833	1237.000000
## [9071]	651.866667	491.375000	469.976190	219.250000	607.589286
## [9076]	107.250000	1256.333333	1624.941667	333.250000	2386.066667
## [9081]	3324.597222	59.250000	249.666667	3874.240873	1930.410714
## [9086]	3554.649020	766.216667	1307.472222	661.138889	3556.346795
## [9091]	1141.175000	2958.216667	1553.269048	579.000000	1222.250000
## [9096]	1947.500000	166.083333	4223.409838	14988.591510	402.043040
## [9101]	935.900000	412.083333	215.952381	455.083333	1300.041667
## [9106]	7767.325560	701.803247	434.583333	1919.550000	1251.932143
## [9111]	2350.905769	10886.876920	12460.670060	4403.382777	2151.097436
## [9116]	1055.750000	760.619048	1012.166667	810.333333	4567.942696
## [9121]	502.916667	1251.316667	3624.056349	155.250000	900.500000
## [9126]	2616.905952	138.750000	4334.815476	772.916667	1138.250000
## [9131]	2266.270833	1892.005556	181.300000	947.883333	2719.525974
## [9136]	668.100000	916.922222	5617.092505	38.750000	3095.200725
## [9141]	730.350000	612.819444	702.643162	461.108333	642.464286
## [9146]	1259.872817	1032.008333	94.000000	153.750000	380.946429
## [9151]	653.859524	1740.525631	1889.833333	984.500000	5246.435176
## [9156]	1222.625000	1597.106090	1204.664683	1689.134524	11231.410120
## [9161]	317.250000	1262.488779	587.916667	1324.133333	378.500000
## [9166]	365.166667	81.375000	315.694444	189.416667	7750.537279
## [9171]	681.500000	4312.225000	338.791667	5286.208333	3486.194444
## [9176]	6560.007540	2971.254167	2612.000000	3085.620238	4609.626389
## [9181]	123.666667	446.416667	1248.058333	541.207143	2365.429545
## [9186]	2706.375000	783.666667	4264.419078	997.708333	548.166667
## [9191]	7356.402381	6375.065753	7128.753770	4803.827170	4777.812554
## [9196]	4479.116226	501.800000	2591.795346	4054.755952	471.416667
## [9201]	1157.416667	2016.115385	839.416667	2633.084900	190.500000
## [9206]	7532.511111	76.666667	370.458333	2277.555556	5948.998311
## [9211]	1089.208333	1320.189881	246.166667	1106.000000	264.250000
## [9216]	487.458333	1352.000000	644.875000	887.000000	122.225000
## [9221]	1002.847222	961.250000	14150.546130	2701.337954	823.000000
## [9226]	1897.687500	220.500000	2218.717208	159.300000	146.916667
## [9231]	3269.256933	444.250000	619.520833	2925.677607	4097.403993

## [9236]	1753.761111	7700.501461	787.750000	1589.625000	2994.827381
## [9241]	3211.344872	1958.833333	2628.000000	124.750000	2709.522357
## [9246]	11240.976690	790.000000	3006.883631	376.516667	7190.547947
## [9251]	772.625000	901.288889	54.333333	179.958333	2721.555108
## [9256]	1673.593939	670.000000	1121.416667	1284.361822	281.900000
## [9261]	1085.250000	353.083333	5395.201794	389.410714	483.291667
## [9266]	1493.353846	350.375000	1375.800000	568.250000	1254.295238
## [9271]	2221.000000	4597.575252	234.500000	146.375000	1119.541667
## [9276]	329.250000	429.916667	1127.566667	1500.033333	1032.900000
## [9281]	3346.501984	732.344872	4928.927389	1568.650000	430.166667
## [9286]	576.857143	891.500000	3779.444444	557.350000	50.250000
## [9291]	1065.450000	4391.876232	221.208333	298.875000	2117.654762
## [9296]	5610.686899	1460.256115	764.666667	12595.627760	761.750000
## [9301]	12166.694240	2007.000000	3944.384921	64.208333	4227.094444
## [9306]	631.775000	416.583333	1063.420238	1934.225758	2527.083333
## [9311]	2495.615079	655.875000	1415.387500	658.750000	332.166667
## [9316]	498.200000	330.166667	97.833333	345.000000	1668.950000
## [9321]	1327.666667	941.672619	735.439286	5091.890896	277.166667
## [9326]	1342.434295	371.250000	1110.666667	4947.358038	1706.064885
## [9331]	383.458333	82.750000	68.250000	1033.000000	687.483333
## [9336]	2599.015278	2371.122222	671.625000	1461.416667	386.250000
## [9341]	1355.483333	331.083333	651.666667	1909.080556	874.404762
## [9346]	770.500000	612.625000	320.750000	2405.652778	343.625000
## [9351]	182.625000	213.947222	1521.150000	1344.458333	1081.666667
## [9356]	296.500000	2632.189286	2588.154762	4326.666667	1119.543056
## [9361]	4201.508333	241.625000	753.500000	1440.933333	1896.966667
## [9366]	609.348810	437.833333	1038.791667	1347.266667	370.666667
## [9371]	60.250000	543.958333	5509.717928	449.250000	332.125000
## [9376]	1694.333333	249.821429	5588.185426	4792.380767	988.259524
## [9381]	36.250000	1171.071429	4698.796429	1276.594048	392.500000
## [9386]	6942.783547	966.358333	1107.922619	1403.541667	2068.248473
## [9391]	829.519048	602.500000	792.750000	868.016667	933.550000
## [9396]	398.979167	2900.791667	1232.083333	9230.890838	636.500000
## [9401]	2338.950000	941.916667	8777.613879	1883.444231	1467.654221
## [9406]	1043.150000	1509.500000	1277.842857	282.750000	654.875000
## [9411]	610.309524	586.000000	5155.351132	640.375000	12003.317580
## [9416]	161.250000	3865.838889	2801.131746	1840.369156	4637.538420
## [9421]	647.625000	2018.762066	297.083333	6308.063793	278.750000
## [9426]	85.250000	1836.214249	289.555556	704.300000	4108.808442
## [9431]	3354.078463	1121.500000	1387.500000	2924.432937	1010.375000
## [9436]	3116.500000	1570.791667	2163.500000	6212.779517	6384.366987
## [9441]	1023.125000	879.800000	9676.093180	8115.845852	693.254167
## [9446]	278.666667	1012.233333	1014.375000	1107.267857	5496.630355
## [9451]	1609.990079	6338.256636	3459.479978	52.666667	1053.841565
## [9456]	3671.675000	2219.866667	155.333333	1134.455556	389.166667
## [9461]	902.666667	2201.710714	102.750000	3653.641667	264.083333
## [9466]	853.416667	217.500000	223.416667	1893.650488	2077.806007
## [9471]	1389.216667	6784.671131	183.875000	199.250000	3675.940705
## [9476]	840.995292	3466.794048	833.750000	1350.258333	1624.750000
## [9481]	1326.107143	239.583333	413.666667	1458.993056	1287.852778
## [9486]	2640.135697	6673.291392	671.866667	189.750000	472.361111
## [9491]	171.250000	4269.493146	3109.404167	1236.638095	1699.073611
## [9496]	4310.004668	1010.250000	540.333333	2720.265368	867.000000
## [9501]	812.300000	2802.116667	4214.779822	3923.586111	3414.875000

```
## [9506] 6072.032391 2159.004167 671.550000 2773.010873 909.154870
## [9511] 2664.445833 959.811742 2001.833333 4845.989214 1445.840909
## [9516] 2674.339216 1656.410714 7453.766667 854.550000 2650.416667
## [9521] 3918.363736 197.416667 6340.152381 730.791667 88.500000
## [9526] 1008.500000 1422.850000 313.928571 139.750000 472.875000
## [9531] 719.583333 185.250000 172.000000 655.542857 1168.619841
## [9536] 1041.750000 1121.250000 4018.450000 262.900000 4627.489571
## [9541] 11431.001240 2773.500000 705.833333 1453.640882 1128.583333
## [9546] 143.583333 1075.250000 1157.976190 1783.791667 465.750000
## [9551] 184.250000 346.000000
```

```
unique(customer.df$BounceRates)
```

```
## [1] 0.200000000 0.000000000 0.050000000 0.020000000 0.015789474 0.018750000
## [7] 0.008333333 0.002857143 0.043478261 0.040000000 0.014285714 0.015384615
## [13] 0.025000000 0.028571429 0.003030303 0.017142857 0.066666667 0.011111111
## [19] 0.011764706 0.009000000 0.002150538 0.004347826 0.016666667 0.057142857
## [25] 0.003703704 0.038095238 0.004166667 0.007058824 0.150000000 0.044444444
## [31] 0.000854701 0.008000000 0.012903226 0.018181818 0.028000000 0.133333333
## [37] 0.005555556 0.007142857 0.007500000 0.100000000 0.033333333 0.008695652
## [43] 0.030303030 0.015217391 0.086666667 0.010743802 0.003174603 0.001960784
## [49] 0.036190476 0.009090909 0.002061856 0.013068182 0.037619048 0.006666667
## [55] 0.005714286 0.080000000 0.001481481 0.010526316 0.004000000 0.005263158
## [61] 0.006896552 0.011578947 0.022807018 0.023529412 0.005000000 0.012676056
## [67] 0.007246377 0.010000000 0.015555556 0.006451613 0.035714286 0.014583333
## [73] 0.010638298 0.011428571 0.010588235 0.013500000 0.004545455 0.012571429
## [79] 0.013793103 0.022916667 0.005128205 0.013333333 0.003076923 0.002631579
## [85] 0.027083333 0.000098300 0.014814815 0.013888889 0.008897485 0.005333333
## [91] 0.011200000 0.019047619 0.009929078 0.015625000 0.004081633 0.004255319
## [97] 0.003508772 0.005405405 0.022222222 0.003870968 0.075000000 0.002197802
## [103] 0.003571429 0.030000000 0.012500000 0.026666667 0.077777778 0.020512821
## [109] 0.017105263 0.013636364 0.030769231 0.007407407 0.019871795 0.003333333
## [115] 0.007692308 0.028787879 0.005882353 0.023076923 0.038461538 0.009523810
## [121] 0.001298701 0.005797101 0.036363636 0.006635802 0.032727273 0.041666667
## [127] 0.006250000 0.045454545 0.012962963 0.002531328 0.003846154 0.004761905
## [133] 0.002105263 0.002666667 0.003448276 0.000606061 0.004444444 0.055555556
## [139] 0.002439024 0.002469136 0.031932773 0.001666667 0.003673469 0.006060606
## [145] 0.001694915 0.006944444 0.002531646 0.085714286 0.001818182 0.003214696
## [151] 0.011529933 0.001360544 0.007894737 0.024561404 0.000308642 0.000833333
## [157] 0.001098901 0.012121212 0.005952381 0.013675214 0.061538462 0.015686275
## [163] 0.000563380 0.024242424 0.000668896 0.005660377 0.064285714 0.000980392
## [169] 0.004489796 0.010256410 0.007258065 0.003205128 0.016216216 0.016326531
## [175] 0.002272727 0.021052632 0.016000000 0.010869565 0.002941176 0.000892857
## [181] 0.003478261 0.010909091 0.037500000 0.019354839 0.006315789 0.006818182
## [187] 0.003361345 0.003125000 0.001030928 0.011965812 0.004848485 0.021621622
## [193] 0.007967033 0.006470588 0.008928571 0.029629630 0.001333333 0.007843137
## [199] 0.001190476 0.019393939 0.083333333 0.003301887 0.036842105 0.031578947
## [205] 0.006153846 0.002564103 0.017647059 0.019444444 0.003389831 0.000751880
## [211] 0.036000000 0.003070175 0.007272727 0.027586207 0.001562500 0.031818182
## [217] 0.002985075 0.045833333 0.146666667 0.006334842 0.120000000 0.026388889
## [223] 0.012698413 0.003773585 0.001315789 0.161904762 0.004117063 0.013008130
## [229] 0.009032258 0.000374532 0.001724138 0.018055556 0.005172414 0.001550388
## [235] 0.020689655 0.021276596 0.002699055 0.014634146 0.002930403 0.001230769
## [241] 0.000297619 0.038596491 0.002898551 0.004878049 0.000123762 0.001379310
```

```

## [247] 0.002636535 0.042857143 0.032258065 0.034782609 0.060000000 0.009850746
## [253] 0.015995116 0.010810811 0.014141414 0.069230769 0.007777778 0.008087680
## [259] 0.014009662 0.023809524 0.046153846 0.004242424 0.000555556 0.011461988
## [265] 0.001780415 0.012727273 0.031111111 0.140000000 0.001754386 0.047058824
## [271] 0.007017544 0.014184397 0.010989011 0.012280702 0.008888889 0.008943089
## [277] 0.002000000 0.011714286 0.005310734 0.001142857 0.071428571 0.002222222
## [283] 0.004123711 0.002040816 0.155555556 0.011512297 0.009172260 0.008357771
## [289] 0.003636364 0.006097561 0.005500000 0.015000000 0.011827957 0.072108844
## [295] 0.018604651 0.062500000 0.070588235 0.005816216 0.013580247 0.004909561
## [301] 0.018787879 0.003954802 0.006306306 0.020132610 0.012820513 0.009259259
## [307] 0.012878788 0.000256410 0.003188406 0.012433862 0.028065242 0.131250000
## [313] 0.008823529 0.021428571 0.164285714 0.042145594 0.006976744 0.009183673
## [319] 0.026470588 0.007377049 0.026502732 0.088888889 0.063636364 0.019230769
## [325] 0.024000000 0.012765957 0.160000000 0.027777778 0.001408451 0.000925926
## [331] 0.001041667 0.014642857 0.022988506 0.049481481 0.022641509 0.005547653
## [337] 0.009615385 0.026260504 0.021138211 0.003200000 0.035294118 0.002777778
## [343] 0.006369427 0.005617978 0.018333333 0.002812500 0.014705882 0.026086957
## [349] 0.027272727 0.042105263 0.030434783 0.014367816 0.053968254 0.037037037
## [355] 0.008510638 0.053333333 0.115384615 0.006578947 0.001687764 0.004651163
## [361] 0.009950249 0.142857143 0.001212121 0.011320755 0.007600000 0.093333333
## [367] 0.019607843 0.032894737 0.007332941 0.001699507 0.001470588 0.000033500
## [373] 0.021764706 0.019308469 0.021288515 0.010434783 0.023255814 0.004285714
## [379] 0.004263566 0.018518519 0.007660455 0.029411765 0.003747073 0.114285714
## [385] 0.003093259 0.010975610 0.013827160 0.001851852 0.086956522 0.024871795
## [391] 0.014750000 0.004310345 0.034375000 0.028205128 0.018070818 0.006349206
## [397] 0.078947368 0.042592593 0.000952381 0.122222222 0.024747475 0.021938776
## [403] 0.021162791 0.019512195 0.016571429 0.054545455 0.022727273 0.037894737
## [409] 0.111111111 0.014743590 0.001904762 0.011403509 0.005346832 0.001726619
## [415] 0.005696203 0.017543860 0.001111111 0.004687500 0.010958904 0.012000000
## [421] 0.018018018 0.003157895 0.006766917 0.001169591 0.004807692 0.004109589
## [427] 0.015151515 0.056000000 0.002884615 0.051388889 0.084210526 0.020138889
## [433] 0.001086957 0.068571429 0.001439737 0.001739130 0.006410256 0.047619048
## [439] 0.047479439 0.037878788 0.002509267 0.002688695 0.105263158 0.032000000
## [445] 0.002657807 0.001282051 0.008070175 0.044000000 0.030555556 0.001605136
## [451] 0.020588235 0.021739130 0.051190476 0.001149425 0.003069054 0.032432432
## [457] 0.003225806 0.087500000 0.017283951 0.009756098 0.015833333 0.183333333
## [463] 0.004511278 0.009340659 0.004918033 0.014193548 0.017761848 0.008878505
## [469] 0.025147059 0.042553191 0.043750000 0.002692308 0.024074074 0.004819277
## [475] 0.013953488 0.004861111 0.018258179 0.005420054 0.004301075 0.000766284
## [481] 0.005479452 0.013725490 0.000757576 0.048888889 0.021112782 0.011149826
## [487] 0.002528736 0.003418803 0.015909091 0.017500000 0.066459627 0.010714286
## [493] 0.010119048 0.018392857 0.038654646 0.007526882 0.003278689 0.020476190
## [499] 0.005474453 0.008474576 0.004938272 0.015517241 0.008196721 0.004888889
## [505] 0.039215686 0.013144750 0.028947368 0.005309735 0.001917808 0.007547170
## [511] 0.008064516 0.036250000 0.166666667 0.002173913 0.013593814 0.044736842
## [517] 0.005208333 0.021348315 0.075675676 0.016190476 0.010752688 0.018840580
## [523] 0.041843972 0.014666667 0.001736111 0.012205270 0.012345679 0.001034483
## [529] 0.001886792 0.009375000 0.007909605 0.007291667 0.042528736 0.002515091
## [535] 0.017857143 0.072727273 0.001226310 0.035000000 0.011555556 0.001923077
## [541] 0.036781609 0.074074074 0.023794872 0.038888889 0.004098361 0.039495923
## [547] 0.125000000 0.041176471 0.023214286 0.005970149 0.092857143 0.025806452
## [553] 0.092592593 0.053571429 0.006779661 0.019090909 0.034920635 0.020075188
## [559] 0.010606061 0.017204301 0.000877193 0.090476190 0.009433962 0.009740260
## [565] 0.000070900 0.052380952 0.003108808 0.017391304 0.039285714 0.004113924

```

```

## [571] 0.016923077 0.021951220 0.006837607 0.045356473 0.015476190 0.015577078
## [577] 0.004316547 0.008163265 0.032738095 0.014942529 0.012206573 0.010447761
## [583] 0.038709677 0.004890511 0.045238095 0.010009921 0.029166667 0.005102041
## [589] 0.009758454 0.001785714 0.000628931 0.023931624 0.013750000 0.003921569
## [595] 0.010344828 0.015172414 0.047777778 0.017721519 0.046969697 0.004313725
## [601] 0.003750000 0.005154639 0.065384615 0.005084746 0.003065134 0.012874780
## [607] 0.002702703 0.008571429 0.013043478 0.025333333 0.056666667 0.010917582
## [613] 0.013541667 0.000537634 0.004662005 0.028985507 0.006172840 0.017156863
## [619] 0.008771930 0.001587302 0.009677419 0.176923077 0.017021277 0.006280193
## [625] 0.005072464 0.005866667 0.021333333 0.001937543 0.011742424 0.017460317
## [631] 0.002883379 0.015331010 0.009589041 0.020408163 0.048000000 0.012222222
## [637] 0.018918919 0.005769231 0.011904762 0.002608696 0.011259259 0.026923077
## [643] 0.002409639 0.006343284 0.005142857 0.073529412 0.013157895 0.003083900
## [649] 0.007667474 0.010388889 0.007795699 0.068421053 0.060655738 0.011214953
## [655] 0.000975610 0.001494396 0.003519062 0.045977011 0.018857143 0.031250000
## [661] 0.013207547 0.011475410 0.027407407 0.016438356 0.018346253 0.018000000
## [667] 0.003252033 0.000645161 0.000287356 0.049318182 0.019934641 0.007592593
## [673] 0.000217391 0.001156069 0.017241379 0.082352941 0.006333333 0.025423729
## [679] 0.002325581 0.017088608 0.077419355 0.087356322 0.001850220 0.000170068
## [685] 0.014423077 0.005747126 0.000585938 0.066226415 0.026728111 0.001092896
## [691] 0.007402653 0.005853659 0.006500000 0.003956044 0.018666667 0.024615385
## [697] 0.081250000 0.015757576 0.017730496 0.040740741 0.035380117 0.032142857
## [703] 0.013821990 0.011458333 0.046296296 0.048333333 0.004692308 0.058620690
## [709] 0.000531915 0.005454545 0.030107527 0.029268293 0.017187500 0.029901961
## [715] 0.014414414 0.002247191 0.012525010 0.009230769 0.003939056 0.090000000
## [721] 0.005925926 0.009444444 0.026562500 0.036601307 0.002614379 0.010144928
## [727] 0.009406495 0.043333333 0.014875647 0.001538462 0.013711002 0.002463054
## [733] 0.047222222 0.002083333 0.011627907 0.002816901 0.023000000 0.021875000
## [739] 0.014957265 0.009302326 0.003874092 0.031481481 0.033469388 0.003409091
## [745] 0.011538462 0.027619048 0.056250000 0.020202020 0.018137255 0.031944444
## [751] 0.016734694 0.016901408 0.076923077 0.000847458 0.000571429 0.015277778
## [757] 0.005357143 0.004851285 0.039766082 0.009237379 0.035555556 0.018032787
## [763] 0.000675676 0.027659574 0.002252252 0.040096618 0.016842105 0.015104167
## [769] 0.015772358 0.011363636 0.014000000 0.009876543 0.008954009 0.000781250
## [775] 0.007028112 0.004597701 0.017506494 0.013114754 0.011494253 0.007972028
## [781] 0.042083333 0.005607477 0.007189542 0.016117216 0.104166667 0.001363636
## [787] 0.028169014 0.000653595 0.006570513 0.021142857 0.007207207 0.091666667
## [793] 0.025510204 0.002645503 0.039705882 0.059523810 0.000684932 0.012077922
## [799] 0.014979592 0.010666667 0.016091954 0.018627451 0.000641026 0.001075269
## [805] 0.016825397 0.007751938 0.020411523 0.019711538 0.018642295 0.002755906
## [811] 0.021212121 0.022541254 0.061111111 0.026315789 0.009459459 0.005681818
## [817] 0.008889185 0.003477744 0.013471503 0.035087719 0.036206897 0.045307443
## [823] 0.034492302 0.019666667 0.002127660 0.053355457 0.013731061 0.037373737
## [829] 0.002539683 0.025170765 0.047818740 0.015359477 0.015533981 0.027160494
## [835] 0.025952381 0.019496855 0.034126984 0.032236842 0.009722222 0.020930233
## [841] 0.032304527 0.180000000 0.001515152 0.034545455 0.012661499 0.007228916
## [847] 0.014473684 0.109090909 0.031770833 0.050909091 0.001607717 0.040909091
## [853] 0.003603604 0.018279570 0.013620072 0.002500000 0.001869159 0.000169693
## [859] 0.028594771 0.016949153 0.007738095 0.010109290 0.003588626 0.019200000
## [865] 0.022685185 0.026634769 0.008527132 0.046212121 0.004365079 0.004040404
## [871] 0.004155844 0.012549679 0.021367521 0.059090909 0.051851852 0.000027300
## [877] 0.074137931 0.005980066 0.074418605 0.013526570 0.006722689 0.045000000
## [883] 0.079279279 0.046666667 0.017486109 0.018814433 0.042666667 0.008108108
## [889] 0.022666667 0.032877299 0.007446809 0.002821317 0.004571429 0.001176471

```

```

## [895] 0.034693878 0.027380952 0.003614458 0.060416667 0.017699115 0.000888889
## [901] 0.121621622 0.015510204 0.011455734 0.010833333 0.053205128 0.000323719
## [907] 0.015327635 0.007317073 0.001307190 0.015444370 0.057801418 0.032051282
## [913] 0.002554278 0.004356436 0.026075269 0.010209424 0.112500000 0.005533063
## [919] 0.017126437 0.004804805 0.006716418 0.007619048 0.002739726 0.002380952
## [925] 0.004210526 0.002959159 0.006557377 0.004512398 0.127272727 0.007903295
## [931] 0.039000000 0.052252252 0.018048780 0.006140351 0.001709402 0.032611502
## [937] 0.032098765 0.068518519 0.084615385 0.005230769 0.029946524 0.002671513
## [943] 0.013402778 0.010416667 0.015773810 0.017948718 0.002181818 0.015762274
## [949] 0.012800000 0.002520046 0.002431163 0.010687023 0.008247423 0.027118644
## [955] 0.056140351 0.004269006 0.002090592 0.028048780 0.019799499 0.019259259
## [961] 0.052564103 0.015238095 0.027027027 0.027053140 0.032954545 0.004273504
## [967] 0.007936508 0.062222222 0.012735849 0.007264957 0.031060606 0.008611111
## [973] 0.013661202 0.000724638 0.013882353 0.041945289 0.011351351 0.012244898
## [979] 0.058333333 0.006631763 0.003592814 0.003138528 0.003191489 0.031313131
## [985] 0.016352201 0.000352113 0.002597403 0.027526132 0.001909722 0.101149425
## [991] 0.052941176 0.003044140 0.008080808 0.009853301 0.011252599 0.010317460
## [997] 0.068292683 0.004421769 0.000226757 0.022580645 0.035370370 0.062745098
## [1003] 0.012852234 0.008914729 0.058928571 0.090909091 0.002339181 0.007007576
## [1009] 0.008421053 0.014035088 0.018556202 0.000934579 0.002291667 0.014102564
## [1015] 0.008620690 0.000038300 0.008636364 0.015609756 0.017351104 0.008800000
## [1021] 0.036507937 0.024722222 0.015492958 0.070833333 0.015456989 0.043181818
## [1027] 0.009803922 0.010055755 0.005666667 0.002722772 0.023333333 0.015178571
## [1033] 0.019362745 0.014074074 0.015839126 0.014682540 0.001532567 0.023134328
## [1039] 0.012068966 0.006122449 0.008552632 0.007631579 0.039047619 0.011818182
## [1045] 0.023611111 0.054285714 0.001025641 0.011084337 0.016417910 0.072222222
## [1051] 0.074774775 0.005563910 0.010101010 0.003575419 0.000276040 0.024324324
## [1057] 0.036936937 0.002453988 0.006593407 0.000714286 0.009289968 0.000830955
## [1063] 0.003111111 0.048148148 0.024937343 0.010232558 0.009105691 0.011392405
## [1069] 0.041463415 0.011250000 0.044047619 0.061904762 0.017534722 0.009803094
## [1075] 0.058823529 0.009009009 0.000696864 0.020952381 0.000902151 0.013768116
## [1081] 0.003140097 0.025906525 0.002892562 0.014166667 0.001891253 0.039473684
## [1087] 0.029570957 0.000694444 0.026984127 0.041333333 0.012378641 0.019139785
## [1093] 0.011842105 0.022153846 0.006024096 0.013829787 0.055172414 0.005615082
## [1099] 0.019973545 0.031506849 0.020689931 0.006425703 0.013235294 0.000391389
## [1105] 0.010365854 0.015227273 0.010204082 0.012558140 0.055000000 0.018974359
## [1111] 0.046913580 0.004494382 0.164230769 0.006857143 0.020833333 0.056060606
## [1117] 0.022076923 0.009345794 0.005698006 0.005177873 0.069565217 0.034482759
## [1123] 0.005345912 0.001459854 0.004266667 0.001773050 0.051797386 0.006213018
## [1129] 0.020754717 0.010270270 0.042222222 0.006342495 0.006756757 0.015758703
## [1135] 0.060925926 0.059649123 0.024223602 0.012239583 0.030612245 0.007435897
## [1141] 0.005050505 0.001204819 0.005995204 0.000340136 0.057870370 0.002259887
## [1147] 0.005664488 0.012549020 0.002556818 0.001811594 0.001265823 0.033000000
## [1153] 0.032478632 0.033789954 0.009900332 0.015067698 0.000209249 0.000039400
## [1159] 0.018785882 0.110000000 0.040350877 0.001495726 0.061494253 0.023846154
## [1165] 0.003314917 0.003604845 0.003370787 0.021929825 0.012666667 0.000425406
## [1171] 0.080837790 0.037525773 0.138461538 0.023456790 0.009782609 0.000432900
## [1177] 0.107692308 0.059064327 0.024509804 0.003013699 0.010476190 0.014150943
## [1183] 0.011276738 0.007286432 0.021980198 0.005092593 0.014137484 0.025287356
## [1189] 0.024119241 0.065000000 0.025581395 0.013095238 0.008593750 0.019565217
## [1195] 0.090322581 0.015630252 0.038157895 0.030952381 0.003101093 0.004022989
## [1201] 0.004901961 0.004731183 0.005390836 0.006113821 0.001449275 0.000764406
## [1207] 0.008732394 0.036538462 0.008904110 0.009500000 0.005046115 0.110714286
## [1213] 0.005633803 0.009817814 0.039130435 0.003649635 0.000423729 0.017567568

```

```

## [1219] 0.003958333 0.008843537 0.029696970 0.004195804 0.000183655 0.015196078
## [1225] 0.125925926 0.010793651 0.028733963 0.003424658 0.015646259 0.000080800
## [1231] 0.020767196 0.003409759 0.007699443 0.006456456 0.029032258 0.025925926
## [1237] 0.025595238 0.008219178 0.011866969 0.005200000 0.001927438 0.015873016
## [1243] 0.002580645 0.016945141 0.005194805 0.010654414 0.002837838 0.006025974
## [1249] 0.011520436 0.004859086 0.011940299 0.009614512 0.006314433 0.000617284
## [1255] 0.002099380 0.008758782 0.001273885 0.004411765 0.004373522 0.024205128
## [1261] 0.002878526 0.005042017 0.007543860 0.000793651 0.004615385 0.002514286
## [1267] 0.001387656 0.009039548 0.001428571 0.018732493 0.003012048 0.001713207
## [1273] 0.004464286 0.001250000 0.005426357 0.000387597 0.001949318 0.095833333
## [1279] 0.019298246 0.005517241 0.020430108 0.005670471 0.034951923 0.008680556
## [1285] 0.012190476 0.002142857 0.002571429 0.005343511 0.001183432 0.011806061
## [1291] 0.012700000 0.007561930 0.007701238 0.008450704 0.018421053 0.005629630
## [1297] 0.008461538 0.002298851 0.011728395 0.001242236 0.002352941 0.004021164
## [1303] 0.024652778 0.002073171 0.027459219 0.002619048 0.014516129 0.007309999
## [1309] 0.003082192 0.016315049 0.004487179 0.056410256 0.013978495 0.000977199
## [1315] 0.007496464 0.016071429 0.030588235 0.009629630 0.002393617 0.003809524
## [1321] 0.004680851 0.005228758 0.008959436 0.022000000 0.027222222 0.013285024
## [1327] 0.011608301 0.001168385 0.001612903 0.007792208 0.036904762 0.012926829
## [1333] 0.073376623 0.004385217 0.009617486 0.002457143 0.001374570 0.022621723
## [1339] 0.005998168 0.012098765 0.007123288 0.008670520 0.032248521 0.004556930
## [1345] 0.003760684 0.005268892 0.003294118 0.003765060 0.019767442 0.007542901
## [1351] 0.007586207 0.009808489 0.041269841 0.017014925 0.008955224 0.003928571
## [1357] 0.027642276 0.026111111 0.007213930 0.006408856 0.005701754 0.007670851
## [1363] 0.002684564 0.003964723 0.002623688 0.006000000 0.002749141 0.006774194
## [1369] 0.001626016 0.007143733 0.013684211 0.005645161 0.000595238 0.000259740
## [1375] 0.012295082 0.011219512 0.019379845 0.007083333 0.028910577 0.010550214
## [1381] 0.005342081 0.011664747 0.010425240 0.043851852 0.003037975 0.014613095
## [1387] 0.012004662 0.012544803 0.037333333 0.008939014 0.030158730 0.004176829
## [1393] 0.001257862 0.032183908 0.000840336 0.015662578 0.007231405 0.003458896
## [1399] 0.010295359 0.003617021 0.006959671 0.000275482 0.070000000 0.000072700
## [1405] 0.007719298 0.013968254 0.009985097 0.017172510 0.005315857 0.007516340
## [1411] 0.007646236 0.006547137 0.003896104 0.003888889 0.006906077 0.022887324
## [1417] 0.017687075 0.008962264 0.044166667 0.012471910 0.006967985 0.038927739
## [1423] 0.004038462 0.000156740 0.001094276 0.000754717 0.007422680 0.023849540
## [1429] 0.025531915 0.007518797 0.009993099 0.000199005 0.002553191 0.009530632
## [1435] 0.019984314 0.022549020 0.003734440 0.004924242 0.009364162 0.003883495
## [1441] 0.015813953 0.010185185 0.012125280 0.005932203 0.035497835 0.002111614
## [1447] 0.003947368 0.008536232 0.003723404 0.002654867 0.039463602 0.001162791
## [1453] 0.007633588 0.006081081 0.011897436 0.008004926 0.002962963 0.010112994
## [1459] 0.002419355 0.002401067 0.005073996 0.014393939 0.019242424 0.017777778
## [1465] 0.006479313 0.002020202 0.012254902 0.002678571 0.010632603 0.000238095
## [1471] 0.021311475 0.005409357 0.003477444 0.005228377 0.175000000 0.011666667
## [1477] 0.004678363 0.016281269 0.007198364 0.001680672 0.003000000 0.005581395
## [1483] 0.012195122 0.007126437 0.004318937 0.004054054 0.002551834 0.001396648
## [1489] 0.012452132 0.013432836 0.017486339 0.011594203 0.005165165 0.000655738
## [1495] 0.028955224 0.005767417 0.013000000 0.000342466 0.024623656 0.001081081
## [1501] 0.008321168 0.000568182 0.003933137 0.015819209 0.003436426 0.051282051
## [1507] 0.003850267 0.008873457 0.014830918 0.006174089 0.022857143 0.012738095
## [1513] 0.000775194 0.003381995 0.006103286 0.000444444 0.003165468 0.058550725
## [1519] 0.006293706 0.082142857 0.008732719 0.006289308 0.004395604 0.014155251
## [1525] 0.002316602 0.014132104 0.007452575 0.000795756 0.002406417 0.009251810
## [1531] 0.034722222 0.008383234 0.003555556 0.008445946 0.002790698 0.000216450
## [1537] 0.004528302 0.003260870 0.003731343 0.020370370 0.003449420 0.005921856

```



```

## [1543] 0.007395833 0.009047619 0.002459016 0.002322880 0.001010101 0.013513514
## [1549] 0.001973684 0.008767123 0.014038462 0.007179487 0.002641509 0.004207921
## [1555] 0.004787234 0.002769231 0.019555912 0.015892388 0.012037037 0.003797468
## [1561] 0.012987013 0.003312325 0.004361055 0.002968037 0.012365591 0.000866739
## [1567] 0.004419890 0.005434783 0.001290323 0.021862348 0.002063983 0.003529412
## [1573] 0.007348856 0.002138405 0.005401961 0.018285714 0.004030055 0.013761468
## [1579] 0.003914141 0.007520348 0.000080100 0.048181818 0.009312550 0.002988954
## [1585] 0.005504587 0.005755396 0.010856514 0.018823529 0.007042254 0.007766272
## [1591] 0.019819820 0.003105023 0.001318681 0.004871324 0.007876231 0.002296651
## [1597] 0.023570370 0.006079027 0.016969697 0.019191919 0.003787879 0.011548556
## [1603] 0.005833333 0.007070707 0.020289855 0.024358974 0.018412698 0.004032258
## [1609] 0.009565217 0.000269542 0.004093567 0.006106870 0.018571429 0.001492537
## [1615] 0.001849665 0.008181818 0.003454411 0.003658537 0.034873188 0.013131313
## [1621] 0.004824561 0.000533333 0.009684685 0.001600000 0.001234568 0.029761905
## [1627] 0.006527627 0.006697236 0.002682927 0.015454545 0.001013514 0.000943396
## [1633] 0.008844998 0.001746725 0.026523297 0.000189394 0.001941748 0.010731707
## [1639] 0.025133333 0.011481481 0.001834947 0.021937322 0.005847953 0.003163265
## [1645] 0.023015873 0.002873563 0.003993856 0.003151515 0.005063291 0.001136364
## [1651] 0.005612245 0.007092199 0.016853933 0.033846154 0.004531590 0.009195402
## [1657] 0.020454545 0.000081400 0.002201835 0.011515152 0.006633907 0.012945470
## [1663] 0.005075446 0.005373737 0.009401851 0.022278912 0.003562341 0.008042825
## [1669] 0.011911765 0.004181185 0.024738676 0.003307888 0.121428571 0.011229304
## [1675] 0.013120000 0.004790419 0.010353866 0.006940472 0.007118644 0.003863636
## [1681] 0.028354978 0.001685393 0.095454545 0.004026846 0.000420168 0.014385965
## [1687] 0.014197531 0.044827586 0.011507937 0.012285714 0.082500000 0.024347826
## [1693] 0.010320513 0.010601564 0.003164557 0.001858304 0.011898734 0.036885246
## [1699] 0.017042607 0.002721088 0.009142857 0.003601695 0.004137931 0.004778942
## [1705] 0.010967742 0.008018648 0.009836066 0.003543956 0.006439394 0.001652893
## [1711] 0.013846154 0.003043735 0.011678832 0.003647799 0.006036217 0.010978836
## [1717] 0.003900709 0.002923977 0.016612903 0.011000000 0.034259259 0.001673640
## [1723] 0.000968661 0.000075000 0.007594937 0.016929293 0.012231559 0.001052632
## [1729] 0.008313228 0.000176367 0.006737589 0.003472222 0.008408408 0.007494145
## [1735] 0.006617647 0.008175105 0.010769231 0.005424955 0.004320988 0.003403141
## [1741] 0.005025126 0.002420052 0.010560000 0.021153846 0.009770115 0.014920635
## [1747] 0.011463415 0.005574913 0.000472813 0.028253968 0.017741935 0.007355769
## [1753] 0.002950260 0.002758621 0.002747253 0.038478261 0.001989390 0.006577408
## [1759] 0.019780220 0.022902098 0.007906977 0.008311643 0.003046557 0.004316069
## [1765] 0.005367232 0.003094233 0.012900188 0.003821138 0.004767742 0.003003003
## [1771] 0.005185185 0.008325792 0.003113824 0.010964912 0.015094340 0.003645833
## [1777] 0.015540541 0.012643678 0.004883721 0.014692557 0.017123288 0.006494118
## [1783] 0.008403361 0.008498915 0.006045198 0.059259259 0.012088889 0.005110897
## [1789] 0.007569141 0.002944942 0.009489489 0.005531915 0.016447876 0.003594771
## [1795] 0.012612613 0.015018315 0.002616034 0.002472799 0.007911051 0.008697765
## [1801] 0.010851648 0.014062500 0.007783883 0.004512276 0.009389180 0.012794613
## [1807] 0.005666252 0.005442177 0.009681373 0.004481793 0.005957447 0.005983360
## [1813] 0.010771277 0.000223214 0.006586826 0.016480331 0.012382578 0.004629630
## [1819] 0.001396161 0.001951952 0.010485437 0.016129032 0.002118270 0.016774043
## [1825] 0.008759124 0.008045977 0.004703833 0.002376812 0.005161290 0.005649718
## [1831] 0.003582090 0.006521739 0.001138211 0.011805556 0.021978022 0.001905069
## [1837] 0.000729167 0.002212389 0.003960396 0.006458333 0.017073171 0.007159986
## [1843] 0.006893004 0.003655352 0.006458094 0.000500000 0.009895833 0.002513228
## [1849] 0.007552448 0.012307692 0.006741573 0.024162985 0.011054834 0.008398675
## [1855] 0.058181818 0.010192616 0.001574803 0.002990033 0.002680653 0.004830918
## [1861] 0.004931973 0.018431373 0.018367347 0.010087719 0.000687831 0.030848861

```

```
## [1867] 0.008396947 0.000865801 0.005412371 0.003827751 0.000869565 0.011148992
```

```
unique(customer.df$ExitRates)
```

```
## [1] 0.200000000 0.100000000 0.140000000 0.050000000 0.024561404 0.022222222
## [7] 0.066666667 0.025833333 0.028571429 0.016312636 0.007692308 0.010000000
## [13] 0.008333333 0.033333333 0.040000000 0.009523810 0.050821256 0.025000000
## [19] 0.080000000 0.020352564 0.056250000 0.071428571 0.001794872 0.006666667
## [25] 0.006060606 0.057142857 0.133333333 0.003636364 0.026111111 0.075000000
## [31] 0.014736467 0.046568627 0.016666667 0.120833333 0.019666667 0.007142857
## [37] 0.012643678 0.015013034 0.007407407 0.052500000 0.012500000 0.014492754
## [43] 0.020000000 0.058333333 0.085714286 0.023809524 0.007894737 0.011764706
## [49] 0.015384615 0.025925926 0.080952381 0.031666667 0.008947368 0.026984127
## [55] 0.013510250 0.017647059 0.150000000 0.074074074 0.017918470 0.024000000
## [61] 0.035483871 0.005555556 0.012962963 0.027272727 0.111111111 0.034375000
## [67] 0.119523810 0.040740741 0.007547170 0.166666667 0.011111111 0.018518519
## [73] 0.046296296 0.018039216 0.011851852 0.009090909 0.030357143 0.028166667
## [79] 0.026315789 0.026666667 0.049930810 0.018840580 0.040606061 0.012463768
## [85] 0.011594203 0.063636364 0.014500000 0.019166667 0.008602151 0.014285714
## [91] 0.047002635 0.012764202 0.027248677 0.006339869 0.013509414 0.020708874
## [97] 0.016727891 0.096000000 0.057662338 0.010173465 0.005797101 0.061406250
## [103] 0.001666667 0.001724138 0.004000000 0.004166667 0.088888889 0.005263158
## [109] 0.043750000 0.037500000 0.049523810 0.042857143 0.013333333 0.120000000
## [115] 0.009150327 0.006578947 0.021052632 0.020666667 0.014666667 0.019230769
## [121] 0.044210526 0.014081633 0.010600255 0.032225685 0.036550087 0.031818182
## [127] 0.046470588 0.030833333 0.019354839 0.041025641 0.048148148 0.018052760
## [133] 0.015201207 0.022253906 0.025666667 0.010370370 0.033862434 0.018709677
## [139] 0.003329865 0.011666667 0.033846154 0.053571429 0.004545455 0.039583333
## [145] 0.026186255 0.044444444 0.038095238 0.024761905 0.007722385 0.022643039
## [151] 0.037476190 0.022424242 0.031907308 0.002272727 0.044761905 0.025555556
## [157] 0.016000000 0.028965517 0.110000000 0.014814815 0.008681765 0.009696970
## [163] 0.038373016 0.016410256 0.000175593 0.003571429 0.002222222 0.023611111
## [169] 0.009213675 0.017324561 0.019047619 0.011904762 0.005057471 0.125000000
## [175] 0.037333333 0.008000000 0.021367521 0.009876543 0.006250000 0.004371585
## [181] 0.003333333 0.028030303 0.047905093 0.053846154 0.009438427 0.030452675
## [187] 0.027742165 0.029431012 0.010588235 0.033504762 0.034933333 0.014000000
## [193] 0.020655014 0.061688312 0.035000000 0.019797366 0.029870130 0.051562500
## [199] 0.006501458 0.020644542 0.013342491 0.008695652 0.020449173 0.014259259
## [205] 0.016250000 0.008108108 0.010526316 0.001709402 0.019540230 0.017543860
## [211] 0.018918919 0.055555556 0.007285123 0.003846154 0.040444444 0.018181818
## [217] 0.002903226 0.037894737 0.046153846 0.037765568 0.019314286 0.053333333
## [223] 0.036507937 0.036000000 0.006451613 0.055000000 0.059846154 0.046666667
## [229] 0.039247312 0.116666667 0.035897436 0.021666667 0.008510638 0.019871795
## [235] 0.032380952 0.047105263 0.034848485 0.076923077 0.035714286 0.040476190
## [241] 0.090000000 0.070000000 0.014008551 0.017259740 0.010493827 0.038461538
## [247] 0.013793103 0.047348485 0.007425380 0.020602653 0.003174603 0.014705882
## [253] 0.013043478 0.036410256 0.058577534 0.021212121 0.072222222 0.014634146
## [259] 0.045833333 0.001190476 0.018965517 0.003703704 0.014035088 0.023983740
## [265] 0.039924242 0.017153855 0.072727273 0.054545455 0.016500000 0.003500000
## [271] 0.022500000 0.031250000 0.004308390 0.027174712 0.053273810 0.002380952
## [277] 0.007051282 0.023619048 0.041176471 0.030952381 0.020233586 0.035397453
## [283] 0.056666667 0.081818182 0.009683372 0.007618770 0.001137980 0.033262108
## [289] 0.010737154 0.014903846 0.009543860 0.002343750 0.015333333 0.018750000
## [295] 0.004444444 0.023529412 0.029687500 0.027586207 0.011616162 0.047619048
```

```

## [301] 0.031196581 0.032271242 0.008888889 0.026479076 0.043589744 0.015227273
## [307] 0.007012195 0.004812274 0.045416667 0.023703704 0.014141414 0.043075335
## [313] 0.029166667 0.010434783 0.012222222 0.030000000 0.080392157 0.010666667
## [319] 0.007923497 0.005951036 0.037222222 0.026757370 0.051923077 0.011774152
## [325] 0.025333333 0.002185792 0.018834175 0.010974434 0.023913043 0.020707071
## [331] 0.016289934 0.002976190 0.128571429 0.023666667 0.034285714 0.017493734
## [337] 0.021875000 0.021739130 0.007777778 0.009285714 0.007723577 0.019393939
## [343] 0.002666667 0.014766169 0.033252033 0.000956938 0.015625000 0.083333333
## [349] 0.017428305 0.023245614 0.018487395 0.036842105 0.026591844 0.021794872
## [355] 0.011578947 0.031372549 0.005345441 0.016433566 0.014545455 0.004916136
## [361] 0.039104938 0.030769231 0.016037881 0.020689655 0.003448276 0.016892552
## [367] 0.092307692 0.010142857 0.053125000 0.049411765 0.017396907 0.053030303
## [373] 0.006998399 0.005357143 0.021383648 0.005072464 0.034462810 0.022984749
## [379] 0.021250000 0.020833333 0.012765306 0.010810811 0.007207207 0.023076923
## [385] 0.005882353 0.036923077 0.010344828 0.051111111 0.015989583 0.027083333
## [391] 0.031029186 0.018226601 0.008771930 0.018866213 0.038222222 0.018233487
## [397] 0.005714286 0.020322581 0.023933659 0.002462121 0.015811966 0.004390244
## [403] 0.007309582 0.031531532 0.032653061 0.048484848 0.017954545 0.005055944
## [409] 0.005000000 0.012577640 0.032000000 0.014565217 0.065000000 0.009142857
## [415] 0.013663064 0.017307692 0.033208874 0.002721088 0.020661157 0.005217391
## [421] 0.027138047 0.062500000 0.042741935 0.003508772 0.041666667 0.015196078
## [427] 0.026388889 0.011458333 0.010971006 0.004761905 0.030125313 0.018519814
## [433] 0.060000000 0.027205882 0.011468360 0.014499164 0.012742857 0.031538462
## [439] 0.085185185 0.003917526 0.009259259 0.017802198 0.009552239 0.021538462
## [445] 0.010156250 0.026089744 0.026652893 0.003913043 0.020512821 0.048648649
## [451] 0.036666667 0.011147186 0.019990486 0.018141923 0.028151261 0.018154762
## [457] 0.043055556 0.001041667 0.000800000 0.009358814 0.055026455 0.024242424
## [463] 0.010416667 0.021839080 0.007891429 0.018300654 0.022972973 0.010997732
## [469] 0.016913580 0.025282904 0.014414414 0.033777778 0.020289855 0.095000000
## [475] 0.013104972 0.014583333 0.006127451 0.007111111 0.031944444 0.036957672
## [481] 0.048245614 0.007213115 0.044615385 0.047222222 0.020175439 0.020161290
## [487] 0.048235294 0.029761905 0.001587302 0.004395604 0.009135204 0.007792208
## [493] 0.052631579 0.021269841 0.022794118 0.032142857 0.006896552 0.007000000
## [499] 0.015873016 0.032222222 0.014802260 0.013061325 0.011428571 0.029285714
## [505] 0.023099415 0.095238095 0.012843137 0.005454545 0.035862069 0.007843137
## [511] 0.004651163 0.002083333 0.016544567 0.029795821 0.025378788 0.012261867
## [517] 0.011515152 0.018000000 0.122222222 0.019531250 0.068181818 0.002051282
## [523] 0.015416667 0.013461538 0.006878307 0.039753086 0.035416667 0.049509804
## [529] 0.026190476 0.039682540 0.013636364 0.005405405 0.044351348 0.011923715
## [535] 0.186666667 0.023889556 0.002293202 0.160000000 0.059722222 0.025438596
## [541] 0.012878788 0.015000000 0.061818182 0.096298701 0.005279668 0.024358974
## [547] 0.018817204 0.010215054 0.034959350 0.030266123 0.027575758 0.013782051
## [553] 0.014393939 0.025133361 0.008907697 0.006857143 0.011538462 0.009972955
## [559] 0.046984127 0.003801170 0.010673235 0.008492896 0.011041667 0.012612613
## [565] 0.003921569 0.030128205 0.035507246 0.014693878 0.114285714 0.009615385
## [571] 0.058571429 0.010513320 0.041140351 0.049312469 0.008928571 0.018148931
## [577] 0.014436090 0.045714286 0.022000000 0.003875969 0.042528736 0.028070175
## [583] 0.065333333 0.015942029 0.001242236 0.039007092 0.043333333 0.010160428
## [589] 0.006628788 0.012820513 0.020349845 0.076190476 0.007847222 0.015338753
## [595] 0.020967742 0.010714286 0.023333333 0.007709751 0.022304507 0.015153664
## [601] 0.010784314 0.021080839 0.011330049 0.142857143 0.067972350 0.013800705
## [607] 0.005319149 0.020450450 0.024843206 0.010912698 0.016428571 0.056282051
## [613] 0.031007752 0.002500000 0.015476190 0.005128205 0.035294118 0.045098039
## [619] 0.021969697 0.029629630 0.010256410 0.034615385 0.009090177 0.020139373

```

```

## [625] 0.003225806 0.015909091 0.029004329 0.006138614 0.012980564 0.032063492
## [631] 0.024545455 0.077777778 0.014311471 0.024266667 0.001058201 0.002493853
## [637] 0.008959900 0.059523810 0.024274100 0.015097222 0.045614035 0.055591398
## [643] 0.005090909 0.017422643 0.069565217 0.011753515 0.024074074 0.013513514
## [649] 0.014086022 0.001346801 0.027915633 0.008095238 0.017391304 0.031515152
## [655] 0.019931973 0.039110006 0.000586510 0.025541275 0.011019900 0.038738739
## [661] 0.044155844 0.003517665 0.004813218 0.032413793 0.046428571 0.002985075
## [667] 0.036363636 0.001960784 0.013000000 0.041975309 0.005333333 0.002469136
## [673] 0.019615385 0.031578947 0.020270270 0.030612245 0.001754386 0.031481481
## [679] 0.028282828 0.009195402 0.061538462 0.006779661 0.002631579 0.016248380
## [685] 0.017760943 0.026000000 0.093750000 0.008148148 0.023222222 0.017460317
## [691] 0.102564103 0.012916667 0.021186441 0.017877551 0.061111111 0.017066636
## [697] 0.006818182 0.010389610 0.026580162 0.015030864 0.034761905 0.017777778
## [703] 0.005853659 0.007575758 0.017724868 0.002777778 0.019210526 0.017241379
## [709] 0.061904762 0.007230392 0.010451977 0.041915584 0.019282953 0.030876623
## [715] 0.018666667 0.023502304 0.028000000 0.004594595 0.034403292 0.004013317
## [721] 0.043712341 0.027058824 0.009375000 0.027160494 0.026428571 0.021511104
## [727] 0.023423423 0.031111111 0.039251601 0.010365854 0.010905045 0.005158730
## [733] 0.065189145 0.047107438 0.054166667 0.012941176 0.012000000 0.007603276
## [739] 0.020767196 0.005367521 0.037464387 0.146666667 0.021974359 0.003461538
## [745] 0.041333333 0.037575758 0.009722222 0.026562500 0.005788982 0.001086957
## [751] 0.018030303 0.064444444 0.015277778 0.029142857 0.028205128 0.029047619
## [757] 0.021924603 0.060714286 0.012857143 0.023772222 0.022105263 0.010563841
## [763] 0.087500000 0.032456140 0.062745098 0.012121212 0.013440860 0.007986111
## [769] 0.011565934 0.017361111 0.037681159 0.021568627 0.022556391 0.018888889
## [775] 0.029684228 0.027777778 0.018485839 0.031501832 0.015614035 0.016447330
## [781] 0.015555556 0.091666667 0.089285714 0.006734694 0.012301587 0.024837398
## [787] 0.010251724 0.007551020 0.006589147 0.030662021 0.005970149 0.007239057
## [793] 0.012179487 0.027362361 0.013192815 0.001799477 0.015740741 0.112500000
## [799] 0.105000000 0.017977208 0.011505376 0.162500000 0.002159624 0.005636724
## [805] 0.016129032 0.073333333 0.028125000 0.020784314 0.001449275 0.015307716
## [811] 0.024719927 0.012319347 0.025641026 0.064705882 0.177777778 0.039305682
## [817] 0.002564103 0.021089500 0.023321256 0.033973374 0.042307692 0.030701754
## [823] 0.079487179 0.024390244 0.040415616 0.041810345 0.032432432 0.022549020
## [829] 0.073076923 0.017058824 0.019892473 0.025289256 0.123412698 0.004081633
## [835] 0.034101382 0.086507937 0.018571429 0.155555556 0.003076923 0.023000000
## [841] 0.046203704 0.004054054 0.028907563 0.013571429 0.056000000 0.009228841
## [847] 0.095098039 0.000826446 0.043499683 0.058730159 0.020440917 0.070833333
## [853] 0.015030530 0.020887890 0.088271605 0.023939394 0.014481293 0.020370370
## [859] 0.002439024 0.025900901 0.010418719 0.030151515 0.038438438 0.046439700
## [865] 0.028333333 0.003440860 0.017369338 0.021245421 0.036759259 0.017167920
## [871] 0.015711501 0.039015152 0.001481481 0.042424242 0.075208333 0.048333333
## [877] 0.009196581 0.018007866 0.023856765 0.014736842 0.006153846 0.016751935
## [883] 0.036927442 0.002941176 0.168750000 0.014219114 0.029027611 0.026472431
## [889] 0.030666667 0.014387171 0.173809524 0.066781609 0.035271318 0.014160401
## [895] 0.014873664 0.027450980 0.017829457 0.044827586 0.011240310 0.029444444
## [901] 0.075238095 0.007500000 0.027333333 0.015262515 0.059803922 0.025357143
## [907] 0.019090804 0.028759666 0.021428571 0.055331772 0.014367816 0.109090909
## [913] 0.025596405 0.026231884 0.048125000 0.022666667 0.012937063 0.010111111
## [919] 0.017195767 0.010476190 0.055119048 0.020634921 0.023404255 0.173333333
## [925] 0.024814815 0.054666667 0.020277778 0.020580808 0.023003663 0.003553372
## [931] 0.009652076 0.019583333 0.051960784 0.034671498 0.023447941 0.065517241
## [937] 0.058370370 0.036298293 0.006061121 0.019541890 0.011083789 0.050212934
## [943] 0.051219512 0.049122807 0.019189510 0.045000000 0.016111111 0.070588235

```

```

## [949] 0.035515873 0.038888889 0.025806452 0.002597403 0.011877551 0.022857143
## [955] 0.040211640 0.013305319 0.016494134 0.015248796 0.016993464 0.003389831
## [961] 0.002857143 0.024900794 0.021194084 0.021354167 0.008227848 0.040277778
## [967] 0.012821256 0.053431373 0.045217391 0.051818182 0.035648148 0.068571429
## [973] 0.059420290 0.016601512 0.017105263 0.056349206 0.043518519 0.014967916
## [979] 0.125641026 0.017192982 0.026893939 0.010776613 0.042965368 0.026923077
## [985] 0.051754386 0.056052632 0.024531190 0.157142857 0.006277056 0.021069182
## [991] 0.025933333 0.028214286 0.126666667 0.025789474 0.037593985 0.031060606
## [997] 0.043137255 0.021296296 0.044423559 0.027963219 0.023761905 0.012414872
## [1003] 0.106666667 0.079166667 0.011288515 0.002197802 0.017708333 0.032912458
## [1009] 0.040229885 0.025194363 0.019819820 0.014896228 0.034444444 0.074369748
## [1015] 0.047477294 0.048611111 0.012345679 0.021754386 0.041498896 0.022727273
## [1021] 0.013015873 0.051785714 0.020804598 0.003273810 0.019553530 0.032558140
## [1027] 0.007428571 0.010939177 0.040800000 0.037037037 0.045267490 0.012253894
## [1033] 0.008451124 0.041269841 0.036793698 0.050933333 0.019191919 0.029430894
## [1039] 0.018387097 0.030158730 0.045454545 0.082692308 0.009574468 0.017016807
## [1045] 0.032020784 0.015897436 0.015888889 0.008161036 0.024444444 0.092753623
## [1051] 0.175000000 0.028828829 0.078269231 0.028421053 0.026819923 0.020429089
## [1057] 0.017471264 0.072115385 0.016049383 0.038562092 0.093333333 0.064880952
## [1063] 0.025750000 0.069696970 0.024137931 0.073412698 0.008587569 0.043950617
## [1069] 0.052941176 0.016086957 0.035374150 0.093859649 0.007993197 0.018407960
## [1075] 0.059814815 0.020897436 0.144444444 0.029597244 0.072916667 0.039201413
## [1081] 0.031768707 0.058974359 0.026470588 0.018042396 0.033684211 0.039269841
## [1087] 0.041869919 0.030933333 0.056140351 0.007753623 0.004273504 0.017261905
## [1093] 0.016190476 0.016783217 0.043560606 0.052722840 0.129761905 0.040555556
## [1099] 0.046491228 0.017435897 0.051238095 0.025292398 0.021971597 0.018076564
## [1105] 0.011632486 0.016284567 0.001360544 0.010690797 0.078333333 0.016140351
## [1111] 0.029824561 0.081250000 0.047074074 0.011337868 0.036549708 0.022024757
## [1117] 0.042222222 0.029259259 0.010452962 0.012789661 0.019404762 0.023059361
## [1123] 0.040977778 0.033469388 0.036936937 0.004818713 0.138461538 0.033646617
## [1129] 0.007901699 0.073696145 0.001715686 0.026416667 0.016885965 0.019927536
## [1135] 0.018513906 0.006649462 0.043434343 0.072000000 0.005896806 0.013141026
## [1141] 0.058666667 0.084722222 0.007619048 0.100877193 0.041156463 0.034791667
## [1147] 0.014389234 0.038571429 0.102285714 0.037634409 0.010741385 0.067857143
## [1153] 0.014707510 0.002298851 0.063333333 0.033012821 0.051428571 0.063947520
## [1159] 0.025305250 0.016296296 0.011627907 0.071111111 0.057878788 0.013814416
## [1165] 0.014672365 0.013416263 0.011871220 0.040625000 0.016888889 0.010935374
## [1171] 0.027309942 0.119473684 0.084000000 0.015013618 0.003974359 0.014967419
## [1177] 0.047238095 0.021388889 0.023535354 0.019875776 0.049396552 0.004809853
## [1183] 0.005855856 0.042647059 0.002734559 0.012763533 0.035072464 0.072240260
## [1189] 0.015536723 0.006428571 0.017267081 0.001250000 0.030555556 0.011954023
## [1195] 0.019298246 0.039989226 0.055225225 0.087407407 0.011827957 0.006327684
## [1201] 0.032291667 0.102083333 0.021833333 0.059047619 0.033523810 0.040659551
## [1207] 0.022874780 0.019148936 0.026829268 0.013157895 0.013690476 0.027288961
## [1213] 0.037435897 0.188888889 0.007218823 0.015970880 0.013846154 0.032583774
## [1219] 0.046060606 0.029535519 0.033870968 0.036830357 0.040310120 0.070138889
## [1225] 0.052840909 0.003030303 0.017232253 0.002325581 0.029877803 0.011333333
## [1231] 0.016825397 0.051999065 0.075277778 0.008666667 0.028645833 0.013849519
## [1237] 0.001915584 0.018061840 0.004005848 0.048765432 0.054710145 0.019399025
## [1243] 0.026830934 0.015128205 0.015244789 0.105555556 0.019960276 0.001273148
## [1249] 0.015686275 0.029405769 0.015306122 0.027420635 0.000409836 0.044962458
## [1255] 0.006678351 0.001851852 0.016163522 0.010985222 0.020286738 0.005632184
## [1261] 0.021904762 0.017682257 0.027146119 0.006172840 0.010454545 0.029239766
## [1267] 0.062962963 0.070490196 0.014808078 0.017142857 0.044312169 0.017959184

```

```

## [1273] 0.019480519 0.026281080 0.017931489 0.017500000 0.034077383 0.011685393
## [1279] 0.071296296 0.021951220 0.114814815 0.008376076 0.011870845 0.053636364
## [1285] 0.102717391 0.007715618 0.013809524 0.016684020 0.020779221 0.025161290
## [1291] 0.041198413 0.009929078 0.066190476 0.092857143 0.044642857 0.027727273
## [1297] 0.015855776 0.009950860 0.051515152 0.064680923 0.037647059 0.012156298
## [1303] 0.011688312 0.030060764 0.009302326 0.017619048 0.059393939 0.007962529
## [1309] 0.009315376 0.059220779 0.005815392 0.019322034 0.039283154 0.012068881
## [1315] 0.003714286 0.009126984 0.022949495 0.018348148 0.050862069 0.073913043
## [1321] 0.037777778 0.039726776 0.022376543 0.016624762 0.026035354 0.034090909
## [1327] 0.027111111 0.051225490 0.013068182 0.039029125 0.052076023 0.006521739
## [1333] 0.020993117 0.007815830 0.013274933 0.086666667 0.011794872 0.007668207
## [1339] 0.013075397 0.019546851 0.047395833 0.022549176 0.054358974 0.030434783
## [1345] 0.044223485 0.030060022 0.068170426 0.009657738 0.011750000 0.029000000
## [1351] 0.008595388 0.050303030 0.041538462 0.007269504 0.038816034 0.068750000
## [1357] 0.100510511 0.068285714 0.019576720 0.051333333 0.035057471 0.015506059
## [1363] 0.011965812 0.019207792 0.065873016 0.025355418 0.005750251 0.058000000
## [1369] 0.055319149 0.025757576 0.016973138 0.003466667 0.019623016 0.035119048
## [1375] 0.004756098 0.020275689 0.009019608 0.028765432 0.028260870 0.007306262
## [1381] 0.014944594 0.030392157 0.072549020 0.004500000 0.045679012 0.003506944
## [1387] 0.022124542 0.023728814 0.091555556 0.020192308 0.108333333 0.071264368
## [1393] 0.007571185 0.069333333 0.090909091 0.008659512 0.084615385 0.034117647
## [1399] 0.052525253 0.035555556 0.065148810 0.029411765 0.025536616 0.037962963
## [1405] 0.046190476 0.006000000 0.051215278 0.027327327 0.020120574 0.001680672
## [1411] 0.047660099 0.148917749 0.092142857 0.019605911 0.027407407 0.031250162
## [1417] 0.022868217 0.026060606 0.001904762 0.024542230 0.044749710 0.018421053
## [1423] 0.067647059 0.029549127 0.013076923 0.068253968 0.007277211 0.036309524
## [1429] 0.002105263 0.058222222 0.121212121 0.013768116 0.080769231 0.003278689
## [1435] 0.011984127 0.051764706 0.009756098 0.016744186 0.024698413 0.014022989
## [1441] 0.029591837 0.009603919 0.031075269 0.070238095 0.025141243 0.007674572
## [1447] 0.011326165 0.066233766 0.043948052 0.033742690 0.045170068 0.029230769
## [1453] 0.046262626 0.023117504 0.015053763 0.107142857 0.018859649 0.057619048
## [1459] 0.121428571 0.021263103 0.036274510 0.038958835 0.019066142 0.007881773
## [1465] 0.012291667 0.005893497 0.068115942 0.109523810 0.010752688 0.011118588
## [1471] 0.042083333 0.026938057 0.180000000 0.020652174 0.017482517 0.004266667
## [1477] 0.013428813 0.013931624 0.030226481 0.038405797 0.038333333 0.011320755
## [1483] 0.022025900 0.059095640 0.015649351 0.005858586 0.154761905 0.001234568
## [1489] 0.025308642 0.045438596 0.022295918 0.001470588 0.039814815 0.041898148
## [1495] 0.022947455 0.045198413 0.028576998 0.005789474 0.183333333 0.030172414
## [1501] 0.019159146 0.076470588 0.034935897 0.018798094 0.025918367 0.005026455
## [1507] 0.031388889 0.008746356 0.063214286 0.016722783 0.039042146 0.025444444
## [1513] 0.030146368 0.041944444 0.030795428 0.069892473 0.046875000 0.033760684
## [1519] 0.024751180 0.006976744 0.011470588 0.016080586 0.012246300 0.019247312
## [1525] 0.078571429 0.007758621 0.029074729 0.026415094 0.006415344 0.015775776
## [1531] 0.018068783 0.021451247 0.016621682 0.029851908 0.015404896 0.097777778
## [1537] 0.035239899 0.009577934 0.039560440 0.006382979 0.052000000 0.024214286
## [1543] 0.007666667 0.040833333 0.020140056 0.074285714 0.008090118 0.018390805
## [1549] 0.123809524 0.001111111 0.011494253 0.045684431 0.021929825 0.069444444
## [1555] 0.021247740 0.044736842 0.009572650 0.020724638 0.010061728 0.008912530
## [1561] 0.013968254 0.036974790 0.087878788 0.021290850 0.008196721 0.052777778
## [1567] 0.050940171 0.017250000 0.014117647 0.022696032 0.039506173 0.019444444
## [1573] 0.032692308 0.086538462 0.032638889 0.034210526 0.034920635 0.034583333
## [1579] 0.025423729 0.017705157 0.012903226 0.042000000 0.013546798 0.033915963
## [1585] 0.001704261 0.008823529 0.011312741 0.020312500 0.010230908 0.035087719
## [1591] 0.063888889 0.090476190 0.022173913 0.014476190 0.010884354 0.022102102

```

```

## [1597] 0.034151181 0.007801418 0.040441176 0.008600444 0.014626073 0.025793651
## [1603] 0.006407828 0.050877193 0.033227513 0.085416667 0.038194444 0.031932773
## [1609] 0.007017544 0.054930556 0.029643028 0.060344828 0.019142857 0.002173913
## [1615] 0.023593750 0.005452381 0.068055556 0.012918871 0.043870968 0.015972222
## [1621] 0.020381594 0.018140590 0.192307692 0.023297491 0.019756839 0.015151515
## [1627] 0.034154351 0.019263449 0.028298931 0.020659075 0.003492063 0.013383838
## [1633] 0.030213239 0.044117647 0.019555556 0.034000000 0.024166667 0.018461538
## [1639] 0.014673582 0.024747475 0.023180828 0.014871795 0.010056926 0.016427739
## [1645] 0.016444444 0.034338624 0.032173913 0.010869841 0.026619133 0.008837606
## [1651] 0.020052948 0.012765957 0.023074581 0.012307692 0.013341952 0.043307169
## [1657] 0.064000000 0.030865335 0.026587302 0.032765957 0.038918919 0.016642012
## [1663] 0.045192308 0.004347826 0.115789474 0.051190476 0.011662763 0.009109731
## [1669] 0.021288981 0.045986395 0.010732401 0.024285714 0.079573935 0.013153595
## [1675] 0.032017551 0.007272727 0.032132434 0.028888889 0.074000000 0.018707483
## [1681] 0.022377452 0.015135135 0.015180847 0.007539683 0.023522862 0.018193939
## [1687] 0.023492063 0.002898551 0.097619048 0.121568627 0.028508772 0.016394300
## [1693] 0.030621469 0.022907353 0.038802798 0.001158605 0.019682540 0.003216374
## [1699] 0.038277778 0.018264209 0.023480903 0.077192982 0.080437158 0.020105820
## [1705] 0.001169591 0.027681159 0.017133956 0.030341880 0.042694343 0.078431373
## [1711] 0.034586466 0.005729167 0.015714286 0.051282051 0.023232323 0.030510511
## [1717] 0.012244898 0.018048780 0.039074074 0.009733401 0.024666667 0.018087558
## [1723] 0.017809524 0.069736842 0.043386243 0.042105263 0.067323481 0.045365079
## [1729] 0.021846847 0.035937500 0.051538462 0.026383333 0.018742138 0.028330849
## [1735] 0.026086957 0.008024691 0.024548440 0.017346939 0.038292564 0.017096460
## [1741] 0.033717640 0.020740741 0.035693651 0.006584897 0.083730159 0.013178295
## [1747] 0.077843137 0.008461558 0.010310363 0.016052227 0.019676875 0.026500000
## [1753] 0.078938839 0.028371212 0.028376068 0.017027417 0.004353234 0.046264368
## [1759] 0.007885305 0.071645022 0.008727273 0.031113658 0.008035714 0.021153846
## [1765] 0.022514620 0.024642375 0.005185185 0.011488014 0.031746032 0.033064516
## [1771] 0.001923077 0.025141026 0.023148148 0.012631579 0.028059163 0.029227053
## [1777] 0.022611111 0.042121212 0.014074074 0.039827675 0.021383053 0.011134752
## [1783] 0.014912281 0.039824561 0.171428571 0.043939394 0.022134495 0.017857143
## [1789] 0.020454545 0.021690178 0.111764706 0.011497494 0.001388889 0.024603175
## [1795] 0.003296703 0.036774359 0.047740113 0.010385835 0.001081081 0.010139398
## [1801] 0.033122363 0.038541667 0.021453423 0.112903226 0.106206897 0.010098420
## [1807] 0.029112554 0.011252929 0.013672300 0.014203612 0.023157895 0.019696970
## [1813] 0.028052083 0.101042228 0.023763441 0.027790788 0.013739852 0.014390244
## [1819] 0.036607143 0.031730769 0.003632479 0.024416667 0.021312784 0.022177156
## [1825] 0.048622222 0.025634921 0.042922078 0.039361702 0.004747475 0.001282051
## [1831] 0.034895833 0.030083333 0.026731602 0.029487179 0.019786325 0.017351598
## [1837] 0.067530864 0.015432099 0.094444444 0.011728395 0.060877193 0.027115142
## [1843] 0.032738095 0.019559500 0.037130178 0.005379499 0.023773007 0.008064516
## [1849] 0.008484848 0.046071429 0.020880682 0.052318841 0.010691824 0.106000000
## [1855] 0.012318841 0.020329446 0.010682540 0.049230769 0.024380952 0.015789474
## [1861] 0.011078431 0.097142857 0.013089192 0.095402299 0.029964539 0.025787879
## [1867] 0.050606061 0.008163265 0.090322581 0.047560976 0.014619883 0.034482887
## [1873] 0.037838384 0.010233918 0.038133333 0.044501535 0.016458333 0.042207792
## [1879] 0.006862745 0.088461538 0.048412698 0.001600000 0.040017253 0.025810811
## [1885] 0.059259259 0.028787879 0.055604396 0.032986111 0.035238095 0.030238095
## [1891] 0.006504065 0.040147783 0.017283951 0.029541047 0.022481685 0.015263169
## [1897] 0.096666667 0.020148148 0.009851670 0.013347763 0.010481956 0.014426543
## [1903] 0.031182796 0.059895833 0.025088095 0.055504202 0.000555556 0.027027027
## [1909] 0.007830405 0.015161650 0.024839744 0.041777778 0.015583850 0.009761905
## [1915] 0.052380952 0.023982684 0.048188406 0.041356389 0.020772947 0.013131313

```

##	[1921]	0.033988025	0.018055556	0.044927536	0.021000000	0.031679160	0.014267214
##	[1927]	0.011431235	0.055127258	0.002352941	0.005252101	0.019057903	0.000292398
##	[1933]	0.071018519	0.013793271	0.009743590	0.032461962	0.007668232	0.042941176
##	[1939]	0.039475088	0.064285714	0.021138211	0.024863655	0.019379845	0.023361582
##	[1945]	0.018777882	0.054460641	0.016287879	0.014102564	0.016231884	0.036149660
##	[1951]	0.092083333	0.025876068	0.090666667	0.023550725	0.015762787	0.041201814
##	[1957]	0.042323232	0.008735669	0.036678391	0.028272059	0.048194444	0.036472303
##	[1963]	0.009937888	0.047183099	0.006150794	0.087179487	0.003954802	0.025517241
##	[1969]	0.000263158	0.013478622	0.024019608	0.005813953	0.041369048	0.006349206
##	[1975]	0.036190476	0.021727273	0.014344857	0.015431438	0.008824665	0.054736842
##	[1981]	0.022368421	0.020182874	0.060606061	0.088333333	0.007317073	0.021992481
##	[1987]	0.051578947	0.007297297	0.036956522	0.006190476	0.048014184	0.015691057
##	[1993]	0.012783365	0.051268674	0.029500000	0.012698413	0.004255319	0.011562500
##	[1999]	0.021816239	0.015787285	0.010302067	0.014534161	0.021621622	0.041142857
##	[2005]	0.158333333	0.059661836	0.026417863	0.031764706	0.011038961	0.004065041
##	[2011]	0.022463768	0.011363636	0.001785714	0.016153274	0.014772727	0.034666667
##	[2017]	0.020506536	0.009591837	0.024884615	0.028461538	0.042023810	0.031811847
##	[2023]	0.032758621	0.042651515	0.047575758	0.042666667	0.001626016	0.005098039
##	[2029]	0.040350877	0.051929825	0.086363636	0.055882353	0.010945092	0.045562130
##	[2035]	0.057518519	0.020625000	0.009867424	0.016721311	0.033950617	0.049475963
##	[2041]	0.016930138	0.027164502	0.024867725	0.009827586	0.034482759	0.031513142
##	[2047]	0.031399948	0.048529412	0.024931582	0.043864469	0.004419192	0.028338002
##	[2053]	0.052154195	0.043815476	0.000833333	0.054000000	0.013726336	0.026274510
##	[2059]	0.001428571	0.048227559	0.048717949	0.021055381	0.014782609	0.012162162
##	[2065]	0.035500000	0.025396825	0.048000000	0.027572016	0.006321839	0.012361111
##	[2071]	0.025362319	0.131944444	0.016921296	0.011363949	0.054586466	0.009553204
##	[2077]	0.037793427	0.087037037	0.009848485	0.010909616	0.023288614	0.031725417
##	[2083]	0.036111111	0.020305773	0.116000000	0.021952663	0.007471264	0.028666667
##	[2089]	0.047901224	0.062580645	0.011534392	0.022807018	0.019565217	0.017803379
##	[2095]	0.020416667	0.006593407	0.032988166	0.031081081	0.007936508	0.000000000
##	[2101]	0.004385965	0.005932203	0.035488428	0.016161616	0.012248677	0.016605750
##	[2107]	0.038235294	0.033623455	0.043243243	0.059313725	0.037179487	0.034065934
##	[2113]	0.085396825	0.011555556	0.009471471	0.012314449	0.075814536	0.040370370
##	[2119]	0.003594771	0.004861111	0.002998087	0.019327731	0.009469697	0.030864198
##	[2125]	0.029349567	0.046464646	0.017561939	0.011659808	0.008309991	0.006785714
##	[2131]	0.034865900	0.002547045	0.014731380	0.016960486	0.010833333	0.027103099
##	[2137]	0.026098901	0.010539084	0.002106490	0.019375648	0.030138889	0.003864734
##	[2143]	0.023958333	0.101666667	0.013972431	0.013881932	0.023212197	0.039006410
##	[2149]	0.022732152	0.024292237	0.014444444	0.101587302	0.118750000	0.096296296
##	[2155]	0.064912281	0.020243418	0.008978355	0.043830926	0.014537746	0.010555556
##	[2161]	0.044507576	0.052857143	0.038209170	0.023684211	0.038169990	0.021551724
##	[2167]	0.068923933	0.030612404	0.015856149	0.029620035	0.061650605	0.046846847
##	[2173]	0.012576313	0.005022447	0.001408451	0.067624521	0.103703704	0.009183673
##	[2179]	0.062901280	0.057159570	0.018285714	0.036723457	0.000696864	0.016521739
##	[2185]	0.020921986	0.019886364	0.066158871	0.026754386	0.038809156	0.013617886
##	[2191]	0.020187793	0.009333333	0.018594104	0.029844961	0.028709742	0.009230769
##	[2197]	0.011752445	0.042322417	0.061364567	0.030123457	0.033142857	0.027179487
##	[2203]	0.011684359	0.037057104	0.043527508	0.023655914	0.009549550	0.090123457
##	[2209]	0.041398682	0.021707552	0.013366013	0.017574237	0.024107744	0.036855346
##	[2215]	0.004393939	0.036908939	0.014267677	0.038623482	0.016935484	0.021345899
##	[2221]	0.013028631	0.051162791	0.054759418	0.038709677	0.181818182	0.054839161
##	[2227]	0.002090109	0.011342593	0.025758194	0.020883534	0.029333333	0.127272727
##	[2233]	0.034273974	0.019638695	0.004244028	0.072395833	0.036904762	0.035247209
##	[2239]	0.019412202	0.026687598	0.073225108	0.024378882	0.013095238	0.024705882



```

## [2245] 0.005625881 0.020788530 0.056818182 0.007291667 0.010990991 0.027002924
## [2251] 0.004910714 0.032183908 0.045071685 0.029829932 0.042750000 0.007916667
## [2257] 0.024324324 0.006805318 0.011635537 0.025454545 0.019059741 0.058447712
## [2263] 0.027991453 0.043785311 0.159523810 0.003763441 0.012865853 0.025421300
## [2269] 0.039000000 0.140833333 0.051851852 0.006111111 0.012497612 0.003694084
## [2275] 0.082807018 0.042311111 0.029967788 0.049669967 0.027155449 0.009068627
## [2281] 0.056333333 0.010638298 0.028830409 0.048235852 0.023720930 0.000250438
## [2287] 0.071855922 0.009490509 0.131578947 0.015583028 0.028431373 0.007070707
## [2293] 0.010437463 0.016216216 0.020606061 0.019206774 0.022587818 0.012357724
## [2299] 0.017894737 0.009316323 0.022925170 0.027642276 0.034331797 0.067000000
## [2305] 0.031794872 0.034166667 0.018928571 0.104545455 0.072469136 0.025997611
## [2311] 0.094482759 0.010049751 0.026857143 0.016237507 0.015724311 0.031153846
## [2317] 0.090697674 0.010699588 0.027253521 0.020295983 0.022988506 0.011568387
## [2323] 0.011841507 0.041315789 0.018620690 0.017985395 0.021901262 0.067517007
## [2329] 0.018253968 0.016207530 0.004285714 0.017558450 0.082500000 0.009824561
## [2335] 0.038518519 0.008471594 0.021614907 0.084819820 0.076388889 0.038980418
## [2341] 0.008974359 0.037472815 0.066033333 0.051351351 0.023484848 0.013128205
## [2347] 0.055466667 0.035895135 0.045245820 0.009313725 0.014215686 0.028191489
## [2353] 0.012414294 0.040540541 0.009442743 0.032424242 0.022413793 0.024838095
## [2359] 0.002702703 0.016547619 0.026093190 0.013779093 0.022131145 0.057823129
## [2365] 0.033928571 0.009762498 0.049565217 0.022545455 0.068650794 0.063690476
## [2371] 0.016180556 0.042576205 0.012037037 0.010852713 0.014264550 0.033826531
## [2377] 0.131891892 0.022685185 0.011281179 0.026970540 0.024333333 0.000952381
## [2383] 0.011248517 0.038596491 0.019359924 0.026197917 0.036530714 0.049595687
## [2389] 0.012601626 0.006432173 0.024404762 0.011403509 0.039285714 0.035833333
## [2395] 0.031621722 0.044005026 0.009314954 0.072399527 0.007459475 0.029287373
## [2401] 0.047324629 0.027476190 0.018933333 0.025196078 0.027298851 0.011382114
## [2407] 0.044637681 0.033524993 0.145833333 0.062000000 0.005952381 0.019064327
## [2413] 0.009714286 0.053287037 0.016561375 0.039062500 0.004421769 0.021755245
## [2419] 0.064367816 0.017187500 0.011846847 0.009265038 0.054395604 0.020793651
## [2425] 0.013368848 0.034042553 0.011750149 0.012385965 0.021979167 0.103333333
## [2431] 0.012539087 0.018209889 0.014754098 0.009316239 0.019698317 0.016071429
## [2437] 0.003947368 0.050688705 0.049000000 0.004514952 0.005376344 0.142424242
## [2443] 0.027247449 0.016279070 0.068803030 0.007751938 0.019613005 0.009231412
## [2449] 0.108558559 0.050155633 0.029986961 0.006473478 0.027916667 0.035442177
## [2455] 0.054407935 0.056172840 0.091604938 0.018196857 0.018814290 0.038472222
## [2461] 0.035463270 0.009352180 0.034027778 0.046969697 0.010133221 0.015058480
## [2467] 0.013518007 0.084444444 0.041166667 0.015591398 0.043478261 0.017638889
## [2473] 0.039900794 0.002870370 0.056481481 0.015646259 0.014018978 0.013743735
## [2479] 0.003741497 0.017363636 0.030675226 0.045161290 0.007042254 0.021333333
## [2485] 0.025860732 0.013784185 0.013240553 0.018695652 0.024611656 0.006020558
## [2491] 0.035620915 0.020425941 0.010281148 0.018312757 0.001197045 0.003964551
## [2497] 0.032048254 0.043050847 0.010606061 0.092982456 0.008800253 0.034661180
## [2503] 0.024809390 0.015563298 0.008214286 0.020467836 0.040384615 0.057723577
## [2509] 0.023125000 0.036825949 0.024948268 0.007605389 0.037964727 0.078125000
## [2515] 0.049224806 0.069230769 0.067619048 0.016691039 0.041441441 0.048201119
## [2521] 0.011671335 0.017272727 0.056528671 0.060370370 0.023036223 0.019820920
## [2527] 0.090962963 0.028901336 0.008789401 0.004119850 0.018863427 0.006944444
## [2533] 0.005194805 0.046893939 0.020385840 0.034484127 0.029890710 0.079629630
## [2539] 0.002000000 0.065408200 0.037207792 0.072659574 0.014920635 0.033766459
## [2545] 0.005588342 0.014184397 0.021224490 0.002849003 0.027056277 0.086904762
## [2551] 0.009090249 0.013527508 0.007729114 0.048115942 0.009511278 0.009122010
## [2557] 0.014078014 0.067397661 0.011878788 0.013719827 0.039365079 0.011842105
## [2563] 0.041304348 0.026377261 0.043198653 0.037389344 0.001928521 0.020570175

```

```

## [2569] 0.017041847 0.048583043 0.016226074 0.128275862 0.045751634 0.034416667
## [2575] 0.042708333 0.007866316 0.012547206 0.036336088 0.022012579 0.036803966
## [2581] 0.037698413 0.022771363 0.010419753 0.075925926 0.012860238 0.031851593
## [2587] 0.030296143 0.021318681 0.022246642 0.086991870 0.028013468 0.028456454
## [2593] 0.011948854 0.007887882 0.064516129 0.057235450 0.129580026 0.005527012
## [2599] 0.092156863 0.003468013 0.037290510 0.037209302 0.036944444 0.019607843
## [2605] 0.009653998 0.032261103 0.009705882 0.017287582 0.029699248 0.042471564
## [2611] 0.018636364 0.047858483 0.009959744 0.058412698 0.031102504 0.039333333
## [2617] 0.018043478 0.050691712 0.084375000 0.019800052 0.008641975 0.016896552
## [2623] 0.003837261 0.011274510 0.012040588 0.001212121 0.003240964 0.018939394
## [2629] 0.020412311 0.023015892 0.043745174 0.002614379 0.008679315 0.025016422
## [2635] 0.021505376 0.017091837 0.011027644 0.029102564 0.012088889 0.059221273
## [2641] 0.030104167 0.038705882 0.016333333 0.025520833 0.014062500 0.032253521
## [2647] 0.023589744 0.029589443 0.078787879 0.022538246 0.003125000 0.022337803
## [2653] 0.015870587 0.005699436 0.018527590 0.037301587 0.002409670 0.023856289
## [2659] 0.025837468 0.032987654 0.037802052 0.018380231 0.015238095 0.008400000
## [2665] 0.004061303 0.032705748 0.022197723 0.027551020 0.032956586 0.006917563
## [2671] 0.025614035 0.071984127 0.047380485 0.007912088 0.052245370 0.083095238
## [2677] 0.007997558 0.025771658 0.030868963 0.022135467 0.063095238 0.090090090
## [2683] 0.030927052 0.035701754 0.017573302 0.018670927 0.012017544 0.017657266
## [2689] 0.054954955 0.018333333 0.062012012 0.020091324 0.046376812 0.016833856
## [2695] 0.013361447 0.030246914 0.028165804 0.037080939 0.016949586 0.081481481
## [2701] 0.000732601 0.012523310 0.037931034 0.009600000 0.022395833 0.025442703
## [2707] 0.018947368 0.030687831 0.004094211 0.019472789 0.041609195 0.046632997
## [2713] 0.013391698 0.010992908 0.039473684 0.028962492 0.035925926 0.030303030
## [2719] 0.080246914 0.061688596 0.024035088 0.018561297 0.026328773 0.036488095
## [2725] 0.023197087 0.013978495 0.059913420 0.050793651 0.022653941 0.024303938
## [2731] 0.119230769 0.026747720 0.031428571 0.065367965 0.018119658 0.007058824
## [2737] 0.006700972 0.052845528 0.024522672 0.011461095 0.014175592 0.069642857
## [2743] 0.013380282 0.080612245 0.008886586 0.059848485 0.017521368 0.020887446
## [2749] 0.002845528 0.029938272 0.011448413 0.006400000 0.017857460 0.012351425
## [2755] 0.094117647 0.016363636 0.027868852 0.041935484 0.092658730 0.031306306
## [2761] 0.008355899 0.030448718 0.036036036 0.103030303 0.039393939 0.022648084
## [2767] 0.056017316 0.061313776 0.022380952 0.008565782 0.019107143 0.013675214
## [2773] 0.033907028 0.014728682 0.039979296 0.003014129 0.012613585 0.002821869
## [2779] 0.039077841 0.018114342 0.036382031 0.048958333 0.015641026 0.051666667
## [2785] 0.011944444 0.037398374 0.007295031 0.015186147 0.060270563 0.051612903
## [2791] 0.049722222 0.053623188 0.016095238 0.027316655 0.019859307 0.009803922
## [2797] 0.066228070 0.001379310 0.041643072 0.034691241 0.009734513 0.028639403
## [2803] 0.038231522 0.067142857 0.025287479 0.025371224 0.037356322 0.027846816
## [2809] 0.037014927 0.001515152 0.007674419 0.006274510 0.011607143 0.024257028
## [2815] 0.011184211 0.005208333 0.000262123 0.023551165 0.017719298 0.052674897
## [2821] 0.020390720 0.079310345 0.010470085 0.028717949 0.024507322 0.028024691
## [2827] 0.022634921 0.055342466 0.028728531 0.024959839 0.032991453 0.014202682
## [2833] 0.005833333 0.027647059 0.019726027 0.030371661 0.001298701 0.022982896
## [2839] 0.006712329 0.030380952 0.004062500 0.015517241 0.041100372 0.030388889
## [2845] 0.074444444 0.029171530 0.020989011 0.026262626 0.069982363 0.039316239
## [2851] 0.009737828 0.017602339 0.022713675 0.180341880 0.023696145 0.029523810
## [2857] 0.047826279 0.028542569 0.079518398 0.039945665 0.024205607 0.028818890
## [2863] 0.010238095 0.032223645 0.059166667 0.014936612 0.091304348 0.011934156
## [2869] 0.007335491 0.004891304 0.029296378 0.039354839 0.070670996 0.017407407
## [2875] 0.048357964 0.054761905 0.013697479 0.015283019 0.029265480 0.005868545
## [2881] 0.002786596 0.008515815 0.027506986 0.030748538 0.011631206 0.023262411
## [2887] 0.023750000 0.002724518 0.019152047 0.020562771 0.008627451 0.060539216

```

```

## [2893] 0.029696970 0.023911007 0.032482778 0.014313725 0.035602227 0.047826087
## [2899] 0.060754717 0.045526366 0.008766234 0.065925926 0.057575758 0.030232558
## [2905] 0.024774775 0.007168210 0.031587556 0.081375661 0.084210526 0.035185185
## [2911] 0.008860759 0.033456790 0.012467279 0.052507716 0.044680851 0.037925926
## [2917] 0.057936508 0.015099715 0.066119363 0.029032258 0.009629630 0.039130435
## [2923] 0.025904762 0.001020408 0.010578704 0.055782313 0.020615520 0.079761905
## [2929] 0.004938272 0.009682540 0.031076389 0.025420875 0.008667383 0.042342342
## [2935] 0.016407828 0.028784722 0.041056911 0.055833333 0.020010830 0.009047619
## [2941] 0.064351852 0.013297101 0.004205128 0.008176477 0.011960784 0.012195122
## [2947] 0.080562169 0.004062416 0.010763889 0.004844961 0.016427015 0.038192738
## [2953] 0.041246499 0.013110506 0.012188596 0.032954545 0.017721519 0.027954545
## [2959] 0.028162393 0.052020202 0.028395062 0.012113703 0.005708347 0.060377860
## [2965] 0.004625745 0.010717178 0.022357724 0.046808511 0.003773585 0.027062016
## [2971] 0.025972222 0.022043153 0.034950263 0.014259607 0.066783217 0.007511050
## [2977] 0.046505418 0.016369048 0.011853002 0.017615176 0.068000000 0.019527027
## [2983] 0.043809524 0.023754789 0.002833333 0.006024096 0.004892966 0.062352941
## [2989] 0.035146520 0.021391443 0.069414101 0.014529915 0.027908497 0.007819795
## [2995] 0.002839575 0.005633803 0.087060755 0.047628205 0.052333333 0.038075929
## [3001] 0.029645043 0.125714286 0.025021645 0.016214742 0.020793071 0.011516854
## [3007] 0.004365079 0.059615385 0.006015038 0.017000000 0.005330144 0.003588517
## [3013] 0.018452381 0.021380952 0.013069803 0.050194250 0.009414895 0.030526316
## [3019] 0.062187040 0.032872807 0.143589744 0.042026749 0.076666667 0.036709957
## [3025] 0.026449275 0.015934735 0.015548371 0.111538462 0.029545455 0.070737742
## [3031] 0.026598639 0.035882353 0.005494505 0.017129630 0.054444444 0.013725490
## [3037] 0.009218133 0.017357610 0.016434109 0.026482993 0.062857143 0.013580247
## [3043] 0.035377102 0.040909091 0.023942797 0.031489963 0.000480769 0.010268970
## [3049] 0.004878049 0.019882747 0.057894737 0.052175571 0.032500000 0.014961420
## [3055] 0.043990930 0.028099523 0.030370370 0.041212121 0.035139573 0.042981030
## [3061] 0.013461742 0.050387597 0.003819310 0.005364455 0.020257937 0.024215686
## [3067] 0.028987132 0.010967742 0.027000000 0.022569444 0.015460019 0.122427035
## [3073] 0.019939881 0.010937500 0.031102029 0.073976608 0.007733333 0.034509804
## [3079] 0.017015392 0.051166667 0.033243423 0.015483092 0.039487179 0.031564383
## [3085] 0.013603668 0.018958333 0.047474747 0.070476190 0.022870370 0.013730159
## [3091] 0.045165945 0.014304381 0.015229885 0.043697479 0.093809524 0.010463332
## [3097] 0.023928571 0.012727273 0.035396825 0.000446429 0.016913178 0.018162523
## [3103] 0.018752216 0.015750591 0.009387755 0.009501385 0.032370528 0.022839506
## [3109] 0.011878229 0.008792271 0.027701340 0.012282691 0.038977353 0.054230769
## [3115] 0.023832104 0.011481481 0.031677489 0.019155126 0.015764630 0.017657920
## [3121] 0.013207547 0.130952381 0.017425336 0.051919272 0.093478261 0.011277952
## [3127] 0.025340136 0.008145970 0.021302211 0.014633794 0.015025253 0.023561816
## [3133] 0.020146520 0.017948718 0.043686869 0.014489415 0.011646771 0.064935065
## [3139] 0.027326203 0.018657031 0.048666667 0.138888889 0.020009620 0.046198341
## [3145] 0.005925926 0.009625560 0.024589744 0.018670099 0.021575342 0.039761905
## [3151] 0.008080808 0.036603499 0.012515263 0.033529412 0.007018826 0.022333333
## [3157] 0.021935484 0.054225865 0.035619048 0.016381120 0.036664764 0.018170426
## [3163] 0.019292929 0.018326694 0.000913242 0.014694280 0.008176101 0.035156250
## [3169] 0.042319508 0.018075125 0.040922619 0.010140622 0.054241071 0.015174871
## [3175] 0.037170572 0.068888889 0.016955684 0.017679325 0.031739553 0.009409219
## [3181] 0.008950617 0.031834215 0.022318841 0.025324675 0.004122807 0.013944826
## [3187] 0.028494624 0.026110286 0.010451453 0.020408163 0.012659622 0.028041380
## [3193] 0.015429820 0.015842941 0.027243522 0.014667832 0.023681592 0.021287825
## [3199] 0.051234568 0.032870370 0.010436508 0.017256944 0.033908935 0.019343434
## [3205] 0.009346937 0.028381703 0.012129630 0.004021164 0.013888889 0.010222222
## [3211] 0.008832272 0.012009804 0.025574713 0.020956372 0.029387755 0.000666667

```

```

## [3217] 0.062408964 0.009611111 0.010164456 0.014700375 0.016885589 0.023737786
## [3223] 0.012745098 0.044230769 0.045777778 0.023541667 0.029692564 0.037316087
## [3229] 0.014859438 0.004264323 0.020987654 0.003153153 0.026436782 0.029042386
## [3235] 0.013887559 0.026719577 0.000892857 0.023295455 0.022008376 0.089629630
## [3241] 0.013437840 0.014687275 0.022619048 0.031707317 0.014791667 0.031793785
## [3247] 0.008031496 0.003142857 0.028921569 0.026352357 0.022291010 0.013769082
## [3253] 0.015734957 0.021785714 0.015730379 0.017585825 0.009323308 0.009009009
## [3259] 0.048809524 0.007862680 0.019205066 0.028703704 0.043294931 0.008424908
## [3265] 0.137426901 0.008987603 0.013265306 0.021511083 0.028972694 0.030732714
## [3271] 0.018279570 0.013249672 0.021311846 0.012380952 0.022500170 0.022888335
## [3277] 0.015925926 0.005315315 0.016037736 0.025774660 0.042261905 0.013745704
## [3283] 0.027136752 0.044360501 0.024695767 0.053439153 0.015530303 0.038037998
## [3289] 0.030754266 0.055396825 0.011897444 0.010500000 0.014003044 0.015411986
## [3295] 0.016309524 0.017506361 0.023877069 0.039074960 0.010151043 0.013541667
## [3301] 0.020025438 0.011746032 0.042436975 0.015479685 0.030081301 0.026419753
## [3307] 0.022385989 0.050752688 0.020355466 0.041545910 0.018437701 0.063265306
## [3313] 0.003430424 0.015188129 0.004290709 0.022822804 0.011858974 0.042076023
## [3319] 0.021290740 0.019397993 0.010460069 0.018627451 0.042187500 0.032365500
## [3325] 0.013429932 0.024592960 0.060590278 0.007466851 0.009952433 0.041167134
## [3331] 0.014230973 0.041450216 0.027557013 0.008686559 0.013519938 0.016374269
## [3337] 0.021249277 0.020747988 0.028947368 0.027528909 0.019890110 0.083012821
## [3343] 0.027342550 0.005669849 0.012907801 0.016838538 0.025637791 0.010175439
## [3349] 0.026238576 0.057000000 0.011264368 0.013376623 0.015567766 0.042913165
## [3355] 0.014824296 0.024489796 0.022299824 0.019742908 0.015465400 0.019277493
## [3361] 0.034267293 0.018756793 0.027766386 0.017901235 0.058285714 0.039010989
## [3367] 0.019274564 0.028519936 0.007835821 0.071666667 0.022101449 0.028602151
## [3373] 0.037679739 0.054385965 0.020476218 0.027881156 0.011870748 0.027824074
## [3379] 0.026851852 0.043636364 0.020905923 0.020095694 0.008928355 0.027665354
## [3385] 0.047727273 0.032056738 0.003655914 0.016586922 0.022170543 0.027698413
## [3391] 0.063601190 0.019624670 0.019055556 0.024273772 0.077272727 0.101449275
## [3397] 0.008231293 0.075604396 0.014593571 0.032389468 0.011098010 0.005695387
## [3403] 0.059636655 0.000589971 0.019225201 0.009677419 0.029012346 0.031034483
## [3409] 0.058821329 0.022355057 0.017328726 0.032948718 0.025768619 0.008914729
## [3415] 0.005545073 0.008750000 0.012050716 0.017284446 0.020085470 0.016769542
## [3421] 0.025572609 0.010138889 0.019428571 0.020433155 0.014251208 0.053240741
## [3427] 0.015757576 0.011780384 0.023340336 0.017081105 0.024224806 0.014926307
## [3433] 0.015609868 0.022135148 0.025532176 0.001015625 0.012431818 0.029142563
## [3439] 0.031333333 0.022580645 0.046744236 0.057407407 0.022916667 0.014473684
## [3445] 0.040540739 0.009549977 0.013640873 0.066547107 0.011868860 0.030161290
## [3451] 0.025068027 0.028996212 0.032298600 0.021959459 0.024587384 0.034751773
## [3457] 0.020960781 0.014851055 0.030925926 0.014779942 0.022527689 0.023582766
## [3463] 0.030961792 0.020533333 0.051717172 0.024807692 0.009552573 0.014513583
## [3469] 0.014292461 0.016400421 0.014539683 0.023295607 0.007971014 0.015832106
## [3475] 0.031939605 0.043148148 0.024345679 0.024725635 0.075757576 0.032699169
## [3481] 0.014905149 0.013842593 0.024304152 0.016803503 0.028750000 0.012458392
## [3487] 0.004287290 0.019112158 0.012520167 0.014603175 0.000709220 0.026801619
## [3493] 0.015842912 0.013874153 0.024897119 0.018539498 0.010664683 0.026495726
## [3499] 0.024964539 0.013002525 0.024020297 0.029260777 0.012575758 0.032443035
## [3505] 0.020769697 0.124444444 0.027944444 0.016529882 0.053431066 0.020522711
## [3511] 0.037666667 0.011832634 0.021393867 0.019667423 0.069954545 0.003486395
## [3517] 0.052222222 0.019685462 0.009969093 0.043174603 0.090625000 0.033747213
## [3523] 0.010851064 0.020072361 0.019056732 0.027526998 0.025864237 0.020290360
## [3529] 0.020991254 0.039520717 0.025668172 0.023992674 0.061403509 0.015642808
## [3535] 0.028773585 0.013559322 0.010341365 0.012754534 0.052592593 0.022751323

```

```

## [3541] 0.014212018 0.010671296 0.046360153 0.015231111 0.041319444 0.006273946
## [3547] 0.025219763 0.018203638 0.012152531 0.039301175 0.025492063 0.024691358
## [3553] 0.062414966 0.019108884 0.018017058 0.018145897 0.016508400 0.009804129
## [3559] 0.026200717 0.017488397 0.007450980 0.050362319 0.017352092 0.050333333
## [3565] 0.013821138 0.018954248 0.057777778 0.015104167 0.017155355 0.009000000
## [3571] 0.021326007 0.026514442 0.032369194 0.007901235 0.028971160 0.005348989
## [3577] 0.035131628 0.016468484 0.015792367 0.015853659 0.023577236 0.012045455
## [3583] 0.013923077 0.015172414 0.030191572 0.021944444 0.014774057 0.044913928
## [3589] 0.038885400 0.018569755 0.015666667 0.030322581 0.048750000 0.045421245
## [3595] 0.050980392 0.007154088 0.008286252 0.011574074 0.030501264 0.032985131
## [3601] 0.017556729 0.042311136 0.007812500 0.021947073 0.018034188 0.022635468
## [3607] 0.034702381 0.015957265 0.013244048 0.015558960 0.034693878 0.024532828
## [3613] 0.006093190 0.019723130 0.021469506 0.006528045 0.014405743 0.027755102
## [3619] 0.023755148 0.037163121 0.029169274 0.013853727 0.041868132 0.021710569
## [3625] 0.005114363 0.022150056 0.038000000 0.025042424 0.010360360 0.025130309
## [3631] 0.031314735 0.004487179 0.035630252 0.015020196 0.021452975 0.019687687
## [3637] 0.035454545 0.040131579 0.024032278 0.048604651 0.021374201 0.019068861
## [3643] 0.018995891 0.030822511 0.057482993 0.008213489 0.009780702 0.026063126
## [3649] 0.018457454 0.023642242 0.009501916 0.010793651 0.011061947 0.009071038
## [3655] 0.011987179 0.030909091 0.020544218 0.018198198 0.005590278 0.009838710
## [3661] 0.056586058 0.024031008 0.010303030 0.028972728 0.023714286 0.043171115
## [3667] 0.027843137 0.015504136 0.041741742 0.023369348 0.008874272 0.027500000
## [3673] 0.025448823 0.016576479 0.028190306 0.019004516 0.010258137 0.017261259
## [3679] 0.016345046 0.012477354 0.008689192 0.034935835 0.019031516 0.025762987
## [3685] 0.019913420 0.045272727 0.039236111 0.031296296 0.039161584 0.018456829
## [3691] 0.032193939 0.024793388 0.023937057 0.027190827 0.039562226 0.022009804
## [3697] 0.015595238 0.013140097 0.025219349 0.020421866 0.019613095 0.018367347
## [3703] 0.007694004 0.014962157 0.004785636 0.041065574 0.018923933 0.005989942
## [3709] 0.034188034 0.019021966 0.029422330 0.009539422 0.015531015 0.015719446
## [3715] 0.018737892 0.009409888 0.024773663 0.022435897 0.029507982 0.019816374
## [3721] 0.013891039 0.012371615 0.022060248 0.027077656 0.030211039 0.033872603
## [3727] 0.013265367 0.007246377 0.017333333 0.023137121 0.104081633 0.071568627
## [3733] 0.024226190 0.022705971 0.029719534 0.026888889 0.024597953 0.026739194
## [3739] 0.023842532 0.011290323 0.029981326 0.014052288 0.044367816 0.013512907
## [3745] 0.002515723 0.022238793 0.017004257 0.007150715 0.014880952 0.019075614
## [3751] 0.017354497 0.084545455 0.031709957 0.013963964 0.020876741 0.012179841
## [3757] 0.017267562 0.019337607 0.034600000 0.005142857 0.026808161 0.019865374
## [3763] 0.053909774 0.012186396 0.027372411 0.019939049 0.027830688 0.003477932
## [3769] 0.022427035 0.019809524 0.020699598 0.009450172 0.028731343 0.029065112
## [3775] 0.014562569 0.003457557 0.025063352 0.011282051 0.008337205 0.028674678
## [3781] 0.029188713 0.037267081 0.008391881 0.017541022 0.033880952 0.020441870
## [3787] 0.018600000 0.022567288 0.005854801 0.008854167 0.038335618 0.030243902
## [3793] 0.074716553 0.028836460 0.044000000 0.059464286 0.021765601 0.036047340
## [3799] 0.011250000 0.051041667 0.038231293 0.017747748 0.019645460 0.004306345
## [3805] 0.019128308 0.010840336 0.016570513 0.018783069 0.010942460 0.021993464
## [3811] 0.025011905 0.038418079 0.028665325 0.021408935 0.000505051 0.021183788
## [3817] 0.010971792 0.013668745 0.027207207 0.018611111 0.019558305 0.022398206
## [3823] 0.020586081 0.015486639 0.023671498 0.059444444 0.022973065 0.013436693
## [3829] 0.031446886 0.015889736 0.020121639 0.015217391 0.023185941 0.029600000
## [3835] 0.030879354 0.024301656 0.014745252 0.092944664 0.021599020 0.014544651
## [3841] 0.067708333 0.021205728 0.014375562 0.003685897 0.015117319 0.020720721
## [3847] 0.011320346 0.019375000 0.016184197 0.062202381 0.022464739 0.023170732
## [3853] 0.023835616 0.031609195 0.006942149 0.014226044 0.011675429 0.030107527
## [3859] 0.007905605 0.030390424 0.033986814 0.032793149 0.026402848 0.005025126

```

```

## [3865] 0.021959184 0.013611111 0.016223404 0.008975428 0.014761905 0.015675676
## [3871] 0.016051967 0.011818182 0.039292517 0.015829187 0.029549858 0.032608696
## [3877] 0.031188811 0.017816092 0.021516165 0.010045837 0.028496768 0.038102106
## [3883] 0.011186186 0.032248996 0.025777778 0.015490196 0.018932412 0.034387947
## [3889] 0.009166667 0.061527778 0.016324111 0.092222222 0.021052657 0.011071429
## [3895] 0.028949580 0.010977778 0.007188359 0.019250380 0.011436389 0.003452381
## [3901] 0.025137085 0.023315309 0.005474910 0.017735849 0.017287492 0.020731707
## [3907] 0.012864250 0.010317460 0.016290123 0.027601411 0.016823320 0.023453364
## [3913] 0.037334126 0.038460744 0.027280668 0.012150434 0.026412307 0.024543027
## [3919] 0.023646000 0.033787661 0.008571429 0.098039216 0.027020202 0.019008442
## [3925] 0.017491169 0.006439185 0.024738632 0.023796204 0.025405405 0.015547416
## [3931] 0.039707071 0.053401361 0.024025157 0.019669670 0.018259847 0.017589264
## [3937] 0.019777778 0.011897547 0.037373737 0.032323232 0.044166667 0.009057596
## [3943] 0.017597513 0.001333333 0.025044663 0.018518854 0.020537634 0.029749907
## [3949] 0.014969192 0.028229665 0.022010916 0.036429937 0.022431060 0.030709877
## [3955] 0.010521398 0.062318841 0.023901833 0.017599068 0.021101928 0.005222734
## [3961] 0.039259259 0.011093074 0.033015873 0.015735853 0.005434783 0.017955889
## [3967] 0.020244755 0.028846154 0.014030074 0.011738458 0.009213483 0.026155811
## [3973] 0.022769886 0.014864865 0.043915344 0.034126984 0.104242424 0.023128655
## [3979] 0.019658120 0.012798697 0.062121212 0.021627971 0.009815547 0.011279570
## [3985] 0.034024526 0.010072239 0.027424242 0.014196078 0.024720163 0.033875153
## [3991] 0.010822511 0.007769424 0.020907736 0.023639456 0.017330846 0.025151515
## [3997] 0.036124031 0.027941176 0.020522573 0.053714286 0.034567901 0.014604028
## [4003] 0.032553517 0.007300316 0.029457364 0.018855633 0.047500000 0.016297591
## [4009] 0.004387373 0.075942002 0.020266667 0.022108499 0.043301833 0.007267442
## [4015] 0.029663609 0.064259259 0.009289617 0.029203072 0.047301587 0.015636704
## [4021] 0.023309001 0.016222222 0.022957516 0.014867424 0.007280349 0.056025641
## [4027] 0.010359477 0.023198706 0.029308735 0.053523810 0.012068966 0.003621070
## [4033] 0.036486486 0.023152976 0.005582418 0.014283416 0.005971036 0.012426564
## [4039] 0.003359173 0.019984285 0.014700317 0.013407291 0.027380952 0.005668016
## [4045] 0.044938272 0.011475964 0.039663918 0.021222361 0.051388889 0.014709835
## [4051] 0.006941639 0.023480257 0.003266621 0.017634750 0.033933258 0.015796946
## [4057] 0.013932981 0.031399417 0.017587302 0.021527778 0.025466200 0.031449275
## [4063] 0.057283951 0.004610177 0.015447154 0.007434641 0.014166667 0.031313131
## [4069] 0.044688645 0.036790123 0.013750000 0.016482015 0.020786749 0.014951401
## [4075] 0.012080406 0.013535432 0.021418440 0.020093774 0.039743590 0.025287356
## [4081] 0.015357143 0.020476926 0.045269841 0.020321470 0.004093567 0.017527555
## [4087] 0.045138889 0.018376068 0.017137357 0.005809793 0.019765654 0.055166667
## [4093] 0.005069124 0.027807876 0.026481990 0.018943089 0.021957672 0.082209406
## [4099] 0.026839827 0.025128205 0.017592593 0.018589744 0.020836197 0.009348691
## [4105] 0.000544218 0.019791667 0.031871345 0.023188406 0.007456140 0.019907407
## [4111] 0.008038828 0.019203175 0.012719298 0.020208333 0.018958927 0.005951258
## [4117] 0.075555556 0.020551802 0.020593939 0.008928986 0.032959184 0.012030075
## [4123] 0.012804878 0.020551320 0.018717242 0.005654762 0.028446662 0.014848485
## [4129] 0.026239965 0.015591693 0.027027580 0.022687466 0.016429608 0.018115942
## [4135] 0.013380361 0.017025608 0.008801049 0.011196593 0.046566820 0.019568765
## [4141] 0.012604407 0.008852259 0.015450311 0.035661897 0.037364341 0.037615417
## [4147] 0.017800000 0.023436807 0.046907359 0.026290598 0.033796296 0.006781609
## [4153] 0.009811828 0.019045831 0.062113617 0.028251029 0.017631698 0.027927974
## [4159] 0.014853801 0.012907268 0.015733333 0.009297190 0.026547619 0.062641723
## [4165] 0.022487296 0.008671329 0.006730769 0.061728395 0.015876540 0.029314358
## [4171] 0.021603376 0.030930013 0.016060606 0.017992979 0.047058824 0.015178571
## [4177] 0.030129179 0.019314057 0.060256410 0.012934783 0.027956989 0.033799534
## [4183] 0.015042735 0.026492375 0.033805229 0.039115224 0.022220854 0.034983766

```

```

## [4189] 0.012952381 0.028275862 0.032839506 0.038636364 0.002040816 0.026820988
## [4195] 0.014043584 0.017794258 0.022685492 0.006410256 0.013960708 0.036566293
## [4201] 0.039004329 0.047679739 0.019758242 0.010333333 0.014942529 0.018010753
## [4207] 0.015259259 0.030433925 0.020148947 0.035488294 0.045238095 0.013071895
## [4213] 0.007151775 0.027094017 0.012349829 0.032319508 0.012004543 0.016398799
## [4219] 0.010759765 0.027110844 0.007222222 0.046598240 0.027875244 0.076086957
## [4225] 0.044557823 0.023840580 0.012841597 0.025012117 0.017207792 0.022913324
## [4231] 0.008531746 0.026918020 0.017745098 0.005172414 0.015495489 0.044111040
## [4237] 0.035172414 0.017288630 0.012517824 0.012581699 0.022261905 0.143750000
## [4243] 0.012573099 0.021632395 0.029681426 0.017222222 0.043661654 0.016953816
## [4249] 0.012346041 0.011346726 0.012466437 0.019256933 0.031510604 0.007748918
## [4255] 0.021347061 0.013301282 0.048447205 0.018891527 0.022668819 0.018080480
## [4261] 0.032620545 0.011568627 0.009111111 0.015396825 0.024509804 0.014655172
## [4267] 0.016656739 0.057999382 0.017160494 0.025778523 0.054621849 0.007310889
## [4273] 0.019339623 0.121153846 0.008921569 0.014462070 0.009113578 0.015696203
## [4279] 0.011546722 0.043292683 0.014048347 0.031904762 0.041993382 0.018915344
## [4285] 0.040158730 0.007264957 0.072413793 0.017881096 0.024768116 0.012006861
## [4291] 0.032525253 0.023797619 0.080555556 0.088000000 0.024027460 0.019893450
## [4297] 0.013161376 0.007608395 0.017117117 0.019627539 0.023632241 0.034479167
## [4303] 0.046212121 0.012333333 0.032246377 0.014375000 0.019252583 0.012303523
## [4309] 0.032251082 0.015833333 0.028415080 0.012980504 0.018775510 0.061460507
## [4315] 0.025098039 0.032679739 0.006201550 0.036530612 0.037543860 0.010052910
## [4321] 0.050833333 0.015621340 0.004609929 0.032476190 0.005574489 0.010029112
## [4327] 0.006257147 0.014960902 0.007207729 0.015317559 0.022317022 0.005857488
## [4333] 0.003750000 0.018762198 0.023015873 0.044786325 0.012280702 0.013146819
## [4339] 0.011611098 0.025398570 0.020193811 0.009883721 0.010982424 0.012062937
## [4345] 0.036129032 0.017778905 0.014488017 0.010557237 0.005747126 0.025030224
## [4351] 0.030601093 0.024627040 0.020569813 0.025653595 0.010709751 0.010020661
## [4357] 0.038778999 0.077142857 0.023041703 0.014283502 0.013529215 0.016533333
## [4363] 0.012201868 0.014835979 0.034560698 0.024656643 0.013700977 0.020798504
## [4369] 0.029871795 0.005446194 0.027150538 0.017458333 0.014506173 0.018506494
## [4375] 0.012081072 0.027788462 0.020729167 0.015734266 0.041481481 0.014582448
## [4381] 0.056410256 0.013806160 0.009829060 0.017278044 0.033386243 0.033093378
## [4387] 0.006829256 0.005865824 0.024712644 0.017355372 0.010037879 0.011373326
## [4393] 0.021468927 0.025714286 0.033499444 0.041369348 0.042469796 0.029885057
## [4399] 0.010431717 0.042500000 0.019935588 0.028256171 0.032352941 0.016470588
## [4405] 0.023393841 0.020522088 0.031897436 0.010885984 0.037885297 0.010446429
## [4411] 0.035656214 0.008391608 0.024055759 0.018299320 0.028851852 0.030295699
## [4417] 0.010650662 0.007242234 0.024451608 0.026444444 0.006561181 0.031505682
## [4423] 0.009514500 0.007864356 0.012557561 0.010086083 0.005428571 0.020238095
## [4429] 0.022692308 0.017801418 0.021532091 0.085119048 0.020434783 0.037797619
## [4435] 0.011965890 0.015721509 0.007407748 0.039024390 0.025120773 0.019099099
## [4441] 0.031868132 0.028231293 0.021130090 0.023180221 0.028235129 0.012547833
## [4447] 0.029876364 0.012826797 0.043951451 0.019811321 0.016269841 0.025223356
## [4453] 0.014682540 0.012947658 0.015875182 0.011957672 0.014462810 0.011347518
## [4459] 0.010684624 0.017294686 0.009519461 0.019401736 0.026312057 0.028563870
## [4465] 0.038556068 0.031138344 0.020954545 0.014381271 0.018144023 0.012825542
## [4471] 0.003070175 0.030496867 0.022660099 0.007301587 0.068333333 0.023321123
## [4477] 0.005429293 0.064782609 0.055357143 0.014555556 0.017088608 0.019805195
## [4483] 0.009314826 0.010782459 0.022322606 0.016205882 0.044796184 0.004746377
## [4489] 0.022967480 0.017194337 0.025721669 0.016326531 0.021844997 0.015526696
## [4495] 0.015920398 0.018472224 0.056986532 0.012071651 0.022523524 0.015735624
## [4501] 0.007566642 0.010077519 0.015280206 0.012109705 0.016387521 0.026077098
## [4507] 0.020948132 0.020461310 0.017862319 0.036090226 0.021883469 0.022140924

```

```

## [4513] 0.004699538 0.017826087 0.018970588 0.017118644 0.029365079 0.029566569
## [4519] 0.018998410 0.019584736 0.023298140 0.060444444 0.018561894 0.029949875
## [4525] 0.013579188 0.010805067 0.032152607 0.004071111 0.017905405 0.018018018
## [4531] 0.017238095 0.019984651 0.013388945 0.019722222 0.030932814 0.004807692
## [4537] 0.016621622 0.038988095 0.008521303 0.041884498 0.029834711 0.034343434
## [4543] 0.005813008 0.025598706 0.051322751 0.040273973 0.021731397 0.018083333
## [4549] 0.013183349 0.027235772 0.021415475 0.025902778 0.033230985 0.009586466
## [4555] 0.021604938 0.017126354 0.029697173 0.022023810 0.024637681 0.023193277
## [4561] 0.019212627 0.031884058 0.011302211 0.018292063 0.018243793 0.014819782
## [4567] 0.011552302 0.021193830 0.034523810 0.014063940 0.033978772 0.039627660
## [4573] 0.029874687 0.040859466 0.006078431 0.029992691 0.019117647 0.027434310
## [4579] 0.034684685 0.025760906 0.027155172 0.025185185 0.014133333 0.013947368
## [4585] 0.027350427 0.004876543 0.018883894 0.011613896 0.008754209 0.013233522
## [4591] 0.015986395 0.021772308 0.031964286 0.024119048 0.017685455 0.006376263
## [4597] 0.013631606 0.024392801 0.016137507 0.027509158 0.024479167 0.029320988
## [4603] 0.019834499 0.021111111 0.017577031 0.020211611 0.016081238 0.026300970
## [4609] 0.019707705 0.026406456 0.019815044 0.010097087 0.028841026 0.010929463
## [4615] 0.029612768 0.008289956 0.000468384 0.096969697 0.020714286 0.026011023
## [4621] 0.016381748 0.018229167 0.085000000 0.012909664 0.015673400 0.022530582
## [4627] 0.018278388 0.012782022 0.016468927 0.022650186 0.024237631 0.018585538
## [4633] 0.015126050 0.014604116 0.007333333 0.017189707 0.040162037 0.022195122
## [4639] 0.011603935 0.040317460 0.028754539 0.014678030 0.018655904 0.028505395
## [4645] 0.010879630 0.028149920 0.022411525 0.019205169 0.013205032 0.013315530
## [4651] 0.012143626 0.017112135 0.008493590 0.050425170 0.019961874 0.016625310
## [4657] 0.005239899 0.016000807 0.014262023 0.010675991 0.032359307 0.002693603
## [4663] 0.029863649 0.022542075 0.035585586 0.011200631 0.021240391 0.034545686
## [4669] 0.030625000 0.047163947 0.034500000 0.032135417 0.003247863 0.046851852
## [4675] 0.008611111 0.024502924 0.008870523 0.011265083 0.027210884 0.021987823
## [4681] 0.039047619 0.038800000 0.026320008 0.007479289 0.017659574 0.015536555
## [4687] 0.034058957 0.025172414 0.014910394 0.023267327 0.021838687 0.030325203
## [4693] 0.016360941 0.020858475 0.023038462 0.016073781 0.031570985 0.023352993
## [4699] 0.023900203 0.012987013 0.011495239 0.027936058 0.015182880 0.025181135
## [4705] 0.018478261 0.023216783 0.026494505 0.024478493 0.058823529 0.011156463
## [4711] 0.029914530 0.033991575 0.027790836 0.014200442 0.030193184 0.042666157
## [4717] 0.006910299 0.069393939 0.025284123 0.028928571 0.024062504 0.009848144
## [4723] 0.014327278 0.027595628 0.023129252 0.011252834 0.029660100 0.038483516
## [4729] 0.018561873 0.025119048 0.021157516 0.017420532 0.012593985 0.022050322
## [4735] 0.023870968 0.025515152 0.018160173 0.016551980 0.027514124 0.015489592
## [4741] 0.008744589 0.020579710 0.014721408 0.067222222 0.016980377 0.042859175
## [4747] 0.035614035 0.104761905 0.012822843 0.034701976 0.057391304 0.017230274
## [4753] 0.018035252 0.013675718 0.024023709 0.037347156 0.017573541 0.012225275
## [4759] 0.011420635 0.013492063 0.022099252 0.032192982 0.020139353 0.002259887
## [4765] 0.013132473 0.023166023 0.034074074 0.009275362 0.009431773 0.027555556
## [4771] 0.049275362 0.009064449 0.020664031 0.021904109 0.012761333 0.013953488
## [4777] 0.029030612

```

```
unique(customer.df$PageValues)
```

```

##      [1]      0.00000000  54.17976426  19.44707913  38.30849268  22.91603570
##      [6]     11.43941195  17.53595893   8.00074074   1.70601497  46.53017511
##     [11]    19.34265017 109.17600000  96.25511582 153.44324780  33.79956701
##     [16]    35.09280000  17.76266667   7.14626089  22.03276923   4.36851556
##     [21]     8.77247312  51.46331148  38.99000000  53.98920000   6.83179239
##     [26]    44.67925000  59.79014286   7.10302083  19.66818546   9.22700097

```



##	[31]	34.43601877	12.01656549	16.14384000	2.81081247	27.26888014
##	[36]	11.92009615	78.93483561	15.88906362	11.99554040	18.36804916
##	[41]	17.52765600	61.93950000	8.68274193	9.70211328	7.25621913
##	[46]	10.10222222	25.96702005	9.16235124	1.86577778	33.61179170
##	[51]	7.16961749	22.80152439	3.54114583	9.29477564	6.87130898
##	[56]	35.99261538	53.13428571	8.83382593	10.60089168	5.51397619
##	[61]	27.45138186	17.84230699	16.71534488	2.18871852	57.72936040
##	[66]	2.08053355	45.43167130	10.79295070	8.48272727	18.58476190
##	[71]	3.07783607	6.48279827	69.43043195	6.44505150	20.97144000
##	[76]	19.71468924	4.64200000	4.49474123	4.66707927	7.88237726
##	[81]	2.34680043	3.60939851	52.10818182	32.64521053	31.30943640
##	[86]	43.36163690	2.52661686	2.08621849	8.60004310	9.15008000
##	[91]	15.66445171	7.89117101	1.08815823	44.61199852	54.85543000
##	[96]	13.00183962	23.86359286	29.45815149	3.14861538	3.69134483
##	[101]	15.32910159	11.10765050	8.49793548	25.18800000	75.06781572
##	[106]	8.70832432	21.22386735	17.53800000	9.93018701	8.22416854
##	[111]	31.18800000	43.79717364	63.58800000	3.31108000	3.29868000
##	[116]	2.30432258	33.53327578	20.11751289	2.91551163	35.83709310
##	[121]	62.16886364	4.09528892	13.46406308	28.39335492	6.62664774
##	[126]	10.83431037	18.86490000	30.65045455	64.73250000	35.10378279
##	[131]	144.39348880	60.04549665	5.69864286	9.02840668	11.77367361
##	[136]	21.92521348	37.41814196	33.14784917	40.79320000	14.68324522
##	[141]	12.35784720	10.16517157	13.28355556	33.47777322	21.04864167
##	[146]	19.95572297	10.86926050	10.37042373	0.12069991	41.35007203
##	[151]	77.96000000	5.15066360	20.32388105	45.75040000	27.12804201
##	[156]	35.49000000	16.33942857	10.78136364	8.56742687	53.25533333
##	[161]	29.24325000	33.41000000	32.57831300	27.75904925	16.94643793
##	[166]	28.05094335	92.48220630	4.59900000	16.88069613	4.28929286
##	[171]	23.83323089	78.34560177	6.50683140	2.17973077	15.30003763
##	[176]	62.34813701	3.88945946	60.29018448	26.66133333	64.60000000
##	[181]	20.26155684	10.23187302	74.08800000	22.88908649	14.32200000
##	[186]	10.93482456	9.54306032	13.63463318	13.10326241	13.60512012
##	[191]	15.03328131	11.45469444	39.03580426	14.89210837	261.49128570
##	[196]	22.96411765	33.32796813	18.95323404	19.36549550	8.63171951
##	[201]	12.09216190	10.84440741	3.81057528	11.12342124	9.40113658
##	[206]	27.30636660	20.91831644	49.82333333	60.19477937	7.75388016
##	[211]	54.95126905	4.74573684	19.53495497	3.97827642	20.30438949
##	[216]	6.47591016	24.13073118	29.35629782	81.24750000	33.14514286
##	[221]	7.37168261	7.94580554	30.89798500	15.43344000	18.02533000
##	[226]	80.68062856	76.78667659	39.63270309	52.70052142	7.27206780
##	[231]	10.63449802	35.98106601	14.10053333	5.41764444	27.07791667
##	[236]	1.70506715	18.20995652	16.56314545	14.25648352	7.14142857
##	[241]	27.23866195	13.62630613	11.48461765	10.91300022	85.75285870
##	[246]	40.76128000	7.96464950	12.55220741	3.33233333	50.66498303
##	[251]	2.39760000	6.93823535	39.71730000	19.92584938	30.09281343
##	[256]	6.46783170	31.54642738	44.71103438	10.32166068	9.93839923
##	[261]	1.66011818	39.65538156	29.01038502	45.82931440	12.53314286
##	[266]	10.35720000	20.85956757	54.24886418	14.02920000	88.78460596
##	[271]	27.38224222	17.12545455	9.05308156	33.32834503	9.51742105
##	[276]	6.28404491	4.46539835	9.09277193	57.96417654	2.84230701
##	[281]	10.78200000	49.47040982	6.54801138	1.81647407	14.63957834
##	[286]	5.57672094	109.91240510	44.73466667	5.77095998	3.79566102
##	[291]	17.34893623	16.17280000	1.59277419	54.67634844	91.98000000
##	[296]	11.99264025	33.33074497	39.85866667	19.99600000	26.12015415

##	[301]	24.75047619	54.98000000	5.63810309	11.51923077	14.68950000
##	[306]	6.74850000	20.24536970	17.99100000	10.94723077	46.00643478
##	[311]	8.08269000	32.06509091	18.11148387	26.98312500	28.39833333
##	[316]	16.82505000	20.39448649	9.60952941	2.66333333	2.78288636
##	[321]	59.98800000	21.11629630	14.79200000	4.50827105	54.97590000
##	[326]	10.21229767	23.06900000	2.84677966	24.63837838	17.69657143
##	[331]	22.33920000	5.18545728	4.37440127	43.19228571	20.91692308
##	[336]	2.97321429	0.58275000	26.54550000	18.46989474	4.37691579
##	[341]	34.99166667	19.38181818	12.48412500	4.87396936	32.94600000
##	[346]	143.21153850	32.68969091	3.43121032	13.07329412	33.96120000
##	[351]	51.11722549	4.25425000	44.47733333	25.90331034	1.72216495
##	[356]	16.04860714	21.02481633	7.52930233	35.23398450	6.16500000
##	[361]	31.19040000	18.99269231	9.41727213	4.16325956	12.63441176
##	[366]	8.01155335	4.24268841	22.62989583	32.79937500	23.60518919
##	[371]	19.78135119	6.22104545	2.74120000	2.20849444	65.98800000
##	[376]	5.49450000	7.66863953	13.66158824	8.97993461	86.38800000
##	[381]	4.94776628	2.57906493	22.32934737	33.65010000	2.56845476
##	[386]	18.56148000	6.31074074	5.78902857	0.51338599	42.86628090
##	[391]	71.48800000	53.98800000	10.17225000	41.92518987	49.62545455
##	[396]	8.56913417	28.79400000	3.06076596	7.15275045	7.73490310
##	[401]	4.50438182	15.08488235	31.17812500	23.55437500	29.77418182
##	[406]	0.67312759	2.27359877	57.58400000	34.34857143	18.37062500
##	[411]	5.97606061	29.31555556	15.15205714	14.33124324	146.23875000
##	[416]	2.87395468	39.97777778	2.61345292	54.33103704	101.37217390
##	[421]	33.19600000	20.79115942	9.51171429	33.33358140	19.13415285
##	[426]	7.61043115	2.05081452	5.99714286	215.00941180	5.22070588
##	[431]	15.00476190	4.23021224	11.80233651	4.70950000	9.92297297
##	[436]	44.29661538	3.09900000	32.14213333	4.98723750	19.42810000
##	[441]	19.59533333	2.08778274	3.91912698	7.86895024	12.55885714
##	[446]	33.44055556	9.02732082	71.94400000	12.07468889	9.00185714
##	[451]	13.40298256	14.96432000	31.40784000	7.34532174	47.93128205
##	[456]	30.26937500	4.74420635	34.49250000	10.44450000	55.23646154
##	[461]	20.39400000	64.78800000	29.84800000	28.53153488	18.99561538
##	[466]	13.11733918	0.76107626	53.22881633	34.25336842	10.64805714
##	[471]	4.75993537	39.75577236	17.07978235	5.38296875	97.98000000
##	[476]	5.46638776	39.81885714	29.77472727	12.68583158	20.97239726
##	[481]	15.47720763	22.58886486	12.83705128	53.10142857	18.12446087
##	[486]	49.54827273	43.25200000	7.29175758	10.02085714	26.02377063
##	[491]	82.12367816	25.19400000	75.30864691	2.99546575	18.08584615
##	[496]	6.97650463	2.35344463	13.71812571	17.16745965	11.01942857
##	[501]	16.18920000	9.29700000	27.89977528	79.18200000	11.97910693
##	[506]	15.35760339	5.98116667	12.18000000	14.99642857	15.24900000
##	[511]	9.31185484	10.24598305	22.08800000	9.40753846	11.29607044
##	[516]	2.77690727	49.66307692	19.55501935	239.98000000	5.56928571
##	[521]	25.61645833	26.22981818	80.04344186	39.27145714	8.78114423
##	[526]	2.96749333	17.39171429	41.86896000	2.91751809	60.43385263
##	[531]	10.67331708	32.80852174	60.34235294	115.48625000	13.77355814
##	[536]	25.41321429	51.17600000	7.53010714	119.64147370	12.89150000
##	[541]	3.49003636	45.69873563	3.32266667	8.96089646	23.62159091
##	[546]	36.65444444	5.30400000	1.84752000	4.27929412	34.26077778
##	[551]	2.09050000	23.41540000	6.07215854	49.95438177	24.61425000
##	[556]	98.04262564	15.51193548	26.87520000	30.66624113	58.48800000
##	[561]	2.32110109	58.78800000	124.03200000	18.65333333	3.97647235
##	[566]	7.01820000	63.39474419	165.62046670	16.07106667	9.38037705

##	[571]	5.47297463	100.77760000	2.55407143	14.75710476	16.16701333
##	[576]	2.70583333	11.19189333	8.32520690	56.32466667	57.58892308
##	[581]	10.09862222	22.12888889	5.34489889	6.12878750	15.39560000
##	[586]	11.13171429	2.09904546	0.54612830	0.20166372	4.18760274
##	[591]	28.29538462	1.80936078	6.21109470	14.99250000	1.08977130
##	[596]	11.28411429	113.98000000	23.51440000	16.19700000	0.25519149
##	[601]	12.45500000	30.46158730	7.43586667	49.38860000	24.72661836
##	[606]	11.37678683	19.23625000	3.20030488	30.01288235	3.35689286
##	[611]	22.29939130	27.43209507	35.09100000	24.34016667	254.60715790
##	[616]	8.18160000	13.32592593	10.12275000	30.52636364	31.90387500
##	[621]	52.08342857	23.87629104	8.54525000	7.20461368	9.01301137
##	[626]	56.35884615	54.21806897	9.64107692	4.14887838	20.00310000
##	[631]	7.79352857	42.41914286	36.51581481	4.24737209	80.58733784
##	[636]	2.22727869	44.99000000	2.34141972	15.40042308	43.99000000
##	[641]	10.51809524	13.09154641	12.73144186	5.07811494	10.98707143
##	[646]	1.41844040	14.98333333	5.74405797	8.56714286	50.99250000
##	[651]	11.15734286	92.83857143	8.08875000	16.42363253	37.60935484
##	[656]	10.80188719	12.65343750	19.11274510	16.70657143	7.09147826
##	[661]	14.75911588	72.78800000	14.55428571	11.19263415	2.39491796
##	[666]	13.36332468	27.71340000	64.33043478	102.35383780	100.09636360
##	[671]	13.40247586	18.66333333	8.90355790	9.13976077	5.47953231
##	[676]	31.31885714	19.78533333	7.10814815	9.87764706	6.14763380
##	[681]	4.43034783	12.44030746	5.68955411	2.32316216	45.61250000
##	[686]	3.92601413	1.78681908	8.12619355	115.98000000	2.99226778
##	[691]	2.79741471	42.95612903	4.27280769	2.79047368	12.76243133
##	[696]	31.75846154	42.89057143	107.21702130	40.43377778	37.69920000
##	[701]	21.58800000	30.80927957	17.24870115	48.86800000	47.65566667
##	[706]	98.13692308	10.48533333	8.39781818	107.94000000	10.07328000
##	[711]	48.72995628	24.27165000	4.62947010	8.88711111	22.74458333
##	[716]	22.27457143	25.38925926	53.47457143	0.86048473	9.07305263
##	[721]	5.01527273	6.58800000	173.46979170	50.82975000	11.69485714
##	[726]	24.40764444	20.60836364	10.39760000	0.93697917	71.46597872
##	[731]	3.34840769	26.34343478	45.48950000	32.38200000	44.38800000
##	[736]	14.85131250	26.59353846	70.01826316	16.12416000	56.62363636
##	[741]	5.92148209	8.02283951	6.40261290	62.07882353	48.86400000
##	[746]	57.47400000	9.59740540	10.45437681	2.52499396	79.00000000
##	[751]	8.60439130	19.34826667	13.99676923	23.32166667	3.38287678
##	[756]	2.17243137	17.05922581	7.97550000	8.92659857	23.61948148
##	[761]	19.29753191	16.67022740	12.27419487	3.24165306	4.76956682
##	[766]	18.27428571	3.06437838	25.10900000	10.11360897	20.37964966
##	[771]	50.38800000	6.81210526	72.30208696	8.18409508	27.74177162
##	[776]	55.84860000	39.18600000	17.80800000	22.89636364	3.35813333
##	[781]	15.18412500	7.60937143	16.16333333	13.11145455	16.53909091
##	[786]	68.37600000	13.53068367	9.84981647	8.89759459	8.05261667
##	[791]	54.07524113	21.76475048	54.97036364	7.15342105	8.06902765
##	[796]	9.10293742	2.48338983	28.52788235	26.65777778	18.84400000
##	[801]	6.62494737	16.94046729	59.96777143	14.73709091	7.94153153
##	[806]	5.13771429	63.89100000	6.53004878	10.62514286	9.74025000
##	[811]	8.86844901	13.67493333	12.59910233	26.98000000	3.99800000
##	[816]	12.15210526	55.48500000	38.20940741	5.67728649	4.54760000
##	[821]	5.24475000	9.86512500	43.81043478	69.27860870	42.50333333
##	[826]	15.94680000	8.50823750	32.19080000	5.71006128	1.91417497
##	[831]	31.22000000	5.18516514	1.03376402	24.73875000	91.24600000
##	[836]	16.48421053	9.99166667	8.25657236	47.26060606	35.98000000

##	[841]	2.56153846	49.39271642	11.47812903	17.54100000	64.46185714
##	[846]	12.13161988	15.65808387	16.10052632	7.99800000	5.15946221
##	[851]	26.98500000	38.20357895	3.98411070	5.79800000	5.90318182
##	[856]	3.07670690	58.10562500	64.08126316	53.22268667	7.72677966
##	[861]	8.49565116	12.59766667	33.84778378	1.91242222	23.98800000
##	[866]	5.78298825	11.28427500	1.55838139	27.66400000	1.53483598
##	[871]	32.43738462	10.17002765	24.02645488	33.92511220	20.88818182
##	[876]	22.20401709	3.22951818	12.61543434	27.81913043	15.02583766
##	[881]	8.45250000	23.13000000	6.78300000	11.82904110	6.07673457
##	[886]	19.11050000	23.23500000	22.93531071	4.19760000	0.90283568
##	[891]	36.25600000	9.06533333	84.30663844	28.03452632	24.28650000
##	[896]	17.19073913	15.25033754	16.78420229	26.27933158	11.96396809
##	[901]	58.16727273	14.98487500	20.11792982	31.98000000	15.81839583
##	[906]	6.67369565	6.09432432	28.25395506	16.09065000	24.89700000
##	[911]	109.58760000	28.94180488	21.07980488	32.98533333	12.08192262
##	[916]	6.14934386	54.53454545	11.38642105	30.57647059	11.33463158
##	[921]	1.03609091	20.62474136	1.32413545	5.54002467	3.55484781
##	[926]	67.73686486	30.32360000	11.96954545	17.27040000	21.59520000
##	[931]	7.25975000	17.70684845	30.87724138	80.11800000	28.16275000
##	[936]	5.81616797	25.48400000	8.92682353	44.56114286	3.48535252
##	[941]	3.89035018	22.73800000	54.65714872	1.45695152	13.99000000
##	[946]	51.60705882	12.45099015	6.73839524	16.32244444	33.11280000
##	[951]	3.32397132	11.98800000	24.90144186	26.93792373	13.18408163
##	[956]	72.52076923	17.94797101	11.87691429	20.13555556	5.69412121
##	[961]	36.89921429	59.12446780	2.69079257	3.11104706	13.99708333
##	[966]	8.35350804	0.76382896	14.84053801	13.81852727	26.45082237
##	[971]	22.45821429	39.15000000	23.38800000	14.38800000	10.87212857
##	[976]	3.66361702	21.31800000	11.19300000	6.38086274	29.90282143
##	[981]	2.90417718	7.88047826	39.42000000	40.87111111	1.68031884
##	[986]	31.75764706	62.86600000	19.21218939	37.51854545	7.30065686
##	[991]	19.31540000	1.16407539	17.37391304	49.38800000	68.85704348
##	[996]	113.15121950	53.66290909	8.48851852	6.56062500	1.11975904
##	[1001]	22.31912500	27.44491667	4.85884286	32.02714286	8.07242617
##	[1006]	7.80261111	5.51334591	14.69293103	1.83150000	24.50485714
##	[1011]	33.78800000	5.16713333	49.01914286	19.11506897	8.07853125
##	[1016]	52.05165000	9.12739130	4.30831579	22.02197159	17.19611523
##	[1021]	17.54550000	5.94202564	18.80505000	9.74550000	23.03329412
##	[1026]	9.96092308	7.63664516	9.32353175	19.44800000	32.70730435
##	[1031]	6.28149451	8.10000000	42.29306752	28.06804986	19.82770888
##	[1036]	204.00794910	4.34814562	36.66178288	5.12835823	72.52283848
##	[1041]	48.04726202	32.70034468	3.29682730	51.03362522	106.25251690
##	[1046]	54.56704868	1.79866986	7.76628090	60.43737784	19.71529542
##	[1051]	8.48084626	6.37377062	7.68745056	6.28290460	6.17593201
##	[1056]	86.33623272	4.19298038	16.56478478	77.45798550	26.13034871
##	[1061]	14.00979215	0.84733799	44.85638692	8.42478735	22.65941331
##	[1066]	20.55494533	39.96971545	1.98103839	20.94544525	4.48432849
##	[1071]	4.39547154	32.95851549	2.04276233	0.87014848	4.58691025
##	[1076]	10.89761784	10.99901844	21.09392209	10.72117234	3.08510364
##	[1081]	27.28786900	1.02339158	4.85637711	32.89701477	69.46239458
##	[1086]	1.29767792	41.64590199	22.53693712	5.68914747	43.29821166
##	[1091]	2.15383930	16.36245374	12.90587650	1.40194913	8.15081124
##	[1096]	1.47623044	41.34613116	12.08836478	27.19298393	17.92758699
##	[1101]	3.47813562	19.13285864	11.33062869	4.21241576	27.89717093
##	[1106]	22.09581063	16.72561819	61.30486592	13.91046998	19.96563610

##	[1111]	3.99818414	20.33155364	6.80128988	19.03293603	19.57059225
##	[1116]	47.57360345	78.56959864	18.22752549	5.19408187	246.75859020
##	[1121]	0.77099186	47.30370179	7.23220186	8.01883246	32.73061637
##	[1126]	4.70206553	17.35448787	100.72560480	35.51518951	12.50786523
##	[1131]	3.97954364	27.79373861	11.78466261	8.33057482	47.57898514
##	[1136]	15.50362136	1.27331741	9.25316168	129.10137380	1.71821884
##	[1141]	1.25769552	31.90320066	14.63523974	5.76367882	5.62486136
##	[1146]	2.00603294	50.18313917	11.43923328	0.17982681	0.93770521
##	[1151]	0.13183701	27.51283930	19.74930078	32.93460110	13.73292849
##	[1156]	31.99181419	79.44353446	67.30929078	28.05716135	3.67382907
##	[1161]	13.18078221	32.52380772	24.12558571	3.58543983	11.27445733
##	[1166]	31.91414045	18.09857173	48.04390582	15.82044157	13.86451214
##	[1171]	24.51269374	10.17711218	0.83898825	11.28379079	63.45892077
##	[1176]	0.12967689	9.23193486	18.51505467	2.66499497	14.83978240
##	[1181]	4.17431402	29.61151281	0.70015501	63.55337685	12.57401830
##	[1186]	12.39204312	5.76134744	5.69765900	6.15320138	1.46401043
##	[1191]	40.27815244	25.85442016	62.85326100	9.86964937	27.31414742
##	[1196]	22.25592956	24.91845480	0.87504793	19.23268976	153.57769750
##	[1201]	11.59522570	5.90440756	14.85337253	16.96712066	33.22292729
##	[1206]	0.89849541	27.65096750	39.27673964	2.20997269	60.58437066
##	[1211]	2.84831224	19.18310758	6.18921543	5.28700576	40.78047078
##	[1216]	5.86043977	8.30490394	40.08238165	40.43578994	44.89345937
##	[1221]	37.92414395	23.07581495	38.12368584	6.34463177	54.99509220
##	[1226]	52.28594057	0.70208676	4.30762725	54.91911804	28.32886648
##	[1231]	39.42556512	42.30391708	2.10185027	4.08394802	34.75023292
##	[1236]	27.69500776	7.56292207	0.78090582	13.59420027	58.92417660
##	[1241]	34.52221170	39.41924911	2.48002464	19.63031016	0.15216744
##	[1246]	94.01683315	0.88848596	8.04958574	7.19882000	3.17042646
##	[1251]	32.73373471	20.42600013	3.16408831	10.20777685	2.55114081
##	[1256]	17.79528223	7.24875774	11.27546478	23.15073799	88.39170518
##	[1261]	60.04472938	30.04921703	40.65972700	2.05188208	2.85203674
##	[1266]	5.64799440	20.71678117	5.17710684	0.72018102	8.43520691
##	[1271]	1.69696894	19.43795945	15.13596148	10.02470626	4.02799842
##	[1276]	88.84365062	6.71129059	37.53469014	55.82099528	21.24191985
##	[1281]	5.88595629	35.34967016	83.80837784	3.96093872	117.61659320
##	[1286]	24.68624612	28.80119616	12.19588410	8.51722125	55.89978908
##	[1291]	94.10360412	4.21536354	3.99674242	166.37355310	12.13602010
##	[1296]	83.93274289	35.35631939	21.47899475	124.90458580	11.12205139
##	[1301]	36.26141924	2.16946976	5.26819016	16.19731984	34.03997536
##	[1306]	3.87058804	20.62387076	22.36033441	10.31930868	21.74067473
##	[1311]	52.97841866	4.40657816	14.40305750	11.70316410	9.16303842
##	[1316]	22.15399132	10.15253138	92.90417860	9.77521659	8.32672815
##	[1321]	45.63345378	10.78699180	6.01267108	45.55270796	12.01221257
##	[1326]	13.29131586	258.54987320	3.16569129	3.27121463	0.15482125
##	[1331]	16.17228850	18.19675574	11.11383981	8.33917199	10.95661974
##	[1336]	70.31635146	4.76032846	17.21022568	17.79812649	30.21969637
##	[1341]	10.15064372	3.10401914	8.61122142	5.86624891	87.25396293
##	[1346]	45.71146255	50.36347405	0.13920062	104.20122730	12.12586885
##	[1351]	29.65880372	18.30205576	2.81247405	7.80633848	5.72136510
##	[1356]	0.38472029	113.92934340	3.58663645	1.48374635	18.74860165
##	[1361]	27.83116147	18.08644865	18.50321705	3.80104841	44.35972562
##	[1366]	3.45938424	113.32386140	1.29823217	9.55062740	10.79250883
##	[1371]	0.15065050	35.22837227	37.54741640	2.04513739	61.91792063
##	[1376]	5.91534292	26.41021956	1.89194349	5.29201418	13.78150822

## [1381]	18.87145759	31.14097898	154.09553890	14.92784091	22.97728560
## [1386]	24.57349606	29.71496014	16.14887273	67.18378365	20.08902391
## [1391]	34.45943549	31.44363136	55.89978907	10.25950957	0.68291229
## [1396]	11.43180835	23.42271616	25.53300390	19.50605707	9.12860751
## [1401]	8.34275589	75.62994948	30.87227217	112.41412720	2.32126408
## [1406]	24.83718656	17.75267237	177.77145360	92.97624144	0.68533580
## [1411]	21.14016404	7.36509031	0.44703866	15.33867021	22.29319060
## [1416]	23.55043940	4.36518129	60.71287168	25.11150884	4.28674366
## [1421]	11.62063524	12.15713406	12.76490187	24.21760276	0.85836146
## [1426]	5.03440925	5.65927122	10.59553121	5.29026253	17.92983378
## [1431]	37.86167396	4.78307258	15.45198077	16.37978199	5.61370829
## [1436]	15.89480154	35.89140755	13.09195948	6.92982632	50.41116040
## [1441]	18.42740587	61.80843596	4.00117355	17.62211147	9.35278005
## [1446]	33.61787649	4.68307596	0.57978575	10.45977002	20.13907622
## [1451]	6.32447708	16.61211742	1.43522401	11.71746761	12.12257750
## [1456]	47.32661324	22.97507587	48.78806880	53.88782441	17.36252324
## [1461]	179.30729300	9.45344906	7.22441913	68.32050059	5.32974363
## [1466]	68.75226072	21.27271783	16.96885494	13.83791777	2.56848389
## [1471]	112.44062120	10.05190252	0.97580327	44.73610411	14.92797811
## [1476]	16.13470010	79.51302667	1.81635021	86.31034266	11.21330466
## [1481]	14.28629744	69.91439226	17.29676376	7.91345877	2.39528314
## [1486]	22.89972198	9.83618075	87.30695843	83.10114264	26.85210163
## [1491]	8.28511937	8.05249618	17.09528640	10.19295165	36.70369311
## [1496]	32.41773364	12.71367924	8.05223152	0.40823813	13.49047237
## [1501]	13.66308470	1.95255339	82.02143600	9.54251571	4.81894733
## [1506]	33.41173784	31.72080812	11.15668928	86.12351528	1.53353928
## [1511]	2.76705513	23.66358807	71.07435633	6.47676037	4.42805244
## [1516]	2.00164034	88.06848401	27.88924560	31.74373458	4.02332366
## [1521]	36.33496365	35.03953094	48.73081038	17.72722287	8.15436133
## [1526]	5.81815124	3.58298119	30.54596337	46.84856664	9.09821628
## [1531]	29.46284390	22.08032319	47.65907425	14.37785831	27.61615655
## [1536]	52.17313647	1.34213494	65.47265060	0.71462321	33.60744027
## [1541]	12.83702398	4.96452119	17.42324027	13.52088614	40.77935433
## [1546]	38.06520001	5.25128888	5.04632908	67.98927956	1.45383113
## [1551]	11.33037122	7.46846931	13.59007196	6.49444108	20.35484005
## [1556]	1.00204207	45.12532172	10.79674946	70.25958510	58.37208988
## [1561]	8.39128176	1.33251075	19.39995042	2.49131602	15.06586317
## [1566]	42.14163315	48.99526482	4.85962475	1.44476359	18.65904914
## [1571]	62.77367187	4.47783868	7.82683635	10.41358118	23.00459544
## [1576]	12.58722248	13.38353821	37.72031898	2.74971665	16.43725303
## [1581]	14.22049566	54.20146753	27.14408757	19.64189593	3.92827844
## [1586]	33.05509961	23.79060609	11.34860076	31.49043616	19.47465798
## [1591]	2.15909664	27.93478267	4.52963571	17.27062073	6.85414900
## [1596]	20.10126693	4.94571739	10.57326688	2.36883012	16.77416803
## [1601]	28.52919049	37.35725827	40.18975207	45.92878029	1.28856968
## [1606]	6.32260000	26.18180656	6.04720352	37.68626909	2.38596964
## [1611]	37.96905976	53.11442085	47.12454606	11.84059922	0.03803454
## [1616]	36.08245160	23.76322043	19.61979883	35.25541691	5.76741966
## [1621]	15.70942935	1.45392292	64.28793090	4.10766119	5.88766673
## [1626]	42.98453080	32.22252197	5.31610921	9.06308803	0.26809298
## [1631]	0.98110865	7.48051616	4.12743068	22.65617015	10.72449269
## [1636]	1.72586635	1.03375734	30.84751033	3.88523357	33.83646892
## [1641]	53.68539740	0.09862140	45.19820194	4.90908873	36.96220452
## [1646]	3.70979448	21.32413414	14.53547145	10.91124490	36.13790493

## [1651]	59.57182786	18.78186098	4.71893112	18.41056693	71.23156574
## [1656]	20.65287956	8.04107833	6.32869327	39.88966398	5.15026011
## [1661]	17.81649911	20.74935126	36.07906944	13.57270341	22.37276151
## [1666]	2.90865324	5.09191429	5.40893534	20.44064077	21.26632526
## [1671]	21.47142017	3.17966645	11.55399716	36.31643173	3.45487414
## [1676]	5.79089525	30.20357704	19.24405095	28.40448178	36.67229400
## [1681]	6.88718123	57.03508179	7.54214427	24.72209216	47.79177080
## [1686]	9.28454552	24.16451021	6.27768394	22.22165124	26.67428219
## [1691]	18.84993357	49.55482147	38.27331194	36.14032284	10.67716934
## [1696]	14.75943613	28.69843548	59.33984611	36.65735004	27.60143046
## [1701]	44.35848718	48.30461627	34.86423061	26.13036122	16.35155923
## [1706]	20.14579261	42.93595137	24.61778468	5.24586873	33.50211155
## [1711]	27.31510469	18.23386055	28.52395644	17.68865669	34.48748308
## [1716]	20.27555590	21.58031621	20.50348800	1.82747074	2.42745393
## [1721]	138.32083420	20.82613173	8.88767189	125.89390910	39.64975080
## [1726]	2.03927023	29.46208830	0.90637597	45.82834797	46.33991252
## [1731]	16.95907848	11.80891356	0.77531811	26.18852293	18.04114817
## [1736]	7.84853878	0.46840609	7.57047002	75.27712913	60.51988521
## [1741]	22.86584543	52.11335786	17.77043431	37.21183634	3.36406096
## [1746]	3.74015068	25.27760515	42.23025869	94.19490268	15.52703405
## [1751]	46.67852750	1.60801626	2.92416186	76.78094110	42.28127491
## [1756]	2.51497795	20.74810067	63.64653548	25.75263890	56.58021710
## [1761]	50.51764193	15.14864831	62.76294758	20.60235987	5.46424355
## [1766]	8.13727408	31.85608032	6.09989902	18.25059634	40.40144810
## [1771]	25.25564195	9.02274151	2.70251786	1.27140663	6.55623743
## [1776]	46.47480230	34.67841487	3.32286621	109.12115550	21.85958403
## [1781]	45.41882207	12.96520279	36.20031210	3.40143879	12.64606692
## [1786]	14.67198629	3.51285293	2.16480971	6.69365829	14.77221948
## [1791]	73.98253901	24.87208500	13.18554515	52.49862029	21.60180090
## [1796]	87.90296060	4.51110042	2.73435154	8.25808877	42.74590431
## [1801]	10.58098677	0.68098854	54.38258659	5.48289582	77.04199767
## [1806]	6.22999474	218.39519150	2.03839945	35.79969486	21.41943708
## [1811]	17.96069044	24.10206377	18.91607320	23.57537117	4.52832975
## [1816]	1.93549130	38.88816225	28.79847144	68.20038032	5.23722475
## [1821]	18.22304387	37.05600958	8.19192289	41.13336886	13.76473644
## [1826]	82.43263490	6.65133468	19.60551510	24.69983785	5.91438512
## [1831]	218.86490960	12.50325678	9.45890209	13.82316952	5.91145218
## [1836]	21.01746974	5.69858548	26.38074656	1.96359243	8.52454892
## [1841]	6.70944014	30.21878011	72.43846009	9.42936248	17.50624004
## [1846]	48.01365490	13.25001247	6.66423912	17.79456354	33.44471217
## [1851]	7.20120928	13.13492027	3.17818343	12.58590538	2.62690908
## [1856]	73.35866939	2.64762007	59.61184150	21.05431578	69.46175766
## [1861]	6.66492772	41.21691540	14.49431487	25.75735474	10.11599409
## [1866]	21.88856759	125.96174900	21.83420125	52.28491058	9.59484680
## [1871]	68.88769355	5.73160780	7.26703421	2.32566380	360.95338390
## [1876]	31.48142512	68.91364255	108.90898840	13.91832377	50.09121868
## [1881]	23.63939460	34.15414773	30.68883081	25.19297315	102.49221880
## [1886]	54.12171400	3.33383554	49.72830378	2.62734720	14.58941181
## [1891]	1.81848081	29.04476648	76.05518858	13.91276554	15.15643787
## [1896]	23.51024736	14.12736980	47.44850792	2.21702940	47.99199256
## [1901]	4.35051374	14.78162714	32.88667049	8.59748605	59.21256014
## [1906]	14.54270238	10.74211393	12.80819078	8.40316370	5.21469099
## [1911]	255.56915790	44.98081787	3.92032161	38.92648303	33.11000268
## [1916]	14.11909834	9.08476780	2.98241094	8.50558665	51.00308169

## [1921]	17.53927855	9.24228603	1.79107248	20.59247080	0.74294274
## [1926]	42.62274459	12.22605425	16.68711526	4.76054860	3.50753225
## [1931]	57.48364657	44.92362122	8.89861869	3.27774457	19.73335395
## [1936]	14.59072178	1.58932982	62.33035594	15.34988580	68.19740180
## [1941]	1.10444023	3.94042276	111.51138020	3.32266036	6.06442570
## [1946]	19.27621155	17.78585727	6.49391045	7.51342637	9.96444422
## [1951]	60.07483189	14.88419318	6.04871414	21.23960367	17.50632106
## [1956]	27.97007005	11.97037051	41.67536194	12.74039337	9.13138680
## [1961]	10.36159616	32.09724943	4.11339133	43.03066045	42.19732111
## [1966]	10.73461716	3.37306297	66.57412378	51.36077038	55.01131298
## [1971]	1.59780347	6.75096825	16.74209908	7.15007324	20.06500939
## [1976]	7.89093194	7.44824287	43.99403085	87.94459488	1.30768232
## [1981]	50.07598981	7.31189222	17.53361640	13.77521629	19.18108767
## [1986]	5.36441927	23.53105656	127.30801480	95.35469341	7.93528593
## [1991]	7.32900896	14.14050684	61.20406619	81.19520286	45.15513521
## [1996]	44.12861840	8.95865223	38.60204838	26.98362279	16.35594008
## [2001]	22.95499447	6.01756394	3.02657170	6.99276781	70.33953705
## [2006]	23.82324931	9.22124302	15.26399679	37.59646822	5.31230023
## [2011]	18.60589711	14.67222588	1.52957051	5.77298283	0.62451039
## [2016]	29.62188989	361.76374190	48.60947890	4.77091036	86.57772177
## [2021]	27.03986205	10.69237969	23.51599702	143.47667830	14.50274386
## [2026]	20.11392747	32.41417040	128.82786910	21.23244876	18.61684302
## [2031]	57.06546413	100.16556780	4.21336420	48.66071756	45.58268367
## [2036]	1.60682572	28.18955966	11.01940759	20.66724590	6.73374475
## [2041]	9.44292706	24.54706296	1.48321094	25.04441774	4.14145881
## [2046]	21.21126550	22.92341151	1.53931845	10.37175846	8.89683697
## [2051]	8.53392846	131.50404380	3.17906360	4.19533518	17.60939304
## [2056]	65.29516039	4.51107876	10.66936985	13.63692586	6.02352321
## [2061]	44.20382094	7.51897976	6.88976600	68.25870800	19.34978396
## [2066]	44.33548922	17.06291074	108.08938730	14.85051676	17.47671530
## [2071]	3.85165321	15.95538838	8.75404518	9.13733131	23.56763550
## [2076]	5.53990018	1.03529974	88.95486906	23.87050540	5.60638277
## [2081]	18.88360212	97.99220660	93.52994426	3.69613604	68.25041784
## [2086]	78.19779587	14.16739222	2.20900337	64.81173101	15.98803400
## [2091]	32.56725746	10.51901813	9.29401198	5.16809960	67.39709637
## [2096]	1.94305851	7.07242997	4.49558509	8.04576773	38.74833630
## [2101]	5.00765405	2.81553938	0.78027740	46.30806300	19.10349568
## [2106]	5.85066543	28.11635484	41.64625944	14.38546841	12.45078371
## [2111]	65.74605279	13.97504830	38.26667925	14.10739957	12.30811748
## [2116]	59.75418351	38.00063931	18.08361086	32.32493691	10.13196440
## [2121]	11.70614611	36.54680355	13.11682830	48.66217061	1.98455579
## [2126]	25.82676446	13.89178731	77.10821943	7.18034830	167.23083360
## [2131]	29.88386066	25.00423187	15.56462164	2.58002833	19.51010101
## [2136]	17.63434621	4.00706550	24.75265330	4.11585359	19.03391341
## [2141]	15.27655756	42.77521970	4.84736534	62.93549178	77.25951671
## [2146]	1.62505103	29.76290794	64.25350176	17.02873771	5.93133285
## [2151]	5.77097316	8.66528092	9.33174418	20.15710234	3.65172635
## [2156]	3.83607993	34.98992634	23.66458710	21.74053053	3.35943565
## [2161]	8.96074793	32.90611766	12.32661404	32.81205711	28.03795985
## [2166]	71.38981221	7.94536829	25.21523293	0.25272174	84.87572674
## [2171]	9.05546589	57.31589130	6.19428782	13.90010917	9.58116220
## [2176]	16.15855820	7.98343864	8.27583441	9.64106746	111.26299390
## [2181]	14.13747520	14.69960115	9.83635802	7.29688907	79.48403933
## [2186]	10.57361945	1.57342323	51.75775772	43.89691103	7.23107478



##	[2191]	8.17472868	50.17693633	30.81857956	5.05214596	17.98756852
##	[2196]	103.06108270	2.63807466	5.04016763	10.38894380	19.37005896
##	[2201]	20.79483821	81.33444100	120.58791400	12.48912129	5.28608849
##	[2206]	8.83802729	11.73221807	76.79104650	1.79545100	27.77725875
##	[2211]	16.87878625	115.78194710	3.94173614	88.80448992	4.97021981
##	[2216]	72.06822266	16.97962310	5.66745092	6.06233016	1.77749255
##	[2221]	2.44215346	8.78897640	103.14028990	86.79082569	14.62413644
##	[2226]	18.16617631	13.24667166	58.20233822	46.21605051	13.49031898
##	[2231]	0.54881135	22.42576795	30.60955642	3.73031831	5.79302679
##	[2236]	8.05583400	24.28901413	61.58171224	27.97341787	67.02771302
##	[2241]	15.39534668	11.65798375	10.82357287	44.69642794	8.96944797
##	[2246]	9.58156105	0.68656523	1.84291362	4.48558474	23.00194502
##	[2251]	0.24515290	13.68108942	60.62885042	1.56018416	31.38886179
##	[2256]	18.16953570	18.85086521	6.78695894	13.13078340	3.18749506
##	[2261]	24.80248887	78.12165404	43.71856886	1.11415018	11.37726052
##	[2266]	105.26097200	12.36126667	27.75787044	5.75121904	2.54795624
##	[2271]	9.50949249	12.58179402	17.22281788	2.38197116	34.97250838
##	[2276]	13.38149414	48.45370723	32.02019010	20.88414313	5.55251729
##	[2281]	3.46444407	0.30531206	33.69233226	5.52378230	1.25743891
##	[2286]	14.14084367	43.77424082	1.18073661	77.80158800	60.42298474
##	[2291]	8.21617792	83.96813664	5.90747594	32.59864309	2.76959892
##	[2296]	25.05062136	25.76598645	17.60269465	59.42458922	21.47448516
##	[2301]	8.44235219	16.98117776	35.60912359	77.66478213	16.81772593
##	[2306]	128.46869390	55.46963196	56.72227169	55.31956658	14.99601118
##	[2311]	34.60160214	5.73053929	12.36004300	10.59423174	18.26940096
##	[2316]	57.82473775	37.02263046	59.51850423	42.70505393	68.84905671
##	[2321]	14.78422174	25.03946022	41.67776195	15.75636267	60.73155753
##	[2326]	0.33523237	52.38420388	6.19058208	54.16451768	89.13481061
##	[2331]	8.42192143	21.10579025	20.50963783	43.20756866	17.54619116
##	[2336]	1.37270775	0.09354695	27.03298037	17.78922266	14.74449646
##	[2341]	33.85339122	177.52882520	35.25420124	5.47387497	11.68031490
##	[2346]	56.17738060	23.30000662	119.89433270	17.85338057	8.92090078
##	[2351]	17.43149651	22.82159308	9.26982796	4.74162606	13.93940910
##	[2356]	14.45829487	42.42253100	40.01028435	8.02486573	25.74700712
##	[2361]	40.51760545	26.09995422	32.38852793	23.59811637	15.84839963
##	[2366]	45.96751050	10.12959599	52.74177636	4.64650321	5.69871104
##	[2371]	10.09867780	38.19240444	10.06743570	52.03463312	11.93318810
##	[2376]	60.26309658	3.54631555	3.61382908	14.15437174	1.46969325
##	[2381]	112.66613650	12.09622118	97.19657367	9.41934649	7.05333500
##	[2386]	287.95379280	51.27258615	7.96397642	214.30666270	25.12339065
##	[2391]	63.14985950	64.95645099	14.52186250	3.83397413	16.04403014
##	[2396]	0.85050952	36.86701770	5.39176749	2.90787934	13.55041394
##	[2401]	31.63684138	2.61306279	18.12700440	13.43133991	5.29198915
##	[2406]	9.96425581	16.61144026	47.83758971	18.71641694	18.21579469
##	[2411]	5.90929503	12.99938379	12.07905093	5.71562257	15.15104830
##	[2416]	34.85660705	7.05992985	56.31760103	89.29548670	140.66213660
##	[2421]	18.58457770	3.70161889	29.34770837	34.29431289	12.00869742
##	[2426]	5.37674059	5.15780368	16.72936970	2.52721748	13.26221446
##	[2431]	6.13598245	25.57242933	9.69917706	7.49715506	16.58165201
##	[2436]	61.61833364	11.65996434	9.65025004	28.41708136	8.67134407
##	[2441]	1.12514606	45.46426090	4.28967886	60.62238300	53.73655336
##	[2446]	33.86849093	93.77761706	151.56505230	54.10230816	54.04869560
##	[2451]	52.67778465	5.13391185	12.02904527	2.13632558	22.45841786
##	[2456]	3.66377788	3.96030630	1.38579184	16.27511574	42.22150549

```

## [2461] 3.86863332 14.02863873 39.48337116 22.13419743 49.01323885
## [2466] 40.42327574 38.19067209 19.66912605 32.43717827 12.20780052
## [2471] 49.36350729 3.80128899 23.73891130 5.00266978 6.42575764
## [2476] 3.50497054 60.01343064 42.26791822 27.97632918 32.22246226
## [2481] 18.08071442 26.41113767 27.79149135 23.27552205 12.60913229
## [2486] 26.25948159 27.86366003 13.28070081 21.96462420 32.31711630
## [2491] 44.06491359 41.42209500 14.18391563 136.93795800 67.26616125
## [2496] 14.57483754 25.10043261 11.77908986 17.46396119 41.53706414
## [2501] 23.18305163 29.38287135 76.79037287 10.21771151 3.18693501
## [2506] 34.79013586 90.92852170 7.90737955 14.96948769 2.51591586
## [2511] 24.07951908 13.18501000 7.99490429 10.90023366 19.29866138
## [2516] 64.41616070 8.83351003 21.81920724 11.10333103 4.59675105
## [2521] 54.76629511 46.62801597 48.92856443 62.83957669 6.42074610
## [2526] 81.75845837 48.60623685 14.94379331 27.07846934 3.72653023
## [2531] 62.40576241 18.07802206 16.43784656 0.78959179 1.26665917
## [2536] 55.56967560 1.77336933 6.64191142 3.01402558 15.38432962
## [2541] 9.69415407 40.65671234 39.59436227 18.13388282 4.78972262
## [2546] 17.15249937 0.65178181 47.99566725 83.78651166 39.75249992
## [2551] 38.33994350 1.99078867 12.94438665 28.11367347 4.80330573
## [2556] 44.44361400 18.85445822 87.74978701 37.42337649 62.51664293
## [2561] 32.13922216 77.97458009 10.05608631 16.96317099 40.18448790
## [2566] 3.72874257 75.50833257 9.90514375 6.24539781 21.39566828
## [2571] 7.86898095 63.93506419 8.88664853 14.13268846 6.02885410
## [2576] 8.84568953 61.07207396 4.28030220 16.64099403 51.86660251
## [2581] 62.86831138 11.32556227 3.22226170 36.95500632 32.91300914
## [2586] 22.31126324 45.05554866 19.78456264 21.03233592 5.77478516
## [2591] 23.33239205 46.06937312 270.78469310 3.01218182 1.02255058
## [2596] 9.19398922 4.47029769 2.35643729 20.32548134 141.45905380
## [2601] 26.65415979 30.83748589 57.59075850 41.13433129 0.95193375
## [2606] 7.47738811 5.87300079 20.04842101 4.07492100 15.63731434
## [2611] 3.05990612 0.60223282 39.29216261 34.14841957 10.53591515
## [2616] 26.45046371 34.27708553 38.83384563 5.93200901 1.45186786
## [2621] 28.16893067 92.93949930 6.70890060 4.45266449 1.17898995
## [2626] 19.31425101 0.06704955 3.30305997 9.82911458 27.61403036
## [2631] 13.64300463 12.18867006 16.16057924 22.02071582 2.27035806
## [2636] 5.56027054 56.57877343 16.43637285 7.52115503 69.71321410
## [2641] 15.10854300 6.89823246 41.55801982 11.07703164 5.45243266
## [2646] 42.83887416 2.78093778 226.67770170 38.41401623 40.72562976
## [2651] 60.97758829 116.33786520 4.48567854 9.47291436 21.38257580
## [2656] 13.20331045 8.80513896 0.81830655 9.07868162 46.77831787
## [2661] 17.28402947 9.00531078 11.30850046 16.32930757 11.62573653
## [2666] 19.56746389 77.64914484 33.31220592 39.03844200 5.14592887
## [2671] 7.20930512 2.12273186 5.64868813 30.30681247 2.82745293
## [2676] 7.01475344 50.81417971 11.62288468 64.72238907 8.48295152
## [2681] 17.49721917 81.02729581 6.47920626 5.46809350 8.46638476
## [2686] 133.28137860 3.45107211 31.81967723 1.24007111 10.22993737
## [2691] 42.03044096 28.12876638 8.08665706 97.86083623 11.61864445
## [2696] 36.39286104 18.67564853 7.14760377 44.21979406 39.51980679
## [2701] 1.58247315 78.81172527 3.68540082 12.24171745

```

```
unique(customer.df$SpecialDay)
```

```
## [1] 0.0 0.4 0.8 1.0 0.2 0.6
```

```
unique(customer.df$Month)
```

```
## [1] "Feb" "Mar" "May" "Oct" "June" "Jul" "Aug" "Nov" "Sep" "Dec"
```

```
unique(customer.df$OperatingSystems)
```

```
## [1] 1 2 4 3 7 6 8 5
```

```
unique(customer.df$Browser)
```

```
## [1] 1 2 3 4 5 6 7 10 8 9 12 13 11
```

```
unique(customer.df$Region)
```

```
## [1] 1 9 2 3 4 5 6 7 8
```

```
unique(customer.df$TrafficType)
```

```
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 19 16 17 20
```

```
unique(customer.df$VisitorType)
```

```
## [1] "Returning_Visitor" "New_Visitor" "Other"
```

```
unique(customer.df$Weekend)
```

```
## [1] FALSE TRUE
```

```
unique(customer.df$Revenue)
```

```
## [1] FALSE TRUE
```

### 4.3 Uniformity

## 5.0 Exploratory Data Analysis

### 5.1 Univariate Analysis

```
# checking the summary statistics of each column  
summary(customer.df)
```

```

## Administrative Administrative_Duration Informational
## Min. : 0.00 Min. : -1.00 Min. : 0.0000
## 1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.0000
## Median : 1.00 Median : 9.00 Median : 0.0000
## Mean : 2.34 Mean : 81.68 Mean : 0.5088
## 3rd Qu.: 4.00 3rd Qu.: 94.75 3rd Qu.: 0.0000
## Max. :27.00 Max. :3398.75 Max. :24.0000
## Informational_Duration ProductRelated ProductRelated_Duration
## Min. : -1.00 Min. : 0.00 Min. : -1.0
## 1st Qu.: 0.00 1st Qu.: 8.00 1st Qu.: 193.6
## Median : 0.00 Median : 18.00 Median : 609.5
## Mean : 34.84 Mean : 32.06 Mean : 1207.5
## 3rd Qu.: 0.00 3rd Qu.: 38.00 3rd Qu.: 1477.6
## Max. :2549.38 Max. :705.00 Max. :63973.5
## BounceRates ExitRates PageValues SpecialDay
## Min. :0.00000 Min. :0.00000 Min. : 0.000 Min. :0.00000
## 1st Qu.:0.00000 1st Qu.:0.01422 1st Qu.: 0.000 1st Qu.:0.00000
## Median :0.00293 Median :0.02500 Median : 0.000 Median :0.00000
## Mean :0.02045 Mean :0.04150 Mean : 5.952 Mean :0.06197
## 3rd Qu.:0.01667 3rd Qu.:0.04848 3rd Qu.: 0.000 3rd Qu.:0.00000
## Max. :0.20000 Max. :0.20000 Max. :361.764 Max. :1.00000
## Month OperatingSystems Browser Region
## Length:12199 Min. :1.000 Min. : 1.000 Min. :1.000
## Class :character 1st Qu.:2.000 1st Qu.: 2.000 1st Qu.:1.000
## Mode :character Median :2.000 Median : 2.000 Median :3.000
## Mean :2.124 Mean : 2.358 Mean :3.153
## 3rd Qu.:3.000 3rd Qu.: 2.000 3rd Qu.:4.000
## Max. :8.000 Max. :13.000 Max. :9.000
## TrafficType VisitorType Weekend Revenue
## Min. : 1.000 Length:12199 Mode :logical Mode :logical
## 1st Qu.: 2.000 Class :character FALSE:9343 FALSE:10291
## Median : 2.000 Mode :character TRUE :2856 TRUE :1908
## Mean : 4.075
## 3rd Qu.: 4.000
## Max. :20.000

```

The table above shows Mean, Median,mode, minimum, maximum, and quartiles of each columns.

```
# describing the columns
```

```
describe(customer.df)
```

```

## customer.df
##
## 18 Variables      12199 Observations
## -----
## Administrative
##      n missing distinct      Info      Mean      Gmd      .05      .10
## 12199         0       27  0.898    2.34    3.193         0         0
##      .25      .50      .75      .90      .95
##      0       1       4       7       9
##
## lowest : 0 1 2 3 4, highest: 22 23 24 26 27
## -----

```

```

## Administrative_Duration
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0      3336    0.896    81.68    125.8    0.00    0.00
##      .25      .50      .75      .90      .95
##      0.00      9.00     94.75    227.05    352.23
##
## lowest :   -1.000000    0.000000    1.333333    2.000000    3.000000
## highest: 2407.423810 2629.253968 2657.318056 2720.500000 3398.750000
## -----
## Informational
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0      17    0.516    0.5088    0.8763    0      0
##      .25      .50      .75      .90      .95
##      0      0      0      2      3
##
## lowest :  0  1  2  3  4, highest: 12 13 14 16 24
##
## Value      0      1      2      3      4      5      6      7      8      9     10
## Frequency  9569  1041   727   380   222   99   78   36   14   15    7
## Proportion 0.784 0.085 0.060 0.031 0.018 0.008 0.006 0.003 0.001 0.001 0.001
##
## Value      11      12      13      14      16      24
## Frequency    1      5      1      2      1      1
## Proportion 0.000 0.000 0.000 0.000 0.000 0.000
## -----
## Informational_Duration
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0     1259    0.488    34.84    64.71    0      0
##      .25      .50      .75      .90      .95
##      0      0      0      74     199
##
## lowest :   -1.000    0.000    1.000    1.500    2.000
## highest: 2166.500 2195.300 2252.033 2256.917 2549.375
## -----
## ProductRelated
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0      311    0.999    32.06    36.51    2      3
##      .25      .50      .75      .90      .95
##      8      18      38      74     110
##
## lowest :  0  1  2  3  4, highest: 518 534 584 686 705
## -----
## ProductRelated_Duration
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0     9552    1     1208    1491    0.0    44.4
##      .25      .50      .75      .90      .95
##    193.6    609.5   1477.6   2905.0   4313.5
##
## lowest :   -1.000000    0.000000    0.500000    1.000000    2.333333
## highest: 24844.156200 27009.859430 29970.465970 43171.233380 63973.522230
## -----
## BounceRates
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0     1872    0.908    0.02045  0.03289  0.00000  0.00000

```

```

##      .25      .50      .75      .90      .95
## 0.00000 0.00293 0.01667 0.05000 0.15000
##
## lowest : 0.0000000 0.0000273 0.0000335 0.0000383 0.0000394
## highest: 0.1750000 0.1769231 0.1800000 0.1833333 0.2000000
## -----
## ExitRates
##      n missing distinct      Info      Mean      Gmd      .05      .10
## 12199      0      4777      1 0.0415 0.04232 0.004545 0.007407
##      .25      .50      .75      .90      .95
## 0.014223 0.025000 0.048485 0.100000 0.175000
##
## lowest : 0.000000000 0.000175593 0.000250438 0.000262123 0.000263158
## highest: 0.183333333 0.186666667 0.188888889 0.192307692 0.200000000
## -----
## PageValues
##      n missing distinct      Info      Mean      Gmd      .05      .10
## 12199      0      2704 0.532 5.953 10.65 0.00 0.00
##      .25      .50      .75      .90      .95
## 0.00 0.00 0.00 19.12 38.31
##
## lowest : 0.00000000 0.03803454 0.06704955 0.09354695 0.09862140
## highest: 261.49128570 270.78469310 287.95379280 360.95338390 361.76374190
## -----
## SpecialDay
##      n missing distinct      Info      Mean      Gmd
## 12199      0      6 0.277 0.06197 0.1142
##
## lowest : 0.0 0.2 0.4 0.6 0.8, highest: 0.2 0.4 0.6 0.8 1.0
##
## Value      0.0 0.2 0.4 0.6 0.8 1.0
## Frequency 10950 178 243 350 324 154
## Proportion 0.898 0.015 0.020 0.029 0.027 0.013
## -----
## Month
##      n missing distinct
## 12199      0      10
##
## lowest : Aug Dec Feb Jul June, highest: Mar May Nov Oct Sep
##
## Value      Aug Dec Feb Jul June Mar May Nov Oct Sep
## Frequency 433 1706 182 432 285 1853 3328 2983 549 448
## Proportion 0.035 0.140 0.015 0.035 0.023 0.152 0.273 0.245 0.045 0.037
## -----
## OperatingSystems
##      n missing distinct      Info      Mean      Gmd
## 12199      0      8 0.828 2.124 0.8615
##
## lowest : 1 2 3 4 5, highest: 4 5 6 7 8
##
## Value      1 2 3 4 5 6 7 8
## Frequency 2548 6536 2530 478 6 19 7 75
## Proportion 0.209 0.536 0.207 0.039 0.000 0.002 0.001 0.006
## -----

```

```

## Browser
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0      13    0.723    2.358    1.316      1      1
##      .25      .50      .75      .90      .95
##      2      2      2      4      5
##
## lowest : 1 2 3 4 5, highest: 9 10 11 12 13
##
## Value      1      2      3      4      5      6      7      8      9      10      11
## Frequency  2426  7878   105   730   466   174    49   135     1   163     6
## Proportion 0.199 0.646 0.009 0.060 0.038 0.014 0.004 0.011 0.000 0.013 0.000
##
## Value      12      13
## Frequency    10     56
## Proportion 0.001 0.005
## -----
## Region
##      n missing distinct      Info      Mean      Gmd
##    12199      0      9    0.933    3.153    2.553
##
## lowest : 1 2 3 4 5, highest: 5 6 7 8 9
##
## Value      1      2      3      4      5      6      7      8      9
## Frequency  4711  1127  2382  1168   317   800   758   431   505
## Proportion 0.386 0.092 0.195 0.096 0.026 0.066 0.062 0.035 0.041
## -----
## TrafficType
##      n missing distinct      Info      Mean      Gmd      .05      .10
##    12199      0      20    0.954    4.075    3.735      1      1
##      .25      .50      .75      .90      .95
##      2      2      4      11     13
##
## lowest : 1 2 3 4 5, highest: 16 17 18 19 20
##
## Value      1      2      3      4      5      6      7      8      9      10      11
## Frequency  2383  3907  2017  1066   260   443   40   343   41   450   247
## Proportion 0.195 0.320 0.165 0.087 0.021 0.036 0.003 0.028 0.003 0.037 0.020
##
## Value      12      13      14      15      16      17      18      19      20
## Frequency    1    728    13     36     3      1    10    17   193
## Proportion 0.000 0.060 0.001 0.003 0.000 0.000 0.001 0.001 0.016
## -----
## VisitorType
##      n missing distinct
##    12199      0      3
##
## Value      New_Visitor      Other Returning_Visitor
## Frequency      1693      81      10425
## Proportion      0.139      0.007      0.855
## -----
## Weekend
##      n missing distinct
##    12199      0      2
##

```

```
## Value      FALSE  TRUE
## Frequency  9343  2856
## Proportion 0.766 0.234
## -----
## Revenue
##      n  missing distinct
## 12199      0         2
##
## Value      FALSE  TRUE
## Frequency 10291  1908
## Proportion 0.844 0.156
## -----
```

Number of rows,Standard deviation,Trimmed mean,Mean absolute deviation,Skewness,Kurtosis ,frequency and Standard error of each column are displayed above.

```
sapply(customer.df[,c(1:10)],skewness)
```

```
##      Administrative Administrative_Duration      Informational
##      1.946248      5.590210      4.013451
## Informational_Duration      ProductRelated ProductRelated_Duration
##      7.537435      4.332134      7.251403
##      BounceRates      ExitRates      PageValues
##      3.152874      2.233125      6.348663
##      SpecialDay
##      3.284481
```

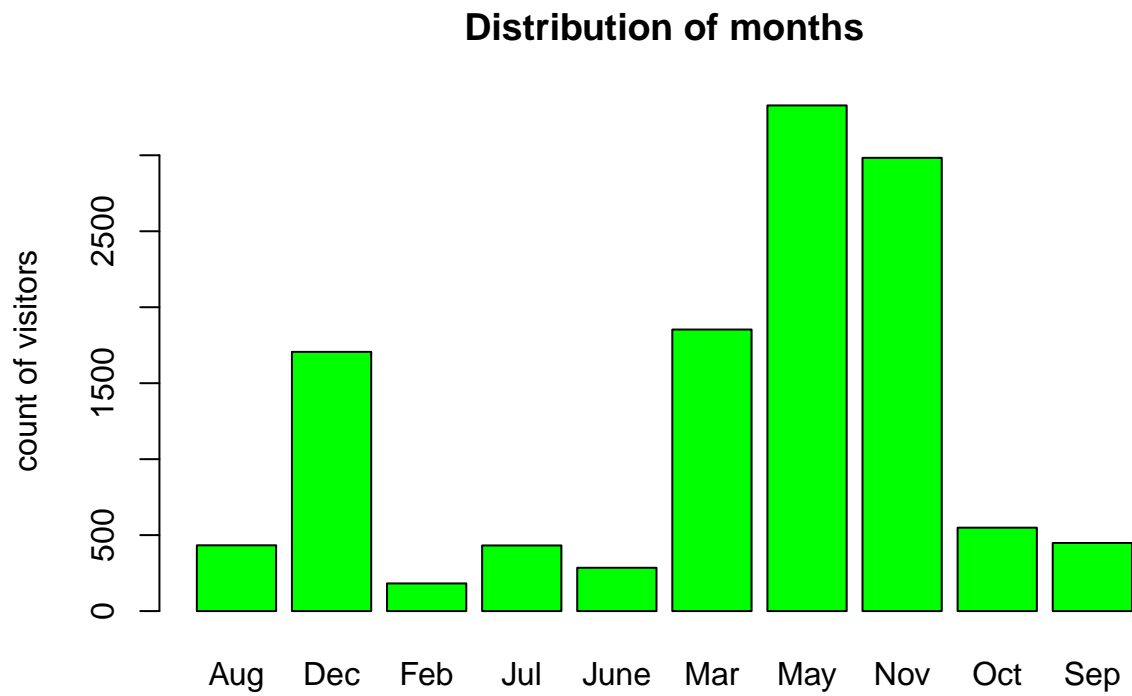
The variables are highly skewed

```
# Checking for the kurtosis
sapply(customer.df[,c(1:10)],kurtosis)
```

```
##      Administrative Administrative_Duration      Informational
##      7.636106      53.093885      29.642540
## Informational_Duration      ProductRelated ProductRelated_Duration
##      78.464088      34.049027      139.590792
##      BounceRates      ExitRates      PageValues
##      12.255064      7.624252      67.940307
##      SpecialDay
##      12.786054
```

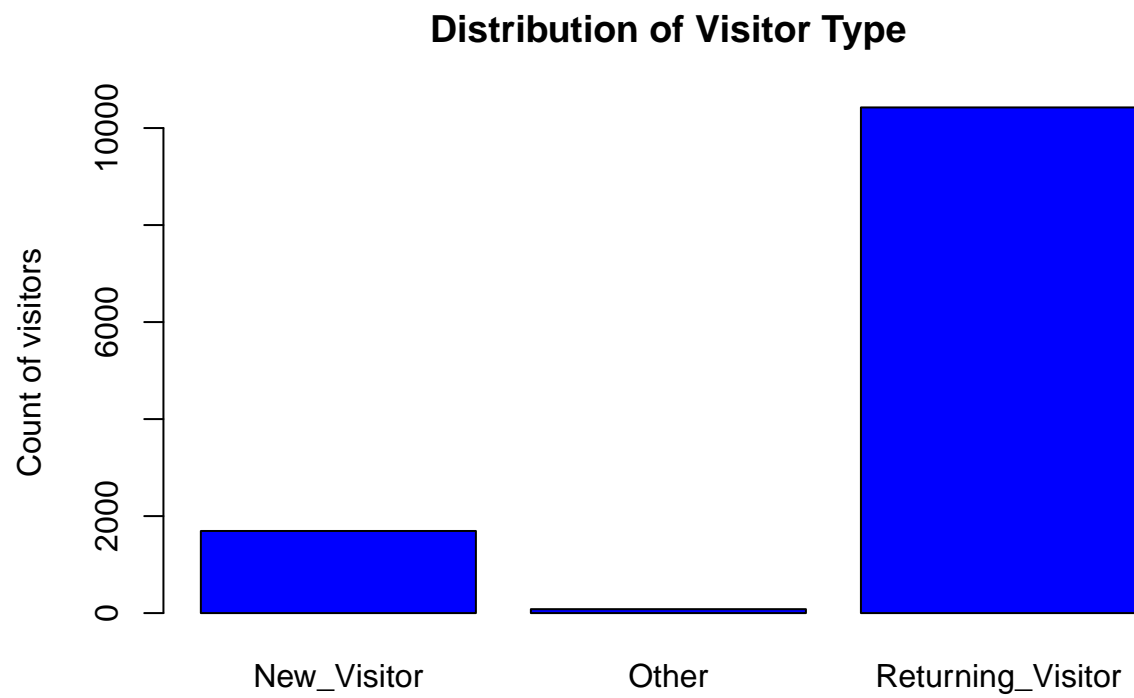
```
barplot(table(customer.df$Month),main="Distribution of months",col = "green",ylab = "count of visitors")
```





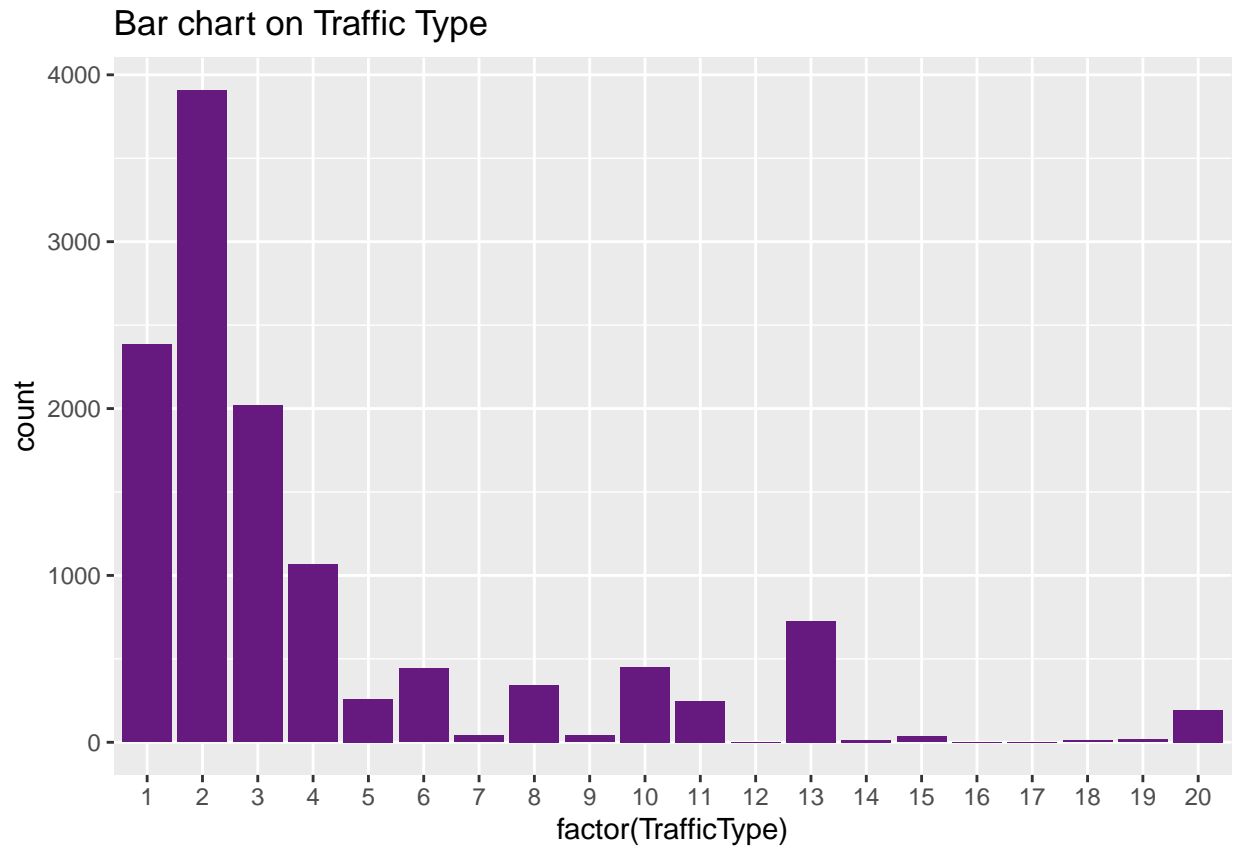
May has the highest visitors followed November, March and December while February has the lowest count of visitors.

```
barplot(table(customer.df$VisitorType),main="Distribution of Visitor Type",col = "blue",ylab = "Count o
```



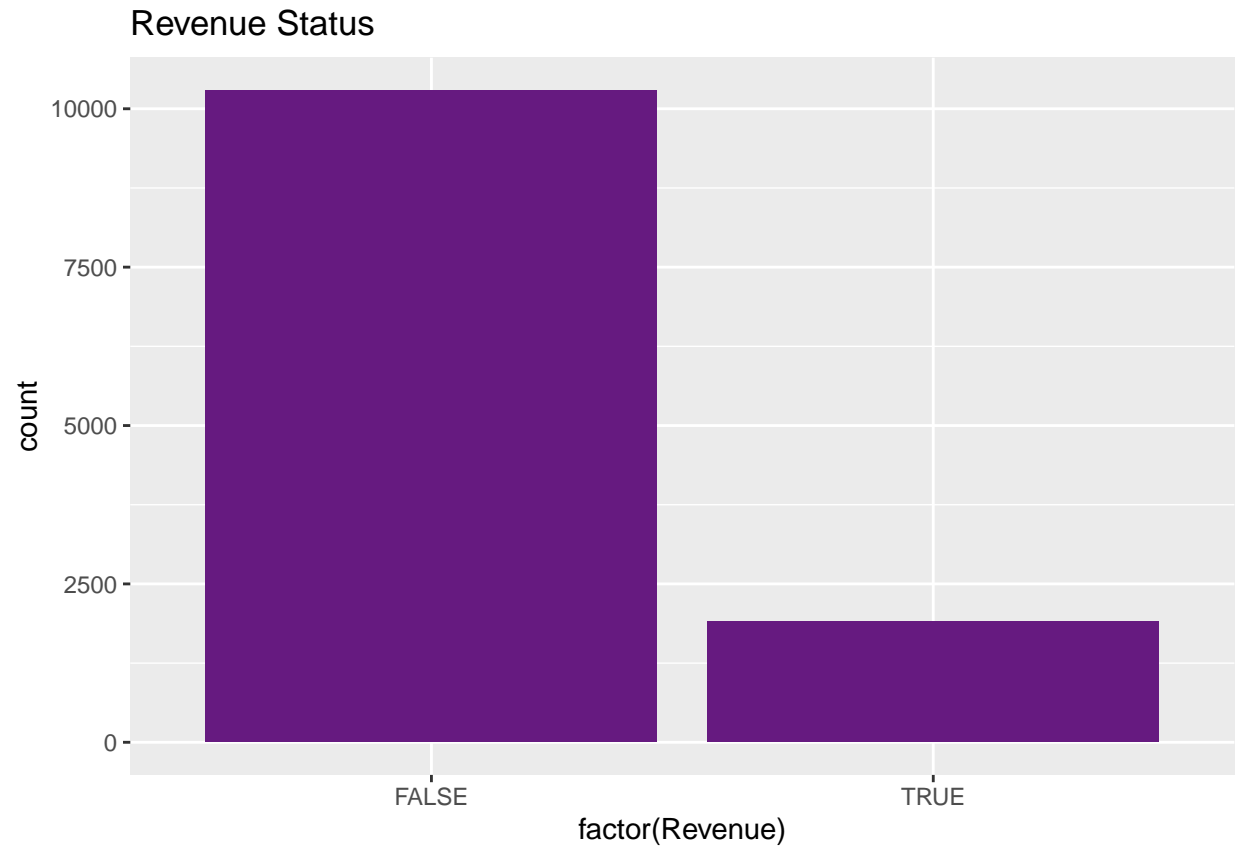
The number of returning customers is higher than new customers.

```
ggplot(customer.df, aes(x=factor(`TrafficType`))) + geom_bar( fill=rgb(0.4,0.1,0.5)) +  
  labs(title="Bar chart on Traffic Type")
```



Most popular traffic type is 2.

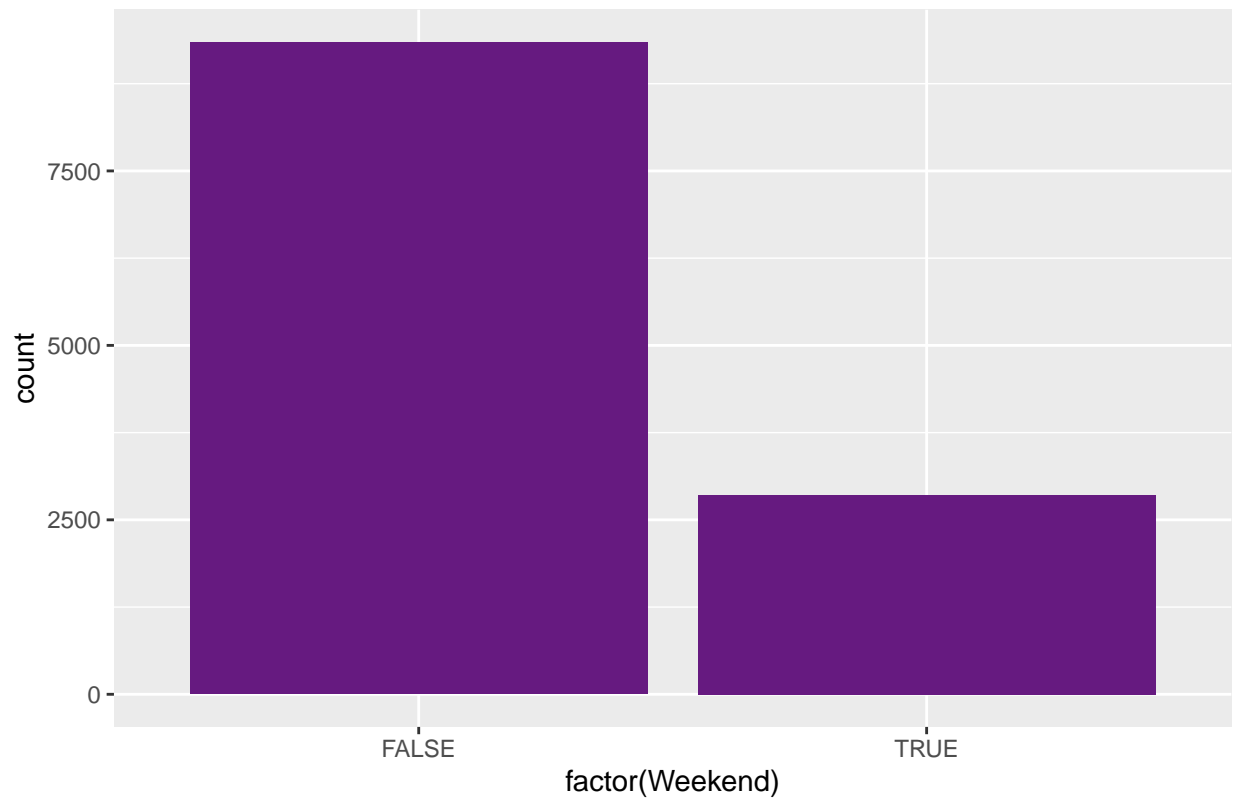
```
ggplot(customer.df, aes(x=factor(`Revenue`))) + geom_bar( fill=rgb(0.4,0.1,0.5)) +  
  labs(title="Revenue Status")
```



Most users not translating their activity on site to revenue.

```
ggplot(customer.df, aes(x=factor(`Weekend`))) + geom_bar( fill=rgb(0.4,0.1,0.5)) +  
  labs(title="Day of the week in response to how often the site was visited")
```

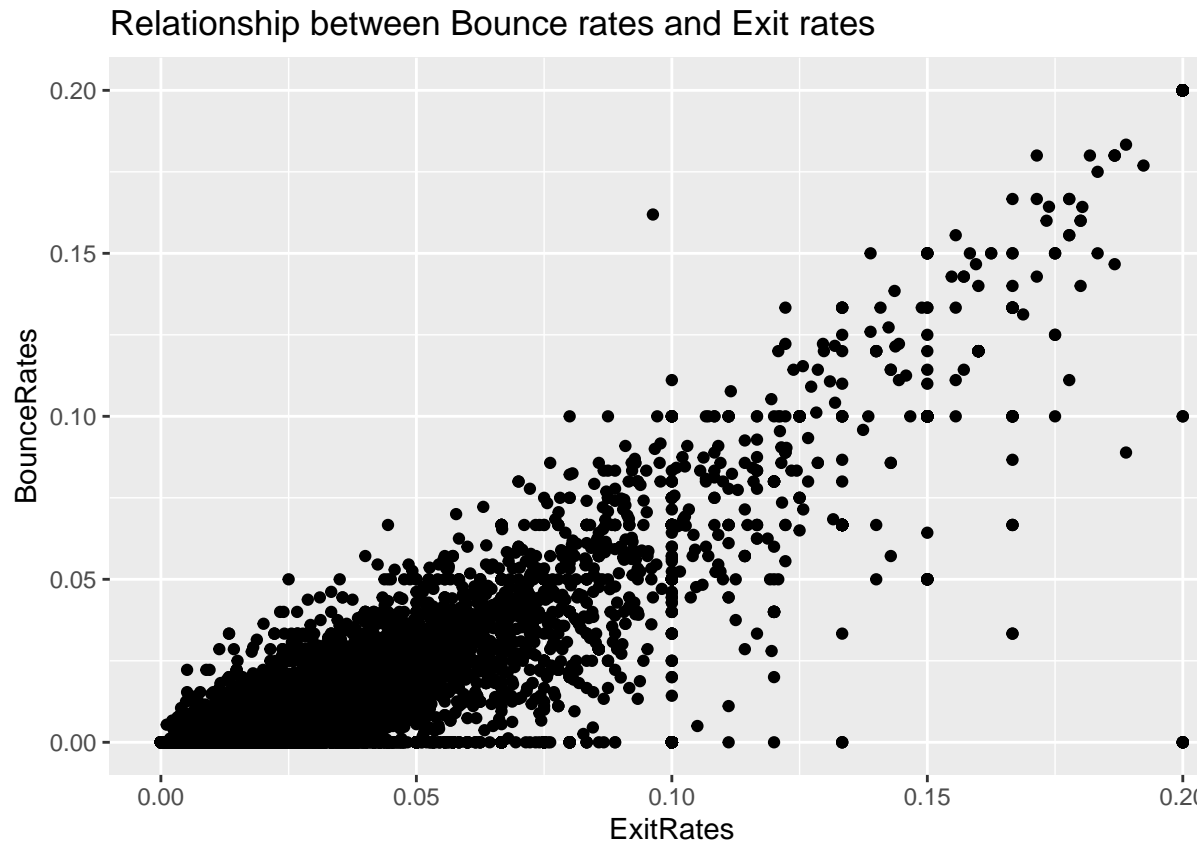
Day of the week in response to how often the site was visited



Most people visit the site during weekdays rather than on weekends.

## 6.0 Bivariate analysis

```
ggplot(customer.df, aes(x = ExitRates , y = BounceRates )) + geom_point()+  
  labs(title="Relationship between Bounce rates and Exit rates")
```

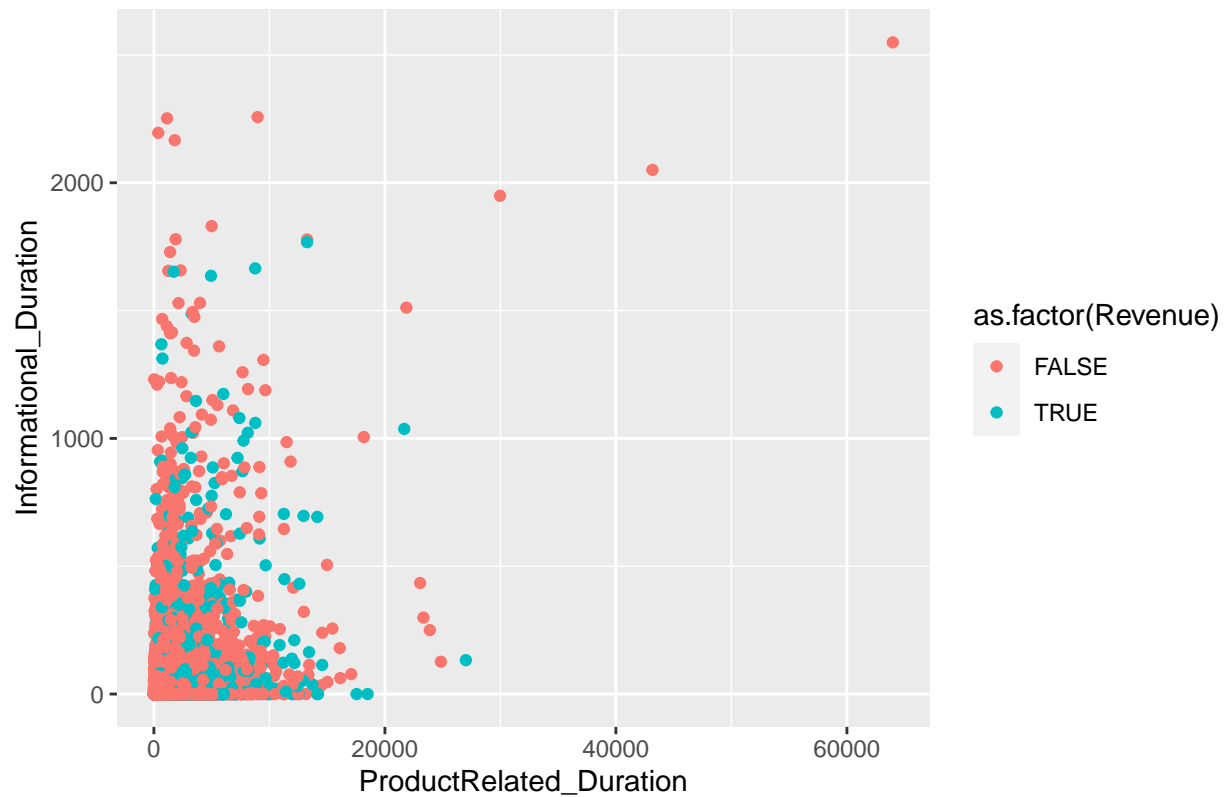


#### 6.1 Scatter Plots

There is a high positive correlation between Bounce and exit rates. This shows that users who bounce from one page to another are most likely to exit the site quicker.

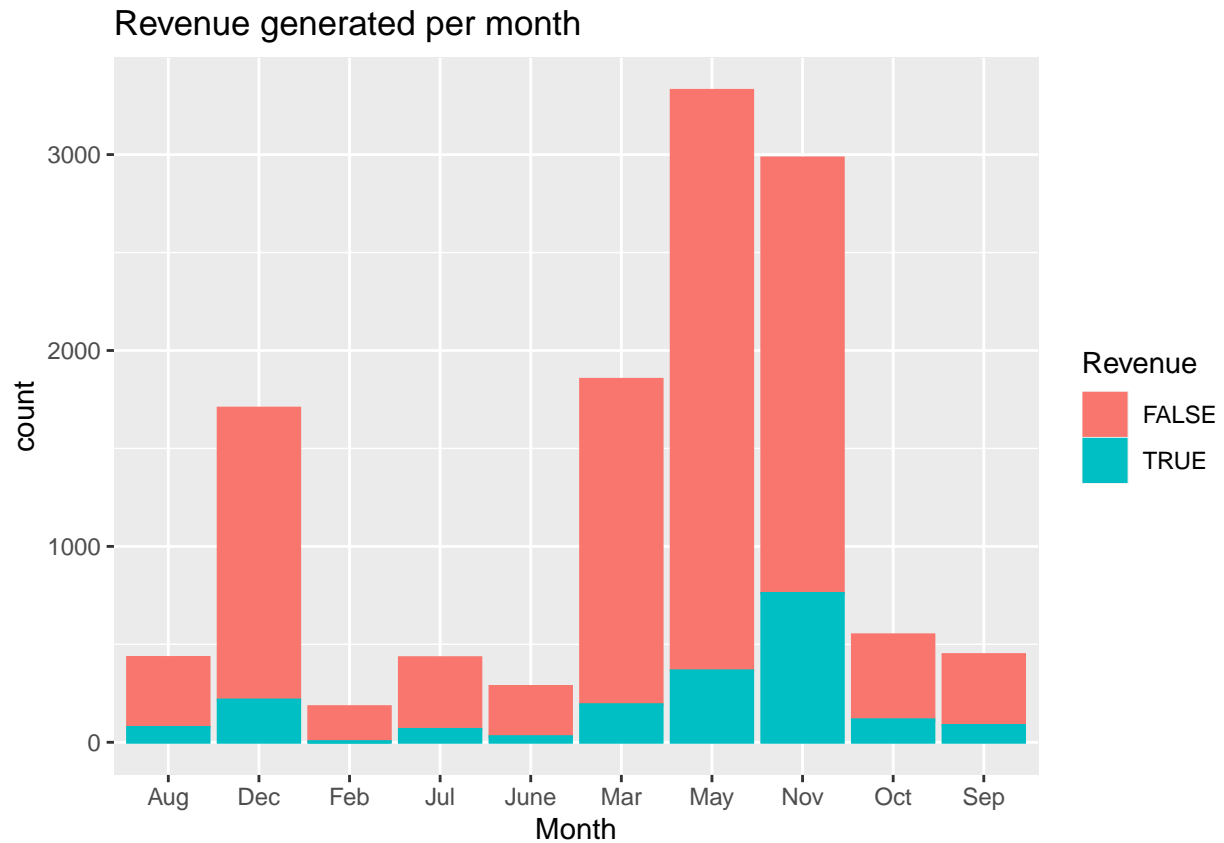
```
ggplot(customer.df, aes(x=ProductRelated_Duration, y = Informational_Duration )) + geom_point(aes(color=revenue)) +  
labs(title="ProductRelated_Duration vs Informational_Duration based on revenue")
```

ProductRelated\_Duration vs Informational\_Duration based on revenue



Informational and product related duration show that most users are less likely to pay revenue. there is a less relationship between information and product related duration.

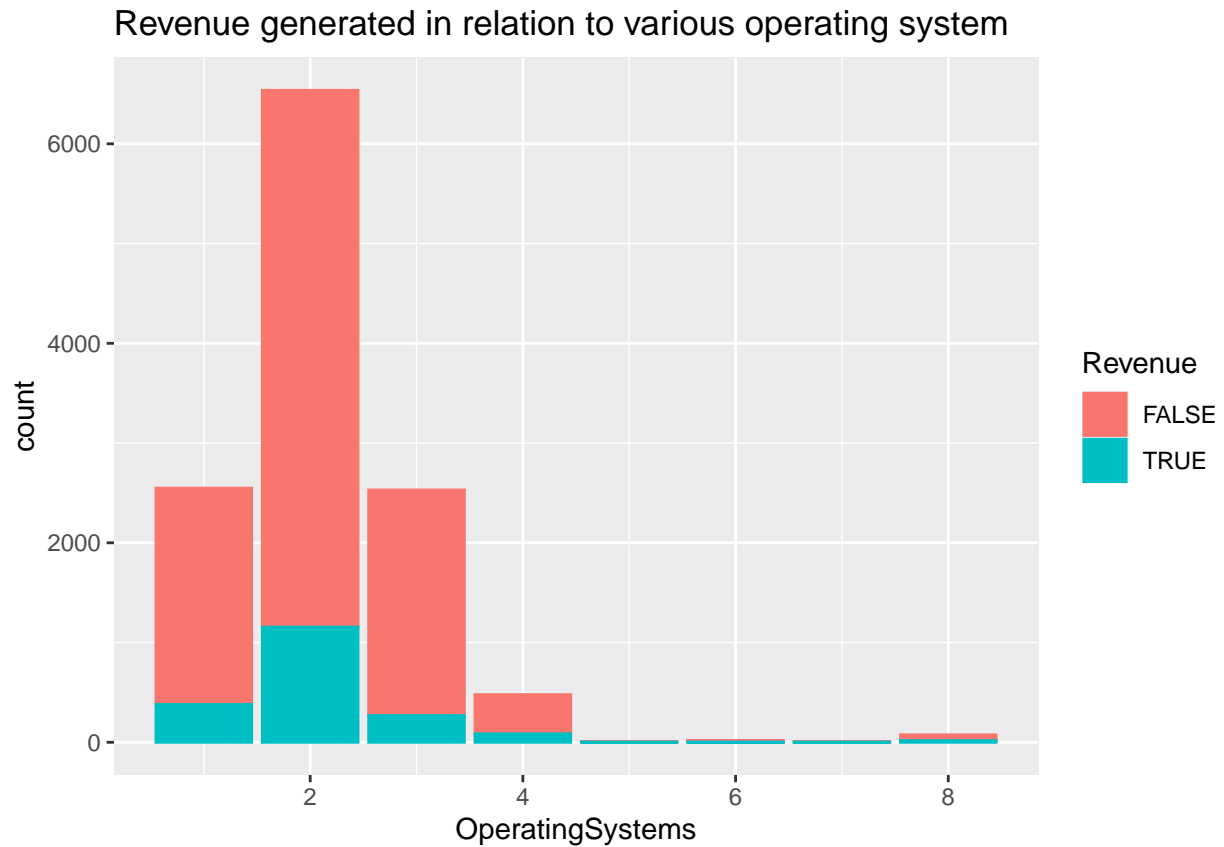
```
# Months vs Generating Revenue
ggplot(customer.df, aes(Month, color=Revenue, fill=Revenue)) +
  geom_bar()+
  labs(title="Revenue generated per month")
```



The month of November, may, December are the months which generate significantly more revenue for the business.

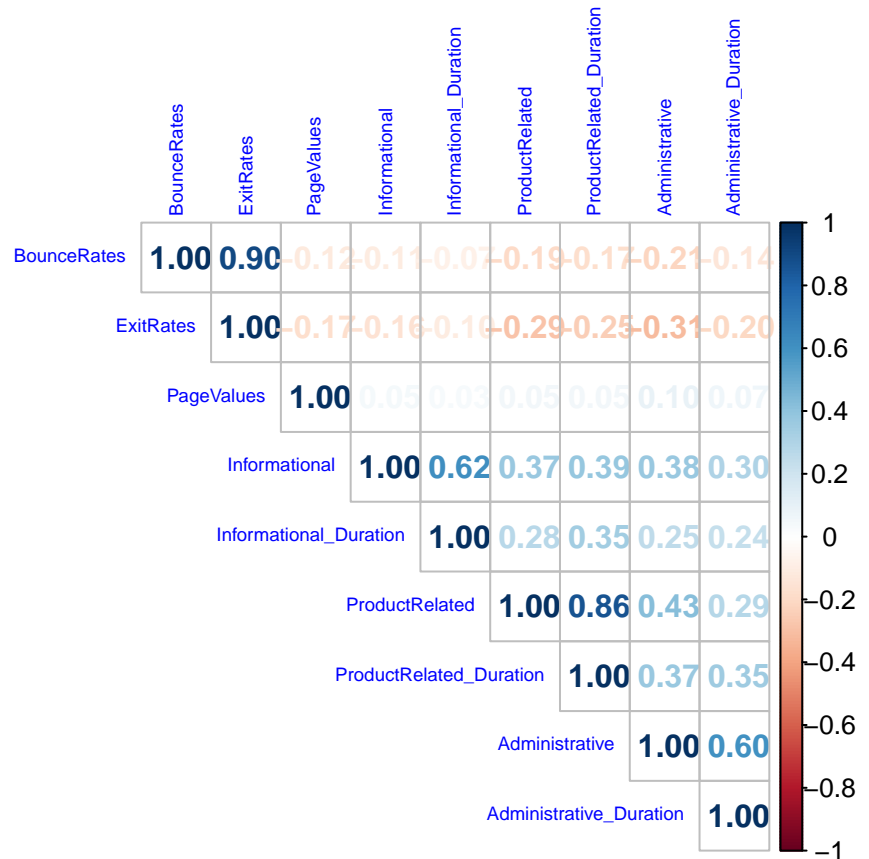
```
# Operating systems vs Generating Revenue
ggplot(customer.df, aes(OperatingSystems, color=Revenue, fill=Revenue)) +
  geom_bar()+
  labs(title = "Revenue generated in relation to various operating system")
```





Users of type 2 Operating System generated most revenue for the site followed by 1.

```
# calculating correlations and plotting a correlation plot
corrplot(corr = cor(customer.df[, c(1:9)]), method = "number", type = "upper", order = "hclust", tl.col
```



## 6.2 Heat map

There is a strong correlation of 0.9 between bounce rates and exit rates indicating a strong relationship. Other variables sites were strongly correlated with how much time was spent in them

## 7.0 Implementation using Clustering

```
# converting our categorical data to numerical data type
# Convert our variables to factor datatype
customer.df$Month <- as.factor(customer.df$Month)
customer.df$VisitorType <- as.factor(customer.df$TrafficType)
customer.df$Weekend <- as.factor(customer.df$Weekend)
customer.df$Revenue <- as.factor(customer.df$Revenue)
```

```
# Convert variables from factor to numeric datatype
customer.df$Month <- as.numeric(customer.df$Month)
customer.df$VisitorType <- as.numeric(customer.df$TrafficType)
customer.df$Weekend <- as.numeric(customer.df$Weekend)
customer.df$Revenue <- as.numeric(customer.df$Revenue)
```

```
# Let's scale our data
customer.df.scl <- scale(customer.df[, -18])
```

```
head(customer.df.scl)
```

## Label encoding

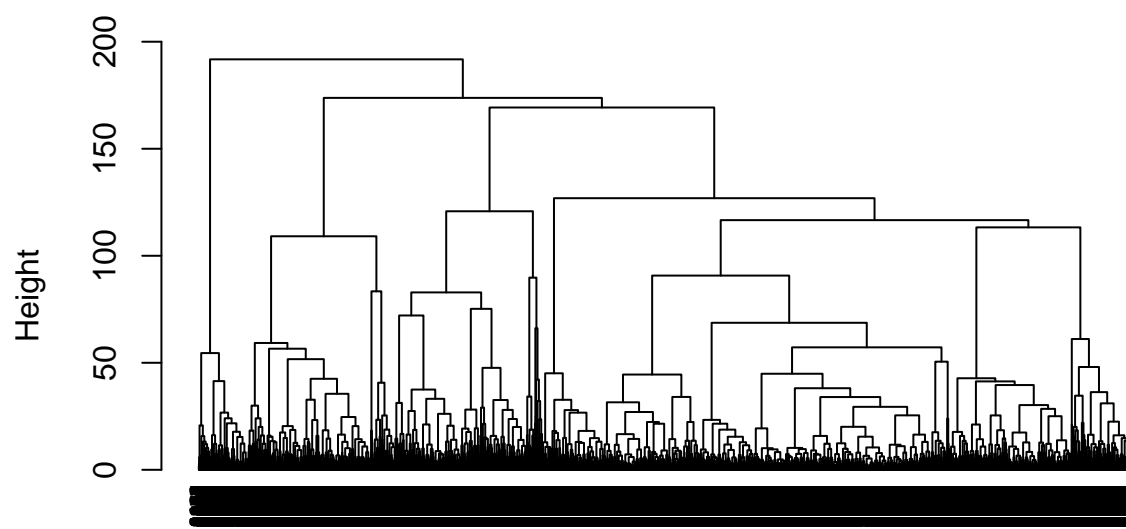
```
##      Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.7025315          -0.4601081      -0.3988128          -0.2462725
## 2      -0.7025315          -0.4601081      -0.3988128          -0.2462725
## 3      -0.7025315          -0.4657410      -0.3988128          -0.2533417
## 4      -0.7025315          -0.4601081      -0.3988128          -0.2462725
## 5      -0.7025315          -0.4601081      -0.3988128          -0.2462725
## 6      -0.7025315          -0.4601081      -0.3988128          -0.2462725
##      ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1      -0.6963635          -0.6289343      3.954699721      3.4273070 -0.3190356
## 2      -0.6739424          -0.5955997      -0.450343788      1.2650121 -0.3190356
## 3      -0.6963635          -0.6294551      3.954699721      3.4273070 -0.3190356
## 4      -0.6739424          -0.6275453      0.650917089      2.1299300 -0.3190356
## 5      -0.4945739          -0.3020990      -0.009839437      0.1838646 -0.3190356
## 6      -0.2927843          -0.5486101      -0.102577188      -0.3661929 -0.3190356
##      SpecialDay      Month OperatingSystems      Browser      Region TrafficType
## 1 -0.3103105 -1.333953      -1.2396607 -0.7939682 -0.8962939 -0.76562243
## 2 -0.3103105 -1.333953      -0.1371074 -0.2093703 -0.8962939 -0.51660683
## 3 -0.3103105 -1.333953      2.0679992 -0.7939682 2.4336556 -0.26759123
## 4 -0.3103105 -1.333953      0.9654459 -0.2093703 -0.4800502 -0.01857564
## 5 -0.3103105 -1.333953      0.9654459 0.3752276 -0.8962939 -0.01857564
## 6 -0.3103105 -1.333953      -0.1371074 -0.2093703 -0.8962939 -0.26759123
##      VisitorType      Weekend
## 1 -0.76562243 -0.5528638
## 2 -0.51660683 -0.5528638
## 3 -0.26759123 -0.5528638
## 4 -0.01857564 -0.5528638
## 5 -0.01857564 1.8086156
## 6 -0.26759123 -0.5528638
```

## 7.1 Hierarchical clustering

```
# computing the distance metrics
d <- dist(customer.df.scl, method="euclidean")
# Clustering algorithm deployment
model <- hclust(d, method="ward.D2")
```

```
# viewing the dendrogram
plot(model, cex=0.6, hang=-1)
```

## Cluster Dendrogram



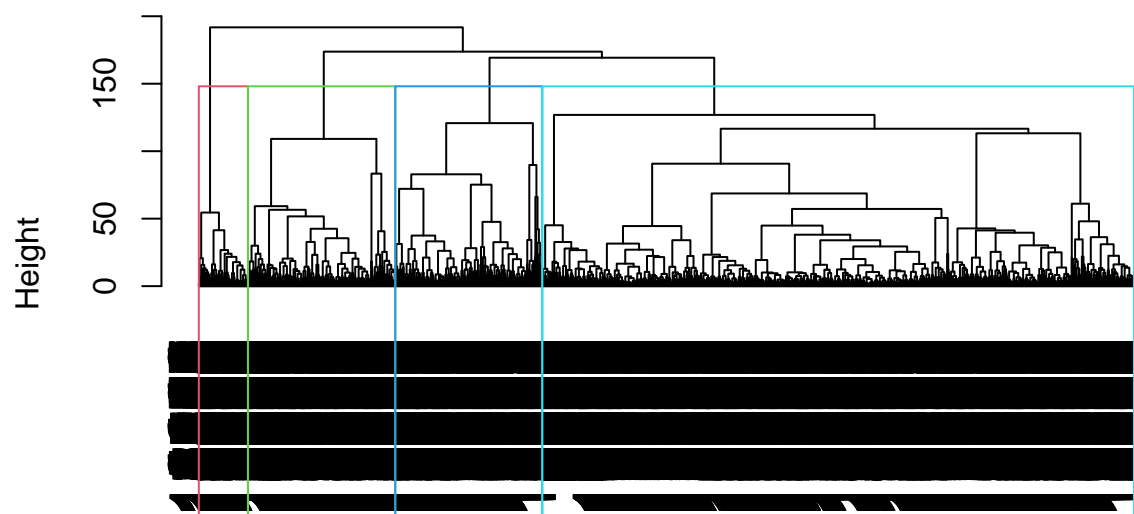
d  
hclust (\*, "ward.D2")

```
# Ward's method
hc <- hclust(d, method="ward.D2")
# cut the tree into 5 parts
sub_grp <- cutree(hc, k=4)
table(sub_grp)
```

```
## sub_grp
##      1      2      3      4
## 641 7719 1917 1922
```

```
plot(hc, cex=2, hang=-1 )
rect.hclust(hc, k=4, border=2:5)
```

## Cluster Dendrogram



d  
hclust (\*, "ward.D2")

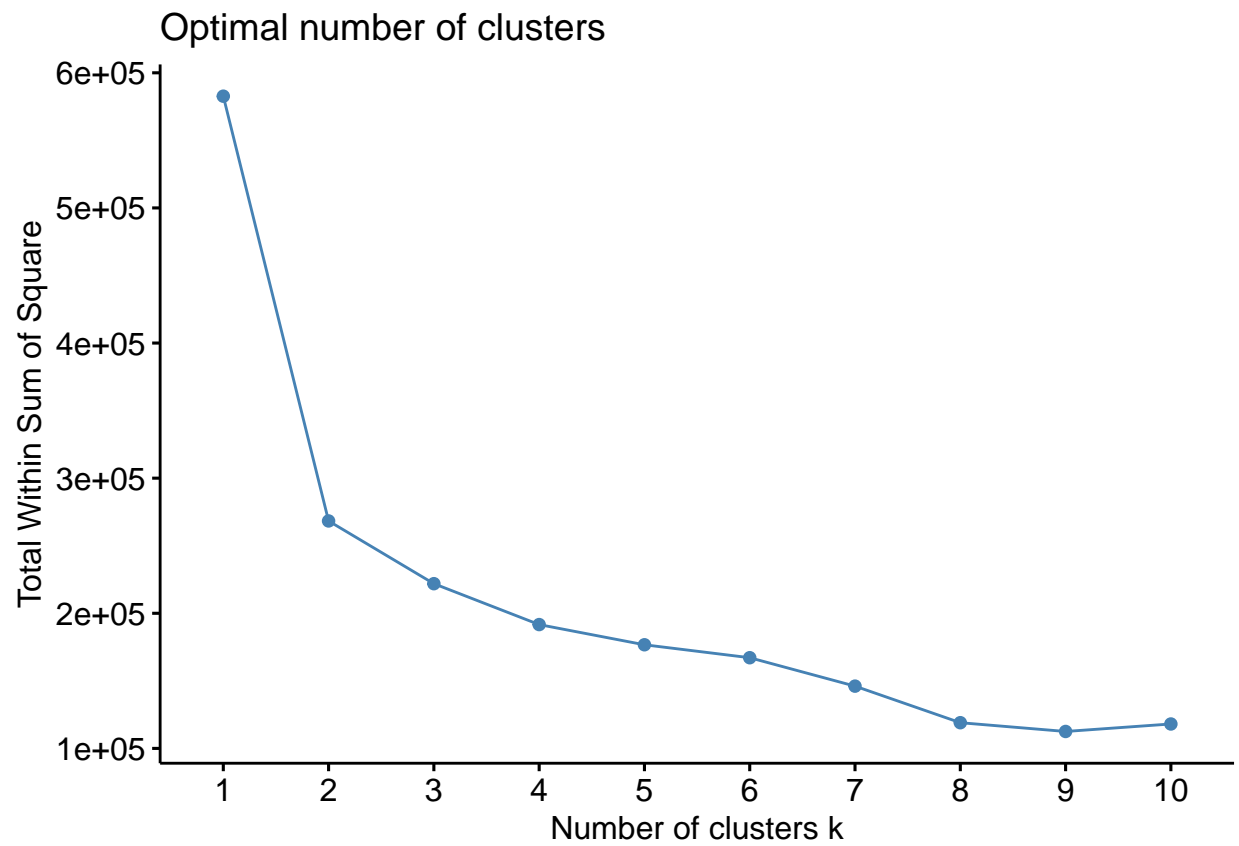
## 7.2 K-Clustering

```
# Normalizing the dataset so that no particular attribute
# has more impact on clustering algorithm than others.
# ---
#
x <- customer.df[, -18]
normalize <- function(x){
  return ((x-min(x)) / (max(x)-min(x)))
}

x$Administrative <- normalize(x$Administrative)
x$Administrative_Duration <- normalize(x$Administrative_Duration)
x$Informational <- normalize(x$Informational)
x$Informational_Duration <- normalize(x$Informational_Duration)
x$ProductRelated <- normalize(x$ProductRelated)
x$ProductRelated_Duration <- normalize(x$ProductRelated_Duration)
x$BounceRates <- normalize(x$BounceRates)
x$ExitRates <- normalize(x$ExitRates)
x$PageValues <- normalize(x$PageValues)
x$SpecialDay <- normalize(x$SpecialDay)
```

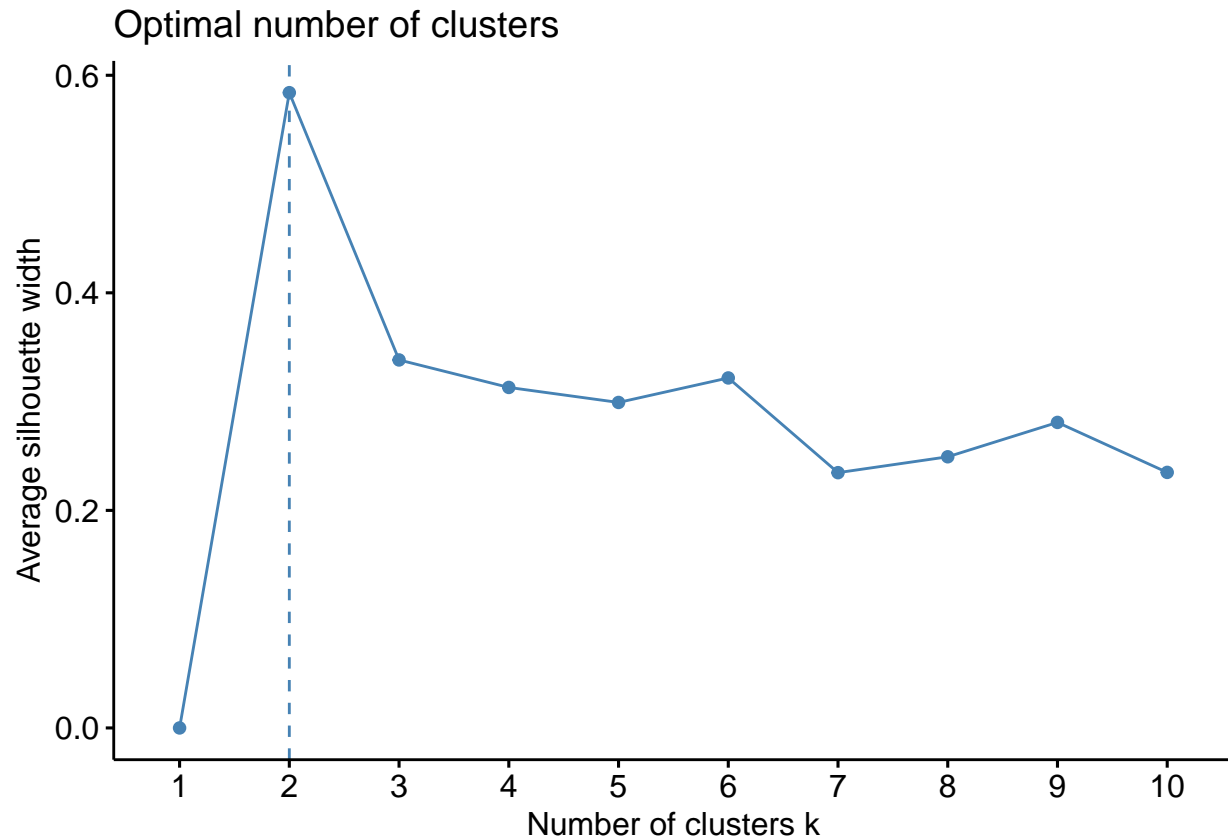
```
# finding optimum k using elbow method
```

```
fviz_nbclust(x, kmeans, method="wss")
```



```
# silhouette method
```

```
fviz_nbclust(x, kmeans, method="silhouette")
```



```
# Using 3 clusters
k <- kmeans(x, centers=3, nstart=25)
```

We will use Elbow Method cluster ,k=3 is more of a decision rule

```
# compute gap statistic
library(cluster)
set.seed(42)
gap.km <- clusGap(x <- customer.df[, -18], FUN = kmeans, K.max = 15, nstart = 25,
                  B = 5)
```

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
```

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
```

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
```

```
## Warning: did not converge in 10 iterations
```

```
## Warning: did not converge in 10 iterations
```

```
## Warning: did not converge in 10 iterations
```

```
## Warning: did not converge in 10 iterations
```

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: did not converge in 10 iterations

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)



[illegible]

[illegible]

[illegible]

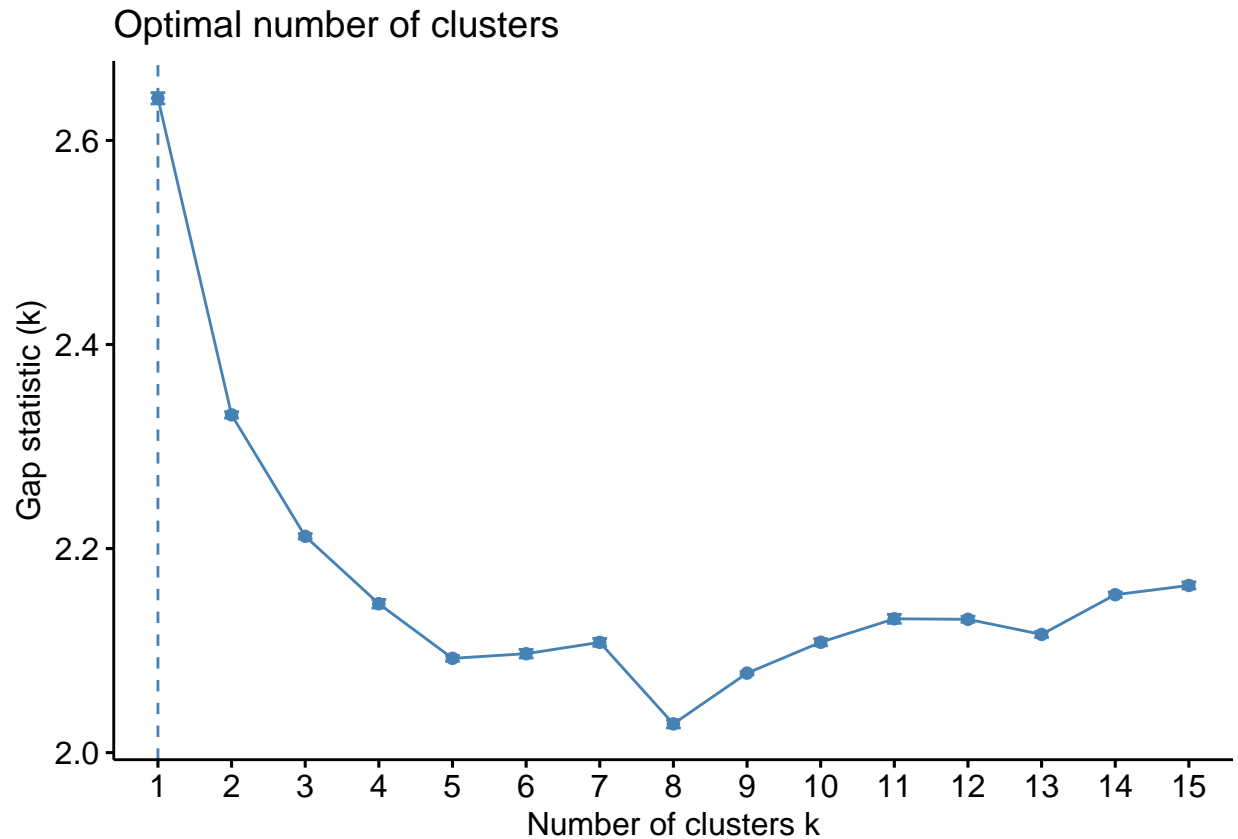
[illegible]

[illegible]

[illegible]

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
```

```
fviz_gap_stat(gap.km)
```



## Conclusion

- Traffic type 2 had in the most visitors. Some of the traffic types did not bring in any visitors for all the months under analysis.
- Visitors to the site are mostly returning visitors. A good indicator of customer satisfaction.
- Return customers are the main source of revenue Most purchases were made in November. This makes sense because of the festive season in December.
- Most purchases happens on weekdays rather than on weekends. Most adverts should be running on weekdays as well as offers.
- Model: Hierarchical clustering the model does not show clear clusters when the dataset is large compared to K-Means thus would advocate use of K-Means