

Untitled

Define the question

Identifying the different characteristics of customer groups.

The metric for success

Successfully identifying the customers who are most likely to click on Ad

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. More specifically, they would like to learn the characteristics of customer groups.

Experimental design taken

1. Problem Definition
2. Data Sourcing
3. Check the Data
4. Perform Data Cleaning
5. Perform Exploratory Data Analysis (Univariate, Bivariate & Multivariate)
6. Implement the Solution
7. Challenge the Solution
8. Follow up Questions

The appropriateness of the available data

The data provided is sufficient to carry out our analysis.

Importing the libraries we need

```
library("Amelia")
```

```
## Loading required package: Rcpp
## ##
## ## Amelia II: Multiple Imputation
## ## (Version 1.8.0, built: 2021-05-26)
## ## Copyright (C) 2005-2022 James Honaker, Gary King and Matthew Blackwell
## ## Refer to http://gking.harvard.edu/amelia/ for more information
## ##
```

```
library("mice")
```

```
##
## Attaching package: 'mice'
## The following object is masked from 'package:stats':
##
##     filter
## The following objects are masked from 'package:base':
##
##     cbind, rbind
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##     filter, lag
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(tidyr)
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
library(ggplot2)
library("factoextra")
```

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

```
library("cluster")
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
## The following object is masked from 'package:dplyr':
##
##     combine
```

Loading the dataset.

```
econ_df = read.csv("http://bit.ly/EcommerceCustomersDataset")
View(econ_df)
```

Checking the data

```
# Checking for the first 6 rows
head(econ_df)
```

```
##   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 0.20000000 0
## 2          2          64.000000 0.00000000 0.10000000 0
## 3          1          -1.000000 0.20000000 0.20000000 0
## 4          2          2.666667 0.05000000 0.14000000 0
## 5         10          627.500000 0.02000000 0.05000000 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 the first 6 rows
tail(econ_df)
```

```
##      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

# Viewing the structure of the dataset
# ---
#
str(econ_df)

## '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                 : Factor w/ 10 levels "Aug","Dec","Feb",...: 3 3 3 3 3 3 3 3 3 3 ...
## $ 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           : Factor w/ 3 levels "New_Visitor",...: 3 3 3 3 3 3 3 3 3 3 ...
## $ Weekend               : logi  FALSE FALSE FALSE FALSE TRUE FALSE ...
## $ Revenue               : logi  FALSE FALSE FALSE FALSE FALSE FALSE ...
```

We have 12330 rows and 18 columns

```
# Checking whether each column has an appropriate datatype
```

```
sapply(econ_df, class)
```

```
##      Administrative Administrative_Duration      Informational
##      "integer"          "numeric"          "integer"
## Informational_Duration      ProductRelated ProductRelated_Duration
##      "numeric"          "integer"          "numeric"
##      BounceRates          ExitRates          PageValues
##      "numeric"          "numeric"          "numeric"
##      SpecialDay          Month      OperatingSystems
##      "numeric"          "factor"          "integer"
##      Browser          Region      TrafficType
##      "integer"          "integer"          "integer"
##      VisitorType      Weekend      Revenue
##      "factor"          "logical"          "logical"
```

```
# Checking the unique values in the each of the columns
```

```
sapply(econ_df, unique)
```

```
## $Administrative
## [1] 0 1 2 4 12 3 10 6 5 9 8 16 13 11 7 18 14 17 19 15 NA 24 22 21 20
## [26] 23 27 26
##
## $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	NA	160.095238	177.166667	196.000000
##	[337]	231.000000	1011.361111	464.000000	80.428571	61.500000	243.000000
##	[343]	210.666667	156.142857	282.000000	512.833333	73.500000	184.688889
##	[349]	75.166667	302.000000	117.333333	204.083333	98.000000	600.423077
##	[355]	132.000000	152.833333	710.333333	83.500000	848.142857	130.833333
##	[361]	281.630952	160.000000	31.333333	81.000000	91.000000	85.500000
##	[367]	36.333333	110.250000	155.500000	487.500000	376.800000	985.500000
##	[373]	606.000000	1640.590909	228.027778	136.555556	1.333333	310.000000
##	[379]	1417.500000	960.000000	106.000000	91.888889	139.500000	178.000000
##	[385]	180.000000	107.333333	211.000000	69.000000	183.250000	613.666667
##	[391]	11.923077	1499.571429	1223.000000	206.333333	67.000000	242.000000
##	[397]	217.833333	136.666667	739.209195	91.833333	89.750000	165.500000
##	[403]	134.000000	67.071429	17.500000	69.333333	85.000000	103.000000
##	[409]	69.500000	171.000000	64.142857	143.000000	221.000000	124.000000
##	[415]	75.000000	219.000000	60.833333	182.648052	154.291667	108.200000
##	[421]	1559.750000	249.166667	65.000000	143.166667	102.533333	197.800000
##	[427]	31.500000	81.250000	149.250000	172.200000	523.916667	377.833333
##	[433]	129.416667	298.666667	876.233333	129.750000	408.200000	24.428571
##	[439]	52.333333	382.833333	27.500000	475.000000	210.000000	46.000000
##	[445]	546.000000	47.500000	48.333333	28.500000	250.333333	77.333333
##	[451]	63.333333	108.666667	230.166667	79.750000	2047.234848	14.500000
##	[457]	11.428571	348.654762	187.833333	184.333333	66.000000	412.000000
##	[463]	1130.502941	132.466667	82.000000	236.000000	158.333333	170.000000
##	[469]	217.666667	699.166667	227.532692	78.000000	4.750000	101.333333
##	[475]	190.285714	15.666667	183.000000	248.500000	146.000000	274.333333
##	[481]	1155.666667	355.500000	352.000000	162.050000	45.833333	136.000000
##	[487]	275.000000	161.000000	206.666667	238.375000	213.391667	156.000000
##	[493]	84.250000	377.512820	137.000000	155.000000	42.600000	62.000000
##	[499]	55.750000	429.333333	167.000000	110.000000	485.333333	100.000000
##	[505]	70.500000	1283.000000	63.500000	24.600000	22.833333	187.277778
##	[511]	98.250000	89.000000	31.600000	648.000000	18.750000	211.500000
##	[517]	494.166667	511.500000	58.066667	387.600000	143.833333	11.500000
##	[523]	141.000000	57.062500	12.833333	179.607143	135.650000	45.333333
##	[529]	39.600000	309.000000	456.988095	78.500000	99.500000	333.000000
##	[535]	825.000000	203.833333	195.316667	74.333333	80.666667	156.716667
##	[541]	172.000000	324.300000	413.500000	75.050000	354.833333	169.500000
##	[547]	104.000000	765.666667	214.882353	15.500000	702.000000	188.000000
##	[553]	352.242857	73.750000	221.500000	82.500000	92.000000	183.500000
##	[559]	139.681818	50.500000	124.125000	55.325758	241.766667	145.500000
##	[565]	28.666667	253.000000	220.333333	445.333333	654.775000	35.125000
##	[571]	222.500000	200.833333	33.500000	243.666667	148.500000	129.500000
##	[577]	223.000000	46.500000	254.000000	85.666667	154.500000	598.000000
##	[583]	226.954545	97.882353	515.600000	397.500000	16.500000	22.750000
##	[589]	238.466667	175.933333	675.333333	129.000000	144.000000	89.500000
##	[595]	91.750000	296.000000	269.166667	168.750000	430.833333	150.500000
##	[601]	724.500000	7.500000	130.500000	228.125000	133.166667	357.250000
##	[607]	418.666667	335.119048	329.297619	91.984848	153.275000	527.000000
##	[613]	135.500000	133.500000	186.100000	43.400000	32.666667	86.200000
##	[619]	299.000000	295.694056	177.000000	187.266667	587.000000	76.500000
##	[625]	161.764411	36.500000	80.000000	75.846154	240.200000	29.333333
##	[631]	152.875000	76.750000	353.000000	275.910444	104.500000	43.100000
##	[637]	92.250000	135.916667	119.150000	107.533333	61.166667	39.500000
##	[643]	217.000000	124.500000	277.666667	398.700000	147.750000	149.500000
##	[649]	42.333333	200.500000	424.166667	65.166667	220.000000	389.750000

##	[655]	118.700000	281.750000	513.553571	131.750000	4.500000	181.166667
##	[661]	1687.500000	431.000000	210.855556	58.333333	92.500000	70.000000
##	[667]	427.000000	662.535714	626.000000	109.000000	131.333333	128.571429
##	[673]	230.333333	245.333333	337.000000	117.500000	105.500000	109.500000
##	[679]	47.166667	71.300000	750.750000	121.666667	70.833333	86.083333
##	[685]	252.500000	126.000000	318.000000	331.166667	203.471429	189.000000
##	[691]	82.166667	101.500000	704.869925	196.138592	114.250000	432.583333
##	[697]	99.666667	364.500000	345.833333	248.666667	106.321429	262.000000
##	[703]	166.000000	230.106944	118.454545	156.833333	290.333333	113.000000
##	[709]	199.000000	26.500000	535.750000	72.425000	450.400000	166.931818
##	[715]	198.400000	135.666667	95.325000	40.166667	299.603175	454.000000
##	[721]	103.500000	45.500000	114.000000	61.666667	79.166667	138.500000
##	[727]	155.600000	259.166667	86.500000	299.083333	376.500000	230.250000
##	[733]	205.500000	41.333333	25.750000	173.083333	620.952381	65.833333
##	[739]	204.500000	498.900000	101.000000	1541.500000	197.166667	66.772727
##	[745]	105.000000	19.500000	196.666667	162.107143	66.166667	128.500000
##	[751]	290.666667	57.500000	102.067692	578.500000	246.250000	164.000000
##	[757]	35.666667	168.166667	331.300000	548.314286	3.500000	65.500000
##	[763]	228.916667	249.000000	236.408333	261.500000	166.500000	232.900000
##	[769]	176.000000	56.666667	89.466667	149.933333	53.250000	497.750000
##	[775]	149.000000	316.800000	49.750000	74.500000	233.500000	149.666667
##	[781]	314.500000	10.666667	106.500000	537.000000	211.964286	106.828571
##	[787]	161.708333	50.333333	766.833333	1215.333333	148.666667	152.333333
##	[793]	405.258333	294.000000	637.938889	84.550000	381.866667	236.833333
##	[799]	244.500000	180.500000	592.001401	335.000000	269.800000	235.250000
##	[805]	277.166667	25.083333	1629.333333	505.000000	108.500000	118.903226
##	[811]	192.555556	267.000000	54.833333	239.833333	210.500000	36.400000
##	[817]	69.166667	509.666667	1751.047619	827.200000	93.000000	260.000000
##	[823]	566.000000	85.529167	186.500000	361.476190	794.883333	89.900000
##	[829]	204.750000	91.500000	423.500000	174.475000	418.333333	90.875000
##	[835]	110.500000	144.500000	207.866667	656.000000	319.000000	108.000000
##	[841]	105.564423	30.500000	341.428571	99.166667	436.000000	102.666667
##	[847]	195.875000	255.000000	37.333333	59.500000	336.500000	168.429198
##	[853]	11.666667	44.166667	41.375000	567.357143	316.550000	59.833333
##	[859]	100.096537	160.333333	42.166667	32.100000	133.000000	32.333333
##	[865]	71.000000	75.600000	120.666667	247.136364	256.000000	76.166667
##	[871]	160.230769	338.000000	844.000000	13.333333	324.500000	241.000000
##	[877]	284.850000	64.750000	108.916667	25.571429	322.500000	178.500000
##	[883]	176.666667	418.000000	12.500000	66.966667	374.369048	54.636364
##	[889]	44.333333	738.000000	468.366667	283.666667	53.500000	278.833333
##	[895]	21.500000	250.857143	545.000000	37.300000	237.833333	1764.000000
##	[901]	63.666667	312.000000	93.500000	251.866667	121.000000	167.166667
##	[907]	142.700000	276.866667	1321.250000	190.583333	131.000000	397.833333
##	[913]	251.000000	203.000000	232.400000	22.333333	116.000000	90.500000
##	[919]	159.716667	318.666667	5.384615	147.500000	131.200000	386.000000
##	[925]	26.666667	44.750000	225.000000	368.833333	68.666667	839.000000
##	[931]	402.500000	112.333333	245.466667	86.166667	87.250000	50.666667
##	[937]	294.500000	362.000000	157.000000	820.800000	316.833333	235.000000
##	[943]	367.000000	51.019231	165.000000	38.166667	375.278571	96.250000
##	[949]	40.666667	38.333333	114.666667	142.300000	339.166667	219.250000
##	[955]	78.300000	15.600000	259.833333	389.000000	122.500000	127.000000
##	[961]	84.500000	35.750000	388.300000	245.083333	214.000000	52.500000
##	[967]	142.500000	543.000000	9.166667	245.166667	246.500000	156.900000
##	[973]	74.214286	210.777778	92.166667	90.511111	641.535714	815.766667

##	[979]	128.166667	203.500000	1271.500000	313.033333	61.196429	602.000000
##	[985]	157.058333	279.500000	334.750000	282.500000	46.333333	321.666667
##	[991]	84.666667	253.900000	105.750000	512.000000	975.750000	143.800000
##	[997]	129.666667	323.550000	153.250000	1474.500000	19.333333	464.150000
##	[1003]	523.333333	173.000000	31.100000	299.633333	433.100000	35.333333
##	[1009]	140.333333	200.000000	270.000000	104.985714	310.857143	732.250000
##	[1015]	126.500000	216.750000	321.600000	666.000000	332.666667	661.000000
##	[1021]	259.000000	591.663636	228.833333	370.275000	34.400000	200.333333
##	[1027]	214.333333	208.400000	779.355662	64.088235	160.583333	262.500000
##	[1033]	244.000000	293.000000	340.611111	137.075000	157.500000	726.366667
##	[1039]	43.666667	1261.916667	123.500000	71.666667	770.600000	186.866667
##	[1045]	82.666667	236.900000	194.000000	424.000000	134.500000	253.750000
##	[1051]	161.250000	471.500000	313.090909	137.566667	47.071429	273.000000
##	[1057]	405.166667	25.400000	406.416667	6.400000	179.000000	271.333333
##	[1063]	280.000000	674.000000	40.500000	820.000000	255.866667	209.000000
##	[1069]	1951.279141	318.720238	98.944444	215.500000	365.111111	84.333333
##	[1075]	377.000000	98.833333	633.500000	47.333333	109.833333	738.400000
##	[1081]	178.166667	173.250000	281.333333	515.000000	195.000000	1064.000000
##	[1087]	208.266667	334.600000	115.111111	51.666667	78.400000	50.750000
##	[1093]	99.291667	624.200000	1279.500000	49.183333	228.500000	268.166667
##	[1099]	147.790769	141.761905	82.234848	213.433333	313.866667	25.200000
##	[1105]	152.000000	40.250000	43.750000	182.000000	248.800000	189.221515
##	[1111]	89.800000	113.666667	989.900000	67.666667	298.000000	75.892857
##	[1117]	127.700000	98.666667	141.500000	149.916667	26.416667	48.833333
##	[1123]	88.628571	81.222222	91.333333	181.375000	561.000000	114.333333
##	[1129]	147.333333	394.100000	56.200000	104.113636	1023.000000	341.400000
##	[1135]	117.023809	449.250000	121.166667	233.000000	224.583333	268.000000
##	[1141]	46.400000	672.095238	604.500000	188.166667	2156.166667	475.750000
##	[1147]	79.100000	595.100000	212.000000	27.533333	133.583333	136.333333
##	[1153]	417.250000	114.500000	124.861111	236.250000	57.833333	440.104167
##	[1159]	290.860369	683.000000	115.600000	170.833333	42.500000	105.428571
##	[1165]	197.666667	27.583333	81.666667	470.000000	120.250000	156.800000
##	[1171]	417.000000	285.800000	1172.000000	237.250000	611.047059	586.648019
##	[1177]	363.333333	154.791667	183.708333	255.716667	194.036232	201.333333
##	[1183]	134.750000	310.633333	699.000000	248.000000	363.875000	38.305556
##	[1189]	130.333333	131.995614	147.666667	249.500000	356.000000	169.566667
##	[1195]	46.272727	2629.253968	79.500000	70.666667	176.500000	286.833333
##	[1201]	134.766667	187.166667	505.500000	703.500000	325.333333	190.250000
##	[1207]	189.214286	86.600000	238.400000	200.583333	261.000000	204.387500
##	[1213]	181.000000	64.250000	215.200000	62.142857	30.250000	181.333333
##	[1219]	183.750000	63.600000	443.291667	32.750000	200.523809	138.333333
##	[1225]	63.166667	69.833333	313.000000	292.190476	52.400000	132.666667
##	[1231]	250.000000	771.928571	295.666667	184.000000	154.833333	200.222222
##	[1237]	33.666667	24.166667	194.416667	453.000000	101.666667	316.500000
##	[1243]	309.250000	35.500000	85.928571	40.200000	63.400000	618.066667
##	[1249]	152.600000	56.300000	39.200000	89.600000	104.300000	204.200000
##	[1255]	180.133333	41.200000	101.800000	26.200000	79.600000	227.900000
##	[1261]	47.400000	196.600000	33.200000	55.400000	1222.400000	13.733333
##	[1267]	23.200000	150.700000	66.600000	92.600000	1013.056909	48.400000
##	[1273]	57.400000	297.600000	56.733333	38.600000	545.650000	94.600000
##	[1279]	28.800000	46.520000	41.400000	82.140000	397.700000	932.797143
##	[1285]	56.800000	89.980000	234.566667	196.880000	60.200000	271.000000
##	[1291]	85.200000	62.466667	164.066667	189.264615	5.066667	94.700000
##	[1297]	45.400000	38.800000	82.600000	850.000000	585.800000	491.666667

## [1303]	340.900000	112.800000	698.133333	32.200000	16.600000	54.200000
## [1309]	455.066667	601.900000	136.500000	49.300000	278.666667	118.800000
## [1315]	17.100000	268.080000	22.200000	68.400000	468.100663	43.200000
## [1321]	45.033333	80.600000	137.900000	9.600000	161.200000	301.000000
## [1327]	45.200000	167.400000	19.400000	157.400000	459.500000	42.200000
## [1333]	69.600000	66.550000	103.733333	60.400000	423.600000	63.683333
## [1339]	96.600000	628.366667	13.100000	58.400000	61.633333	68.800000
## [1345]	11.600000	34.180952	36.300000	498.600000	194.400000	28.650000
## [1351]	66.500000	194.900000	44.666667	83.600000	79.200000	35.700000
## [1357]	59.790000	15.200000	96.400000	66.400000	28.733333	661.766667
## [1363]	53.400000	23.800000	23.960000	358.258333	31.200000	199.850000
## [1369]	59.900000	265.043333	68.733333	219.933333	70.600000	166.700000
## [1375]	54.400000	152.100000	106.800000	275.084444	17.200000	189.483333
## [1381]	33.600000	304.600000	102.800000	353.400000	151.333333	36.200000
## [1387]	208.513333	175.866667	1672.033333	187.100000	133.350000	570.266667
## [1393]	238.683809	144.833333	40.800000	122.200000	68.600000	242.633333
## [1399]	17.945455	80.500000	158.200000	180.800000	2720.500000	154.600000
## [1405]	10.300000	124.600000	139.366667	12.066667	45.800000	133.800000
## [1411]	21.200000	115.400000	28.200000	40.900000	275.333333	35.200000
## [1417]	246.533333	245.800000	391.683333	43.466667	452.500000	123.200000
## [1423]	35.300000	96.800000	71.700000	631.107317	94.840000	196.150000
## [1429]	215.600000	88.280000	271.750000	8.100000	195.400000	71.333333
## [1435]	25.600000	103.900000	603.800000	61.400000	134.100000	65.400000
## [1441]	456.233333	95.300000	15.800000	30.866667	498.980965	84.345455
## [1447]	32.700000	438.800000	181.816667	49.400000	141.058333	112.270000
## [1453]	227.480000	37.200000	267.800000	107.800000	232.340476	50.946154
## [1459]	603.900000	168.200000	18.200000	239.600000	172.327778	39.300000
## [1465]	214.600000	154.200000	165.133333	245.733333	169.033333	176.600000
## [1471]	81.600000	140.066667	252.667619	43.325000	135.400000	68.014286
## [1477]	362.300000	90.700000	760.900000	67.400000	1566.600000	59.200000
## [1483]	50.150000	166.460000	241.350000	48.832434	60.166667	131.400000
## [1489]	62.900000	177.600000	103.800000	230.100000	228.350000	381.500000
## [1495]	188.500000	34.200000	160.200000	29.200000	59.860000	399.800000
## [1501]	344.200000	108.533333	408.600000	91.600000	77.100000	1013.886667
## [1507]	117.666667	401.150000	206.250000	552.200000	65.600000	47.300000
## [1513]	57.600000	116.972222	167.450000	100.100000	69.400000	288.000000
## [1519]	187.775000	57.300000	40.600000	91.200000	102.866667	110.786667
## [1525]	14.200000	211.050000	700.633333	12.600000	102.600000	139.200000
## [1531]	134.360000	65.900000	69.233333	72.600000	1220.914286	754.533333
## [1537]	1013.171429	102.300000	79.220000	51.400000	92.571429	112.900000
## [1543]	67.200000	69.966667	78.633333	186.666667	145.200000	106.180000
## [1549]	140.600000	38.040000	440.281395	216.230000	154.400000	153.000000
## [1555]	37.600000	82.533333	227.600000	273.660000	32.600000	381.800000
## [1561]	423.100000	104.654545	211.800000	54.842857	7.100000	265.433333
## [1567]	38.200000	197.400000	107.040000	209.500000	115.700000	255.516667
## [1573]	108.700000	234.300000	44.016667	116.960714	142.200000	501.483333
## [1579]	207.092857	2407.423810	60.366667	78.513333	117.320000	67.600000
## [1585]	137.500000	89.250000	1104.200000	56.400000	73.600000	279.266667
## [1591]	318.266667	217.649123	317.914286	30.300000	289.000000	33.466667
## [1597]	50.373333	50.933333	397.264444	105.466667	306.460000	67.866667
## [1603]	60.800000	779.000000	778.400000	28.057143	76.600000	368.400000
## [1609]	54.333333	87.800000	58.600000	190.400000	213.600000	293.633333
## [1615]	54.933333	27.200000	322.350000	96.186667	254.253245	169.200000
## [1621]	86.950000	49.800000	298.200000	275.100000	118.900000	169.883333

## [1627]	206.066667	264.900000	101.083333	333.540000	569.825000	48.800000
## [1633]	304.583333	39.800000	81.400000	11.100000	53.850000	27.466667
## [1639]	419.000000	61.480000	268.950000	178.520000	175.200000	228.720000
## [1645]	146.533333	101.142857	201.840000	129.360000	142.350000	55.333333
## [1651]	103.933333	157.888333	82.466667	94.800000	115.200000	296.860000
## [1657]	361.600000	61.080000	168.906667	42.400000	34.442424	99.800000
## [1663]	20.200000	40.550000	471.626667	241.600000	117.800000	179.378571
## [1669]	98.600000	29.440000	158.670450	24.200000	356.600000	249.800000
## [1675]	315.845679	15.100000	19.800000	143.066667	65.680000	140.900000
## [1681]	12.100000	98.733333	64.400000	184.733333	75.663492	50.400000
## [1687]	123.400000	432.200000	251.309091	113.100000	38.300000	43.733333
## [1693]	131.340000	385.566667	59.533333	119.400000	82.957143	89.333333
## [1699]	66.266667	98.466667	667.250000	206.030000	109.800000	149.031609
## [1705]	86.100000	903.700000	236.800000	24.133333	82.011111	416.200000
## [1711]	125.453333	319.400000	114.200000	165.200000	191.400000	484.461579
## [1717]	419.179525	149.950000	36.866667	202.133333	34.300000	70.933333
## [1723]	243.650000	170.150000	30.200000	49.200000	98.100000	706.556667
## [1729]	88.600000	84.600000	85.100000	91.900000	99.200000	175.100000
## [1735]	80.066667	173.966667	174.300000	415.550000	59.400000	115.800000
## [1741]	399.200000	106.900000	217.866667	212.600000	85.482234	125.733333
## [1747]	154.022917	132.920000	260.736111	162.625000	287.500000	189.800000
## [1753]	129.900000	50.066667	31.700000	159.700000	246.600000	173.411551
## [1759]	217.400000	608.140000	444.700000	376.333333	294.658788	47.200000
## [1765]	314.505000	140.166667	515.613333	19.200000	168.700000	178.920000
## [1771]	46.300000	209.200000	103.600000	182.400000	190.550000	161.107692
## [1777]	308.585965	1660.300000	913.522222	180.066667	74.400000	73.958333
## [1783]	177.200000	94.866667	33.400000	327.235714	16.200000	54.800000
## [1789]	341.816667	240.800000	199.456273	666.200000	446.383333	106.600000
## [1795]	221.727917	141.633333	391.300000	73.300000	178.300000	176.913333
## [1801]	26.700000	178.650000	72.295238	351.083333	113.800000	143.280000
## [1807]	141.140000	135.283333	519.000000	29.533333	216.600000	79.400000
## [1813]	122.517143	69.800000	202.100000	85.166667	55.050000	21.100000
## [1819]	430.157017	71.600000	53.300000	175.480000	287.700000	150.133333
## [1825]	83.400000	140.550000	449.816667	123.433333	78.600000	52.700000
## [1831]	76.150000	81.366667	61.650000	187.700000	579.133333	20.066667
## [1837]	79.700000	161.668571	285.200000	113.700000	215.244507	29.866667
## [1843]	128.800000	213.000000	337.580000	69.900000	93.800000	214.783333
## [1849]	420.100000	156.200000	264.133333	255.915929	230.394836	734.633333
## [1855]	104.973333	132.050000	224.800000	242.800000	91.650000	86.061905
## [1861]	231.900000	151.800000	1305.114737	109.400000	76.800000	120.600000
## [1867]	110.566667	146.600000	147.400000	47.800000	213.972222	1427.025000
## [1873]	295.200000	196.550000	19.100000	32.066667	253.150000	275.740000
## [1879]	327.400000	183.600000	101.200000	28.583333	92.101515	279.280000
## [1885]	410.550000	1097.016667	253.066667	102.200000	96.160606	176.680000
## [1891]	54.900000	150.200000	257.400000	10.771429	88.700000	251.814286
## [1897]	119.800000	287.000000	35.400000	344.100000	119.029508	62.600000
## [1903]	78.900000	19.600000	88.190476	104.200000	90.600000	456.900000
## [1909]	428.022222	205.700000	39.700000	221.330000	46.900000	124.426667
## [1915]	659.506667	135.100000	360.916667	445.350000	219.475000	168.850000
## [1921]	92.100000	299.450000	337.600000	120.900000	61.266667	162.200000
## [1927]	314.610714	97.800000	549.000000	70.400000	52.466667	593.466667
## [1933]	44.200000	398.000000	54.600000	128.114286	287.200000	43.950000
## [1939]	66.200000	51.480000	345.016667	218.800000	373.620000	193.400000
## [1945]	318.200000	225.220000	141.600000	240.100000	109.200000	346.000000

## [1951]	60.733333	114.080000	91.316667	170.926357	146.300000	35.800000
## [1957]	153.566667	174.600000	178.799550	128.000000	390.870000	291.235714
## [1963]	60.500000	218.966667	101.851111	405.550000	75.400000	85.966667
## [1969]	192.433333	136.100000	473.166667	341.600000	79.933333	202.400000
## [1975]	134.373333	93.600000	168.400000	109.600000	111.930000	180.900000
## [1981]	337.900000	130.300000	48.350000	177.880000	234.433333	380.433333
## [1987]	102.400000	149.200000	382.346667	266.700000	504.300000	250.800000
## [1993]	256.100000	312.800000	259.183333	301.077778	106.300000	116.200000
## [1999]	39.400000	81.200000	98.850000	30.700000	831.622222	292.300000
## [2005]	335.800000	203.280000	302.900000	353.700000	105.266667	185.800000
## [2011]	35.100000	145.883333	116.800000	174.750000	146.900000	108.800000
## [2017]	433.800000	95.600000	204.100000	400.650000	118.550000	257.093333
## [2023]	33.866667	97.600000	158.355564	264.000000	10.100000	296.200000
## [2029]	229.800000	34.266667	34.933333	294.200000	205.000000	280.336667
## [2035]	179.453333	36.050000	260.100000	198.990000	407.570000	44.400000
## [2041]	171.733333	145.980000	71.100000	187.716667	420.066667	153.200000
## [2047]	265.000000	423.000000	138.150000	512.580579	144.800000	187.900000
## [2053]	56.890000	127.800000	352.366667	266.047619	383.800000	365.033333
## [2059]	98.400000	163.425000	184.320000	132.400000	39.480000	211.033333
## [2065]	51.800000	309.633333	46.800000	584.200000	356.746420	604.730000
## [2071]	464.500000	240.900000	77.600000	150.600000	4.333333	72.573333
## [2077]	85.600000	233.622404	611.033333	95.100000	50.900000	74.600000
## [2083]	822.766667	664.086667	126.333333	869.166667	524.933333	44.228571
## [2089]	105.200000	466.616667	93.900000	159.200000	825.940018	92.933333
## [2095]	246.800000	263.460000	551.794444	90.100000	128.809524	148.900000
## [2101]	71.200000	45.700000	164.466667	352.233333	1178.600000	51.200000
## [2107]	181.073333	169.350000	369.833333	107.700000	237.832601	93.300000
## [2113]	343.066667	73.800000	161.520000	292.880000	17.600000	81.120000
## [2119]	18.600000	184.366667	902.160000	131.100000	100.920000	268.200000
## [2125]	95.800000	204.400000	124.700000	282.100000	148.600000	228.200000
## [2131]	271.200000	140.573333	229.000000	165.100000	237.000000	286.533333
## [2137]	75.866667	180.400000	172.400000	335.130952	210.600000	152.200000
## [2143]	352.400000	174.800000	236.400000	22.800000	171.200000	367.633333
## [2149]	196.400000	83.166667	138.100000	93.106667	36.703297	66.760000
## [2155]	245.933333	285.700000	262.020000	76.400000	149.066667	132.220000
## [2161]	421.250000	73.200000	115.727273	473.700000	203.600000	72.400000
## [2167]	107.750000	590.925000	52.900000	201.850000	253.400000	131.080000
## [2173]	95.170000	325.480000	174.457143	285.900000	247.100000	141.838889
## [2179]	196.250000	163.000000	38.577778	133.866667	69.100000	142.133333
## [2185]	206.600000	182.700000	121.400000	171.900000	342.100000	133.466667
## [2191]	72.040000	44.300000	82.850000	70.207650	42.100000	69.033333
## [2197]	508.800000	18.100000	154.933333	82.700000	94.233333	23.533333
## [2203]	216.400000	821.075410	7.600000	277.800000	62.133333	55.800000
## [2209]	64.666667	218.600000	254.500000	1251.200000	381.673122	75.100000
## [2215]	303.200000	73.233333	130.350000	23.314286	574.451191	190.500000
## [2221]	120.700000	272.033333	76.766667	138.566667	199.833333	630.533333
## [2227]	110.800000	125.100000	110.300000	83.800000	92.300000	157.388992
## [2233]	75.500000	371.800000	73.900000	215.400000	1415.500000	121.033333
## [2239]	380.800000	132.057143	564.900000	89.950000	574.550000	289.683333
## [2245]	245.400000	266.250000	107.366667	46.200000	291.960094	226.090000
## [2251]	70.580000	64.300000	89.666667	53.900000	263.733333	9.100000
## [2257]	122.800000	375.120000	226.600000	53.200000	157.316667	44.740000
## [2263]	94.833333	85.040000	803.470000	210.566667	132.025000	189.400000
## [2269]	130.550000	266.743333	71.400000	105.633333	301.200000	239.744534

## [2275]	243.680000	259.283648	292.200000	25.700000	100.600000	785.216667
## [2281]	124.200000	252.800000	398.066667	97.200000	107.400000	580.200000
## [2287]	471.060000	146.500000	378.466667	173.800000	114.800000	310.066667
## [2293]	101.700000	83.995238	109.700000	293.622222	66.900000	134.390000
## [2299]	56.633333	181.600000	184.417360	100.066667	27.400000	93.400000
## [2305]	383.300000	155.700000	200.420000	104.400000	98.800000	504.253333
## [2311]	275.800000	78.649808	136.400000	143.442857	135.150000	127.100000
## [2317]	410.900000	398.572712	171.119048	326.000000	248.228571	28.533333
## [2323]	117.850000	124.400000	95.833333	36.250000	103.300000	177.333333
## [2329]	626.493333	356.675000	142.911111	975.646667	265.400000	284.200000
## [2335]	52.533333	17.133333	113.250000	209.625000	93.125000	446.250000
## [2341]	6.500000	32.300000	441.850000	106.833333	97.333333	188.532234
## [2347]	77.666667	56.600000	524.750000	3398.750000	65.928571	75.750000
## [2353]	90.178571	935.100000	1145.250000	256.500000	416.000000	247.150000
## [2359]	333.867424	192.920455	171.291667	49.857143	41.750000	126.750000
## [2365]	29.750000	122.250000	60.291667	131.833333	548.500000	19.250000
## [2371]	140.583333	492.166667	63.875000	109.666667	588.297222	72.019608
## [2377]	265.041667	537.500000	171.500000	21.250000	191.166667	98.750000
## [2383]	162.416667	95.333333	490.500000	191.250000	82.766667	70.333333
## [2389]	68.583333	294.070513	147.166667	317.018939	110.950000	224.300000
## [2395]	159.895833	110.535714	239.333333	69.666667	11.166667	752.383333
## [2401]	233.475000	365.116667	111.541667	118.178571	643.833333	165.916667
## [2407]	993.083333	853.735949	84.750000	189.250000	121.750000	30.750000
## [2413]	44.295455	70.250000	479.250000	123.750000	355.000000	438.330952
## [2419]	201.150000	31.250000	125.750000	1652.000000	505.400000	334.500000
## [2425]	671.083333	28.250000	356.125000	144.461538	113.750000	74.750000
## [2431]	301.625000	173.550000	276.000000	156.607143	257.500000	13.875000
## [2437]	118.750000	192.665476	147.175000	47.250000	221.833333	58.416667
## [2443]	153.850000	328.750000	110.625000	27.900000	101.750000	42.257143
## [2449]	513.833333	79.250000	297.750000	337.541667	177.500000	98.266667
## [2455]	96.750000	172.083333	223.375000	275.750000	61.875000	121.500000
## [2461]	322.250000	112.166667	135.250000	1106.389831	232.353571	125.250000
## [2467]	662.339286	368.750000	64.464286	94.100000	507.000000	194.575000
## [2473]	474.000000	651.875000	199.625000	315.333333	148.208333	174.208333
## [2479]	250.083333	268.416667	101.625000	20.142857	238.775641	71.083333
## [2485]	677.191176	451.283613	530.500000	100.500000	346.709640	561.500000
## [2491]	209.062500	67.416667	173.166667	598.375000	645.666667	66.833333
## [2497]	190.437500	138.916667	258.144444	89.166667	718.000000	128.125000
## [2503]	327.500000	1715.000000	170.500000	14.750000	33.916667	99.750000
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## [2515]	24.750000	316.000000	88.250000	109.333333	290.293408	260.208333
## [2521]	97.750000	1307.675000	116.100000	119.500000	73.708333	471.250000
## [2527]	34.500000	487.000000	51.041667	155.900000	122.100000	210.427451
## [2533]	407.250000	179.275000	1443.100000	543.354906	235.186170	65.416667
## [2539]	346.250000	179.750000	197.250000	151.700000	231.750000	52.166667
## [2545]	163.633333	95.750000	218.741707	318.641026	78.357143	241.861111
## [2551]	112.250000	179.875000	110.758333	286.464286	284.000000	115.083333
## [2557]	48.187500	115.375000	196.857143	69.125000	334.250000	126.263158
## [2563]	739.125000	334.166667	307.360119	631.416667	32.642857	184.933333
## [2569]	62.666667	55.575000	104.250000	67.750000	554.750000	201.000000
## [2575]	149.013357	562.000000	305.905303	203.916667	7.625000	1230.333333
## [2581]	129.020833	45.750000	189.109848	89.062500	155.607843	175.916667
## [2587]	634.266667	49.250000	214.621429	62.750000	964.250000	131.500000
## [2593]	152.696429	1012.500000	46.041667	322.941667	34.250000	151.525000

## [2599]	116.500000	169.791667	474.476412	263.358333	440.461539	80.625000
## [2605]	48.625000	866.428030	234.166667	459.333333	572.583333	171.750000
## [2611]	53.750000	66.375000	301.561688	164.625000	331.250000	286.933333
## [2617]	13.750000	133.333333	198.258503	73.125000	358.083333	27.333333
## [2623]	186.673077	126.250000	298.082022	222.875000	182.642857	571.250000
## [2629]	509.833333	226.000000	283.250000	99.125000	390.500000	571.500000
## [2635]	278.151961	227.227273	112.750000	55.250000	2657.318056	274.250000
## [2641]	196.500000	427.066667	214.050000	86.583333	218.666667	115.888889
## [2647]	202.250000	302.500000	140.250000	295.961905	115.500000	207.000000
## [2653]	269.041667	126.076923	241.854167	303.927976	350.600000	251.750000
## [2659]	163.333333	173.263213	249.391667	187.694444	12.625000	216.250000
## [2665]	150.375000	1528.250000	31.708333	52.666667	175.934524	160.111539
## [2671]	63.083333	162.229167	80.250000	195.486472	644.500000	212.761628
## [2677]	6.333333	98.916667	158.700000	87.916667	324.000000	150.444444
## [2683]	726.000000	23.375000	201.562500	235.625000	133.400000	636.000000
## [2689]	162.700000	722.208333	250.500000	158.500000	84.437500	353.500000
## [2695]	266.875000	205.992424	225.250000	57.425000	63.250000	103.083333
## [2701]	37.250000	96.625000	24.916667	22.277778	522.250000	161.350000
## [2707]	18.833333	293.578571	88.604167	347.791667	283.375000	113.833333
## [2713]	243.166667	145.770833	68.333333	743.582418	218.833333	170.250000
## [2719]	151.566667	238.483333	75.416667	736.000000	463.750000	488.462963
## [2725]	140.875000	36.750000	22.900000	408.408333	21.750000	46.142857
## [2731]	1668.500000	426.700000	388.791667	87.750000	146.700000	173.541667
## [2737]	264.416667	175.466667	276.750000	1946.000000	64.583333	320.000000
## [2743]	185.990476	114.259158	399.250000	943.000000	180.666667	634.500000
## [2749]	253.100000	121.266667	176.963855	381.450000	255.750000	323.363636
## [2755]	163.375000	216.333333	114.125000	1455.350000	493.750000	2086.750000
## [2761]	239.928846	111.300000	448.500000	112.875000	311.830093	201.366667
## [2767]	466.000000	317.958333	295.928571	288.087500	92.562500	322.833333
## [2773]	197.500000	1592.916667	183.083333	158.595238	33.750000	272.041667
## [2779]	159.166667	43.928571	569.000000	37.583333	331.983333	56.250000
## [2785]	224.875000	197.708333	49.700000	61.250000	576.000000	904.583333
## [2791]	45.250000	102.555556	77.700000	68.750000	14.250000	198.666667
## [2797]	395.708333	403.000000	494.533333	225.450000	265.750000	396.960452
## [2803]	175.333333	352.107143	132.722222	19.833333	301.136905	446.933333
## [2809]	184.458333	74.083333	32.250000	335.166667	1103.330357	875.000000
## [2815]	250.250000	166.375000	11.833333	261.161905	364.333333	147.458333
## [2821]	252.812500	965.500000	115.583333	242.500000	97.833333	48.976190
## [2827]	247.083333	222.750000	230.666667	167.406136	60.250000	191.833333
## [2833]	110.750000	164.583333	208.888889	63.750000	181.275000	149.761905
## [2839]	497.166667	135.200000	311.250000	93.750000	140.475000	140.800000
## [2845]	68.285714	58.250000	109.041667	184.272727	1079.184314	570.250000
## [2851]	116.541667	81.541667	119.333333	13.833333	790.900000	52.750000
## [2857]	125.630952	305.000000	934.500000	142.750000	241.841667	61.012500
## [2863]	152.750000	770.738889	172.375000	315.166667	856.833333	504.283333
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## [2881]	37.750000	202.425439	51.708333	900.500000	19.750000	46.458333
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## [2911]	150.250000	86.277778	155.750000	1115.500000	143.583333	222.816667
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## [2923]	65.541667	507.333333	122.875000	509.531250	82.200000	268.500000
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## [2959]	321.266667	296.116667	207.500000	440.583333	90.416667	81.833333
## [2965]	1153.682251	521.075000	150.125000	20.166667	194.285714	52.850000
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## [2995]	240.166667	52.833333	171.375000	365.000000	107.125000	224.500000
## [3001]	46.958333	52.875000	173.944444	111.666667	271.300000	340.933333
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## [3043]	265.291667	339.000000	204.095238	354.291667	107.428571	190.262821
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## [3085]	214.250000	229.500000	96.666667	319.833333	270.016667	17.333333
## [3091]	198.772727	184.155674	175.125000	1276.264286	82.250000	49.083333
## [3097]	60.750000	151.500000	712.000000	406.000000	393.266667	367.666667
## [3103]	344.492216	367.250000	400.000000	166.333333	177.666667	208.250000
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## [3115]	264.809524	244.266667	91.250000	46.611111	7.125000	26.750000
## [3121]	88.750000	190.416667	137.916667	204.107143	585.500000	234.928571
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## [3133]	280.266667	34.916667	389.500000	243.746951	60.136364	16.250000
## [3139]	1535.355556	46.875000	120.375000	119.566667	258.000000	94.250000
## [3145]	81.333333	252.000000	71.375000	247.750000	145.100000	1284.337500
## [3151]	360.750000	177.250000	65.250000	244.250000	77.833333	229.333333
## [3157]	60.083333	218.402778	141.750000	203.416667	109.571429	100.750000
## [3163]	101.642857	188.833333	105.375000	1028.833333	279.250000	302.083333
## [3169]	121.425000	81.750000	123.875000	262.121212	17.750000	88.375000
## [3175]	720.500000	40.416667	449.750000	172.849265	18.250000	98.350000
## [3181]	162.491176	164.925000	514.075000	172.125000	344.000000	127.666667
## [3187]	181.500000	78.750000	20.750000	461.000000	42.750000	202.833333
## [3193]	27.250000	213.500000	86.333333	225.538636	57.250000	79.666667
## [3199]	22.250000	2137.112745	107.666667	35.833333	304.500000	647.333333
## [3205]	229.750000	43.625000	281.916667	115.966667	187.875000	52.250000
## [3211]	266.000000	255.416667	190.312500	28.125000	45.416667	453.600000
## [3217]	102.166667	15.750000	159.916667	103.875000	188.563830	122.041667
## [3223]	314.083333	144.666667	879.500000	246.252381	515.982143	447.125000
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## [3247] 140.675000 153.750000 321.500000 129.625000 50.875000 107.500000
## [3253] 183.785714 1005.608333 442.600000 155.845833 150.208333 345.806548
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## [3313] 257.750000 270.750000 317.628205 40.136364 580.333333 399.750000
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## [3337] 150.357143
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## [67] 125.095238 103.000000 404.000000 147.866667 263.000000 41.000000
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## [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
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## [121] 81.333333 32.500000 242.055556 52.250000 369.000000 123.333333
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##	[199]	292.684211	78.000000	562.000000	907.833333	609.000000	571.500000
##	[205]	1.000000	270.333333	284.000000	775.500000	265.000000	44.000000
##	[211]	41.500000	193.000000	279.500000	146.000000	869.000000	49.000000
##	[217]	111.000000	451.500000	100.250000	88.583333	119.000000	168.833333
##	[223]	175.500000	25.000000	164.000000	2.000000	172.000000	65.500000
##	[229]	5.500000	89.333333	72.833333	250.666667	403.000000	166.000000
##	[235]	117.285714	419.000000	156.000000	13.500000	48.000000	241.500000
##	[241]	199.000000	29.666667	353.333333	70.500000	135.500000	604.800000
##	[247]	46.666667	91.000000	415.000000	97.000000	118.000000	865.000000
##	[253]	144.500000	89.500000	300.900000	262.000000	80.000000	115.000000
##	[259]	470.000000	58.952381	394.000000	213.000000	191.000000	163.000000
##	[265]	188.000000	360.000000	243.000000	66.000000	49.500000	236.000000
##	[271]	227.250000	246.333333	1636.000000	606.750000	261.833333	257.000000
##	[277]	161.000000	132.833333	56.500000	545.000000	89.000000	404.583333
##	[283]	52.000000	472.000000	39.666667	499.000000	346.166667	10.666667
##	[289]	31.000000	106.000000	10.000000	506.000000	154.000000	724.000000
##	[295]	140.000000	269.500000	6.000000	17.333333	112.000000	382.333333
##	[301]	189.000000	124.000000	27.500000	72.000000	141.166667	113.000000
##	[307]	114.000000	584.000000	168.500000	173.000000	282.000000	135.000000
##	[313]	165.000000	189.500000	424.500000	1307.000000	81.500000	147.166667
##	[319]	3.500000	913.000000	149.000000	448.500000	406.000000	10.166667
##	[325]	27.000000	646.000000	26.666667	459.000000	196.000000	59.500000
##	[331]	537.000000	193.250000	76.000000	1360.000000	216.000000	900.500000
##	[337]	214.500000	909.000000	62.500000	107.000000	104.500000	93.666667
##	[343]	10.500000	38.500000	69.000000	808.500000	255.500000	68.000000
##	[349]	1.500000	111.500000	86.000000	85.000000	134.000000	181.722222
##	[355]	341.333333	249.000000	292.000000	327.000000	232.000000	221.000000
##	[361]	559.000000	120.666667	171.000000	314.000000	1779.166667	134.333333
##	[367]	323.000000	37.500000	101.500000	313.000000	348.000000	1131.000000
##	[373]	335.000000	2.500000	140.833333	176.000000	47.666667	500.000000
##	[379]	161.500000	9.307692	231.700000	707.500000	258.000000	74.000000
##	[385]	482.333333	148.000000	82.000000	417.000000	194.000000	320.500000
##	[391]	114.500000	215.000000	1222.750000	298.666667	618.000000	151.000000
##	[397]	30.666667	514.000000	460.000000	218.000000	11.500000	160.500000
##	[403]	1258.833333	309.000000	1778.000000	666.783333	151.666667	689.833333
##	[409]	163.666667	136.750000	872.000000	129.000000	985.419048	1150.000000
##	[415]	83.500000	330.000000	331.750000	516.000000	5.000000	53.500000
##	[421]	99.000000	600.000000	848.416667	43.666667	272.500000	55.500000
##	[427]	376.333333	26.750000	25.500000	131.000000	153.500000	515.000000
##	[433]	22.500000	36.000000	43.000000	474.500000	391.000000	370.875000
##	[439]	489.600000	95.000000	92.500000	157.000000	75.666667	1439.000000
##	[445]	72.500000	315.000000	529.700000	38.000000	503.250000	725.500000
##	[451]	58.500000	262.750000	393.325000	103.166667	263.666667	62.333333
##	[457]	61.500000	37.400000	178.000000	96.333333	2050.433333	241.000000
##	[463]	377.000000	373.500000	1005.000000	187.000000	16.500000	302.000000
##	[469]	226.000000	99.500000	110.000000	194.500000	202.500000	214.166667
##	[475]	285.000000	493.500000	79.000000	120.800000	80.600000	332.080000
##	[481]	102.800000	204.346667	2195.300000	1093.300000	42.200000	14.200000
##	[487]	88.600000	269.800000	33.200000	306.100000	31.200000	657.833333
##	[493]	191.866667	28.200000	69.600000	118.100000	45.266667	199.100000
##	[499]	152.200000	95.650000	38.200000	90.200000	225.766667	204.000000
##	[505]	99.600000	377.433333	387.500000	28.700000	322.400000	303.200000
##	[511]	383.800000	86.600000	10.066667	353.400000	54.400000	842.300000
##	[517]	426.200000	52.400000	36.200000	535.000000	7.600000	32.200000

##	[523]	294.600000	50.200000	102.750000	37.200000	36.600000	97.800000
##	[529]	433.100000	106.800000	15.100000	432.200000	19.200000	42.400000
##	[535]	169.200000	34.400000	1511.700000	204.400000	295.400000	21.200000
##	[541]	26.700000	65.400000	206.100000	25.200000	165.666667	16.200000
##	[547]	22.200000	38.300000	923.900000	201.400000	678.000000	378.800000
##	[553]	439.200000	2252.033333	168.200000	110.866667	89.100000	133.000000
##	[559]	1657.300000	1005.400000	353.966667	103.800000	297.833333	793.800000
##	[565]	76.600000	100.800000	115.800000	17.720000	140.500000	101.700000
##	[571]	541.000000	475.200000	35.700000	53.200000	99.800000	225.366667
##	[577]	434.300000	189.300000	63.400000	652.800000	59.400000	64.400000
##	[583]	1009.733333	216.566667	63.100000	43.200000	66.400000	246.800000
##	[589]	274.000000	13.400000	35.200000	223.150000	173.200000	16.600000
##	[595]	380.700000	160.400000	14.800000	316.000000	239.800000	245.800000
##	[601]	183.266667	297.200000	84.800000	179.500000	112.600000	18.400000
##	[607]	466.400000	235.600000	430.200000	722.900000	382.400000	6.500000
##	[613]	18.200000	229.800000	1655.400000	43.400000	468.400000	44.400000
##	[619]	29.200000	348.600000	1529.200000	28.400000	26.200000	112.800000
##	[625]	211.600000	251.800000	27.600000	560.000000	100.200000	379.000000
##	[631]	91.200000	812.000000	34.300000	212.800000	186.500000	39.400000
##	[637]	12.500000	239.200000	72.600000	37.300000	67.400000	733.800000
##	[643]	69.400000	97.640000	17.200000	244.300000	85.140000	96.800000
##	[649]	108.300000	141.880000	105.133333	94.800000	260.000000	790.006667
##	[655]	51.400000	105.800000	299.033333	173.540000	144.200000	13.100000
##	[661]	11.400000	16.133333	148.100000	40.800000	49.400000	92.333333
##	[667]	594.133333	98.800000	1236.200000	194.400000	365.966667	8.100000
##	[673]	341.600000	622.400000	53.400000	385.800000	24.700000	380.957143
##	[679]	189.400000	245.171429	113.800000	49.300000	30.200000	48.300000
##	[685]	41.200000	66.133333	62.600000	232.733333	137.000000	186.233333
##	[691]	629.514286	93.600000	183.800000	92.300000	56.900000	256.066667
##	[697]	438.700000	291.200000	108.800000	174.700000	249.800000	20.200000
##	[703]	31.700000	101.800000	477.600000	696.200000	87.600000	218.650000
##	[709]	70.600000	92.700000	114.200000	89.533333	34.200000	321.400000
##	[715]	608.450000	47.400000	34.800000	801.800000	22.133333	56.400000
##	[721]	276.000000	322.800000	62.400000	68.400000	15.200000	137.816667
##	[727]	47.640000	136.171429	161.966667	23.533333	26.100000	195.400000
##	[733]	924.000000	256.750000	14.600000	358.600000	21.600000	270.600000
##	[739]	99.700000	241.700000	181.950000	123.000000	32.700000	177.800000
##	[745]	269.666667	217.600000	108.900000	277.633333	518.800000	73.600000
##	[751]	230.700000	24.200000	211.000000	96.200000	100.100000	985.483333
##	[757]	232.800000	173.233333	45.800000	1109.533333	44.200000	208.600000
##	[763]	116.800000	505.600000	81.400000	145.000000	124.200000	482.400000
##	[769]	41.600000	124.800000	58.400000	182.200000	109.800000	48.350000
##	[775]	871.400000	114.800000	55.400000	39.200000	71.100000	88.900000
##	[781]	102.300000	40.020000	201.900000	87.700000	118.800000	399.800000
##	[787]	49.733333	30.266667	74.500000	124.266667	1021.600000	20.600000
##	[793]	124.900000	11.100000	22.600000	27.200000	46.400000	141.200000
##	[799]	62.800000	145.166667	199.400000	206.600000	33.300000	155.566667
##	[805]	23.200000	250.000000	74.600000	68.500000	111.900000	242.800000
##	[811]	34.600000	21.800000	68.200000	338.400000	18.466667	207.600000
##	[817]	522.166667	129.750000	38.900000	61.600000	79.700000	130.760000
##	[823]	214.100000	1312.400000	105.950000	624.600000	216.600000	96.700000
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##	[847]	118.750000	802.500000	26.500000	96.000000	447.500000	197.416667
##	[853]	43.500000	230.166667	258.625000	2549.375000	88.500000	91.303571
##	[859]	121.000000	788.000000	121.625000	57.500000	343.000000	433.500000
##	[865]	193.500000	164.500000	1343.250000	126.750000	487.000000	147.500000
##	[871]	330.266667	63.500000	65.750000	6.333333	91.500000	150.500000
##	[877]	50.500000	27.750000	126.500000	139.500000	703.500000	36.500000
##	[883]	155.333333	167.166667	156.750000	254.000000	51.500000	386.000000
##	[889]	497.833333	352.500000	15.750000	312.000000	32.750000	627.458333
##	[895]	80.166667	36.250000	141.500000	383.750000	30.500000	249.500000
##	[901]	52.500000	34.250000	961.450000	207.250000	24.500000	94.875000
##	[907]	134.500000	64.500000	785.875000	303.000000	546.500000	192.250000
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##	[919]	243.283333	1830.500000	110.750000	294.000000	886.250000	991.250000
##	[925]	210.666667	228.000000	72.125000	103.500000	13.833333	121.500000
##	[931]	92.166667	33.750000	143.750000	50.833333	69.500000	77.916667
##	[937]	1037.150000	45.750000	277.500000	39.500000	861.000000	138.000000
##	[943]	89.954545	114.750000	286.083333	888.000000	500.800000	347.500000
##	[949]	162.500000	182.166667	114.333333	93.416667	437.500000	435.250000
##	[955]	167.142857	691.000000	162.666667	365.250000	418.500000	398.000000
##	[961]	492.900000	17.750000	285.625000	119.375000	47.500000	287.500000
##	[967]	248.500000	1949.166667	247.750000	160.000000	45.500000	43.333333
##	[973]	406.916667	98.666667	1021.666667	495.500000	1174.000000	54.500000
##	[979]	1079.833333	166.500000	191.333333	40.500000	260.500000	35.500000
##	[985]	231.600000	86.750000	181.000000	151.500000	158.500000	147.000000
##	[991]	31.500000	1729.000000	39.250000	103.750000	7.666667	8.500000
##	[997]	590.000000	408.500000	909.250000	337.500000	178.500000	137.500000
##	[1003]	485.833333	478.916667	14.750000	200.000000	944.750000	195.000000
##	[1009]	34.500000	111.166667	352.083333	649.250000	312.750000	266.875000
##	[1015]	719.000000	137.833333	201.500000	220.250000	821.000000	17.900000
##	[1021]	146.666667	167.000000	502.750000	66.500000	128.000000	157.500000
##	[1027]	130.516667	588.000000	1188.500000	59.000000	1231.000000	79.500000
##	[1033]	84.250000	77.958333	182.800000	242.750000	759.000000	886.500000
##	[1039]	597.583333	8.166667	696.833333	28.750000	216.500000	78.500000
##	[1045]	452.083333	254.916667	121.250000	288.000000	62.750000	662.000000
##	[1051]	267.250000	136.500000	430.333333	428.547619	254.750000	390.000000
##	[1057]	47.750000	176.500000	174.000000	208.666667	181.250000	204.250000
##	[1063]	1368.000000	138.666667	82.500000	185.500000	693.500000	1193.125000
##	[1069]	143.250000	1488.000000	12.250000	825.500000	25.750000	324.500000
##	[1075]	1767.666667	280.500000	758.500000	789.125000	2256.916667	559.083333
##	[1081]	566.000000	96.500000	248.166667	298.333333	1022.250000	1475.250000
##	[1087]	636.750000	33.500000	286.666667	480.125000	759.500000	170.583333
##	[1093]	464.875000	1039.166667	19.750000	1373.750000	124.250000	704.750000
##	[1099]	230.000000	1024.250000	162.750000	151.250000	1083.000000	585.625000
##	[1105]	19.250000	185.750000	240.500000	102.250000	258.250000	686.000000
##	[1111]	110.250000	53.833333	25.166667	278.250000	402.000000	627.750000
##	[1117]	160.833333	355.500000	504.500000	685.250000	122.500000	124.500000
##	[1123]	193.166667	70.250000	665.500000	840.583333	143.500000	342.500000
##	[1129]	13.250000	119.500000	129.125000	191.750000	132.500000	170.000000
##	[1135]	38.250000	358.750000	141.750000	70.875000	880.250000	118.500000
##	[1141]	251.500000	46.250000	273.000000	71.250000	234.500000	230.250000
##	[1147]	414.500000	809.500000	349.000000	62.250000	501.000000	343.875000
##	[1153]	486.666667	523.750000	29.750000	1530.000000	360.166667	251.666667
##	[1159]	23.750000	246.500000	619.500000	1494.500000	271.250000	228.500000
##	[1165]	400.375000	117.000000	235.750000	1007.500000	112.250000	620.250000

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## [1171] 410.500000 321.000000 1043.928571 889.500000 902.500000 738.083333
## [1177] 21.250000 276.250000 199.500000 264.750000 1073.000000 34.625000
## [1183] 575.000000 645.500000 2166.500000 303.625000 115.250000 310.500000
## [1189] 154.833333 1652.000000 273.500000 364.916667 19.500000 88.725000
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## [1201] 98.000000 368.154762 220.000000 376.500000 505.166667 218.250000
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## [1249] 32.666667 333.500000 385.000000 224.000000 120.500000 97.166667
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## [307] 336 378 254 183 210 192
##
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## [1] 0.000000 64.000000 -1.000000 2.666667 627.500000
## [6] 154.216667 37.000000 738.000000 395.000000 407.750000
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## [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
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## [81] 607.000000 415.000000 2083.530952 281.666667 27.000000

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##	[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	NA
##	[871]	701.542424	979.083333	324.769231	1682.870247	210.000000
##	[876]	1610.916667	1188.566667	1663.683333	930.300000	1003.000000
##	[881]	69.000000	1199.725758	1524.058333	1229.766667	972.600000
##	[886]	438.433333	333.000000	504.233333	845.500000	744.500000
##	[891]	1129.000000	358.000000	832.000000	36.500000	157.000000

##	[896]	71.333333	1054.309524	308.166667	229.250000	225.833333
##	[901]	326.583333	3486.690476	863.333333	1405.131241	1031.704762
##	[906]	917.083333	573.657143	238.166667	164.000000	750.590476
##	[911]	1834.083333	606.833333	509.121429	5900.351378	449.333333
##	[916]	200.000000	946.166667	514.000000	1180.500000	771.500000
##	[921]	1096.750000	381.666667	1509.594444	1181.198413	1394.666667
##	[926]	326.000000	459.830769	2043.500000	663.466667	7669.250794
##	[931]	115.166667	296.450000	2633.869048	392.000000	748.666667
##	[936]	834.666667	497.333333	631.989682	315.600000	183.333333
##	[941]	192.166667	1296.600000	698.000000	1093.142857	2397.500000
##	[946]	196.200000	39.666667	408.333333	906.566667	149.000000
##	[951]	1224.750000	1262.000000	115.666667	321.500000	3552.702381
##	[956]	716.357143	343.000000	3763.166667	1883.827222	251.666667
##	[961]	1413.333333	83.000000	584.500000	940.833333	791.666667
##	[966]	4346.541667	50.500000	2593.741667	1518.761111	365.400000
##	[971]	468.000000	7533.272727	1059.000000	892.000000	430.500000
##	[976]	132.633333	363.318182	73.000000	612.000000	595.009524
##	[981]	1813.208333	102.000000	1278.090909	996.516667	69.500000
##	[986]	1530.248485	2595.280952	471.500000	923.675735	3946.008333
##	[991]	648.400000	263.000000	193.000000	38.000000	1077.869048
##	[996]	266.333333	67.500000	499.666667	286.000000	112.728571
##	[1001]	1571.000000	241.000000	187.000000	451.000000	1741.483333
##	[1006]	838.683333	406.000000	437.187500	898.500000	215.750000
##	[1011]	266.583333	546.000000	2156.000000	557.166667	461.050000
##	[1016]	1473.333333	474.833333	500.000000	369.000000	136.666667
##	[1021]	243.200000	459.000000	441.466667	328.000000	518.666667
##	[1026]	631.458333	1849.833333	436.000000	850.333333	457.795727
##	[1031]	143.000000	3224.819084	1038.845238	216.000000	363.666667
##	[1036]	1314.250000	146.000000	228.000000	419.750000	395.222222
##	[1041]	945.010870	90.000000	936.833333	447.500000	416.400000
##	[1046]	1051.248276	1218.000000	756.333333	151.500000	1387.606061
##	[1051]	1418.000000	437.222222	411.500000	474.666667	1415.625000
##	[1056]	1448.752381	2777.666667	1436.500000	224.000000	3087.000000
##	[1061]	3424.583333	1418.500000	423.000000	651.400000	249.500000
##	[1066]	337.000000	1377.769697	66.833333	957.000000	1166.726190
##	[1071]	4099.737392	205.976191	1644.000000	268.000000	2905.943651
##	[1076]	419.000000	279.000000	1286.688889	1616.083333	2755.670940
##	[1081]	655.783333	917.350000	353.000000	835.833333	338.127273
##	[1086]	1572.571429	1321.059195	502.458333	1424.928571	2448.784448
##	[1091]	1480.666667	25.500000	952.434524	854.333333	39.000000
##	[1096]	1332.833333	467.916667	674.250000	2207.391667	300.000000
##	[1101]	177.500000	311.500000	486.516667	1418.250000	391.850000
##	[1106]	142.666667	1659.319697	1560.601163	1451.227362	2588.958333
##	[1111]	496.583333	678.273809	163.000000	286.500000	1395.258333
##	[1116]	416.666667	413.800000	403.000000	106.000000	515.000000
##	[1121]	1720.000000	226.500000	130.166667	192.933333	745.333333
##	[1126]	233.000000	1409.809524	448.500000	73.750000	386.150000
##	[1131]	638.833333	489.583333	660.816667	1489.144444	2270.833333
##	[1136]	121.000000	296.000000	481.833333	309.933333	851.000000
##	[1141]	88.333333	893.100000	526.333333	535.345960	884.633333
##	[1146]	2175.993651	1028.116667	93.000000	1373.464719	991.367857
##	[1151]	1.000000	147.250000	1225.500000	183.000000	250.800000
##	[1156]	148.250000	504.083333	1650.416667	2743.216667	1288.533333
##	[1161]	1663.761905	1165.583333	1038.916667	1302.500000	172.500000

## [1166]	925.947619	1524.702381	288.000000	1476.300000	685.000000
## [1171]	2396.690316	451.833333	1512.523810	306.500000	3332.293511
## [1176]	2815.416667	956.500000	1500.422543	2271.000000	588.166667
## [1181]	1212.809524	792.722222	439.523810	525.266667	1337.842794
## [1186]	1770.625000	1084.500000	4261.842857	527.208333	110.000000
## [1191]	1733.666667	198.522150	504.000000	1588.666667	381.500000
## [1196]	1173.070000	878.623809	1928.000000	2735.728571	4163.797619
## [1201]	1728.321429	449.600000	243.666667	2760.716667	1503.250000
## [1206]	591.166667	402.500000	1540.583333	1561.083333	1330.300000
## [1211]	360.750000	245.500000	608.416667	708.250000	157.500000
## [1216]	1123.242857	926.633333	2808.666667	1685.266667	2124.726768
## [1221]	1272.916667	474.500000	180.333333	1607.297619	126.666667
## [1226]	865.277778	2612.357143	850.208333	556.666667	186.700000
## [1231]	6737.271825	1762.250000	8961.407671	128.000000	213.500000
## [1236]	849.883333	316.000000	4114.083333	1470.966667	189.000000
## [1241]	780.166667	73.500000	717.616667	3641.213151	1040.750000
## [1246]	833.233333	453.625000	51.250000	1229.289286	1202.000000
## [1251]	538.000000	1775.516667	638.000000	558.800000	190.000000
## [1256]	302.000000	796.957143	314.900000	789.958333	422.833333
## [1261]	362.000000	628.833333	839.500000	5764.366667	161.000000
## [1266]	739.833333	66.000000	2377.000000	381.000000	2559.898333
## [1271]	553.150000	651.000000	1957.616667	1660.222222	170.000000
## [1276]	47.000000	165.000000	406.866667	570.516667	1138.500000
## [1281]	2777.616667	463.758333	775.500000	490.066667	266.016667
## [1286]	1306.000000	634.200000	1220.433333	1750.333333	1087.250000
## [1291]	762.547619	244.500000	1010.000000	1342.666667	1593.388889
## [1296]	639.000000	521.000000	377.500000	494.666667	1003.965152
## [1301]	536.683333	3025.521713	424.000000	171.500000	1231.136508
## [1306]	266.500000	1533.000000	1300.190476	804.283333	734.583333
## [1311]	3113.516667	114.833333	95.500000	93.666667	26.000000
## [1316]	1136.603030	2989.494048	1724.250000	333.600000	334.785714
## [1321]	355.166667	456.666667	1298.500000	2258.833333	2881.133333
## [1326]	206.500000	267.833333	454.000000	717.600000	1069.168290
## [1331]	807.833333	477.000000	134.900000	314.000000	637.000000
## [1336]	160.500000	1577.000000	660.166667	89.333333	2517.048459
## [1341]	86.000000	229.750000	498.333333	1039.766667	369.166667
## [1346]	1669.000000	44.500000	140.000000	250.166667	221.200000
## [1351]	127.000000	229.333333	370.833333	1583.596154	399.693939
## [1356]	457.000000	581.416667	574.666667	1011.000000	139.833333
## [1361]	608.833333	1251.000000	264.500000	1509.800000	356.800000
## [1366]	598.783333	1141.833333	1209.802992	1107.047619	4996.666667
## [1371]	936.166667	666.100000	170.833333	1118.647186	1206.614719
## [1376]	2174.375000	330.000000	437.250000	3211.827706	3036.400000
## [1381]	640.666667	480.250000	1350.391667	976.200000	70.200000
## [1386]	2126.461941	1112.000000	409.750000	401.285714	423.833333
## [1391]	115.000000	427.166667	609.500000	547.333333	2062.890972
## [1396]	1077.007576	1606.333333	775.333333	973.500000	727.500000
## [1401]	710.250000	3644.752381	1089.750000	494.000000	2566.220887
## [1406]	1049.516667	685.950000	758.166667	1852.750000	2517.000000
## [1411]	751.333333	1549.857143	202.250000	669.967949	1088.830952
## [1416]	2151.000000	130.500000	2866.902020	608.942857	4056.175369
## [1421]	771.591667	491.100000	602.166667	77.333333	4.000000
## [1426]	103.666667	387.884615	345.383333	1001.000000	70.666667
## [1431]	1298.000000	1686.966667	370.500000	89.000000	164.333333

## [1436]	2244.666667	3246.977381	1573.233333	779.505159	2625.009524
## [1441]	3266.127778	303.250000	806.666667	465.416667	1018.000000
## [1446]	261.500000	910.000000	4270.141667	413.000000	372.800000
## [1451]	550.500000	1300.728987	68.750000	684.727273	1253.333333
## [1456]	331.000000	1791.700000	1596.672282	9128.283883	313.000000
## [1461]	204.000000	2490.138095	162.750000	9694.260714	1762.500000
## [1466]	2183.500000	234.475000	139.708333	1371.633333	711.566667
## [1471]	232.666667	51.500000	176.819363	240.000000	415.833333
## [1476]	200.850000	2372.333333	574.833333	1045.102381	971.000000
## [1481]	1589.273810	1656.666667	1246.919048	597.600000	3888.166667
## [1486]	2600.258333	709.000000	82.000000	760.250000	1362.000000
## [1491]	924.333333	1440.298918	856.752240	513.466667	748.566667
## [1496]	383.083333	976.710317	1916.633333	1266.119048	1679.833333
## [1501]	315.166667	290.000000	463.500000	1833.000000	196.000000
## [1506]	1200.892857	139.333333	665.566667	151.900000	1620.000000
## [1511]	1268.000000	969.102381	773.466667	808.166667	469.876191
## [1516]	823.500000	201.000000	1063.950000	412.000000	1789.398810
## [1521]	644.125000	529.702381	221.714286	312.333333	325.750000
## [1526]	2717.327381	3380.691558	614.944444	1274.190476	1071.611111
## [1531]	408.000000	2335.064286	18.000000	1299.383333	489.000000
## [1536]	233.666667	71.000000	1266.500000	182.583333	169.300000
## [1541]	1358.750000	131.000000	2816.438810	3484.233333	1076.500000
## [1546]	357.250000	197.000000	489.145238	610.000000	588.666667
## [1551]	580.200000	999.000000	622.000000	1005.849206	3451.751515
## [1556]	2217.333333	485.666667	484.950000	284.000000	1219.113725
## [1561]	574.722619	4053.092208	1485.416667	634.166667	1182.106162
## [1566]	333.750000	550.066667	2243.666667	2193.150794	289.850000
## [1571]	909.500000	1436.450000	1998.444081	777.500000	126.500000
## [1576]	598.450000	87.714286	1834.166667	1365.216667	1005.806061
## [1581]	5186.116667	2211.608333	167.000000	2102.581502	2003.415152
## [1586]	1490.552778	1988.658333	148.750000	134.000000	191.071429
## [1591]	809.245635	262.166667	234.992424	258.000000	133.333333
## [1596]	255.300000	1524.748377	1306.666667	224.166667	473.683333
## [1601]	686.400000	3537.991667	1896.272222	598.297619	127.500000
## [1606]	154.000000	5349.563713	98.500000	810.000000	903.000000
## [1611]	2973.008333	1093.000000	137.000000	136.750000	384.000000
## [1616]	1975.458333	758.750000	1267.155556	381.333333	1271.821212
## [1621]	827.646212	1011.500000	1267.233333	4891.972222	694.303571
## [1626]	4764.429997	1350.500000	1385.833333	285.988095	45.500000
## [1631]	1507.333333	1460.566667	214.000000	136.500000	545.571429
## [1636]	1244.833333	555.894444	429.633333	111.000000	402.690476
## [1641]	292.694444	654.066667	4990.959524	158.000000	3332.208333
## [1646]	4164.936905	1194.500000	638.333333	152.250000	631.500000
## [1651]	6860.632738	271.125000	2564.278157	896.500000	4895.022989
## [1656]	2293.599020	1449.683333	1403.841919	227.000000	461.083333
## [1661]	762.500000	74.500000	898.000000	91.000000	583.166667
## [1666]	392.928571	2819.966667	1888.500000	1801.371429	13158.666670
## [1671]	252.500000	851.333333	253.333333	717.219048	370.333333
## [1676]	5198.533333	1148.838095	152.666667	474.000000	907.500000
## [1681]	505.333333	497.000000	1103.916667	866.700000	1492.166667
## [1686]	137.500000	950.328571	1711.333333	2487.333333	829.500000
## [1691]	1163.333333	1171.333333	131.500000	81.500000	394.500000
## [1696]	336.000000	452.797619	2281.208333	1262.833333	2338.567766
## [1701]	597.833333	549.083333	1742.325216	787.200000	1239.500000

## [1706]	867.333333	4093.430519	216.166667	659.083333	2265.529221
## [1711]	729.000000	1299.500000	129.333333	122.000000	1294.251207
## [1716]	246.791667	2889.250000	3882.025758	4207.666667	199.500000
## [1721]	2529.750000	2081.000000	1845.666667	1927.031548	831.933333
## [1726]	706.299603	1888.547619	2407.322811	1528.382468	599.100000
## [1731]	4656.800366	151.200000	5378.045851	748.400000	314.833333
## [1736]	867.833333	379.000000	66.500000	994.822222	824.666667
## [1741]	443.933333	906.300000	117.000000	2424.750000	311.000000
## [1746]	2418.529040	905.600000	986.500000	3121.555556	1378.966667
## [1751]	3003.419048	2053.933333	212.500000	785.474359	316.333333
## [1756]	769.500000	298.166667	1808.333333	1184.500000	184.500000
## [1761]	2573.875000	2121.304304	4639.410534	315.366667	1464.000000
## [1766]	1483.550000	2247.608298	950.000000	6254.420122	205.000000
## [1771]	1570.500000	295.900000	524.500000	674.434524	931.500000
## [1776]	672.879487	3022.478571	877.500000	412.833333	486.500000
## [1781]	1221.853846	1370.833333	1652.000000	178.333333	1146.500000
## [1786]	2680.828571	197.500000	2295.182143	248.900000	1151.116667
## [1791]	830.000000	125.250000	2172.333333	4945.083333	358.250000
## [1796]	233.166667	528.000000	1154.766667	1522.816667	468.166667
## [1801]	432.500000	1100.916667	663.233333	2874.083333	1813.864610
## [1806]	214.692208	78.500000	534.583333	262.666667	1056.150000
## [1811]	1273.875000	875.500000	582.000000	63.666667	1443.250000
## [1816]	569.119048	386.444444	399.500000	238.500000	1506.220833
## [1821]	588.900000	1719.416667	1906.800000	457.233333	227.333333
## [1826]	517.500000	570.333333	183.095238	366.000000	280.933333
## [1831]	265.600000	109.000000	901.250000	1406.209524	972.250000
## [1836]	965.833333	236.166667	879.666667	1044.000000	901.091667
## [1841]	1671.257393	1483.366667	5538.916667	191.000000	451.933333
## [1846]	670.300000	900.916667	368.000000	1580.166667	587.691176
## [1851]	2471.391775	502.466667	3864.428571	2456.297619	2656.183333
## [1856]	599.000000	1212.000000	173.250000	599.333333	2215.866667
## [1861]	5284.765079	433.133333	1690.790351	1621.152083	454.500000
## [1866]	911.500000	1019.293939	715.500000	3147.584294	321.958333
## [1871]	169.500000	2104.311400	499.000000	120.000000	7009.095996
## [1876]	8704.372405	2058.250000	580.500000	1701.857143	312.700000
## [1881]	202.000000	908.333333	480.500000	3473.857143	277.000000
## [1886]	273.000000	360.000000	1127.250000	996.083333	227.700000
## [1891]	579.333333	237.000000	678.500000	3098.033333	285.166667
## [1896]	340.200000	231.000000	2054.114286	2008.833333	1065.900000
## [1901]	619.000000	584.133333	4107.119658	293.500000	229.666667
## [1906]	155.833333	1688.058761	3509.130952	866.500000	755.000000
## [1911]	1681.523810	2635.616270	231.500000	194.333333	1564.161905
## [1916]	854.286325	124.500000	1021.750000	2660.150000	1135.166667
## [1921]	298.233333	554.500000	335.666667	2107.583333	96.333333
## [1926]	2755.336111	653.277778	964.047619	650.666667	256.666667
## [1931]	1516.966667	648.067857	462.000000	630.500000	688.666667
## [1936]	285.416667	61.333333	2961.483333	3222.758730	500.788095
## [1941]	375.750000	534.916667	2098.238095	869.100000	1494.500000
## [1946]	699.250000	331.333333	1563.930952	419.250000	4643.755952
## [1951]	564.500000	65.666667	1462.659125	404.619048	960.733333
## [1956]	726.276190	4415.333333	723.315873	1088.050000	1688.726190
## [1961]	998.954545	1654.722222	281.500000	1501.000000	153.583333
## [1966]	483.583333	586.333333	2213.000000	178.000000	1150.192063
## [1971]	892.916667	173.000000	289.666667	633.985714	1837.966667

## [1976]	8038.325302	706.983766	11308.097950	501.500000	497.666667
## [1981]	4115.978571	2.333333	121.500000	869.000000	865.000000
## [1986]	220.333333	657.166667	1517.900000	538.287879	4139.625000
## [1991]	832.833333	464.000000	673.481380	217.000000	472.995238
## [1996]	1500.380952	692.666667	9487.639162	455.500000	259.000000
## [2001]	2065.150000	4190.750000	129.200000	607.466667	8699.407065
## [2006]	2022.250000	761.250000	874.583333	1483.000000	639.500000
## [2011]	356.000000	2132.683333	431.083333	401.950000	2524.000000
## [2016]	822.650000	1714.166667	783.500000	3258.071212	1329.261905
## [2021]	87.000000	813.800000	1039.477564	531.000000	1239.083333
## [2026]	1306.028022	543.750000	258.833333	623.416667	1040.333333
## [2031]	3395.729484	701.500000	2059.109203	203.416667	197.333333
## [2036]	300.666667	471.000000	7968.903361	2607.500000	865.672222
## [2041]	1076.977778	2818.094444	234.966667	935.000000	1662.733333
## [2046]	436.600000	716.625000	1223.416667	1286.750000	897.666667
## [2051]	2178.672222	3195.828571	1143.657143	2871.262932	417.966667
## [2056]	1248.000000	837.666667	418.233333	370.000000	743.916667
## [2061]	3178.583333	463.666667	178.600000	689.750000	963.166667
## [2066]	387.000000	534.000000	338.233333	255.750000	228.500000
## [2071]	72.900000	982.833333	473.500000	636.000000	1806.504167
## [2076]	1111.245175	1055.500000	2697.487879	272.333333	895.809524
## [2081]	607.977778	615.816667	1133.666667	2759.833333	1433.083333
## [2086]	743.666667	680.750000	118.666667	136.000000	2236.900000
## [2091]	2841.000000	895.833333	2559.541228	1161.767949	252.000000
## [2096]	385.000000	1550.211111	1738.250000	176.666667	3.000000
## [2101]	304.523077	268.500000	101.250000	361.500000	492.683333
## [2106]	397.666667	4290.833333	2542.333333	3657.101515	920.000000
## [2111]	670.422619	2101.466667	578.333333	502.500000	1283.052597
## [2116]	226.256410	1535.242063	762.333333	1266.333333	1050.708333
## [2121]	212.833333	1386.716667	2514.250000	1968.250000	1517.750000
## [2126]	1056.666667	399.000000	2743.819189	769.000000	178.833333
## [2131]	517.392857	1683.633333	833.000000	319.333333	733.500000
## [2136]	822.000000	838.550000	2479.000000	519.500000	1035.935714
## [2141]	219.500000	858.500000	54.500000	107.000000	342.500000
## [2146]	1138.504762	544.833333	176.333333	3227.500000	440.666667
## [2151]	2297.801282	22.500000	194.066667	2145.563492	1703.321429
## [2156]	1999.833333	3382.287999	2038.000000	2409.068434	9487.940434
## [2161]	4668.052051	201.666667	156.833333	412.166667	2617.233333
## [2166]	465.705128	803.000000	887.583333	394.250000	1941.083333
## [2171]	142.500000	270.214286	541.666667	1090.060606	253.800000
## [2176]	2259.533333	797.333333	594.966667	108.000000	503.000000
## [2181]	1425.750000	188.500000	1722.866667	1078.727778	2050.395743
## [2186]	1040.166667	1803.758333	2241.844444	482.500000	1225.857143
## [2191]	573.166667	507.833333	458.500000	724.000000	93.500000
## [2196]	483.300000	511.166667	2129.536752	480.300000	352.800000
## [2201]	657.500000	1384.383333	1280.166667	1822.008117	1269.766667
## [2206]	149.600000	1817.000000	9143.435714	1080.150000	316.250000
## [2211]	1783.250000	1384.533333	996.438095	368.500000	1285.548533
## [2216]	6223.870847	841.033333	1250.500000	699.500000	1766.855952
## [2221]	567.450000	90.666667	981.166667	1661.750000	548.250000
## [2226]	808.083333	87.500000	1875.744689	4346.916667	884.335714
## [2231]	1678.733333	325.833333	549.500000	4277.000000	179.500000
## [2236]	561.550000	2136.000000	2797.816667	643.875000	898.833333
## [2241]	453.000000	888.000000	9997.728571	5703.476786	1495.580952

## [2246]	2905.500000	1192.317857	355.666667	332.500000	297.300000
## [2251]	2309.995238	810.371377	384.500000	975.972222	3382.083333
## [2256]	541.500000	1343.097619	953.833333	674.500000	817.016377
## [2261]	1124.916667	7428.181584	5577.826456	887.833333	2765.200000
## [2266]	3121.283333	1190.548851	410.916667	710.500000	319.666667
## [2271]	401.500000	1311.072012	414.333333	1155.033333	1589.183333
## [2276]	233.500000	1384.071429	452.814103	1708.083333	3374.916667
## [2281]	5448.994444	654.500000	1435.000000	512.066667	797.295238
## [2286]	555.866667	2954.759524	97.166667	291.000000	472.000000
## [2291]	628.000000	1141.061905	273.500000	461.222222	1783.122222
## [2296]	731.523809	3057.809524	601.790196	1370.067857	321.666667
## [2301]	540.500000	4977.850000	1066.166667	1142.666667	1294.183333
## [2306]	1086.178571	754.226191	432.571429	1051.500000	1101.333333
## [2311]	2477.666667	1501.166667	1736.447368	269.000000	833.083333
## [2316]	86.750000	547.000000	1474.500000	323.500000	813.051948
## [2321]	2028.500000	2220.871465	440.000000	1356.000000	438.583333
## [2326]	347.666667	2931.580303	1462.450000	727.619048	553.166667
## [2331]	460.666667	2837.166667	264.000000	1638.888095	1383.500000
## [2336]	1382.665140	352.500000	1444.166667	250.083333	327.500000
## [2341]	1085.078571	2665.798039	816.500000	2877.500000	448.033333
## [2346]	6842.002513	2645.833333	586.189286	1133.016667	562.666667
## [2351]	3000.250794	816.954545	1861.500000	815.000000	165.500000
## [2356]	1090.916667	133.000000	533.071429	303.400000	516.476191
## [2361]	72.500000	652.923809	3393.903571	466.500000	2778.333333
## [2366]	677.500000	908.466667	346.833333	661.630952	324.000000
## [2371]	670.166667	183.833333	5633.538274	936.000000	1329.666667
## [2376]	1026.750000	2068.928571	118.000000	953.068687	714.500000
## [2381]	1797.298291	154.500000	805.099298	138.500000	1190.616667
## [2386]	411.388889	778.761905	512.050000	998.400000	1049.833333
## [2391]	472.916667	5645.176455	1615.000000	28.333333	283.500000
## [2396]	2694.833333	1130.846970	2478.622727	1714.400000	2213.366667
## [2401]	739.583333	3206.193407	1243.500000	1448.333333	304.000000
## [2406]	304.500000	1699.666667	4833.925000	3731.138116	1263.333333
## [2411]	4509.823016	585.178355	536.000000	2197.195238	72.666667
## [2416]	542.333333	342.166667	1190.418903	74.666667	1978.214286
## [2421]	3129.393438	751.500000	2748.624538	321.833333	2926.431962
## [2426]	2070.643939	214.333333	1592.133333	986.916667	418.333333
## [2431]	536.500000	410.116667	2650.408502	450.200000	2749.058333
## [2436]	1959.304762	869.061111	1320.500000	976.338235	522.000000
## [2441]	1008.916667	931.000000	933.333333	1552.547619	3439.733242
## [2446]	1851.500000	457.583333	2081.500000	1310.472222	1001.166667
## [2451]	3436.066667	198.166667	296.233333	1649.000000	574.333333
## [2456]	2643.333333	706.000000	2996.487500	2171.174592	255.638889
## [2461]	1925.102381	202.333333	380.166667	4324.737073	2114.083333
## [2466]	894.000000	85.000000	625.085689	164.500000	275.666667
## [2471]	5044.756890	691.000000	1569.866667	1368.484848	1697.550000
## [2476]	1134.500000	2787.250000	297.250000	352.083333	1486.666667
## [2481]	1164.099635	1360.500000	1942.933333	133.833333	1407.500000
## [2486]	1187.500000	1090.566667	115.500000	463.000000	91.500000
## [2491]	840.833333	895.973169	76.500000	104.333333	345.166667
## [2496]	869.800000	980.833333	1438.722222	423.666667	185.500000
## [2501]	421.166667	578.200000	6931.049725	522.666667	1720.416667
## [2506]	2464.900000	5459.967105	328.416667	1046.500000	354.250000
## [2511]	127.666667	455.000000	2153.718590	166.250000	578.000000

## [2516]	341.350000	40.500000	2826.790048	2078.666667	881.166667
## [2521]	950.833333	2279.222222	217.866667	1390.866667	591.892857
## [2526]	1829.183333	903.700000	2946.600000	740.500000	4566.238095
## [2531]	3158.561476	441.216667	242.000000	1439.500000	312.666667
## [2536]	56.333333	689.383333	614.333333	422.730303	485.283974
## [2541]	2588.077268	603.707143	600.000000	82.833333	483.266667
## [2546]	272.666667	4051.375000	1725.870671	359.000000	676.166667
## [2551]	707.266667	1178.000000	1916.900000	2773.166667	631.666667
## [2556]	1340.750000	282.500000	434.000000	464.666667	240.500000
## [2561]	530.000000	495.273810	2232.450000	151.000000	1845.166667
## [2566]	1523.050000	70.000000	1552.883333	381.357143	5604.977381
## [2571]	1239.949603	265.250000	657.666667	1157.452381	1673.653846
## [2576]	355.500000	5621.599206	2806.829918	557.245238	650.033333
## [2581]	1614.226190	2973.125000	3014.290476	801.509524	363.500000
## [2586]	1087.000000	681.619048	1243.180556	2504.699567	1903.666667
## [2591]	343.200000	653.000000	1564.444444	2509.250000	646.791667
## [2596]	209.833333	713.000000	112.500000	630.316667	6141.432139
## [2601]	536.266667	590.516667	490.533333	631.000000	916.250000
## [2606]	571.500000	1025.000000	1143.348504	975.750000	139.500000
## [2611]	3827.753571	2058.534091	1639.500000	720.500000	472.666667
## [2616]	568.478261	569.166667	1669.559524	986.833333	2414.900000
## [2621]	330.083333	744.833333	1540.750000	89.500000	1723.000000
## [2626]	1576.205078	506.000000	537.000000	239.750000	1470.333333
## [2631]	105.250000	1636.500000	273.250000	1623.500000	1643.333333
## [2636]	1080.266667	152.000000	574.500000	142.416667	1420.472496
## [2641]	3291.000000	1144.483333	404.000000	714.966667	527.500000
## [2646]	4313.139103	454.750000	1205.566667	1652.750000	239.500000
## [2651]	1539.000000	192.500000	2208.788095	2062.443592	1456.783333
## [2656]	604.000000	362.500000	1584.300000	3855.200000	543.833333
## [2661]	574.000000	127.750000	2666.000000	1166.333333	4758.380638
## [2666]	308.000000	2463.244841	958.250000	516.416667	689.666667
## [2671]	887.354762	2026.476190	529.333333	2376.861905	1564.173810
## [2676]	1180.000000	291.600000	871.833333	3098.992857	2340.500000
## [2681]	1927.122222	143.750000	553.000000	855.000000	880.800000
## [2686]	1721.125000	3345.685836	809.166667	466.750000	1513.000000
## [2691]	769.992857	317.500000	12065.181350	616.433333	978.000000
## [2696]	487.666667	647.500000	204.500000	72.000000	143.850000
## [2701]	258.083333	99.700000	1886.500000	1987.533333	391.866667
## [2706]	791.955952	2259.200000	1232.733333	1397.500000	183.500000
## [2711]	765.445454	1006.666667	764.750000	1304.666667	1336.554221
## [2716]	336.800000	813.100000	664.333333	655.000000	5407.788889
## [2721]	691.500000	3772.405525	24.500000	2154.723810	883.000000
## [2726]	632.000000	180.500000	73.666667	1097.050000	611.000000
## [2731]	724.133333	441.000000	1803.584127	855.250000	466.666667
## [2736]	2311.090909	309.800000	889.000000	78.250000	142.166667
## [2741]	647.666667	836.833333	1145.571429	984.000000	2797.213095
## [2746]	388.744444	3872.509420	818.500000	4115.233333	146.766667
## [2751]	3268.075758	295.000000	261.600000	413.722222	1005.000000
## [2756]	2222.900000	467.952381	870.666667	1010.166667	27.500000
## [2761]	1353.115146	542.166667	623.966667	782.500000	442.166667
## [2766]	696.402778	443.208333	262.000000	1144.000000	251.333333
## [2771]	468.191667	180.000000	1993.915257	174.833333	1501.333333
## [2776]	1584.044444	438.075000	687.533333	826.850000	4086.144897
## [2781]	894.666667	1858.733333	368.333333	211.333333	1197.666667

## [2786]	671.666667	3473.733333	2515.100000	967.250000	388.500000
## [2791]	906.000000	548.883117	262.375000	549.000000	1564.000000
## [2796]	884.804062	1651.928571	243.833333	5492.366667	731.333333
## [2801]	1752.942857	274.250000	3583.166667	474.681818	71.750000
## [2806]	6100.527778	3646.278788	778.000000	592.566667	343.666667
## [2811]	1249.628205	1260.666667	1377.409524	675.833333	1259.000000
## [2816]	1472.000000	2394.000000	190.400000	253.166667	579.583333
## [2821]	297.000000	597.333333	2900.638469	934.000000	1098.000000
## [2826]	5478.530087	1873.166667	2129.333333	1721.872725	655.166667
## [2831]	1008.416667	1033.066667	463.416667	4153.276587	456.333333
## [2836]	84.333333	56.500000	128.333333	1205.583333	4987.688889
## [2841]	1845.333333	1195.726923	457.404780	189.666667	788.266667
## [2846]	1647.500000	1483.333333	304.750000	1207.000000	893.450000
## [2851]	794.500000	2725.000000	746.166667	433.833333	123.500000
## [2856]	1905.652754	162.500000	304.166667	2246.166667	2210.500000
## [2861]	417.000000	689.000000	789.666667	879.916667	202.833333
## [2866]	506.766667	806.500000	1835.066667	5016.351205	5664.146032
## [2871]	7515.583333	1248.242262	1485.566667	2816.553070	3209.000000
## [2876]	1420.733333	347.000000	45.333333	287.291667	1580.000000
## [2881]	2071.000000	190.750000	4377.983333	519.916667	618.000000
## [2886]	193.333333	1296.942857	305.428571	440.600000	1689.000000
## [2891]	1518.903694	727.714286	302.983333	2831.561111	480.857143
## [2896]	1575.216667	1546.503822	944.297619	186.000000	796.300000
## [2901]	1035.821429	298.500000	2886.523521	2663.823810	2789.166667
## [2906]	982.000000	295.666667	3242.000000	1735.595238	908.500000
## [2911]	2094.983333	608.400000	203.666667	3731.079365	1042.416667
## [2916]	1034.583333	590.833333	819.000000	2091.662821	3279.407576
## [2921]	896.066667	309.000000	1609.313889	887.916667	462.733333
## [2926]	1192.500000	3085.007143	260.200000	1425.183333	746.800000
## [2931]	1193.000000	2387.990657	3068.922487	3096.375000	1040.200000
## [2936]	180.166667	1217.200000	80.500000	3272.000000	1075.759524
## [2941]	399.666667	166.166667	77.666667	641.500000	5432.836783
## [2946]	380.000000	1556.600000	752.459208	2451.869048	777.217532
## [2951]	1295.916667	1222.333333	1212.030303	783.450000	2574.725974
## [2956]	648.000000	2277.377056	3981.892484	222.666667	2454.450000
## [2961]	1479.083333	5233.590476	3156.501914	525.666667	341.366667
## [2966]	152.333333	619.400000	1545.833333	1525.666667	1838.500000
## [2971]	693.500000	1337.245455	2199.972222	374.380952	819.916667
## [2976]	953.500000	4877.257071	83.500000	1363.263492	1859.083333
## [2981]	2453.750000	135.833333	165.800000	196.833333	207.166667
## [2986]	535.466667	1342.500000	520.600000	290.833333	538.966667
## [2991]	319.500000	168.285714	1562.866667	310.500000	411.800000
## [2996]	1706.712281	1431.666667	1230.368182	259.500000	960.833333
## [3001]	2130.025000	4569.904365	1496.833333	376.333333	805.000000
## [3006]	506.716667	596.083333	313.333333	452.583333	1620.183333
## [3011]	963.000000	327.666667	743.166667	679.500000	2598.991667
## [3016]	813.388889	6483.775000	408.250000	3646.966667	2058.500000
## [3021]	1115.459524	831.690476	126.833333	1365.500000	1624.223485
## [3026]	1511.000000	364.666667	1073.500000	957.900000	1608.500000
## [3031]	1075.713095	994.575758	1137.166667	2039.000000	1603.333333
## [3036]	2531.060479	601.971429	862.000000	1840.666667	2299.391667
## [3041]	5426.022078	3098.912088	337.166667	2326.666667	736.783333
## [3046]	1123.691667	1232.026840	1367.630952	1887.694444	443.000000
## [3051]	1388.866667	1107.466667	2533.833333	51.000000	637.500000

## [3056]	669.916667	1005.946429	1270.166667	186.166667	140.500000
## [3061]	147.000000	973.583333	306.333333	3386.000000	117.666667
## [3066]	1160.000000	1324.666667	1058.189474	354.833333	2241.500000
## [3071]	518.000000	764.500000	582.400000	798.535714	629.500000
## [3076]	623.076923	6657.151362	2213.819048	647.816667	645.500000
## [3081]	1221.138095	606.785714	4773.335638	3700.495815	307.571429
## [3086]	747.400000	1578.000000	1810.966667	710.000000	338.500000
## [3091]	237.333333	190.250000	2544.166667	2605.702273	296.550000
## [3096]	426.000000	598.778571	885.125000	783.250000	259.666667
## [3101]	177.404762	99.000000	1900.896078	1296.716667	926.669048
## [3106]	5343.049577	1296.183333	1159.666667	496.666667	624.624896
## [3111]	177.333333	2869.788095	210.200000	377.000000	667.666667
## [3116]	350.833333	3394.130159	545.500000	1324.616667	322.000000
## [3121]	1373.950000	939.633333	3970.700000	2325.611905	90.750000
## [3126]	209.000000	443.250000	1044.800000	783.566667	2124.833333
## [3131]	402.716667	557.404762	1062.749495	1231.200000	98.333333
## [3136]	5293.824709	1230.312302	710.908333	356.500000	1975.633333
## [3141]	248.833333	1311.000000	2473.250000	110.750000	581.226191
## [3146]	1634.095238	473.750000	602.000000	4651.033333	2854.783333
## [3151]	701.000000	506.166667	791.000000	401.166667	852.766667
## [3156]	2670.869444	898.171429	243.416667	7675.149290	182.166667
## [3161]	547.500000	3540.239394	1386.633333	673.125000	158.333333
## [3166]	1523.416667	856.333333	289.750000	2555.123810	566.500000
## [3171]	453.333333	489.250000	6266.208586	88.950000	2423.750000
## [3176]	1606.831818	692.622222	48.500000	2232.500000	90.333333
## [3181]	13259.293960	149.500000	1638.500000	1926.333390	845.833333
## [3186]	2950.623810	813.000000	1390.388889	1345.755952	1369.750000
## [3191]	138.800000	1164.416667	1740.271008	1994.500000	283.000000
## [3196]	459.666667	1527.166667	1151.200000	266.000000	2061.066667
## [3201]	360.083333	989.333333	1822.841667	2080.750000	407.500000
## [3206]	2782.750000	285.666667	1381.750000	3289.500000	19.600000
## [3211]	488.333333	760.000000	401.968254	2072.991919	2504.413636
## [3216]	488.000000	1505.333333	2763.250000	947.000000	365.750000
## [3221]	363.300000	1188.950000	312.033333	244.666667	338.857143
## [3226]	219.000000	2964.590278	1820.566667	888.333333	785.383333
## [3231]	528.196429	177.733333	502.000000	1148.500000	13430.976060
## [3236]	682.200000	1933.898930	1632.733333	737.261905	113.000000
## [3241]	722.700000	1058.023810	1456.273810	3909.620363	1219.516667
## [3246]	4516.588312	1839.833333	1217.430556	2088.443506	3503.025000
## [3251]	2715.000000	351.750000	819.833333	193.500000	174.500000
## [3256]	287.750000	1326.250000	386.850000	4322.779121	1229.166667
## [3261]	4555.023810	1956.022222	584.333333	497.538889	5072.395938
## [3266]	115.050000	477.500000	3727.323810	668.250000	677.950000
## [3271]	364.416667	384.157143	1844.416667	1115.878205	12.500000
## [3276]	598.600000	1019.500000	5996.025000	3593.129320	1687.850000
## [3281]	3372.826797	392.166667	559.380952	421.600000	538.200000
## [3286]	1471.858333	304.275000	2425.083333	223.333333	2584.714286
## [3291]	1739.250000	569.513889	1420.547902	591.250000	167.500000
## [3296]	567.750000	106.500000	2461.250000	1038.797619	724.333333
## [3301]	1238.375000	1306.100000	335.000000	1193.333333	1930.333333
## [3306]	1175.500000	3083.050977	739.066667	1233.250000	1660.354762
## [3311]	221.000000	1039.244444	270.571429	384.400000	228.666667
## [3316]	2351.333333	501.750000	267.500000	1599.266667	2042.250000
## [3321]	990.919118	443.500000	2958.500000	1307.666667	1723.750000

## [3326]	352.416667	257.000000	1149.433333	364.500000	124.000000
## [3331]	777.000000	726.000000	700.666667	1282.000000	1165.623254
## [3336]	3510.416667	442.000000	612.750000	1580.600000	1090.533333
## [3341]	743.011905	2228.516667	345.250000	852.333333	1122.583333
## [3346]	716.950000	412.333333	3373.015865	498.500000	2852.000000
## [3351]	209.250000	3837.500000	1205.945238	5731.094444	1077.000000
## [3356]	1238.066667	728.200000	2218.276547	5882.174206	819.166667
## [3361]	570.500000	1527.607143	831.608333	952.533333	478.500000
## [3366]	1699.327668	47.500000	859.166667	708.916667	3712.811600
## [3371]	1279.333333	634.000000	3086.398654	174.000000	2205.666667
## [3376]	553.500000	1644.857143	3900.428571	944.233333	1137.000000
## [3381]	1340.611199	1348.700000	752.716667	2734.818254	2498.029762
## [3386]	974.269841	1728.025397	77.500000	698.833333	34.833333
## [3391]	986.516667	597.000000	606.500000	246.933333	1067.795238
## [3396]	698.583333	3095.975000	220.384849	2041.083333	405.333333
## [3401]	237.250000	1364.000000	3177.791667	1045.000000	676.000000
## [3406]	232.833333	3229.169841	584.000000	1179.014103	523.735065
## [3411]	177.666667	157.900000	824.833333	557.333333	499.500000
## [3416]	222.500000	3816.366667	78.666667	543.775000	1248.133333
## [3421]	697.166667	1423.967857	1379.500000	831.666667	186.933333
## [3426]	34.500000	454.289177	1201.600000	180.666667	3825.102381
## [3431]	3639.737302	344.333333	1447.577273	349.000000	1977.050000
## [3436]	706.400000	1815.279762	113.500000	164.916667	838.166667
## [3441]	12634.620890	553.583333	1155.000000	93.700000	4200.597222
## [3446]	141.500000	543.300000	886.958333	1887.158242	565.000000
## [3451]	1032.761905	879.033333	1332.088889	355.000000	272.000000
## [3456]	241.200000	1065.501515	612.583333	2516.833333	1814.564286
## [3461]	1880.966667	868.416667	2980.889179	893.216667	1331.000000
## [3466]	64.500000	4010.064286	2759.633333	2543.500000	1246.124103
## [3471]	850.035714	849.750000	385.500000	9951.869139	1038.333333
## [3476]	741.833333	253.554167	537.200000	1514.600000	3899.001328
## [3481]	2008.807143	1889.700000	725.333333	501.766667	718.666667
## [3486]	450.833333	867.464286	1203.083333	484.000000	595.341667
## [3491]	969.150000	790.166667	4033.471998	460.000000	1167.966667
## [3496]	409.303030	232.566667	1645.966667	428.450000	2872.916667
## [3501]	100.500000	1622.433333	589.666667	841.166667	1147.615584
## [3506]	2724.008983	248.416667	2537.450000	3733.228571	598.250000
## [3511]	161.166667	1474.233333	116.833333	2054.333333	476.000000
## [3516]	1217.850000	625.000000	1760.000000	1470.416667	4522.409524
## [3521]	1804.900000	63.500000	887.666667	1411.833333	2240.166667
## [3526]	3618.016667	1245.600000	1675.525366	220.966667	959.000000
## [3531]	278.914286	458.700000	759.666667	1740.450000	603.000000
## [3536]	1053.080952	1289.250000	192.750000	463.833333	697.516667
## [3541]	1431.333333	754.916667	161.500000	880.000000	1539.791667
## [3546]	945.666667	1261.166667	1037.807143	526.028138	659.935714
## [3551]	419.352381	1265.750000	2421.060623	4079.530461	428.666667
## [3556]	759.085714	1440.000000	4426.650649	861.333333	619.500000
## [3561]	806.833333	1131.315476	1816.427273	566.727273	468.833333
## [3566]	1247.357143	407.833333	95.300000	92.500000	364.350000
## [3571]	4175.750000	1190.400000	99.666667	5978.180357	2411.789279
## [3576]	111.416667	1225.000000	4681.894444	645.709524	252.892857
## [3581]	1722.500000	35.666667	460.450000	778.358333	713.333333
## [3586]	67.333333	392.466667	198.884849	961.549351	1155.500000
## [3591]	575.000000	881.741270	1511.195238	400.666667	674.247619

## [3596]	723.250000	976.000000	551.666667	446.833333	914.506061
## [3601]	549.916667	1383.166667	1271.333333	359.166667	3010.532051
## [3606]	5287.233333	237.095238	2387.435714	860.316667	148.333333
## [3611]	1089.642857	1229.250000	1934.992857	1905.152381	35.500000
## [3616]	148.000000	733.252381	1559.650000	208.833333	204.166667
## [3621]	434.671429	649.500000	2052.833333	1119.716667	1192.226190
## [3626]	292.000000	491.000000	3141.258333	1222.470924	1552.504762
## [3631]	922.208333	831.388889	593.507143	964.070513	421.250000
## [3636]	1633.833333	2581.208333	513.400000	1971.194444	247.000000
## [3641]	1911.333333	3025.283333	1846.635470	1955.783333	634.666667
## [3646]	724.066667	8388.316083	2162.224767	4339.534423	416.833333
## [3651]	213.366667	1107.666667	1851.833333	1120.266667	1215.766667
## [3656]	2562.083333	2827.428571	3596.933967	1880.271429	4713.800000
## [3661]	1974.702597	960.000000	1189.333333	1021.000000	970.419264
## [3666]	507.333333	1356.457359	2308.261905	935.557143	88.750000
## [3671]	1847.211905	420.200000	109.500000	4167.488095	660.404762
## [3676]	375.661905	1060.451515	1269.500000	2280.833333	2582.696970
## [3681]	548.000000	2046.500000	2530.500000	1705.041667	2066.927778
## [3686]	350.425397	344.500000	586.533333	1557.166667	2915.166667
## [3691]	100.166667	421.500000	1453.900000	408.500000	1244.066667
## [3696]	837.416667	454.226190	1753.583333	1352.816503	1380.833333
## [3701]	684.500000	1586.333333	575.666667	1319.833333	979.016667
## [3706]	948.000000	315.250000	549.333333	304.333333	1527.583333
## [3711]	856.416667	1075.500000	1919.245230	4712.769322	482.666667
## [3716]	2012.900794	1714.868651	650.833333	781.500000	665.984848
## [3721]	255.322222	2083.300000	1143.371078	630.871912	1122.272727
## [3726]	821.333333	7706.546429	626.000000	857.000000	1859.500000
## [3731]	625.308112	1209.761905	801.583333	1115.750000	280.083333
## [3736]	260.300000	1562.000000	3148.173939	464.583333	310.000000
## [3741]	1287.000000	601.768182	3364.191667	490.083333	954.500000
## [3746]	3283.722222	1412.500000	1828.774603	1381.733333	890.000000
## [3751]	1183.500000	536.035714	1917.683333	2362.500000	393.000000
## [3756]	730.533333	1563.000000	717.000000	2928.777778	884.333333
## [3761]	606.416667	261.700000	431.500000	184.833333	1135.860714
## [3766]	815.475000	678.000000	2351.050000	2588.500000	463.333333
## [3771]	1383.191667	877.666667	5883.040509	4501.433700	3357.340476
## [3776]	943.619048	1056.616667	406.800000	48.333333	148.166667
## [3781]	1799.833333	1189.458333	815.833333	703.833333	1066.000000
## [3786]	1630.972222	86.500000	2660.245238	924.000000	1183.233333
## [3791]	1712.833333	1041.316345	814.607143	269.750000	725.900000
## [3796]	768.500000	2506.333333	683.173809	1445.600000	1853.535714
## [3801]	2216.668320	43171.233380	6897.942424	1718.500000	43.500000
## [3806]	1086.074242	1799.144235	2075.983333	830.933333	582.500000
## [3811]	1288.066667	230.100000	1384.972222	176.500000	1945.321429
## [3816]	589.573810	1243.808820	572.880952	1277.833333	347.547619
## [3821]	1100.125000	473.000000	680.000000	533.500000	539.000000
## [3826]	340.000000	1747.125000	1594.972222	1227.000000	2450.435809
## [3831]	683.052489	392.400000	332.750000	379.416667	2259.550000
## [3836]	193.666667	862.573810	1580.833333	1603.500000	1323.250000
## [3841]	1227.047222	777.366667	1871.788041	193.750000	1007.900000
## [3846]	1754.000000	2141.400000	1742.883333	132.233333	85.500000
## [3851]	1061.000000	274.000000	987.500000	415.500000	326.666667
## [3856]	1476.500000	2710.570238	64.333333	486.000000	1518.097619
## [3861]	367.376191	513.940476	1349.250000	848.205128	375.600000

## [3866]	724.316667	957.666667	511.500000	776.413816	605.672222
## [3871]	2765.444444	2351.700000	1145.000000	3413.833333	3072.305403
## [3876]	2179.666667	382.490260	1083.690476	720.750000	314.250000
## [3881]	1066.666667	4749.240385	1046.916667	1748.000000	549.550000
## [3886]	734.000000	662.666667	383.000000	327.266667	2529.166667
## [3891]	792.666667	797.166667	465.666667	1449.000000	376.500000
## [3896]	2860.500000	462.500000	172.111111	195.666667	992.000000
## [3901]	526.833333	1129.214286	2676.000000	3545.191270	315.000000
## [3906]	1702.369048	2874.966667	459.963636	710.666667	821.166667
## [3911]	745.166667	3615.889239	2949.550000	839.666667	1432.500000
## [3916]	1475.266667	1341.261111	1384.500000	2101.733333	2720.700000
## [3921]	116.666667	4541.925000	1014.833333	182.416667	122.500000
## [3926]	278.000000	1906.476190	819.271569	328.321429	34.333333
## [3931]	436.812500	402.333333	1934.990476	576.833333	1421.668627
## [3936]	934.366667	277.500000	918.083333	4797.987915	901.916667
## [3941]	1093.154762	2382.428571	1417.666667	1948.713745	588.719048
## [3946]	356.166667	1156.384921	1995.466667	1424.866667	444.100000
## [3951]	333.900000	558.333333	94.333333	981.000000	773.559524
## [3956]	944.916667	418.000000	1092.364286	485.083333	672.583333
## [3961]	1022.474026	765.166667	2235.000000	2207.833333	512.833333
## [3966]	4126.353297	837.366667	1986.251515	2347.716667	287.500000
## [3971]	497.100000	1245.000000	3262.350896	1541.327451	1793.777778
## [3976]	885.000000	646.285714	7253.676493	344.321429	21.666667
## [3981]	334.000000	608.522727	1977.385088	1569.166667	631.306863
## [3986]	782.083333	1562.333333	1199.522619	103.833333	2250.083333
## [3991]	747.000000	298.690476	1572.273810	241.769231	2839.750000
## [3996]	275.702381	681.761905	2072.666667	207.570248	201.133333
## [4001]	120.400000	1342.083333	608.883333	315.400000	419.600000
## [4006]	1721.906667	2307.661212	41.400000	652.376667	6512.010952
## [4011]	493.303390	209.700000	68.400000	942.800000	5692.211713
## [4016]	106.800000	1011.016667	307.616667	701.016667	478.600000
## [4021]	710.066667	1228.500000	1514.300000	278.433333	86.533333
## [4026]	528.966667	402.750000	2988.883333	844.580000	407.683333
## [4031]	964.466667	201.600000	523.600000	968.692424	207.933333
## [4036]	1062.666667	2697.022104	2707.386667	303.100000	3572.241757
## [4041]	3287.000000	902.770000	519.866667	1091.394074	349.576190
## [4046]	1087.700000	1182.432333	1254.000000	778.833333	378.400000
## [4051]	2248.914286	558.611111	191.100000	267.566667	4152.763100
## [4056]	645.200000	991.715547	1677.666667	354.900000	74.600000
## [4061]	1304.973333	873.640000	1807.227778	1667.158421	227.100000
## [4066]	331.300000	118.913333	165.400000	147.900000	165.100000
## [4071]	1553.523810	777.414615	441.604545	897.190000	352.700000
## [4076]	214.053333	278.136667	66.533333	1321.700000	1570.133333
## [4081]	1893.466667	1070.098072	1114.733333	469.540000	1582.533333
## [4086]	33.200000	682.183333	1939.571111	3611.978569	1555.967143
## [4091]	62.400000	889.366667	4306.612355	1069.700000	1199.616667
## [4096]	1893.619048	1324.680000	230.566667	98.566667	5194.857143
## [4101]	342.686667	2517.583333	348.033333	283.700000	907.236364
## [4106]	122.166667	259.200000	58.200000	47.133333	2000.618333
## [4111]	4143.175238	812.287389	3252.200476	471.477778	764.133333
## [4116]	1275.900000	86.360000	152.600000	420.246667	136.100000
## [4121]	1779.163333	5175.377371	3428.527381	1356.866667	5771.466862
## [4126]	479.585714	131.200000	161.866667	261.800000	184.100000
## [4131]	555.400000	2621.621429	230.200000	191.150000	45.200000

## [4136]	136.066667	2653.500000	27.200000	6186.172260	58.400000
## [4141]	1163.266667	440.226190	1489.590909	1590.420000	545.100000
## [4146]	517.400000	275.000000	199.133333	583.000000	1556.523333
## [4151]	328.300000	572.600000	2031.506667	129.761111	307.700000
## [4156]	276.733333	4044.465674	4208.752099	7548.633333	820.363636
## [4161]	791.800000	2518.266667	1804.011111	781.516667	510.380000
## [4166]	87.600000	2012.660952	309.550000	1556.491429	1061.550000
## [4171]	182.514286	125.266667	75.050000	118.500000	1808.162266
## [4176]	1219.700000	268.400000	2347.333333	817.795811	1011.916667
## [4181]	1646.200000	2383.139223	752.560000	199.600000	386.180000
## [4186]	464.933333	217.600000	3210.848218	277.450000	512.716667
## [4191]	1286.050476	9630.209524	140.200000	43.700000	606.366667
## [4196]	243.750000	254.250000	539.500000	135.200000	346.386667
## [4201]	2103.938772	768.413333	5738.902193	64.600000	559.560000
## [4206]	53.400000	55.400000	206.600000	1267.453333	621.200000
## [4211]	148.933333	2359.522438	44.800000	579.300000	118.266667
## [4216]	651.765897	728.866667	1712.776667	2498.866667	1371.415714
## [4221]	3362.749679	515.233333	2636.513492	1644.233333	171.700000
## [4226]	1747.700000	270.900000	1474.533333	1131.800000	327.538095
## [4231]	1867.033333	50.200000	16.200000	806.026667	243.300000
## [4236]	4864.147143	374.900000	672.950000	623.200000	137.600000
## [4241]	1083.751630	1955.168685	3357.053333	1200.354444	1268.266667
## [4246]	4622.000000	470.896667	1085.891081	1109.233333	587.200000
## [4251]	283.333333	369.100000	436.800000	4376.902655	1427.676667
## [4256]	511.200000	518.396667	7220.776667	552.480000	259.553333
## [4261]	799.104942	1007.233333	1668.125238	189.200000	2303.960000
## [4266]	158.420000	1702.500000	546.669697	279.766667	1077.373333
## [4271]	1534.815256	268.452597	116.800000	477.700000	4402.250000
## [4276]	334.400000	408.466667	5943.547619	479.100000	677.333333
## [4281]	2074.929524	4204.433333	139.433333	591.264060	3747.833333
## [4286]	274.300000	1280.020000	2435.697531	4536.308139	203.350000
## [4291]	421.785714	485.633333	836.100000	1500.213333	845.300000
## [4296]	194.400000	58.600000	1911.711111	253.100000	36.600000
## [4301]	821.893333	1693.730000	157.066667	804.043082	1514.703333
## [4306]	501.071429	9447.578514	437.400000	719.883333	521.866667
## [4311]	55.300000	2150.433333	707.911667	96.700000	443.750000
## [4316]	27.266667	643.433333	283.721429	883.976191	18.100000
## [4321]	1970.000000	52.300000	1888.200000	1092.183333	244.200000
## [4326]	2104.573984	1487.229317	2623.580864	875.933333	2968.900000
## [4331]	310.971429	675.202099	1321.322222	2227.800000	6412.233333
## [4336]	295.333333	1216.364286	1608.700000	1476.021429	1156.500000
## [4341]	327.773333	1759.066667	5018.328289	631.085714	192.400000
## [4346]	381.600000	1002.366667	213.283333	1950.386667	110.300000
## [4351]	2097.420000	1288.563333	654.200000	28.200000	507.111111
## [4356]	1904.653507	262.587619	761.500000	463.694048	196.333333
## [4361]	403.833333	799.061905	472.900000	1983.225629	311.700000
## [4366]	779.262857	334.383333	1213.650000	617.150000	398.256667
## [4371]	271.466667	2129.989707	476.177778	4240.036205	35.333333
## [4376]	1170.733333	687.196667	126.916667	70.400000	213.171429
## [4381]	681.580000	1728.866268	7959.909524	222.300000	4304.366905
## [4386]	145.200000	4895.260000	186.066667	295.033333	616.500000
## [4391]	362.600000	504.028571	1323.093695	1760.657143	2026.633333
## [4396]	32.200000	157.200000	517.660000	1623.666667	981.508333
## [4401]	902.973810	316.200000	608.216667	165.200000	269.535714

## [4406]	3220.336667	1257.900000	21857.046480	2477.536550	789.366667
## [4411]	363.600000	281.433333	1346.200000	3146.709481	57.400000
## [4416]	78.100000	431.200000	1060.693791	675.684624	46.800000
## [4421]	127.400000	2092.673810	149.900000	1033.206667	1392.100000
## [4426]	1571.123810	1081.713333	1036.531780	2400.667778	217.761111
## [4431]	394.800000	2256.749540	1373.933333	2091.480392	1261.700000
## [4436]	1107.116667	981.601429	187.200000	332.800000	244.700000
## [4441]	365.774339	2322.866667	199.400000	20.200000	2260.838889
## [4446]	647.518523	288.433333	394.558095	532.000000	770.107180
## [4451]	4651.612222	355.850000	432.766667	284.783333	314.293333
## [4456]	328.900000	179.800000	905.122626	28.600000	7835.874629
## [4461]	590.600000	387.766667	2731.500000	1567.846667	2146.757984
## [4466]	595.800000	1568.320833	1147.696667	1992.733333	587.733333
## [4471]	1294.566667	652.566667	1750.371795	704.950000	725.210000
## [4476]	7243.649316	192.900000	21.200000	1693.633333	411.466667
## [4481]	257.900000	1738.472529	589.421429	1028.566667	1510.006667
## [4486]	249.409524	2101.305092	365.583333	281.100000	230.280000
## [4491]	1540.290115	1570.681813	1178.496667	572.650000	829.800000
## [4496]	5526.080123	575.816667	1062.812542	858.200000	3025.333333
## [4501]	384.403030	192.733333	451.700000	1294.599603	1135.880556
## [4506]	75.600000	755.876984	934.316667	60.400000	75.200000
## [4511]	639.756667	1009.550000	475.300000	2138.481263	176.800000
## [4516]	1341.716667	84.100000	3264.128466	488.716667	340.916667
## [4521]	250.200000	1618.233333	168.528571	384.800000	219.600000
## [4526]	1041.733333	1606.450000	599.919048	1138.793636	9050.459482
## [4531]	825.799048	1553.800000	43.200000	1242.776046	3275.113333
## [4536]	2767.200000	4897.845238	62.800000	263.266667	1871.900000
## [4541]	3346.969048	568.968333	3799.200000	85.600000	2306.047619
## [4546]	1256.825000	18171.794540	749.233333	93.600000	3098.649444
## [4551]	359.400000	4984.371429	102.200000	5330.633333	1684.496667
## [4556]	1216.352121	2011.966667	1685.747985	1417.022222	2436.605534
## [4561]	505.550000	987.119048	11729.408040	103.600000	14.200000
## [4566]	2728.755000	176.833333	111.600000	347.400000	286.700000
## [4571]	266.660000	222.255714	518.443333	490.566667	9836.068333
## [4576]	423.500000	886.570000	558.193333	864.100000	8468.339278
## [4581]	1267.060000	1074.683333	139.800000	526.000000	299.266667
## [4586]	2580.634935	1892.198319	668.700000	1301.300000	1835.500000
## [4591]	155.900000	36.400000	751.626667	939.783333	584.740000
## [4596]	31.200000	570.183229	331.550000	469.868182	776.923251
## [4601]	982.600000	683.400000	1029.170303	797.840000	512.900000
## [4606]	1023.960000	146.133333	393.409524	129.583333	222.233333
## [4611]	2110.255093	1282.953333	1299.196667	1631.400000	340.650000
## [4616]	846.200000	39.950000	1045.300000	5066.661100	3161.074762
## [4621]	1780.700000	431.900000	655.383333	436.858333	2651.943186
## [4626]	809.693333	456.150000	11.100000	162.533333	461.233333
## [4631]	539.227381	2293.490129	2239.502857	839.568189	1838.150000
## [4636]	23050.104140	304.700000	1691.236147	1177.506667	6053.466667
## [4641]	6978.613711	183.800000	1143.666667	753.300000	1844.650000
## [4646]	67.850000	1826.441667	1183.826667	4565.930621	104.950000
## [4651]	358.400000	50.400000	1033.650000	453.400000	1037.833333
## [4656]	2385.666667	1639.069361	910.080952	493.400000	538.480000
## [4661]	5107.034928	34.200000	788.500000	1576.252222	223.800000
## [4666]	3827.498846	860.021746	1021.838095	150.800000	668.316667
## [4671]	672.264444	778.966667	550.709524	2408.312828	20.600000

## [4676]	2611.747653	458.256032	2041.626667	1386.350000	827.533333
## [4681]	2260.857143	158.366667	1932.716667	284.100000	2007.206667
## [4686]	481.966667	619.533333	842.423593	585.883333	599.613333
## [4691]	1321.853333	60.900000	321.233333	3539.944615	533.110000
## [4696]	694.454978	709.400000	217.716667	1126.666667	1054.300000
## [4701]	1003.658333	1845.394615	447.200000	1345.136667	6606.726779
## [4706]	315.466667	481.310000	955.333333	223.466667	982.757619
## [4711]	1850.116667	6984.611525	126.933333	66.400000	2559.433333
## [4716]	188.400000	489.150000	63.400000	245.166667	113.433333
## [4721]	342.000000	718.956667	1341.632619	641.516667	477.716667
## [4726]	199.284444	349.116667	166.900000	1210.917778	568.100000
## [4731]	6065.016218	344.800000	761.223333	225.680000	1446.733333
## [4736]	14577.084980	35.400000	178.500000	240.300000	1165.840000
## [4741]	3004.628109	830.314253	161.200000	598.433333	1854.915556
## [4746]	59.400000	524.060000	362.102982	422.133333	797.003333
## [4751]	5286.587577	205.856667	1635.466667	154.900000	936.416667
## [4756]	3739.635556	320.266667	1370.127838	2074.401905	341.360000
## [4761]	3566.992857	349.111111	396.471429	172.133333	3888.278636
## [4766]	641.655892	153.900000	296.766667	19.200000	223.100000
## [4771]	1123.246667	2103.628837	805.500000	16093.309410	147.733333
## [4776]	1324.850000	1854.260000	1049.050000	853.850272	163.200000
## [4781]	1843.759347	2269.900000	839.733333	1195.800000	856.200000
## [4786]	13842.458330	2101.467925	12541.776280	1566.333333	942.687922
## [4791]	1308.573395	589.800000	159.200000	151.081818	397.800000
## [4796]	481.400000	883.120000	920.700000	336.300000	1954.400000
## [4801]	580.650000	323.300000	132.800000	353.900000	2032.396960
## [4806]	66.900000	1413.768571	131.978571	804.189913	131.800000
## [4811]	15.240000	5602.006712	1722.721127	114.533333	657.420000
## [4816]	589.251066	1391.105556	67.600000	2219.583333	1314.112346
## [4821]	195.166667	248.050000	1530.006667	1423.000000	1294.405000
## [4826]	285.680000	211.100000	352.875000	318.766667	51.066667
## [4831]	276.366667	368.680000	38.300000	4249.120000	944.405556
## [4836]	107.800000	2364.650000	425.096905	528.250000	276.350000
## [4841]	52.400000	905.100000	274.750000	1459.576667	3528.691250
## [4846]	351.400000	4590.381905	35.927778	1526.141190	1463.480000
## [4851]	585.370000	211.633333	271.578571	363.677619	274.700000
## [4856]	1249.048358	89.866667	54.400000	237.606667	929.200000
## [4861]	158.933333	6684.520952	7604.397831	1108.653333	2285.200000
## [4866]	1256.293333	183.650000	232.000000	101.272727	443.566667
## [4871]	1388.000000	557.400000	1004.383333	113.800000	249.410000
## [4876]	743.531429	809.433333	951.441270	86.600000	30.400000
## [4881]	339.500000	1010.633333	4318.668082	5876.459165	25.800000
## [4886]	502.508333	257.933333	236.800000	266.800000	3778.345000
## [4891]	598.761111	3111.362121	897.361905	2159.500000	2128.704568
## [4896]	1261.316667	48.400000	3297.491311	431.533333	1761.156667
## [4901]	5523.926505	263.712857	1225.200000	98.600000	390.200000
## [4906]	272.900000	6117.814359	8024.509197	18.200000	2240.996667
## [4911]	2525.307766	267.800000	1101.803333	401.900000	360.181667
## [4916]	923.220000	983.425000	41.133333	789.533333	898.491579
## [4921]	10278.904210	3886.823333	627.654286	92.700000	3708.392857
## [4926]	721.183333	132.400000	722.133333	1167.187143	810.833333
## [4931]	234.016667	252.300000	71.350000	1543.423333	1429.616667
## [4936]	2214.666667	1770.800000	293.033333	300.766667	2230.600476
## [4941]	4994.848002	533.300000	1572.816667	122.400000	426.066667

## [4946]	161.150000	458.610000	252.983333	7091.697778	674.533333
## [4951]	194.228571	1076.650000	1376.300000	1017.775758	824.860000
## [4956]	273.800000	106.966667	27.600000	338.200000	987.770000
## [4961]	3282.583983	51.300000	796.706667	587.900000	2149.190195
## [4966]	507.500000	930.366667	794.713115	1739.575000	4424.621667
## [4971]	897.800000	891.568795	1516.730000	1713.216190	7442.388149
## [4976]	245.400000	922.300000	425.033333	2889.946154	614.640952
## [4981]	150.600000	3898.816667	381.616667	3818.308629	169.166667
## [4986]	1433.163333	81.666667	348.540000	447.716667	1678.400000
## [4991]	1388.052366	1335.773333	2921.902778	535.399524	650.133333
## [4996]	841.358333	544.100000	626.600000	5332.547778	44.400000
## [5001]	1096.420000	169.966667	2084.479524	979.000000	1438.710000
## [5006]	2184.484938	803.583333	133.366667	1535.666667	531.720000
## [5011]	1805.146667	5284.816825	245.600000	950.016667	70.466667
## [5016]	5721.800123	336.883333	428.300000	163.900000	4948.398759
## [5021]	3296.550000	7263.957157	107.200000	792.733333	1555.601212
## [5026]	3173.210417	119.200000	2021.400000	65.400000	493.580000
## [5031]	1048.663333	1023.506667	5496.250000	526.800000	307.443506
## [5036]	1558.620000	469.100000	357.400000	2197.000000	146.400000
## [5041]	150.400000	1062.704762	566.486667	1017.576667	690.313333
## [5046]	487.600000	447.166667	1190.941667	600.573333	527.833333
## [5051]	1933.559259	1165.944762	280.650000	2982.063248	1784.755219
## [5056]	45.700000	1805.083333	1293.652222	111.800000	3107.173333
## [5061]	478.260000	747.907778	2810.797158	453.900000	526.376191
## [5066]	864.998333	252.800000	269.400000	817.433333	589.500000
## [5071]	812.135714	1795.925000	890.195238	443.499048	60.600000
## [5076]	748.233333	1720.444748	203.067778	396.000000	9661.585763
## [5081]	639.493333	934.870427	3371.050000	279.833333	3908.754762
## [5086]	868.163636	176.100000	699.267143	23342.082050	1581.488310
## [5091]	246.393333	789.126667	203.980000	5944.387373	1113.898538
## [5096]	119.600000	386.300000	20.100000	2451.346667	1918.966667
## [5101]	763.661429	185.400000	317.066667	72.400000	1003.380000
## [5106]	90.800000	4157.633333	830.341167	1015.300000	2872.719031
## [5111]	229.883333	2237.775000	1548.194444	703.300000	999.013333
## [5116]	1211.066667	2472.240000	1057.200000	1721.666667	3271.030448
## [5121]	601.033333	1017.966667	336.138333	1858.566667	787.243333
## [5126]	305.240000	892.724444	2577.960349	922.400606	3872.716667
## [5131]	53.200000	260.866667	814.709394	8365.602222	2339.207143
## [5136]	2102.750000	1014.200000	1463.800000	1121.433333	63.600000
## [5141]	394.000000	3890.865924	1483.457143	1764.180047	197.900000
## [5146]	676.600000	860.560317	3633.953333	538.720000	1299.833333
## [5151]	1126.392821	3507.365152	4916.583333	1180.366667	2668.712121
## [5156]	3684.855282	559.866667	98.100000	12449.900000	338.340000
## [5161]	531.560000	2244.416667	721.800000	372.600000	1194.988132
## [5166]	8147.111565	200.950000	132.883333	707.700000	744.800000
## [5171]	1568.533333	1553.696667	35.166667	3025.290325	881.350000
## [5176]	539.835714	221.400000	280.200000	297.166667	1051.550000
## [5181]	11976.721350	619.480000	536.085714	181.266667	3558.576942
## [5186]	534.483333	872.591667	13453.251030	700.550000	338.000000
## [5191]	243.466667	1846.666667	526.685397	368.466667	689.100000
## [5196]	725.200000	1968.942963	591.720000	2601.231408	109.800000
## [5201]	1197.800000	906.116667	204.600000	3637.985674	8467.584379
## [5206]	1372.455556	32.100000	919.899524	3276.190541	1249.216667
## [5211]	198.900000	307.866667	1561.200000	3523.331111	1387.267857

## [5216]	572.873333	2772.278333	4941.698611	1669.024978	1775.890000
## [5221]	1186.600000	672.514286	974.900000	524.969231	238.600000
## [5226]	2163.569524	553.343333	985.000000	1088.636905	188.300000
## [5231]	265.400000	367.816667	1161.479023	490.300000	427.066667
## [5236]	2050.292399	171.800000	1643.365907	42.200000	1813.753466
## [5241]	1203.720000	8006.695205	1226.100000	451.189007	600.396667
## [5246]	3043.916667	64.400000	3908.033490	1446.520523	1242.063095
## [5251]	422.533333	137.700000	1921.103070	952.159820	606.200000
## [5256]	1839.130000	399.066667	168.200000	145.900000	624.433333
## [5261]	273.706667	2806.846825	457.900000	3674.803673	1692.694155
## [5266]	140.700000	13.100000	649.863204	2183.007024	835.418095
## [5271]	2791.060635	548.960000	825.333333	204.400000	248.600000
## [5276]	4100.255455	322.366667	2568.675541	15.200000	314.400000
## [5281]	991.422222	226.400000	2549.529127	700.580000	111.133333
## [5286]	473.833333	93.900000	1596.412698	244.733333	2094.138889
## [5291]	620.130000	1722.814286	643.500000	316.133333	269.960000
## [5296]	5046.056667	473.083333	340.100000	1475.608427	956.333333
## [5301]	1305.527286	706.200000	1510.383333	3634.585714	1298.203260
## [5306]	184.600000	718.800000	3715.777564	4316.262171	456.900000
## [5311]	608.303333	1113.783333	487.320952	10338.671770	157.100000
## [5316]	565.380000	253.600000	883.139524	2960.971429	5245.277619
## [5321]	561.400000	720.676667	2072.605556	199.490476	1760.700000
## [5326]	138.873333	2006.593120	806.650000	2091.037588	285.600000
## [5331]	4131.156044	216.700000	3051.525518	836.200000	264.400000
## [5336]	906.233333	581.941988	1828.884048	219.800000	383.200000
## [5341]	433.636667	354.283333	43.400000	1653.600000	169.986667
## [5346]	649.020000	2802.367821	1429.501111	216.333333	156.200000
## [5351]	2593.808333	1316.533333	925.293333	349.696970	40.400000
## [5356]	141.200000	9760.690488	677.533333	733.166667	6418.819048
## [5361]	9151.494242	97.900000	39.200000	409.300000	106.300000
## [5366]	1340.300000	47.200000	1110.966667	346.133333	2846.295305
## [5371]	235.300000	770.313333	1544.533333	3220.887143	621.726667
## [5376]	1100.789082	775.888333	1481.866667	49.866667	811.380952
## [5381]	889.720000	473.283333	577.650000	1364.873333	778.643723
## [5386]	213.015714	303.246429	95.100000	641.800000	345.120000
## [5391]	164.813333	86.400000	373.500000	1076.073649	1816.555008
## [5396]	175.350000	71.400000	3677.258176	364.700000	414.866667
## [5401]	234.800000	445.333333	1607.173333	343.520000	330.533333
## [5406]	70.933333	2064.500000	1475.366667	999.800000	728.180000
## [5411]	668.033333	708.166667	663.277778	1107.216667	696.900000
## [5416]	747.480000	447.133333	1352.976722	159.900000	4339.924841
## [5421]	2787.692619	197.066667	785.050000	198.700000	3044.356667
## [5426]	742.209524	987.600000	251.200000	5946.275777	847.614286
## [5431]	3038.380000	2251.116667	940.104427	1145.170000	672.700000
## [5436]	47.400000	4749.250000	494.633333	591.154206	568.963333
## [5441]	1051.420000	1655.570000	1464.209618	1372.875238	1424.804887
## [5446]	4022.812148	1338.800000	238.533333	3198.186667	1875.103333
## [5451]	684.600000	348.850000	319.277143	2006.046667	1146.469048
## [5456]	1773.610152	1218.100000	4339.366667	580.935714	69.400000
## [5461]	2593.100000	495.100000	1123.993333	860.770000	2163.960000
## [5466]	679.566667	724.760000	1030.060000	717.466667	2396.272456
## [5471]	1903.450000	503.633333	676.266667	337.100000	630.326667
## [5476]	311.613333	6743.398760	1526.213333	688.314286	272.008333
## [5481]	1153.540000	1096.876822	1718.387778	843.016667	1012.200000

## [5486]	1375.133333	2016.564401	1424.400000	1193.517172	417.400000
## [5491]	2374.966713	784.734286	1538.056725	2331.150000	1057.033333
## [5496]	2021.747727	269.901818	55.900000	22.050000	1148.333333
## [5501]	562.166667	1290.500000	581.500000	845.278889	813.601667
## [5506]	59.200000	1953.537512	1199.916667	583.350000	910.410000
## [5511]	1975.125000	651.665000	2129.800000	1063.666667	961.520000
## [5516]	779.606667	959.900000	655.684762	631.276667	6440.235256
## [5521]	112.083333	170.400000	153.200000	773.256667	6707.540000
## [5526]	387.400000	631.400000	728.700000	938.933333	353.786667
## [5531]	128.700000	374.600000	952.283333	1948.088333	241.583333
## [5536]	3364.640450	1759.686519	476.360094	1720.422222	1516.200000
## [5541]	2016.566667	498.900000	238.200000	653.400000	4162.538005
## [5546]	769.900000	1085.900000	518.850000	291.200000	2064.766667
## [5551]	256.185714	1690.489222	436.100000	315.580000	1203.817143
## [5556]	920.400000	949.600000	1083.716667	2398.766667	22.800000
## [5561]	1994.023778	221.780000	337.853333	829.187143	344.450000
## [5566]	25.200000	1001.300000	794.160000	341.616667	624.760000
## [5571]	2387.596667	3987.386667	2159.400000	1558.529048	2650.780526
## [5576]	145.040000	687.384848	1926.701905	2087.649870	646.153333
## [5581]	566.566667	641.480952	529.800000	980.566667	41.700000
## [5586]	586.100000	375.800000	118.300000	166.706271	474.306667
## [5591]	277.350000	331.891429	1684.375000	470.866667	1348.450000
## [5596]	1251.600000	615.066667	616.203333	1203.533333	309.366667
## [5601]	232.310000	318.066667	2362.724563	1889.250000	82.200000
## [5606]	320.250000	43.900000	1374.630952	2107.033333	1296.916144
## [5611]	766.823810	605.616667	17.200000	3287.216667	21.100000
## [5616]	11492.208380	92.400000	9227.371429	461.733333	156.333333
## [5621]	2061.926508	226.800000	418.823333	104.250000	1077.511667
## [5626]	1926.133333	163.220000	5556.932698	296.300000	549.780000
## [5631]	1340.676667	864.007143	2230.986667	590.553333	1706.119697
## [5636]	743.266667	2693.963452	6847.936896	123.300000	1276.843158
## [5641]	635.723810	9437.769068	876.428571	351.033333	1369.700000
## [5646]	2554.562381	1430.208205	14.333333	1091.323333	1941.066667
## [5651]	190.600000	1161.900000	2633.400000	1980.266667	1496.466667
## [5656]	344.171429	937.807576	22.833333	1719.375714	1696.567619
## [5661]	445.900000	2686.402922	852.200000	2017.520714	1978.700000
## [5666]	1279.806667	1207.653333	1229.466667	71.600000	1494.053333
## [5671]	443.833333	189.433333	817.959070	838.150000	3835.564121
## [5676]	611.940000	401.013333	2865.817778	1157.444833	311.790000
## [5681]	238.933333	830.936667	2195.580952	2026.200000	4031.561667
## [5686]	1220.175000	14.600000	323.374048	433.360000	526.500000
## [5691]	379.616667	2110.422354	547.400794	1089.500000	20.257143
## [5696]	2063.642844	175.766667	1683.744444	4006.352857	5579.315873
## [5701]	3166.333333	643.050000	1584.770476	692.220000	1157.783333
## [5706]	178.800000	94.600000	26.700000	2268.900677	516.478571
## [5711]	46.200000	257.400000	1716.373333	380.806667	1737.016667
## [5716]	929.910000	158.600000	1297.250000	450.506667	1612.983333
## [5721]	615.559524	234.400000	5962.205556	228.800000	135.066667
## [5726]	2759.135058	506.400000	2678.055238	1108.369762	295.697436
## [5731]	3645.909048	3333.076068	749.800000	2532.960656	630.646667
## [5736]	1192.866667	2134.103333	7672.152381	497.800000	1390.403590
## [5741]	52.266667	583.093333	35.200000	368.900000	3019.805397
## [5746]	1171.471429	777.050000	112.800000	168.020000	1758.250000
## [5751]	380.266667	445.433333	820.483333	312.200000	1252.766667

## [5756]	2436.287879	61.400000	339.000000	976.333333	114.900000
## [5761]	1985.933333	704.566667	2337.196667	577.600000	2130.693837
## [5766]	107.600000	144.900000	970.626667	3528.060714	798.300000
## [5771]	286.200000	186.400000	144.600000	1912.751905	134.450000
## [5776]	2121.311111	2576.432121	337.533333	1422.103333	515.533333
## [5781]	460.200000	393.300000	390.900000	379.300000	1646.366667
## [5786]	835.710000	150.866667	652.700000	2001.700000	1822.866667
## [5791]	2265.492857	1870.966667	2646.400000	569.493333	1839.098106
## [5796]	97.600000	494.880000	201.633333	309.700000	1246.120000
## [5801]	41.300000	237.500000	472.433333	641.408333	341.700000
## [5806]	607.966667	835.300000	422.080000	1342.750000	1294.637143
## [5811]	596.033333	4287.960606	348.600000	561.094014	585.566667
## [5816]	144.066667	3177.366667	1708.980000	810.081667	1187.737297
## [5821]	267.900000	471.400000	409.837121	1333.800000	587.922857
## [5826]	997.314286	308.700000	688.453333	14.350000	781.800000
## [5831]	49.400000	366.616667	285.616667	101.600000	418.844444
## [5836]	1945.896667	239.700000	2660.283333	2101.691541	1052.400000
## [5841]	1629.438095	1454.750000	103.757909	36.200000	701.883333
## [5846]	2214.230303	728.800000	848.840714	1729.716667	29.200000
## [5851]	317.800000	278.580000	1458.936190	832.700000	4362.009752
## [5856]	824.157306	359.630000	1688.249400	170.533333	291.300000
## [5861]	427.300000	1188.200000	251.800000	2609.000000	486.560058
## [5866]	1227.713333	650.166667	776.883333	424.595714	12292.463810
## [5871]	231.800000	623.026667	1183.200000	584.377778	39.800000
## [5876]	368.600000	361.233333	282.800000	2167.900476	673.650000
## [5881]	771.413333	4052.358631	632.250000	463.400000	1808.953333
## [5886]	1418.377619	4554.692744	381.400000	3134.066667	840.286320
## [5891]	895.111111	4935.536124	709.433333	360.650000	468.850000
## [5896]	2805.038095	1993.396667	2289.079157	142.400000	2542.604310
## [5901]	527.666667	658.846667	443.900000	379.800000	742.000000
## [5906]	2426.006667	136.283333	1116.473333	835.680952	910.040000
## [5911]	232.400000	701.900000	405.283333	1219.054286	2935.255477
## [5916]	5465.320175	825.205000	2400.782077	884.500000	3421.653333
## [5921]	2023.200000	502.453333	2767.753333	4598.433333	936.810000
## [5926]	513.162222	712.271429	23888.810000	1081.108333	318.533333
## [5931]	199.000000	207.600000	1618.403280	1066.393635	392.600000
## [5936]	102.700000	857.735507	660.800000	376.700000	181.066667
## [5941]	360.511111	1053.175758	7710.731416	488.910000	906.400000
## [5946]	883.933333	2349.101818	314.850000	124.914286	2688.864762
## [5951]	425.000000	867.991515	417.533333	536.733333	74.400000
## [5956]	4391.666667	2013.659524	295.100000	1566.200000	213.800000
## [5961]	977.412857	1884.700000	669.933333	432.022222	582.733333
## [5966]	1860.950000	357.889524	265.933333	313.800000	780.500000
## [5971]	131.833333	85.766667	887.750000	1140.796667	122.800000
## [5976]	3621.606667	2056.488590	1094.310476	240.600000	1200.200000
## [5981]	81.700000	2224.633333	230.620000	1624.935625	158.973333
## [5986]	3441.806667	937.865349	783.208571	1221.700000	588.366667
## [5991]	876.476667	230.833333	2653.196667	1855.600000	228.900000
## [5996]	1243.976108	3410.697592	2664.416667	552.040000	385.740000
## [6001]	1115.400000	1618.203333	154.800000	1016.883333	1018.018025
## [6006]	571.423860	678.483333	227.600000	343.033333	261.666667
## [6011]	3773.300000	4098.699853	724.200000	297.500000	151.300000
## [6016]	280.046667	6747.414492	2487.520000	6847.736667	602.883333
## [6021]	692.870000	66.050000	296.580000	2199.520000	372.383333

## [6026]	2022.117778	422.523077	6079.820000	115.600000	1988.931429
## [6031]	294.700000	1292.449762	1907.080000	133.733333	175.400000
## [6036]	1547.233333	288.713333	849.744444	496.966667	606.666667
## [6041]	1576.966667	921.623333	691.950000	390.456667	6774.820000
## [6046]	3389.800000	2139.156647	634.688095	124.866667	1620.141667
## [6051]	1110.866667	292.700000	3856.829780	4800.574762	290.800000
## [6056]	242.109524	503.266667	385.750000	15.600000	1228.289524
## [6061]	743.476667	449.400000	246.386508	812.350000	75.400000
## [6066]	1836.983333	37.200000	381.800000	9100.402959	1256.000000
## [6071]	1854.242845	941.466667	1391.383333	324.266667	265.500000
## [6076]	143.300000	218.666667	432.000000	121.270422	450.800000
## [6081]	1191.616667	683.300000	452.000000	543.733333	2002.760000
## [6086]	385.300000	690.566667	562.300000	833.325000	2734.966667
## [6091]	5830.910000	700.046667	950.666667	411.600000	2557.350000
## [6096]	951.433333	1441.974535	162.233333	166.120000	1624.320952
## [6101]	708.554762	679.903333	364.961905	1216.726667	852.300000
## [6106]	1831.942222	2725.708571	86.633333	177.900000	128.233333
## [6111]	846.600000	323.400000	178.590000	1592.533333	103.800000
## [6116]	1257.946667	542.000000	1280.149821	192.450000	1717.873278
## [6121]	6137.144910	310.335556	51.200000	1231.790460	723.483333
## [6126]	689.650000	2139.700000	15454.438570	643.900000	94.200000
## [6131]	944.800000	440.533333	98.733333	402.600000	3564.590227
## [6136]	595.000000	697.586667	741.400000	502.966667	2222.419048
## [6141]	879.750000	275.100000	1227.153333	1582.700000	99.066667
## [6146]	360.473333	636.700000	8768.477228	348.061111	1354.800000
## [6151]	613.993333	4185.096695	73.100000	544.683333	1275.269270
## [6156]	2077.166667	3334.506667	3579.785900	593.701980	1199.226190
## [6161]	2590.800000	1220.257143	117.800000	985.080241	2479.342857
## [6166]	472.752381	571.350000	344.400000	364.533333	1046.320000
## [6171]	883.600000	1158.782857	89.383333	2006.688158	492.900000
## [6176]	242.450000	1572.486399	3801.680397	294.600000	47.300000
## [6181]	570.200000	463.360000	2299.970000	438.383333	585.700000
## [6186]	1649.766667	1620.024762	402.616667	1985.894203	120.790000
## [6191]	1477.154762	1636.258333	264.339682	2822.623603	182.500000
## [6196]	161.600000	2366.600000	2059.300000	1078.200000	2059.700000
## [6201]	1412.270833	561.666667	438.666667	733.287121	806.250000
## [6206]	242.083333	4066.207476	821.833333	398.000000	927.000000
## [6211]	3025.058333	424.125000	2339.805556	168.750000	1051.291667
## [6216]	631.933333	1132.791667	815.250000	4446.625000	3902.664774
## [6221]	2524.194444	947.416667	410.250000	511.250000	2073.916667
## [6226]	5194.798570	610.633333	2174.708333	1068.357692	541.062500
## [6231]	562.007143	390.500000	2577.449603	373.458333	202.750000
## [6236]	3804.287500	655.041667	462.267857	967.625000	770.309524
## [6241]	602.583333	475.025000	750.208333	5300.291667	1758.912393
## [6246]	482.750000	147.500000	279.547619	1445.666667	159.750000
## [6251]	835.583333	99.500000	770.375000	3773.715179	2023.750000
## [6256]	1493.695238	1058.338095	2295.000000	198.133333	729.291667
## [6261]	1185.986275	1473.701515	1055.583333	1211.166667	6309.427034
## [6266]	163.500000	1260.441758	281.750000	63973.522230	372.083333
## [6271]	557.686905	170.500000	4021.172222	81.083333	630.000000
## [6276]	2138.383333	4977.850893	1312.333333	61.750000	1131.208333
## [6281]	57.500000	475.650000	3534.298611	1093.083333	516.750000
## [6286]	1214.307692	759.583333	8629.783691	10524.359360	2756.192460
## [6291]	1173.000000	2147.375000	1175.488095	404.500000	264.750000

## [6296]	1557.916667	207.541667	135.250000	493.750000	117.250000
## [6301]	349.833333	1579.333333	1375.264286	59.500000	592.837500
## [6306]	1375.916667	4966.520661	2881.684524	2556.373335	1406.917424
## [6311]	955.375000	1394.236526	704.000000	7443.407447	1980.238095
## [6316]	914.500000	804.250000	4804.834524	596.075000	2076.966667
## [6321]	2281.583333	5149.434919	2400.037843	234.638462	947.392857
## [6326]	2876.441667	398.980392	2007.522619	108.500000	246.500000
## [6331]	2074.611111	2387.139881	541.875000	187.500000	341.458333
## [6336]	597.633053	294.750000	713.583333	1319.547421	41.500000
## [6341]	267.250000	1059.575000	2130.447802	1351.908333	561.500000
## [6346]	805.791667	1918.902722	4518.297619	2199.500000	1329.686508
## [6351]	243.500000	184.375000	730.150000	35.250000	2180.217803
## [6356]	86.166667	1027.000000	631.067460	1157.583333	4461.285240
## [6361]	1377.250000	2934.236722	3296.650000	1065.256410	599.500000
## [6366]	748.958333	566.883333	5728.673611	203.250000	2416.060484
## [6371]	305.208333	335.416667	960.125000	4656.331746	683.165385
## [6376]	712.296078	279.333333	2193.541667	611.083333	1792.466667
## [6381]	357.166667	1666.500000	846.250000	1481.108333	819.333333
## [6386]	549.250000	1181.851190	230.166667	2141.902778	1286.916667
## [6391]	1109.250000	5608.913545	590.583333	15025.233020	1012.964286
## [6396]	1049.313889	1781.191667	3472.870513	562.000000	1369.775000
## [6401]	9956.225533	307.666667	2403.250000	773.200000	448.250000
## [6406]	1845.958333	1424.839744	3648.562500	300.500000	756.041667
## [6411]	642.000000	396.345238	1017.166667	1875.169444	821.275000
## [6416]	1325.833333	228.625000	1517.416739	6524.035369	839.208333
## [6421]	426.325000	2245.333333	428.500000	221.125000	731.500000
## [6426]	4575.477552	3684.321458	882.750000	301.333333	4251.208187
## [6431]	6323.853465	12268.244770	4994.249150	6082.873739	1664.148810
## [6436]	5399.231269	50.833333	1723.753711	508.250000	65.500000
## [6441]	968.750000	3127.078788	418.375000	2052.125000	331.837500
## [6446]	1028.775000	2776.013582	360.541667	4379.863158	118.250000
## [6451]	821.682540	24844.156200	2050.191803	962.901190	586.372222
## [6456]	732.091667	855.666667	274.583333	1828.375000	247.500000
## [6461]	2123.500000	635.491667	1332.250000	5253.069444	593.750000
## [6466]	5252.861501	1169.000000	987.900000	2886.841667	473.166667
## [6471]	4791.460889	1481.783333	386.262121	1144.972222	2747.616288
## [6476]	271.500000	3022.370406	2156.525403	938.333333	1039.599344
## [6481]	721.416667	3480.811706	6241.687398	749.250000	225.166667
## [6486]	1587.250000	1397.666667	506.183333	7181.877778	1173.417614
## [6491]	318.250000	2855.166667	1165.950000	1470.208333	1707.666667
## [6496]	2636.138889	452.416667	447.047619	1113.309524	446.375000
## [6501]	952.677778	4434.281746	311.250000	323.233333	2835.417641
## [6506]	2893.940476	540.750000	6085.002381	1390.083333	1031.083333
## [6511]	539.150000	1657.000000	939.083333	1403.828355	29.500000
## [6516]	1862.333333	894.580952	475.666667	2187.338725	2312.337853
## [6521]	1652.486111	5826.333333	198.750000	464.383333	266.166667
## [6526]	1047.000000	512.500000	765.392857	314.750000	1682.275000
## [6531]	580.083333	1388.200000	470.816667	1184.269841	6919.899495
## [6536]	303.500000	1074.333333	588.500000	4155.746883	55.500000
## [6541]	12500.353060	1021.200000	2694.507143	2533.333333	1658.125000
## [6546]	1440.166667	1315.177778	1935.335516	2404.831006	346.566667
## [6551]	695.500000	415.273810	256.950000	1939.155952	1975.455952
## [6556]	28.250000	2556.220833	3812.161753	592.250000	190.333333
## [6561]	10902.458260	3543.809524	1159.541667	24.250000	2300.891317

## [6566]	841.783333	1609.939744	424.333333	1267.062500	1631.416667
## [6571]	1043.583333	2041.233550	504.600000	2793.733084	180.416667
## [6576]	530.583333	329.214286	1508.521825	803.507738	2251.280000
## [6581]	1286.500000	396.250000	4293.400000	3875.427778	936.642857
## [6586]	756.861111	1385.850000	3197.755638	1779.886905	1191.887500
## [6591]	851.666667	3111.683333	561.250000	5380.686996	860.208333
## [6596]	2058.300000	1032.300000	8622.380000	4067.010247	2690.333333
## [6601]	150.166667	844.941667	918.541667	46.750000	2422.375000
## [6606]	1249.866144	702.333333	4097.708838	1042.507143	169.916667
## [6611]	1421.250000	2429.279762	1123.050824	441.136905	1475.254167
## [6616]	1630.137415	3216.920172	32.500000	623.725000	3674.737578
## [6621]	486.147222	1645.679762	1361.780952	3152.500000	5209.820361
## [6626]	558.476191	2244.616667	2032.272727	1904.183333	883.550000
## [6631]	4389.887512	598.873809	593.000000	829.208333	4875.106113
## [6636]	1344.291667	817.500000	500.500000	1897.833333	1883.866667
## [6641]	3033.689449	2922.497511	794.992857	7444.938071	783.750000
## [6646]	1732.066667	2304.150000	2492.166667	1656.615043	17550.584860
## [6651]	224.391667	2693.582331	3697.731633	135.750000	795.000000
## [6656]	759.750000	525.166667	195.250000	499.750000	583.069444
## [6661]	231.750000	1441.636905	4284.422619	909.750000	691.833333
## [6666]	3368.305556	121.375000	386.500000	2335.125000	1414.589286
## [6671]	2334.105159	4212.141886	677.916667	431.000000	2126.077501
## [6676]	760.770833	1615.660256	805.650000	546.229167	809.000000
## [6681]	3066.695513	4272.607937	751.000000	3009.087500	242.583333
## [6686]	347.852273	3714.352664	738.886111	9018.123741	1726.500000
## [6691]	1361.833333	546.958333	3959.450000	4643.283732	1124.875000
## [6696]	67.250000	7097.582291	1458.976190	33.142857	572.900000
## [6701]	824.000000	7972.322431	1249.708333	480.605556	258.616667
## [6706]	57.750000	3408.266667	2533.008333	85.750000	2156.500000
## [6711]	111.250000	3561.130212	14505.727250	2801.751190	2460.323686
## [6716]	452.250000	2619.109709	784.883333	1264.000000	508.558547
## [6721]	61.500000	122.250000	698.671520	1799.666667	496.250000
## [6726]	687.467063	458.250000	53.500000	332.583333	749.750000
## [6731]	8282.214508	142.125000	3007.687500	1894.393840	4817.924102
## [6736]	905.500000	1254.750000	3401.050687	523.541667	627.000000
## [6741]	1514.037879	2429.812500	156.404762	1288.733333	4446.303175
## [6746]	920.550000	950.625000	5932.596554	1358.166667	89.666667
## [6751]	694.516667	3075.978608	2857.712454	1967.780163	1352.750000
## [6756]	866.333333	1878.996825	138.416667	1031.133333	1208.333333
## [6761]	5426.823764	1570.362302	644.250000	705.116667	1183.900000
## [6766]	2438.075000	106.083333	409.466667	2697.175350	2622.600281
## [6771]	5793.523810	631.750000	536.616667	1661.833333	2553.858333
## [6776]	490.833333	334.750000	270.583333	1052.833333	301.000000
## [6781]	535.500000	839.430556	4509.000000	273.708333	715.875000
## [6786]	903.357143	3309.448776	9297.575489	4096.090152	1480.233333
## [6791]	735.583333	581.083333	877.916667	805.625000	375.916667
## [6796]	555.502941	1935.887111	638.916667	2040.166667	990.464286
## [6801]	155.983333	2199.976786	246.645833	2493.985714	1359.957586
## [6806]	831.000000	812.875000	201.916667	722.083333	135.225000
## [6811]	3231.853672	74.750000	4215.961111	624.500000	1618.532967
## [6816]	1924.505952	4899.626984	7141.214642	2304.500000	1573.895833
## [6821]	2011.513765	3831.100000	275.500000	1176.500000	1436.690476
## [6826]	257.416667	9.500000	1264.833333	27009.859430	4679.029167
## [6831]	1252.750000	5639.221760	347.916667	2354.979058	3313.073936

## [6836]	147.583333	1403.720238	2155.653752	3026.374242	760.763235
## [6841]	839.517857	837.375000	362.633333	1625.583333	4152.083333
## [6846]	1400.958333	892.083333	1066.250000	322.750000	873.750000
## [6851]	695.193750	4112.394444	6515.454310	1140.166667	5212.708333
## [6856]	195.416667	1535.000000	53.625000	1066.566667	2106.894048
## [6861]	5276.594444	849.541667	9595.649629	6460.192638	1828.966667
## [6866]	6920.973243	2991.319444	78.750000	2512.517420	1297.750000
## [6871]	132.750000	1904.541667	270.750000	1692.250000	2259.736508
## [6876]	1775.241667	664.500000	5000.739116	2716.666667	1876.333333
## [6881]	2368.111111	229.916667	903.163462	3296.940476	238.666667
## [6886]	2163.132326	799.327381	122.750000	2787.678571	531.500000
## [6891]	898.238889	109.194444	805.783333	2019.769468	1979.300000
## [6896]	1425.583333	7838.556598	3591.744196	555.625000	242.500000
## [6901]	7761.034859	12158.196390	2289.100000	7712.375000	4755.224054
## [6906]	465.250000	1210.100000	313.017857	3044.047222	946.595238
## [6911]	97.416667	1574.375000	1830.583333	1011.319444	669.483333
## [6916]	795.361111	1061.816667	1206.833333	858.946429	1093.175000
## [6921]	3174.088455	2058.604545	5396.264881	2014.416667	1837.204167
## [6926]	1326.430556	2558.500000	930.500000	1052.255952	1792.814481
## [6931]	3301.222222	1887.232143	111.750000	251.000000	217.916667
## [6936]	1533.025834	582.266667	6867.193847	1366.058333	6854.604365
## [6941]	305.500000	859.333333	70.750000	192.875000	1460.908333
## [6946]	2070.325000	551.500000	295.833333	762.238095	296.916667
## [6951]	2197.780952	10046.807710	2004.371491	3817.203846	3178.500000
## [6956]	1671.583333	762.000000	1655.190476	1412.316667	29.166667
## [6961]	3978.245833	103.500000	38.500000	4817.369546	447.000000
## [6966]	829.083333	2989.780952	21672.244250	1931.630952	6095.481945
## [6971]	3993.135714	1805.277375	42.575000	566.800000	2189.500000
## [6976]	2811.478070	777.212500	876.250000	1077.250000	1429.875000
## [6981]	688.183333	1022.384615	1935.061310	354.500000	417.989286
## [6986]	1466.088462	3971.515278	124.216667	1319.366667	2250.350000
## [6991]	5250.891667	2494.817100	8866.167386	1050.250000	520.000000
## [6996]	3646.083333	141.666667	577.750000	655.535714	2207.366936
## [7001]	1746.108683	1945.500000	6038.244769	3903.167094	1104.900000
## [7006]	1199.160606	3147.245589	1401.458333	2861.966667	379.083333
## [7011]	283.750000	755.417892	3507.010877	364.541667	1273.083333
## [7016]	3059.013889	255.083333	2749.150000	9139.496696	938.041667
## [7021]	1806.558333	58.500000	1296.000000	1080.875000	2942.021588
## [7026]	276.250000	2864.633333	4130.937879	3586.833333	227.250000
## [7031]	52.500000	673.638095	975.500000	6165.878774	1502.291667
## [7036]	134.750000	572.061039	1098.524802	5889.730504	3541.324493
## [7041]	658.916667	2641.416667	364.750000	2781.125000	2500.128052
## [7046]	200.250000	3163.096825	6057.928961	1448.928571	1984.025000
## [7051]	739.666667	2235.828084	3142.941176	1289.333333	3227.483333
## [7056]	1183.000000	5251.382738	685.174405	2209.750000	1102.500000
## [7061]	1686.354994	704.166667	1240.650000	1140.666667	56.250000
## [7066]	310.250000	91.250000	3208.208333	109.250000	1547.625000
## [7071]	2049.750000	2324.820965	3416.279167	1245.250000	3236.865632
## [7076]	682.133333	2492.224020	1197.932540	3972.000000	211.470238
## [7081]	1617.612554	1589.583333	2408.815476	120.500000	1512.750000
## [7086]	591.900000	514.416667	771.750000	13717.402050	531.036905
## [7091]	1494.083333	3478.750000	677.666667	4620.088889	2194.490404
## [7096]	650.250000	44.333333	3344.958929	306.250000	553.833333
## [7101]	273.750000	175.175000	892.967949	668.000000	269.250000

## [7106]	332.291667	3328.903752	734.250000	3556.516667	454.916667
## [7111]	1110.579167	950.816667	7609.820650	855.541667	2095.819048
## [7116]	2085.972565	4653.190245	1156.416667	2237.757205	6671.290144
## [7121]	1356.458333	3422.525000	1777.520455	191.562500	975.289394
## [7126]	461.000000	201.333333	1606.308250	1828.733333	3009.042857
## [7131]	5972.416667	5485.017857	1773.250000	496.000000	185.666667
## [7136]	1461.833333	468.541667	1409.533550	286.516667	842.750000
## [7141]	910.233333	11940.016500	3815.166667	1622.883333	789.416667
## [7146]	1916.873737	2671.069940	6505.333333	470.916667	294.000000
## [7151]	278.291667	2807.149729	1438.854167	1186.141667	4836.486905
## [7156]	1166.166667	876.300000	1285.583333	357.333333	1196.250000
## [7161]	94.800000	454.333333	777.116667	5575.614608	2038.052273
## [7166]	386.416667	79.750000	999.833333	1491.500000	444.633333
## [7171]	4218.074847	700.000000	1940.293452	705.500000	380.666667
## [7176]	29970.465970	607.500000	112.708333	2267.330952	252.750000
## [7181]	857.183333	3626.003223	512.250000	7569.248612	3492.316304
## [7186]	536.322727	2207.757143	1119.854167	5969.573168	1737.000000
## [7191]	5178.531731	426.500000	198.250000	1226.000000	108.916667
## [7196]	1198.024145	2606.779545	285.500000	4877.122575	1514.836310
## [7201]	1572.200000	567.250000	5878.940603	314.696429	445.625000
## [7206]	257.166667	986.933333	549.200000	130.050000	1347.962500
## [7211]	1040.100000	2033.845238	1833.244643	138.375000	1592.233333
## [7216]	2366.192105	472.416667	1438.000000	125.500000	143.250000
## [7221]	145.500000	117.750000	6400.430101	237.666667	1395.445862
## [7226]	1660.000000	1368.000000	2188.258333	10014.269350	876.550000
## [7231]	3184.815705	546.607143	186.250000	523.250000	801.050000
## [7236]	92.250000	1853.286538	1558.250000	312.350000	573.750000
## [7241]	2435.743750	241.400000	2259.047619	1338.778571	3085.250000
## [7246]	3723.529739	354.583333	1317.795833	661.445529	1949.647252
## [7251]	1544.855159	1465.555338	3247.583333	1733.658333	3376.027564
## [7256]	629.858333	2582.699717	2428.350000	4045.726634	2743.213113
## [7261]	254.500000	161.550000	4155.620833	1268.125000	155.500000
## [7266]	2374.500000	1056.511364	2378.263492	2587.530411	219.583333
## [7271]	1542.350000	444.750000	1423.790476	184.000000	1548.086310
## [7276]	234.100000	6014.398401	3181.500000	530.625000	1202.875000
## [7281]	117.083333	1835.556213	867.777778	946.393421	2303.183333
## [7286]	6606.783899	1367.000000	7405.360281	3486.370682	1267.250000
## [7291]	1260.524994	2239.363889	224.250000	1621.766667	3800.089234
## [7296]	925.898809	212.916667	1202.916667	2681.998105	2618.681061
## [7301]	740.166667	4760.778303	4262.966667	130.750000	3228.502137
## [7306]	2018.300000	658.250000	2267.472565	4251.741250	1629.641667
## [7311]	9049.534024	5106.262991	1315.455182	98.666667	1378.166667
## [7316]	348.250000	382.250000	256.500000	4096.712716	1288.130556
## [7321]	594.000000	1364.266667	189.250000	1621.025379	2323.166667
## [7326]	338.250000	2431.242995	1151.000000	1048.980263	94.750000
## [7331]	1243.176190	1148.166667	659.636111	1990.125000	398.400000
## [7336]	2413.754403	422.166667	62.250000	3313.455754	126.250000
## [7341]	11.500000	3954.950000	3993.833333	1071.083333	315.300000
## [7346]	3188.483333	1056.658333	3397.957955	996.148077	5696.165963
## [7351]	2003.375779	629.291667	819.589286	652.500000	974.083333
## [7356]	2666.066667	3374.016667	3445.012500	66.250000	348.750000
## [7361]	748.250000	1579.375000	104.666667	3770.021698	5520.175505
## [7366]	1078.583117	2983.358135	69.750000	10340.369160	8701.851617
## [7371]	4885.049069	2193.383333	1092.354167	977.125000	5410.956705

## [7376]	1679.666667	1333.166667	914.229437	315.083333	3873.021970
## [7381]	583.083333	2780.609524	612.208333	2092.500000	2336.319444
## [7386]	747.042857	1090.385281	1975.825000	3367.041281	647.142857
## [7391]	138.541667	1401.083333	393.788889	2478.000000	1702.916667
## [7396]	1401.508730	281.425000	1491.775000	2056.106981	2109.919048
## [7401]	460.750000	1406.950000	3757.079762	1295.008333	1002.104167
## [7406]	1883.725000	2243.676587	193.366667	1690.778409	1698.000000
## [7411]	3517.039683	472.500000	8684.983333	1653.395833	3561.139286
## [7416]	36.902778	1899.058333	46.250000	5098.754980	90.500000
## [7421]	5080.233631	251.900000	851.250000	543.000000	23.833333
## [7426]	1964.847222	3457.628812	2997.002030	4022.000000	1542.791667
## [7431]	2434.144872	5442.085417	3299.525000	885.750000	219.550000
## [7436]	23.666667	671.642857	6566.867562	770.250000	1370.038095
## [7441]	11835.103890	916.458333	132.500000	3057.045833	442.500000
## [7446]	2446.144571	269.233333	819.150000	1434.908333	177.250000
## [7451]	1950.840873	116.750000	752.566667	2171.547149	6123.741494
## [7456]	4310.775000	502.525000	1565.958333	2595.095833	1140.150000
## [7461]	3327.537566	2625.185014	3747.814286	1126.250000	393.583333
## [7466]	5962.732411	21.250000	121.750000	325.000000	165.583333
## [7471]	58.900000	1547.477273	465.633333	328.500000	737.181935
## [7476]	1340.583333	742.960317	2186.961538	84.250000	4492.311111
## [7481]	857.266667	1773.375000	1346.630231	805.833333	1372.975000
## [7486]	2445.066667	4140.333766	348.383333	325.500000	1911.610665
## [7491]	1464.416667	472.541667	1593.583333	135.083333	4350.647321
## [7496]	1399.150000	663.527778	1717.666667	740.307143	1859.382937
## [7501]	874.952381	1275.092424	3372.748214	1328.626894	2378.377381
## [7506]	342.125000	1009.375000	340.500000	948.342857	4436.376299
## [7511]	56.750000	1334.083333	450.750000	1952.500000	776.166667
## [7516]	3091.146033	818.316667	684.750000	1224.541667	459.083333
## [7521]	474.333333	783.875000	1445.458333	517.000000	444.000000
## [7526]	1197.700198	10415.783640	6245.704152	2409.875000	2004.708333
## [7531]	1905.078571	903.430556	935.666667	979.375000	127.166667
## [7536]	1280.450000	787.535714	210.400000	257.750000	8041.588870
## [7541]	7017.192635	1244.350000	1591.888095	8650.048771	1986.553118
## [7546]	1363.700000	3753.194490	1070.625000	1839.250000	1787.479365
## [7551]	1534.825143	1568.500000	111.500000	2332.109524	598.500000
## [7556]	1287.273810	985.315151	2420.650000	300.333333	1602.940260
## [7561]	1646.612195	1824.083333	1525.000000	114.416667	1768.657051
## [7566]	5546.000000	2346.220238	2177.333333	1929.185664	1261.500000
## [7571]	898.150000	4172.115720	749.125000	2537.807082	580.250000
## [7576]	3494.067460	1605.583333	1100.475000	134.675000	296.392857
## [7581]	691.750000	6850.499335	291.166667	232.500000	2046.832418
## [7586]	2974.734799	108.250000	1151.136905	2060.508333	2764.290278
## [7591]	175.750000	609.541667	2264.091667	546.750000	781.425000
## [7596]	3391.685880	43.750000	1423.833333	834.075000	706.700000
## [7601]	806.125000	6759.311928	440.750000	1404.459091	326.927778
## [7606]	2517.216667	3060.055556	866.216667	2110.124603	5316.459524
## [7611]	176.766667	820.500000	2990.312500	2152.588889	1722.583333
## [7616]	7012.266796	320.983333	6879.801826	2237.603885	2270.750000
## [7621]	602.250000	1256.291667	1796.583333	269.700000	1130.807540
## [7626]	1333.914286	1907.135417	1085.333333	3239.418207	2002.250000
## [7631]	3757.750000	115.250000	204.750000	556.000000	238.550000
## [7636]	423.183333	1664.000000	2766.942172	2696.108730	1831.149084
## [7641]	1626.000000	9951.359644	941.699405	1716.583333	597.250000

## [7646]	1982.523611	1335.737854	690.958333	8217.678753	5999.808333
## [7651]	182.250000	845.750000	1430.250000	179.250000	1359.771429
## [7656]	1021.519444	491.833333	907.943254	8402.715986	184.333333
## [7661]	1991.822567	595.750000	5315.211905	9648.177094	738.910714
## [7666]	1749.000000	140.458333	698.541667	123.229167	587.750000
## [7671]	589.875000	4096.158590	723.000000	4126.448611	5504.695238
## [7676]	27.375000	2939.625000	3713.580105	2596.204762	1668.116667
## [7681]	742.687500	1218.750000	551.158333	1302.518056	929.583333
## [7686]	1309.658333	2852.013141	272.166667	3770.916071	834.361111
## [7691]	668.500000	521.925000	1544.595238	17086.234240	1082.750000
## [7696]	1803.666667	4729.065909	1355.366667	529.750000	836.500000
## [7701]	719.200000	146.500000	2632.700000	8178.226923	1461.725000
## [7706]	1616.548160	197.750000	8613.257312	2070.616667	1449.608333
## [7711]	163.375000	4081.041667	353.152778	791.916667	1088.866667
## [7716]	9247.383869	1659.250000	2638.244429	127.600000	3789.583333
## [7721]	3660.342875	565.500000	2021.320833	97.500000	2614.209722
## [7726]	308.250000	1020.013889	5154.777093	1443.641667	480.000000
## [7731]	548.267857	828.250000	3608.346752	545.083333	5097.418330
## [7736]	2350.667857	1310.636905	1398.390775	2915.571429	949.750000
## [7741]	2381.097222	1273.250000	3002.902778	6235.066030	12959.915150
## [7746]	1361.203175	2375.114286	1404.750000	780.791667	8276.292565
## [7751]	1206.750000	1858.833333	424.750000	1992.717308	3642.066026
## [7756]	480.916667	2120.630952	1725.966667	1200.500000	1314.083333
## [7761]	2225.288889	528.583333	1587.765598	507.291667	162.625000
## [7766]	4597.124242	1885.337440	1895.133333	1903.081639	2872.125000
## [7771]	4048.583333	105.500000	1902.250000	1433.634921	709.750000
## [7776]	145.666667	1076.958333	5004.229167	1029.583333	1437.750000
## [7781]	534.875000	1751.847727	1435.375000	638.250000	954.083333
## [7786]	1159.567100	258.291667	101.833333	4600.540873	953.589286
## [7791]	1749.842262	2178.850000	1512.574405	4254.666667	506.452381
## [7796]	1383.661111	1261.658333	466.125000	2833.814103	711.166667
## [7801]	3788.800000	8584.025049	1004.500000	1322.004437	2051.466667
## [7806]	131.583333	308.458333	541.535714	282.083333	209.333333
## [7811]	3296.602091	1426.583333	6725.663690	146.750000	864.458333
## [7816]	259.750000	1215.666667	3427.665476	680.255952	492.250000
## [7821]	799.375000	1475.166667	32.833333	4772.919574	5778.966667
## [7826]	816.833333	1586.154762	1335.809127	743.750000	6203.690476
## [7831]	2689.625000	774.728814	6617.791228	71.500000	393.500000
## [7836]	96.625000	3283.715359	62.750000	3934.201024	977.533333
## [7841]	4373.847619	162.250000	584.308333	559.000000	922.708333
## [7846]	516.833333	689.202381	1170.166667	3974.534501	1666.750000
## [7851]	3891.214286	2161.388889	2006.834416	103.520833	123.750000
## [7856]	1252.561414	478.033333	1740.052778	156.500000	904.566667
## [7861]	432.750000	2714.958333	871.500000	735.515152	741.055556
## [7866]	833.166667	212.250000	1870.791667	577.166667	1954.754167
## [7871]	2359.375000	1136.083333	686.500000	1427.689394	2162.840879
## [7876]	5254.158333	108.416667	1728.250000	1813.250382	1998.250000
## [7881]	396.166667	576.300000	1035.083333	808.041667	552.333333
## [7886]	491.750000	901.266667	158.750000	1599.500000	675.666667
## [7891]	4590.431277	158.250000	287.333333	253.583333	1768.980303
## [7896]	5602.593506	8336.039583	675.375000	2627.756494	244.750000
## [7901]	2702.390385	3069.077778	1073.310020	13379.366580	1124.888889
## [7906]	6001.171475	2504.870761	4722.568651	457.250000	816.776190
## [7911]	3279.238428	4123.956674	1995.416667	1242.000000	2891.744571

## [7916]	937.716667	983.138889	650.808333	1523.578030	673.033333
## [7921]	190.708333	277.035714	1141.066667	1506.916667	1346.966667
## [7926]	771.875000	7044.064508	709.333333	726.038889	12900.767600
## [7931]	1087.986111	188.458333	4218.916667	5757.853961	402.805556
## [7936]	2787.750000	4815.701606	4766.021032	925.666667	4716.572619
## [7941]	1245.576190	2451.058466	292.875000	2296.250000	38.358333
## [7946]	476.866667	435.333333	597.625000	1677.805952	1177.291667
## [7951]	980.502199	1330.666667	1050.500000	9119.885413	1053.952381
## [7956]	8150.556716	1385.666667	1046.666667	548.283333	603.256526
## [7961]	67.750000	559.750000	14213.636520	2807.164836	2623.916667
## [7966]	2112.101515	9770.812093	2754.117424	1682.250000	1922.150000
## [7971]	1293.083333	3275.873810	208.900000	2668.725046	1543.750000
## [7976]	8555.765985	76.750000	2762.408333	430.607143	851.166667
## [7981]	205.700000	1092.333333	754.319444	1806.166667	674.958333
## [7986]	866.707143	72.250000	637.428571	586.375000	934.150000
## [7991]	5256.472341	411.937500	318.500000	6740.557143	1277.750000
## [7996]	304.541667	1125.875000	2128.730927	1391.733333	64.250000
## [8001]	113.250000	691.252381	274.500000	13265.355950	2846.833333
## [8006]	7569.182143	3436.975000	1957.500000	942.395833	1133.333333
## [8011]	7434.743073	8981.580128	2875.615909	2270.908333	293.725000
## [8016]	678.250000	1636.466667	99.750000	301.666667	2354.958333
## [8021]	183.708333	4876.007712	1598.250000	180.147059	2744.541071
## [8026]	18504.126210	486.666667	1978.148810	421.000000	1430.854167
## [8031]	2611.651923	161.666667	357.555556	2440.473611	348.433333
## [8036]	3752.666970	41.666667	1925.979167	263.250000	917.250000
## [8041]	653.125000	3284.500000	1731.500000	6793.383281	4377.708157
## [8046]	289.625000	135.875000	1678.333333	283.791667	4156.900000
## [8051]	297.125000	562.250000	14129.880800	4868.000000	1195.583333
## [8056]	118.750000	1048.107143	349.375000	2822.172118	2528.287431
## [8061]	677.883333	3959.145344	4307.409559	1960.475000	1789.954762
## [8066]	2284.488095	6481.483333	1051.166667	1966.092332	5160.451362
## [8071]	651.066667	565.416667	1250.125000	572.976191	2555.994444
## [8076]	113.666667	706.050000	4737.087716	25.750000	8205.687940
## [8081]	1933.244444	886.479167	1000.800000	729.791667	96.250000
## [8086]	386.750000	1788.370821	251.291667	656.768182	968.644444
## [8091]	2455.147619	1524.962997	341.250000	8130.964914	5276.227193
## [8096]	381.358333	3497.214286	2065.838165	1441.910588	2330.727381
## [8101]	2910.632251	2719.734091	2170.286706	837.250000	2038.772727
## [8106]	1494.250000	243.166667	1469.666667	7793.158685	1130.926190
## [8111]	2587.766667	39.333333	1405.327056	1032.750000	1279.089286
## [8116]	53.375000	1028.533333	760.875000	1760.613095	3312.879422
## [8121]	921.600000	244.250000	151.416667	553.333333	612.500000
## [8126]	5389.883333	625.300000	3094.366667	276.166667	1316.434982
## [8131]	2719.654762	744.166667	200.933333	3616.008121	696.225000
## [8136]	275.166667	2984.130952	4424.916667	168.900000	250.035714
## [8141]	1352.133333	169.375000	1183.050000	513.333333	2032.599702
## [8146]	464.658333	1238.586029	3621.066667	1836.775000	898.758333
## [8151]	11945.629540	824.229167	451.714286	636.583333	830.104167
## [8156]	2689.291667	2167.126924	943.500000	5505.401209	363.250000
## [8161]	610.191667	1357.833333	336.583333	8618.031872	281.738095
## [8166]	308.500000	1289.000000	409.500000	2348.812500	628.583333
## [8171]	1996.565909	2476.154789	211.416667	2930.722222	4316.833333
## [8176]	2710.381731	2904.922294	427.750000	988.062500	2999.716667
## [8181]	1328.500000	691.357280	912.434849	780.583333	1931.512121

## [8186]	2334.916667	754.300000	167.833333	1291.351190	335.250000
## [8191]	783.375000	1095.658333	187.916667	1258.791667	2351.834722
## [8196]	605.500000	5767.465043	1726.750000	2464.294444	1284.569048
## [8201]	1787.395833	1139.638889	814.154762	2508.413853	2086.666667
## [8206]	124.958333	902.083333	343.250000	660.803968	1407.446429
## [8211]	428.000000	1604.791667	1030.000000	2076.750000	1118.987027
## [8216]	221.250000	3679.128882	242.750000	1643.958333	2834.697619
## [8221]	946.363636	1760.600000	677.000000	381.214286	1784.516667
## [8226]	5189.960659	532.750000	728.979167	1383.375000	513.250000
## [8231]	3247.433333	1017.500000	2553.625000	144.500000	142.750000
## [8236]	214.750000	585.391667	733.250000	2162.657393	11250.486720
## [8241]	159.500000	862.791667	3441.439286	4894.851299	1538.950794
## [8246]	242.916667	71.166667	3074.852778	263.175000	618.250000
## [8251]	2487.061777	2269.732143	2310.083333	374.500000	5057.175000
## [8256]	604.500000	2634.476245	1777.702381	1558.361111	1825.557143
## [8261]	100.416667	6858.672122	79.250000	166.500000	3247.644636
## [8266]	4295.305066	5124.691667	1332.695346	2467.256349	5325.234886
## [8271]	123.166667	902.652778	1330.375000	1714.778571	205.083333
## [8276]	517.035714	1026.450758	57.666667	3575.000000	3696.225342
## [8281]	1600.000000	2230.500000	153.625000	765.041667	1256.383333
## [8286]	2642.458333	1992.916667	1002.491667	494.644048	835.238095
## [8291]	7952.491839	1433.712560	277.300000	2923.250000	1889.953409
## [8296]	8125.852288	199.666667	2008.900974	672.125000	140.166667
## [8301]	4173.131061	2849.482143	444.500000	3079.083333	205.750000
## [8306]	470.000000	1352.833333	497.250000	6975.887249	125.750000
## [8311]	3734.958333	318.750000	1766.833333	608.750000	279.083333
## [8316]	1098.500000	2355.682738	288.125000	1210.921324	863.346825
## [8321]	412.875000	850.666667	8591.591742	1903.601743	1585.608730
## [8326]	6367.506345	978.091667	118.333333	4293.833333	9126.982468
## [8331]	31.166667	402.395833	1632.533333	624.008333	391.583333
## [8336]	664.850000	1254.112179	5321.441032	751.541667	2520.056936
## [8341]	45.250000	31.500000	1456.916667	618.750000	1699.583333
## [8346]	935.097222	541.916667	559.250000	376.000000	811.863095
## [8351]	446.000000	1166.683333	233.375000	72.416667	2371.371545
## [8356]	3881.793590	1761.285714	333.333333	1343.946429	87.916667
## [8361]	1089.285714	737.750000	1102.850000	3763.000758	916.000000
## [8366]	491.583333	585.800000	630.083333	657.250000	366.500000
## [8371]	1478.073810	152.416667	711.363095	3881.938907	890.527778
## [8376]	1125.904762	1610.783197	3488.070803	2762.770833	460.833333
## [8381]	211.833333	13.250000	5244.471512	237.750000	671.088652
## [8386]	107.166667	517.541667	1767.400000	338.583333	1218.030952
## [8391]	1358.874152	1831.903509	1076.861905	529.291667	194.500000
## [8396]	1297.464286	720.425794	2370.729167	391.250000	392.187500
## [8401]	14568.162010	5619.384897	143.333333	1655.358333	3511.833059
## [8406]	405.100000	1182.590278	2367.400000	8596.669979	683.029221
## [8411]	671.425000	4263.977734	87.875000	427.816667	192.083333
## [8416]	2183.887500	5341.784253	3650.316667	4041.734915	3986.789646
## [8421]	707.166667	253.250000	1900.675000	549.950000	271.166667
## [8426]	556.916667	897.090278	535.250000	1091.005876	374.416667
## [8431]	1743.517857	2986.916667	1731.625000	797.833333	2345.589140
## [8436]	6225.988835	810.500000	504.500000	137.250000	1174.666667
## [8441]	11208.355060	107.929167	661.500000	803.333333	1242.661699
## [8446]	3879.831760	1055.333333	968.196429	177.583333	183.625000
## [8451]	92.333333	1051.125000	1581.500000	152.500000	9952.349817

## [8456]	702.125000	641.694444	783.636364	2034.261905	1361.634420
## [8461]	753.100000	2107.258333	6483.080400	686.878968	1550.916667
## [8466]	3105.365207	110.333333	327.650000	309.166667	432.166667
## [8471]	140.250000	476.250000	419.375000	348.500000	3711.605357
## [8476]	1267.502814	2997.083333	1493.958333	10415.325660	697.500000
## [8481]	484.845238	3068.062904	3763.447588	2863.400427	1277.741667
## [8486]	1069.973810	5918.308915	125.125000	6449.457197	1608.214286
## [8491]	8249.106771	382.033333	90.166667	2473.196429	1344.750000
## [8496]	1422.909324	1473.658333	4681.420833	1938.996646	3165.958333
## [8501]	753.637363	1263.900000	98.250000	1470.629167	770.583333
## [8506]	1410.428571	3154.970833	2933.695013	411.916667	268.750000
## [8511]	363.000000	126.083333	489.708333	1866.107143	330.416667
## [8516]	2447.548611	2269.336111	445.500000	1669.988095	569.750000
## [8521]	3359.625000	8864.036841	440.583333	19.250000	2128.416667
## [8526]	1117.642857	1241.750000	991.827020	2786.916667	516.500000
## [8531]	2028.172619	4042.949908	2767.976190	3237.114166	1708.625000
## [8536]	2531.342297	488.750000	4409.300000	1066.339286	3363.182143
## [8541]	991.500000	1843.187696	2352.166667	1269.645833	1167.321429
## [8546]	72.750000	1457.113095	1262.651515	971.666667	4279.966667
## [8551]	694.017857	1531.920136	2147.983333	3573.472222	1338.225000
## [8556]	3559.375000	1231.791667	115.625000	357.000000	1016.160714
## [8561]	3197.290064	1481.429167	2587.150595	390.773810	402.958333
## [8566]	2499.990079	710.541667	313.250000	1425.566667	2589.881537
## [8571]	1142.195833	777.333333	736.233333	210.250000	1266.094048
## [8576]	1009.950000	1661.133333	907.508333	105.616667	411.083333
## [8581]	558.398809	3421.575758	2158.500000	3484.269118	11232.656910
## [8586]	587.250000	2971.435101	974.166667	863.166667	2448.536054
## [8591]	9666.857845	783.694444	929.083333	1249.481746	4374.416667
## [8596]	887.800000	4558.372222	2549.534524	168.000000	849.833333
## [8601]	621.416667	2386.000000	385.291667	2498.833658	550.166667
## [8606]	814.000000	446.250000	143.200000	4081.248718	1607.191667
## [8611]	1233.307765	676.250000	4709.992857	168.500000	11246.133790
## [8616]	1729.750000	661.916667	8437.099188	1145.416667	174.083333
## [8621]	372.250000	3725.670725	2547.717986	2073.383333	2784.800000
## [8626]	796.250000	181.750000	2209.554876	284.700000	4937.639583
## [8631]	593.291667	752.761905	3494.831225	248.000000	1793.214286
## [8636]	968.092445	2161.133333	865.807143	1202.750000	4447.110508
## [8641]	1669.940186	290.100000	1704.580556	2106.833333	398.694444
## [8646]	16138.290800	2123.000000	851.885714	381.750000	535.000000
## [8651]	5076.380556	1543.500000	3675.500000	689.060606	323.683333
## [8656]	935.250000	555.666667	235.416667	524.000000	445.583333
## [8661]	916.500000	2453.177381	673.625000	220.266667	170.250000
## [8666]	91.750000	316.541667	818.583333	620.500000	1143.833333
## [8671]	2011.041667	1410.238889	448.194589	953.666667	2426.791667
## [8676]	6732.124414	33.333333	544.000000	858.833333	344.345238
## [8681]	2195.283333	3452.262500	865.583333	3614.105147	1893.444444
## [8686]	1090.700000	682.958333	1183.650000	7114.798341	880.633333
## [8691]	2652.552904	2190.429367	356.083333	212.750000	357.750000
## [8696]	1605.875000	3608.432937	9354.484111	4442.394444	2767.625000
## [8701]	332.333333	4568.338675	2780.600000	825.140152	172.208333
## [8706]	226.666667	3989.485553	3401.300000	2436.106169	4514.739394
## [8711]	3418.696975	181.666667	689.991667	755.250000	106.750000
## [8716]	3830.000000	8060.963948	96.125000	1544.750000	3215.173074
## [8721]	3688.846861	827.166667	4165.138690	1838.850000	3887.222321

## [8726]	3174.642793	700.127778	1316.035714	2572.429487	1287.958333
## [8731]	2019.828571	716.791667	3339.075980	6817.942235	3785.562500
## [8736]	361.000000	2570.426190	1209.558333	366.583333	4191.031746
## [8741]	5402.785260	2451.000000	7980.363439	968.666667	1390.583333
## [8746]	2466.533333	592.500000	1933.423611	1869.451190	2581.355128
## [8751]	170.666667	875.155952	2871.104167	2258.175000	1982.884524
## [8756]	2856.993600	2232.833333	955.525000	3329.100000	1283.750000
## [8761]	423.166667	1570.469048	602.916667	205.500000	3186.958333
## [8766]	646.166667	633.750000	100.250000	1338.933333	542.933333
## [8771]	9405.836721	249.333333	672.875000	930.014103	5093.300000
## [8776]	3580.333333	2034.466667	101.750000	997.287879	412.250000
## [8781]	680.500000	1093.833333	4502.511111	2716.519048	1878.195833
## [8786]	1039.887446	3274.521154	4484.669445	67.666667	5208.650000
## [8791]	646.825000	1617.519048	955.543215	350.250000	1873.589297
## [8796]	1712.416667	696.875000	916.625000	83.416667	3585.177579
## [8801]	2964.650595	757.375000	3913.987030	685.750000	572.000000
## [8806]	213.000000	180.750000	933.850000	3163.143290	347.732143
## [8811]	3634.141512	784.083333	6050.883117	2228.707287	936.133333
## [8816]	2706.595238	1494.125000	1178.250000	2447.300000	487.000000
## [8821]	1438.100000	533.700000	316.600000	2180.933333	778.675000
## [8826]	724.766667	1189.053571	2054.841667	375.554762	4344.919986
## [8831]	329.683333	338.750000	8425.870475	109.166667	1996.816667
## [8836]	470.500000	267.750000	3013.116917	1336.208333	496.482143
## [8841]	1384.197436	404.339286	1118.833333	578.810606	129.250000
## [8846]	586.850000	1661.166667	3457.285317	1037.819444	4984.542857
## [8851]	1591.000000	315.779762	1599.994589	10044.757560	603.250000
## [8856]	686.583333	117.625000	4931.198912	3708.383949	3411.955853
## [8861]	143.375000	194.750000	119.250000	456.525000	262.916667
## [8866]	250.250000	2853.020833	1029.250000	3606.088889	2267.833333
## [8871]	1344.340476	2415.416667	1398.937500	313.583333	2546.856685
## [8876]	1253.176407	938.583333	914.333333	833.669551	2253.799603
## [8881]	5358.375439	446.383333	499.608333	1231.500000	1364.812500
## [8886]	339.750000	362.750000	2375.083333	577.541667	1483.800000
## [8891]	943.250000	1167.950000	3719.643711	947.357702	2335.633333
## [8896]	1109.083333	225.500000	662.500000	269.683333	766.250000
## [8901]	3487.124710	11257.108300	755.175000	1265.892857	81.750000
## [8906]	170.750000	1182.416667	585.650000	1805.425000	2590.016667
## [8911]	374.000000	3346.041667	1212.441667	2478.070833	10497.154430
## [8916]	297.833333	1689.708333	829.333333	1659.866667	4006.359314
## [8921]	1285.166667	1753.083333	1952.750000	1194.750000	235.500000
## [8926]	2631.473214	812.104762	422.500000	372.816667	1474.530303
## [8931]	832.083333	1204.416667	930.053571	190.159091	1692.257143
## [8936]	178.250000	2663.583333	897.783730	3998.333333	3505.087955
## [8941]	12499.377110	12433.218650	221.375000	5947.971230	134.500000
## [8946]	4478.699416	4875.609432	3978.626167	138.166667	794.541667
## [8951]	2426.266667	4829.625000	1776.083333	98.550000	1268.116667
## [8956]	1263.864951	1164.202381	599.583333	5209.958128	1005.833333
## [8961]	6794.735417	2544.053571	56.625000	1717.740476	1778.663263
## [8966]	1246.708333	342.920238	2565.797222	488.409091	4838.294060
## [8971]	7445.957075	2763.011332	1874.841667	493.000000	293.416667
## [8976]	2903.764417	8956.097502	1140.791667	723.766667	1584.250000
## [8981]	7468.860173	610.975000	276.500000	47.250000	0.500000
## [8986]	431.166667	1249.750000	366.750000	3230.546573	1195.375000
## [8991]	7514.790476	10580.344790	1170.711048	1034.312500	1477.734676

## [8996]	1786.109649	1787.500000	104.500000	369.050000	1407.375000
## [9001]	2002.814281	4008.578283	866.416667	381.250000	2796.316667
## [9006]	8068.742154	160.250000	1909.232143	2002.230612	1677.178571
## [9011]	9485.374568	1162.797222	1899.598899	1089.625000	1435.772114
## [9016]	6630.479365	6194.852381	2767.366071	2271.553571	325.166667
## [9021]	1477.394841	343.833333	173.433333	1697.058333	1860.250000
## [9026]	122.666667	267.733333	53.833333	308.333333	929.333333
## [9031]	2265.571429	663.000000	1009.430952	601.086415	529.500000
## [9036]	640.875000	369.500000	534.263889	305.400000	2834.280117
## [9041]	465.732143	1073.295779	868.678571	351.500000	807.083333
## [9046]	3041.676452	403.416667	2186.145833	720.150000	2408.579762
## [9051]	1602.350000	150.250000	879.500000	1234.525000	954.908333
## [9056]	3740.291667	759.083333	831.111111	537.625000	1234.500000
## [9061]	690.254167	152.750000	797.761905	2895.129762	2011.305556
## [9066]	614.750000	417.750000	3400.248897	2526.483333	613.895833
## [9071]	1237.000000	651.866667	491.375000	469.976190	219.250000
## [9076]	607.589286	107.250000	1256.333333	1624.941667	333.250000
## [9081]	2386.066667	3324.597222	59.250000	249.666667	3874.240873
## [9086]	1930.410714	3554.649020	766.216667	1307.472222	661.138889
## [9091]	3556.346795	1141.175000	2958.216667	1553.269048	579.000000
## [9096]	1222.250000	1947.500000	166.083333	4223.409838	14988.591510
## [9101]	402.043040	935.900000	412.083333	215.952381	455.083333
## [9106]	1300.041667	7767.325560	701.803247	434.583333	1919.550000
## [9111]	1251.932143	2350.905769	10886.876920	12460.670060	4403.382777
## [9116]	2151.097436	1055.750000	760.619048	1012.166667	810.333333
## [9121]	4567.942696	502.916667	1251.316667	3624.056349	155.250000
## [9126]	900.500000	2616.905952	138.750000	4334.815476	772.916667
## [9131]	1138.250000	2266.270833	1892.005556	181.300000	947.883333
## [9136]	2719.525974	668.100000	916.922222	5617.092505	38.750000
## [9141]	3095.200725	730.350000	612.819444	702.643162	461.108333
## [9146]	642.464286	1259.872817	1032.008333	94.000000	153.750000
## [9151]	380.946429	653.859524	1740.525631	1889.833333	984.500000
## [9156]	5246.435176	1222.625000	1597.106090	1204.664683	1689.134524
## [9161]	11231.410120	317.250000	1262.488779	587.916667	1324.133333
## [9166]	378.500000	365.166667	81.375000	315.694444	189.416667
## [9171]	7750.537279	681.500000	4312.225000	338.791667	5286.208333
## [9176]	3486.194444	6560.007540	2971.254167	2612.000000	3085.620238
## [9181]	4609.626389	123.666667	446.416667	1248.058333	541.207143
## [9186]	2365.429545	2706.375000	783.666667	4264.419078	997.708333
## [9191]	548.166667	7356.402381	6375.065753	7128.753770	4803.827170
## [9196]	4777.812554	4479.116226	501.800000	2591.795346	4054.755952
## [9201]	471.416667	1157.416667	2016.115385	839.416667	2633.084900
## [9206]	190.500000	7532.511111	76.666667	370.458333	2277.555556
## [9211]	5948.998311	1089.208333	1320.189881	246.166667	1106.000000
## [9216]	264.250000	487.458333	1352.000000	644.875000	887.000000
## [9221]	122.225000	1002.847222	961.250000	14150.546130	2701.337954
## [9226]	823.000000	1897.687500	220.500000	2218.717208	159.300000
## [9231]	146.916667	3269.256933	444.250000	619.520833	2925.677607
## [9236]	4097.403993	1753.761111	7700.501461	787.750000	1589.625000
## [9241]	2994.827381	3211.344872	1958.833333	2628.000000	124.750000
## [9246]	2709.522357	11240.976690	790.000000	3006.883631	376.516667
## [9251]	7190.547947	772.625000	901.288889	54.333333	179.958333
## [9256]	2721.555108	1673.593939	670.000000	1121.416667	1284.361822
## [9261]	281.900000	1085.250000	353.083333	5395.201794	389.410714

## [9266]	483.291667	1493.353846	350.375000	1375.800000	568.250000
## [9271]	1254.295238	2221.000000	4597.575252	234.500000	146.375000
## [9276]	1119.541667	329.250000	429.916667	1127.566667	1500.033333
## [9281]	1032.900000	3346.501984	732.344872	4928.927389	1568.650000
## [9286]	430.166667	576.857143	891.500000	3779.444444	557.350000
## [9291]	50.250000	1065.450000	4391.876232	221.208333	298.875000
## [9296]	2117.654762	5610.686899	1460.256115	764.666667	12595.627760
## [9301]	761.750000	12166.694240	2007.000000	3944.384921	64.208333
## [9306]	4227.094444	631.775000	416.583333	1063.420238	1934.225758
## [9311]	2527.083333	2495.615079	655.875000	1415.387500	658.750000
## [9316]	332.166667	498.200000	330.166667	97.833333	345.000000
## [9321]	1668.950000	1327.666667	941.672619	735.439286	5091.890896
## [9326]	277.166667	1342.434295	371.250000	1110.666667	4947.358038
## [9331]	1706.064885	383.458333	82.750000	68.250000	1033.000000
## [9336]	687.483333	2599.015278	2371.122222	671.625000	1461.416667
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## [9346]	874.404762	770.500000	612.625000	320.750000	2405.652778
## [9351]	343.625000	182.625000	213.947222	1521.150000	1344.458333
## [9356]	1081.666667	296.500000	2632.189286	2588.154762	4326.666667
## [9361]	1119.543056	4201.508333	241.625000	753.500000	1440.933333
## [9366]	1896.966667	609.348810	437.833333	1038.791667	1347.266667
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## [9386]	392.500000	6942.783547	966.358333	1107.922619	1403.541667
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## [7] 0.008333333 0.002857143 0.043478261 0.040000000 0.014285714 0.015384615
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## [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
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##	[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
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##	[457]	0.043055556	0.001041667	0.000800000	0.009358814	0.055026455	0.024242424
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##	[469]	0.010997732	0.016913580	0.025282904	0.014414414	0.033777778	0.020289855
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##	[535]	0.011923715	0.186666667	0.023889556	0.002293202	0.160000000	0.059722222
##	[541]	0.025438596	0.012878788	0.015000000	0.061818182	0.096298701	0.005279668
##	[547]	0.024358974	0.018817204	0.010215054	0.034959350	0.030266123	0.027575758
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##	[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
##
## $SpecialDay
## [1] 0.0 0.4 0.8 1.0 0.2 0.6
##
## $Month
## [1] Feb Mar May Oct June Jul Aug Nov Sep Dec
## Levels: Aug Dec Feb Jul June Mar May Nov Oct Sep
##
## $OperatingSystems
## [1] 1 2 4 3 7 6 8 5
##
## $Browser
## [1] 1 2 3 4 5 6 7 10 8 9 12 13 11

```

```
##
## $Region
## [1] 1 9 2 3 4 5 6 7 8
##
## $TrafficType
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 19 16 17 20
##
## $VisitorType
## [1] Returning_Visitor New_Visitor      Other
## Levels: New_Visitor Other Returning_Visitor
##
## $Weekend
## [1] FALSE  TRUE
##
## $Revenue
## [1] FALSE  TRUE
```

Tidying the Dataset

```
# Changing the male and Clicked.on.Ad datatype
# Changing to factor
econ_df$Weekend = as.factor(as.numeric(econ_df$Weekend))
econ_df$Revenue = as.factor(as.numeric(econ_df$Revenue))
econ_df$VisitorType = as.integer(econ_df$VisitorType)

# Checking class changed
class(econ_df$Weekend)

## [1] "factor"
class(econ_df$Revenue)

## [1] "factor"
class(econ_df$VisitorType)

## [1] "integer"
# The class changed from integer to factor

print("Summary after")

## [1] "Summary after"
summary(econ_df)

## 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.   :0.000000   Min.   : 0.000   Min.   :0.000000
## 1st Qu.:0.000000   1st Qu.:0.01429   1st Qu.: 0.000   1st Qu.:0.000000
## Median :0.003119   Median :0.02512   Median : 0.000   Median :0.000000
## 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.:0.000000
## Max.   :0.200000   Max.   :0.20000   Max.   :361.764   Max.   :1.00000
## NA's   :14          NA's   :14
##      Month      OperatingSystems      Browser      Region
## May      :3364   Min.      :1.000   Min.      : 1.000   Min.      :1.000
## Nov      :2998   1st Qu.:2.000   1st Qu.: 2.000   1st Qu.:1.000
## Mar      :1907   Median :2.000   Median : 2.000   Median :3.000
## Dec      :1727   Mean    :2.124   Mean    : 2.357   Mean    :3.147
## Oct      : 549   3rd Qu.:3.000   3rd Qu.: 2.000   3rd Qu.:4.000
## Sep      : 448   Max.    :8.000   Max.    :13.000   Max.    :9.000
## (Other):1337
## TrafficType      VisitorType      Weekend      Revenue
## Min.      : 1.00   Min.      :1.000   0:9462   0:10422
## 1st Qu.: 2.00   1st Qu.:3.000   1:2868   1: 1908
## Median : 2.00   Median :3.000
## Mean      : 4.07   Mean    :2.718
## 3rd Qu.: 4.00   3rd Qu.:3.000
## Max.      :20.00   Max.    :3.000
##
```

```
# Checking for missing values
# to calculate the number of na values
print("the number of na values")
```

```
## [1] "the number of na values"
```

```
sum(is.na(econ_df))
```

```
## [1] 112
```

We have 112 missing values in our dataset

MICE imputations

```
# Removing the missing values
```

```
my_imp = mice(econ_df, m=5, method=c("mean", "pmm", "mean", "pmm", "cart", "pmm", "midastouch", "pmm", "
```

```
##
## iter imp variable
## 1 1 Administrative Administrative_Duration Informational Informational_Duration ProductRela
## 1 2 Administrative Administrative_Duration Informational Informational_Duration ProductRela
## 1 3 Administrative Administrative_Duration Informational Informational_Duration ProductRela
## 1 4 Administrative Administrative_Duration Informational Informational_Duration ProductRela
## 1 5 Administrative Administrative_Duration Informational Informational_Duration ProductRela
## 2 1 Administrative Administrative_Duration Informational Informational_Duration ProductRela
```

[illegible]


```
## 13 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 13 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 13 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 13 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 13 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 14 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 14 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 14 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 14 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 14 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 15 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 15 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 15 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 15 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 15 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 16 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 16 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 16 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 16 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 16 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 17 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 17 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 17 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 17 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 17 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 18 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 18 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 18 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 18 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 18 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 19 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 19 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 19 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 19 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 19 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 20 1 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 20 2 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 20 3 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 20 4 Administrative Administrative_Duration Informational Informational_Duration ProductRel
## 20 5 Administrative Administrative_Duration Informational Informational_Duration ProductRel
```

```
print("Check the summary of the ProductRelated column")
```

```
## [1] "Check the summary of the ProductRelated column"
```

```
summary(econ_df$ProductRelated)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
##      0.00   7.00   18.00   31.76   38.00   705.00      14
```

```
# For the indexes of the missing values, @ value of imp get the means
# check for the imp with the closest mean to bmi ie 26.56
# that is imp 4
```

```
my_imp$imp$ProductRelated
```

```
##      1  2  3  4  5
## 1066 19 45  5 14  5
## 1133  4 18  6 40 25
## 1134 19 15  7 14 14
## 1135 20  6  4 20 12
## 1136 47 14  2 12 11
## 1137 36 41  1 40 26
## 1474 11  9  3  6 11
## 1475  5  2 40 24  8
## 1476 26 37  4 13  3
## 1477 22 10 37 32 22
## 2038 10  6 36  4 18
## 2039  9  9  6 15 24
## 2040 50 27  9 34 14
## 2754 38 22 13  2 20
```

```
# For the clean record set
econ_final = complete(my_imp,1)
```

```
# Checking for the number of missing values
sapply(econ_final, function(x) sum(is.na(x)))
```

```
##      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
```

```
# Confirming the missing values were removed
sum(is.na(econ_final))
```

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

```
# Checking for duplicates
```

```
cat("The number of duplicate values are: ",sum(duplicated(econ_final)))
```

```
## The number of duplicate values are: 117
```

```
# Removing the duplicates
```

```
econ_final <- econ_final[!duplicated(econ_final), ] # Remove duplicated rows
```

```
cat("\n")
```

```
# Checking to see if the duplicates were dropped
```

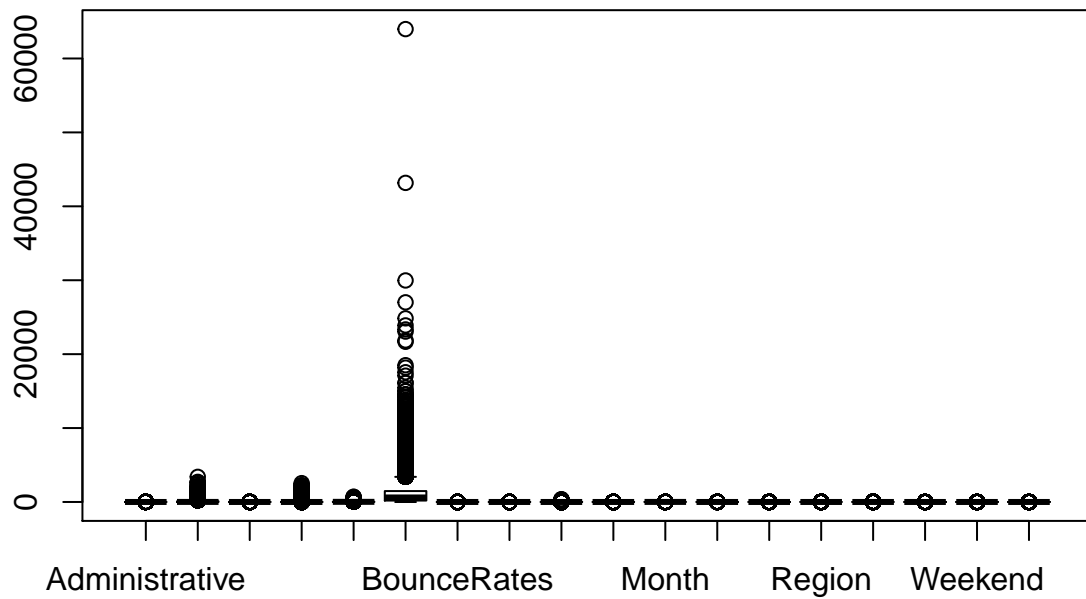
```
cat("The number of duplicate values to confirm they were dropped : ",sum(duplicated(econ_final)))
```

```
## The number of duplicate values to confirm they were dropped : 0
```

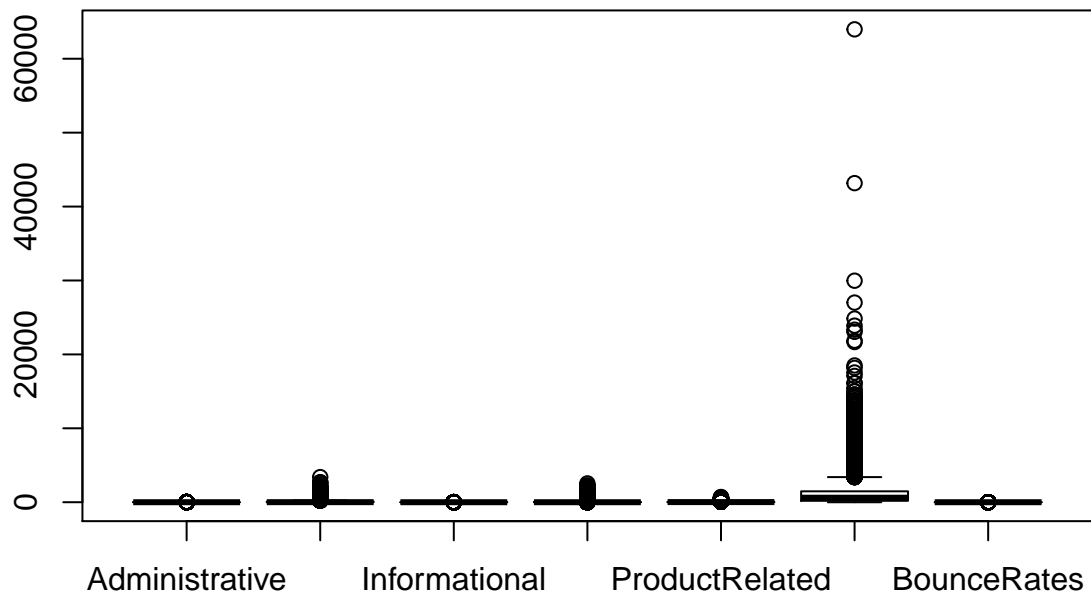
```
Duplicates successfully removed
```

Dealing with outliers

```
# To check for outliers  
boxplot(econ_final)
```



```
# We pick the specific columns that we want remove the outliers from  
# To have a clear view of the outliers we remove some columns  
  
check <- econ_final[, 1:7]  
boxplot(check)
```



```
# Summary to identify the 1st and 3rd quatile
summary(econ_final)
```

```
## 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 : 81.69 Mean : 0.5088
## 3rd Qu.: 4.00 3rd Qu.: 94.80 3rd Qu.: 0.0000
## Max. :27.00 Max. :3398.75 Max. :24.0000
##
## Informational_Duration ProductRelated ProductRelated_Duration
## Min. : -1.0 Min. : 0.00 Min. : -1.0
## 1st Qu.: 0.0 1st Qu.: 8.00 1st Qu.: 193.7
## Median : 0.0 Median : 18.00 Median : 610.2
## Mean : 34.8 Mean : 32.05 Mean : 1207.5
## 3rd Qu.: 0.0 3rd Qu.: 38.00 3rd Qu.: 1478.1
## Max. :2549.4 Max. :705.00 Max. :63973.5
##
## BounceRates ExitRates PageValues SpecialDay
## Min. :0.000000 Min. :0.00000 Min. : 0.000 Min. :0.0000
## 1st Qu.:0.000000 1st Qu.:0.01423 1st Qu.: 0.000 1st Qu.:0.0000
## Median :0.002941 Median :0.02500 Median : 0.000 Median :0.0000
## Mean :0.020458 Mean :0.04152 Mean : 5.946 Mean :0.0619
## 3rd Qu.:0.016667 3rd Qu.:0.04848 3rd Qu.: 0.000 3rd Qu.:0.0000
## Max. :0.200000 Max. :0.20000 Max. :361.764 Max. :1.0000
```

```
##
##      Month      OperatingSystems      Browser      Region
## May       :3329      Min.       :1.000      Min.       : 1.000      Min.       :1.000
## Nov       :2983      1st Qu.:2.000      1st Qu.: 2.000      1st Qu.:1.000
## Mar       :1866      Median    :2.000      Median    : 2.000      Median    :3.000
## Dec       :1706      Mean      :2.124      Mean      : 2.358      Mean      :3.153
## Oct       : 549      3rd Qu.:3.000      3rd Qu.: 2.000      3rd Qu.:4.000
## Sep       : 448      Max.      :8.000      Max.      :13.000      Max.      :9.000
## (Other):1332
##      TrafficType      VisitorType      Weekend      Revenue
## Min.       : 1.000      Min.       :1.000      0:9354      0:10305
## 1st Qu.: 2.000      1st Qu.:3.000      1:2859      1: 1908
## Median    : 2.000      Median    :3.000
## Mean      : 4.074      Mean      :2.716
## 3rd Qu.: 4.000      3rd Qu.:3.000
## Max.      :20.000      Max.      :3.000
##
```

```
# We do a summary for all the columns with outliers
# For Administrative Duration
```

```
IQR_admin_dur <- 93.50 - 0.00 # Quantile Range
upfen_admin_dur = 0.00 + 1.5*IQR_admin_dur
upfen_admin_dur
```

```
## [1] 140.25
```

```
# For Informational Duration
```

```
IQR_info_dur <- 0.00 - 0.00 # Quantile Range
upfen_info_dur = 0.00 + 1.5*IQR_info_dur
upfen_info_dur
```

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

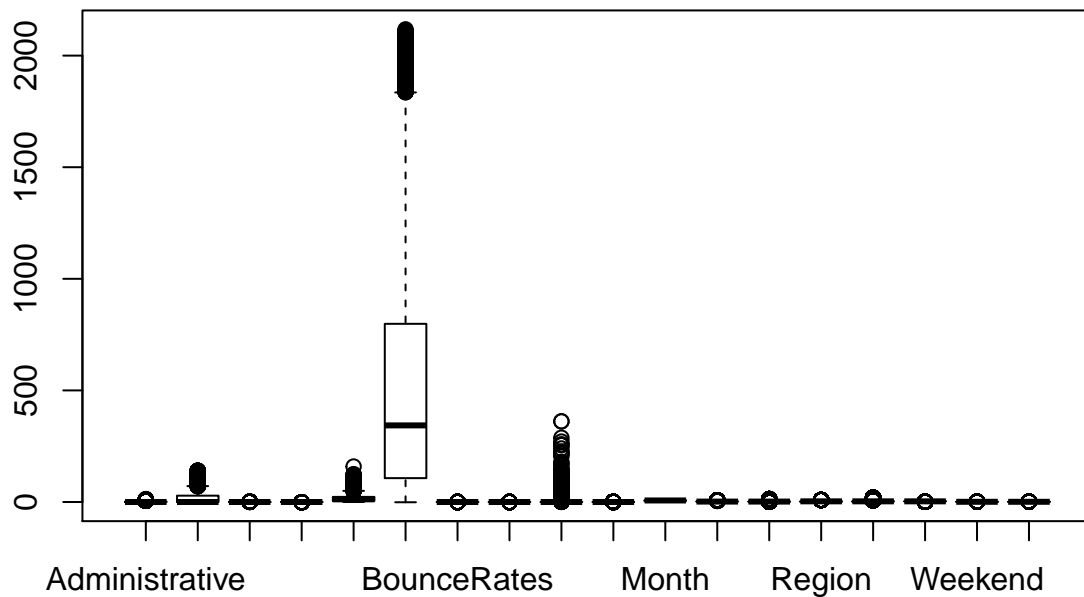
```
# For ProductRelated_Duration
```

```
IQR_prod_dur <- 1477.2 - 193.8 # Quantile Range
upfen_prod_dur = 193.8 + 1.5*IQR_prod_dur
upfen_prod_dur
```

```
## [1] 2118.9
```

```
# The rest have have been kept because they are not many, therefore the outliers in those may not skew
```

```
econ_final = subset(econ_final, Administrative<=27.00 & Administrative_Duration<=140.25 & Informational
boxplot(econ_final)
```



The extreme outliers were removed

Exploratory Data Analysis

Univariate Analysis

```
# Getting the central measures
# ----
```

```
# Getting the mode
getmode <- function(v) {
  uniqv <- unique(v)
  uniqv[which.max(tabulate(match(v, uniqv)))]
}
```

```
check2 <- econ_final[, 1:10]
summary(check2)
```

```
## Administrative Administrative_Duration Informational
## Min. : 0.000 Min. : -1.00 Min. : 0.00000
## 1st Qu.: 0.000 1st Qu.: 0.00 1st Qu.: 0.00000
## Median : 0.000 Median : 0.00 Median : 0.00000
## Mean : 1.006 Mean : 19.77 Mean : 0.01804
## 3rd Qu.: 2.000 3rd Qu.: 28.50 3rd Qu.: 0.00000
## Max. : 13.000 Max. : 140.00 Max. : 2.00000
## Informational_Duration ProductRelated ProductRelated_Duration
## Min. : -1.000000 Min. : 0.0 Min. : -1.0
```

```
## 1st Qu.: 0.000000      1st Qu.: 5.0      1st Qu.: 107.0
## Median : 0.000000      Median : 12.0     Median : 343.3
## Mean   :-0.004235      Mean   : 16.7     Mean   : 520.8
## 3rd Qu.: 0.000000      3rd Qu.: 23.0     3rd Qu.: 798.3
## Max.    : 0.000000      Max.    :159.0     Max.    :2117.7
## BounceRates      ExitRates      PageValues      SpecialDay
## Min.    :0.00000    Min.    :0.00000    Min.    : 0.000    Min.    :0.00000
## 1st Qu.:0.00000    1st Qu.:0.01667    1st Qu.: 0.000    1st Qu.:0.00000
## Median :0.00000    Median :0.03333    Median : 0.000    Median :0.00000
## Mean    :0.02788    Mean    :0.05240    Mean    : 4.887    Mean    :0.07338
## 3rd Qu.:0.02500    3rd Qu.:0.06667    3rd Qu.: 0.000    3rd Qu.:0.00000
## Max.    :0.20000    Max.    :0.20000    Max.    :361.764    Max.    :1.00000
```

```
desc_stats <- data.frame(
  Min = apply(check2, 2, min),      # minimum
  Med = apply(check2, 2, median),   # median
  Mean = apply(check2, 2, mean),    # mean
  SD = apply(check2, 2, sd),        # Standard deviation
  Max = apply(check2, 2, max),      # Maximum
  Var = apply(check2, 2, var),      # Variance
  Mode = apply(check2, 2, getmode)
)
```

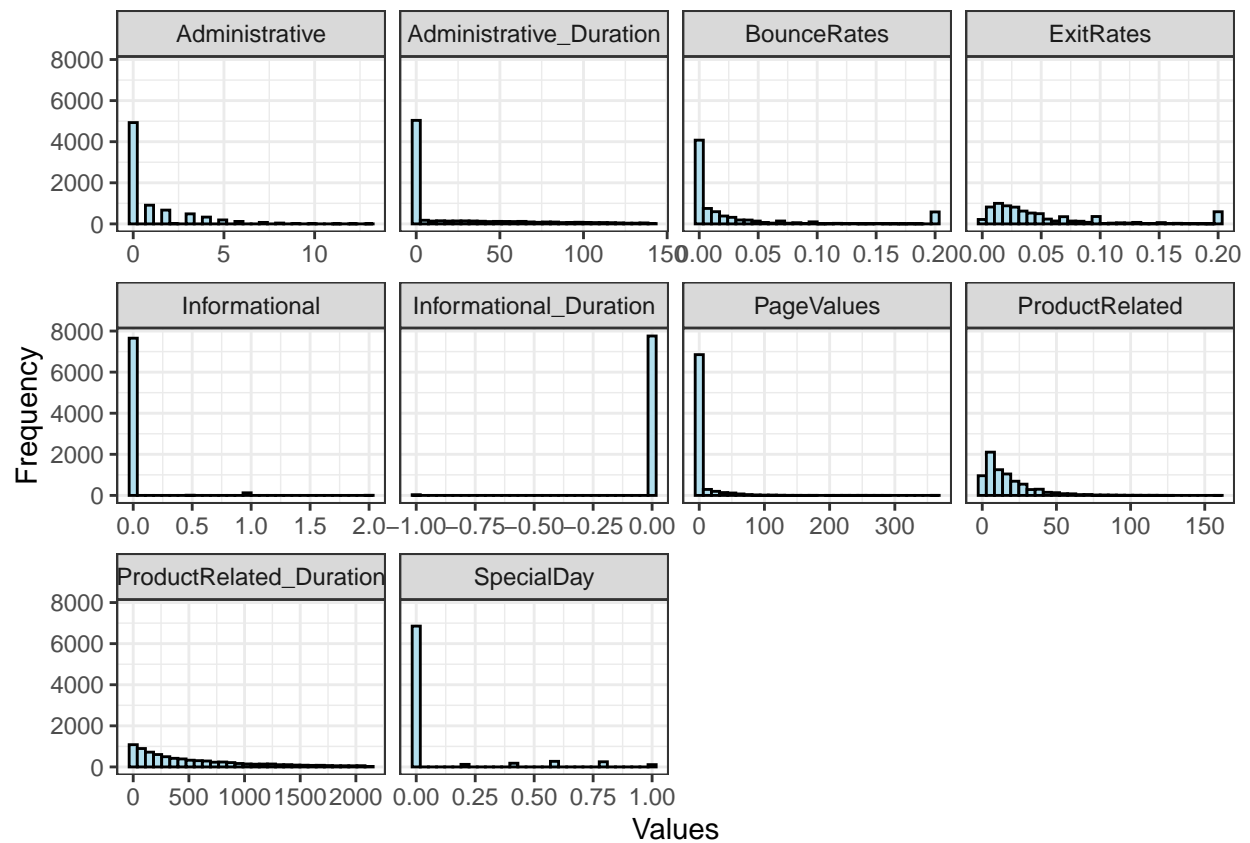
```
desc_stats <- round(desc_stats, 1)
head(desc_stats)
```

```
##           Min    Med  Mean   SD   Max     Var  Mode
## Administrative      0  0.0   1.0   1.7  13.0     3.0    0
## Administrative_Duration -1  0.0  19.8  34.6 140.0   1194.5    0
## Informational         0  0.0   0.0   0.1   2.0     0.0    0
## Informational_Duration -1  0.0   0.0   0.1   0.0     0.0    0
## ProductRelated        0 12.0  16.7  16.4 159.0    268.7    1
## ProductRelated_Duration -1 343.3 520.8 518.8 2117.7 269196.9    0
```

```
# Histograms
```

```
econ_final%>%
  gather(attributes, value, 1:10) %>%
  ggplot(aes(x = value)) +
  geom_histogram(fill = 'lightblue2', color = 'black') +
  facet_wrap(~attributes, scales = 'free_x') +
  labs(x="Values", y="Frequency") +
  theme_bw()
```

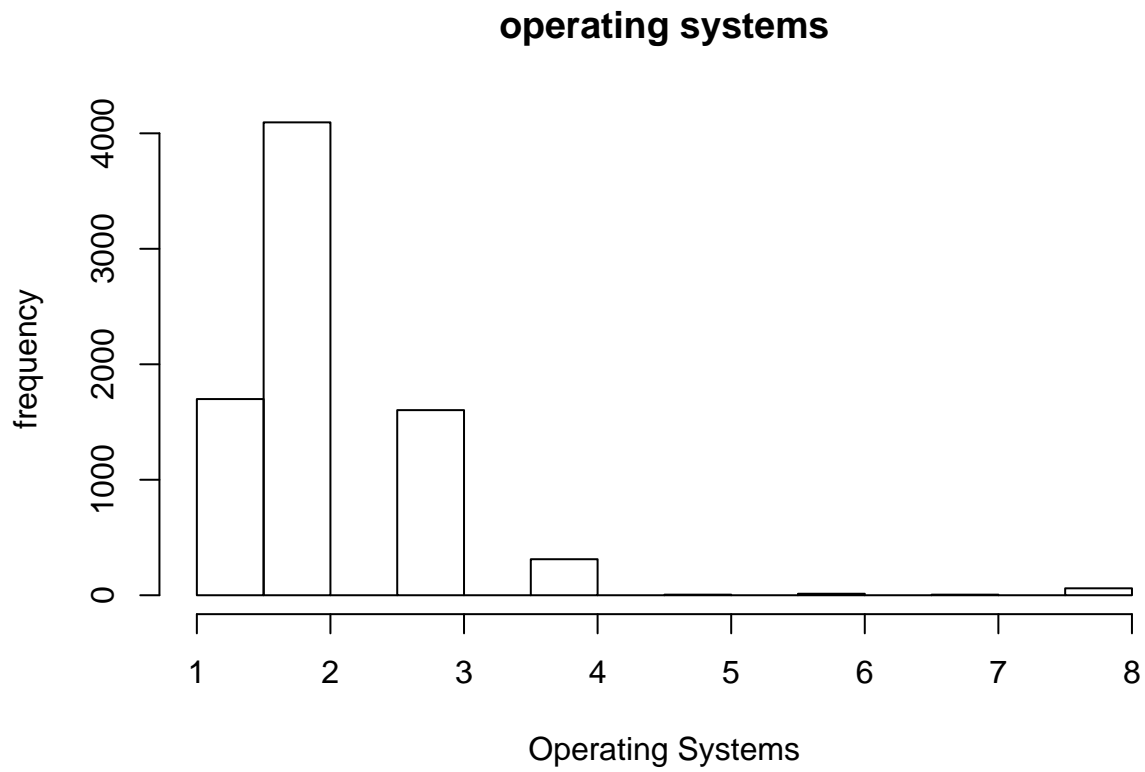
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



For the first 10 variables, most of the records taken lie within 0, even for ExitRates and ProductRelated as we can see below

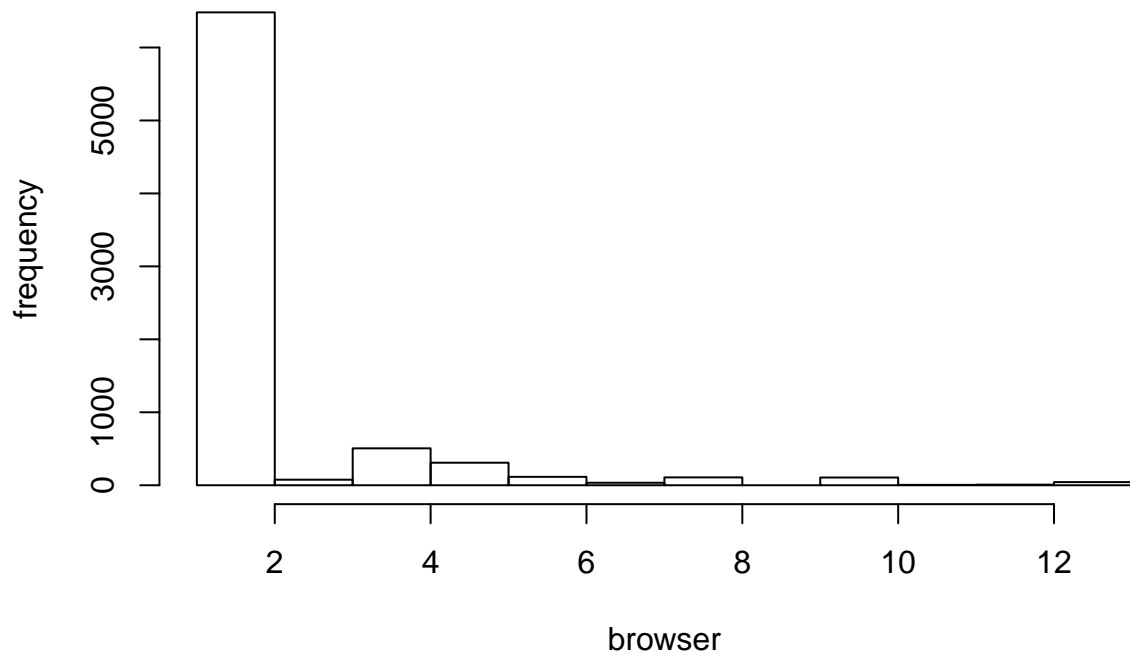
```
# Plotting the histograms
```

```
hist(econ_final$OperatingSystems, main="operating systems", xlab="Operating Systems", ylab="frequency")
```

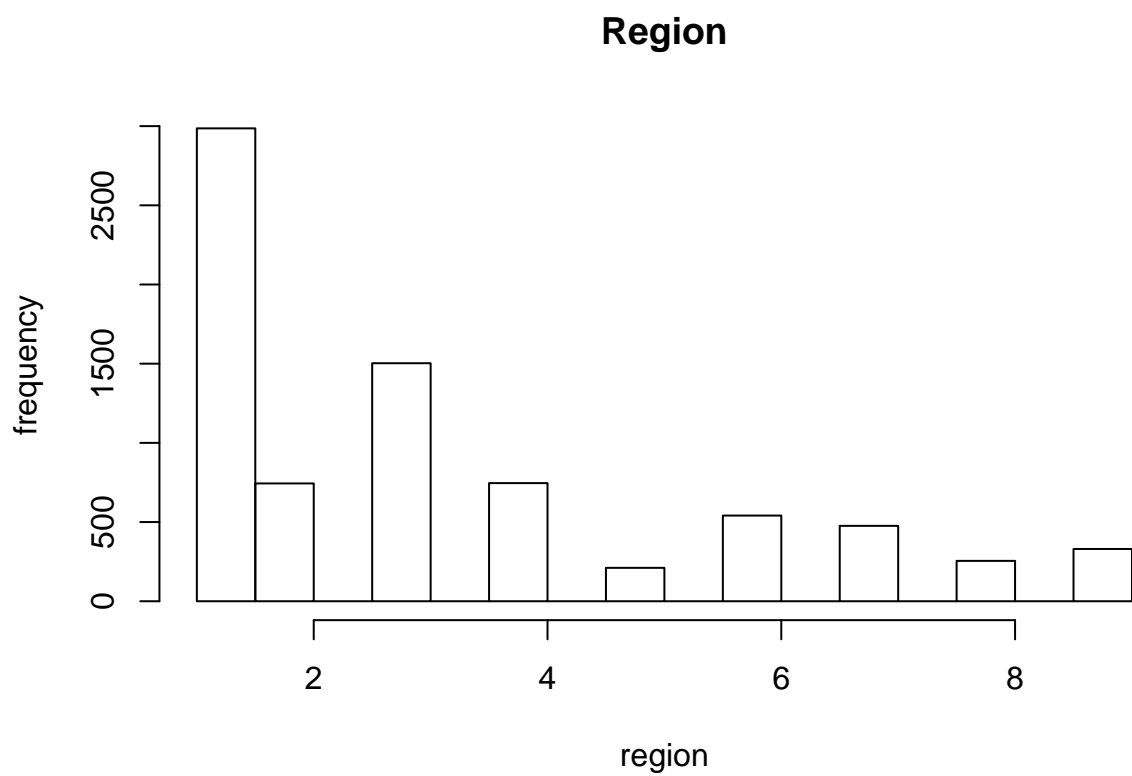



```
hist(econ_final$Browser, main="Browser", xlab="browser", ylab="frequency")
```

Browser

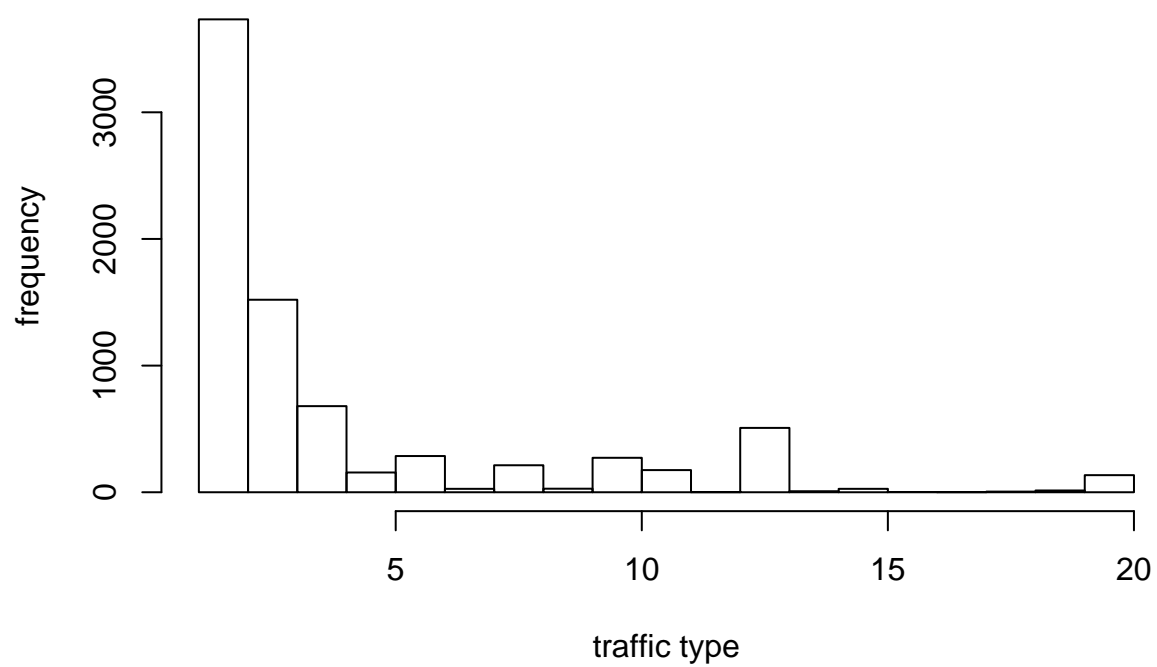


```
hist(econ_final$Region, main="Region", xlab="region", ylab="frequency")
```



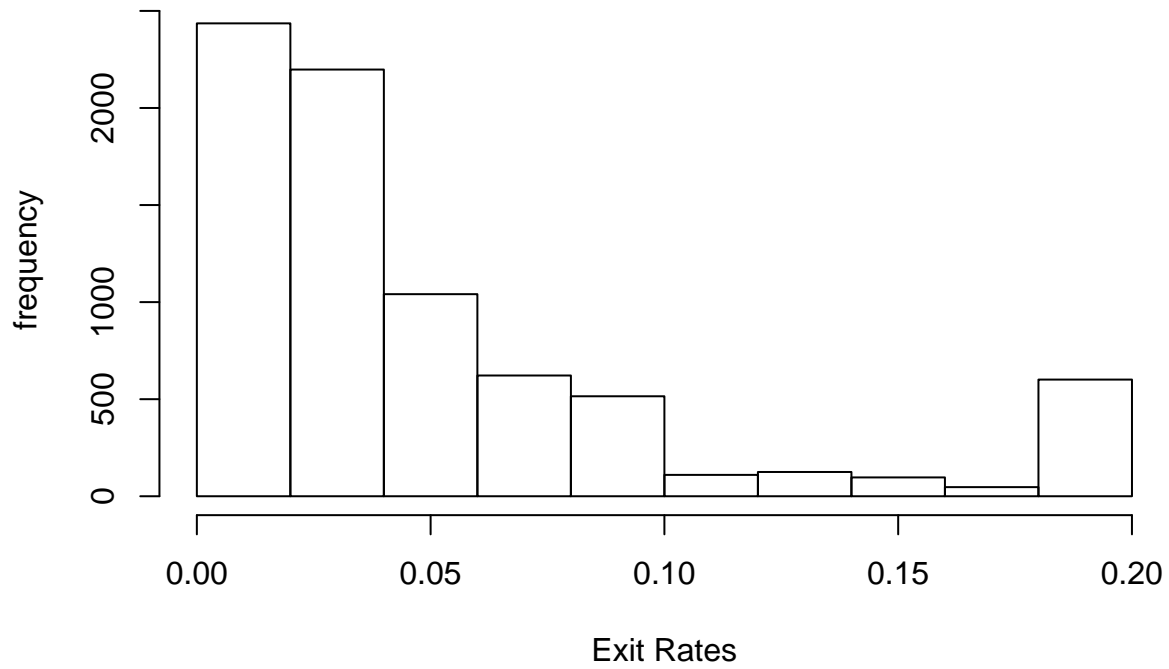
```
hist(econ_final$TrafficType, main="Traffic Type", xlab="traffic type", ylab="frequency")
```

Traffic Type

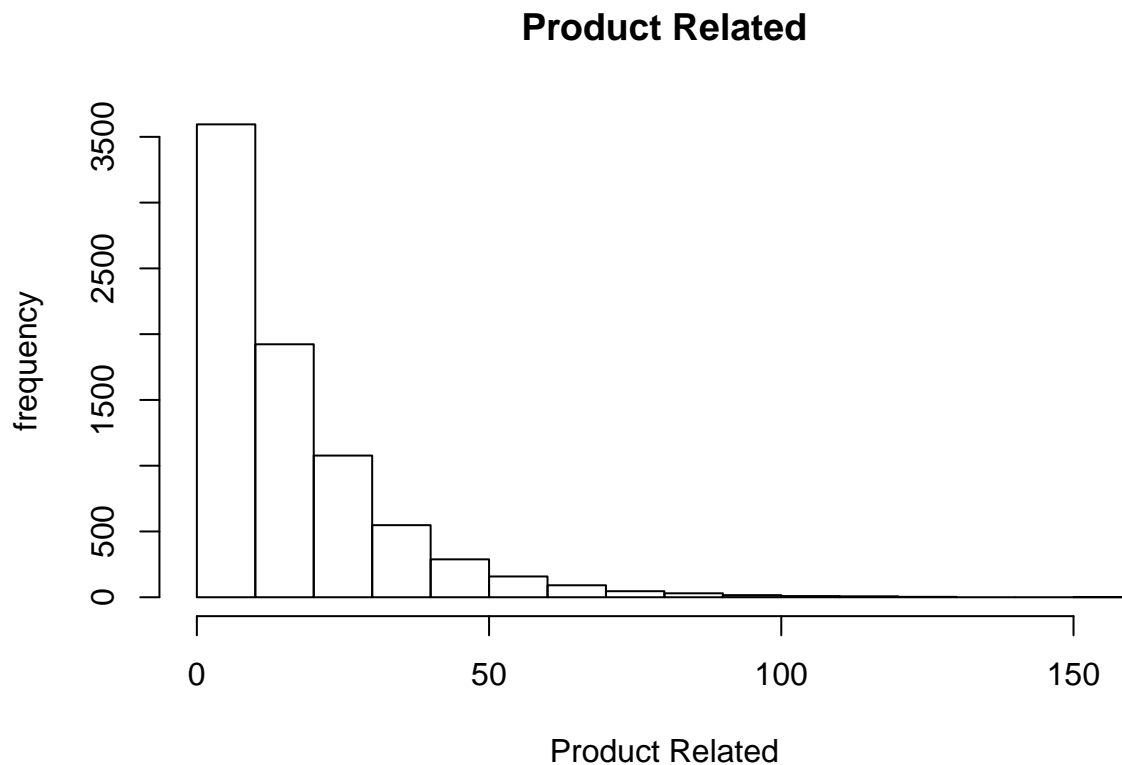


```
hist(econ_final$ExitRates, main="Exit Rates", xlab="Exit Rates", ylab="frequency")
```

Exit Rates



```
hist(econ_final$ProductRelated, main="Product Related", xlab="Product Related", ylab="frequency")
```



For the columns, most records were taken between; 1) For the operating system, 1.5 - 2 2) For browser, 1 - 2 3) For region, 1 - 2 as well 4) For traffic type, its also between 1 - 2 5) For exit rate, it is 0.00 - 0.002 6) For Product related, 0 - 10

```
# Fetching the Administrative column
# ---
#
month <- econ_final$Month

# Applying the table() function to compute the frequency distribution of the age variable
# ---
#
month_frequency <- table(month)

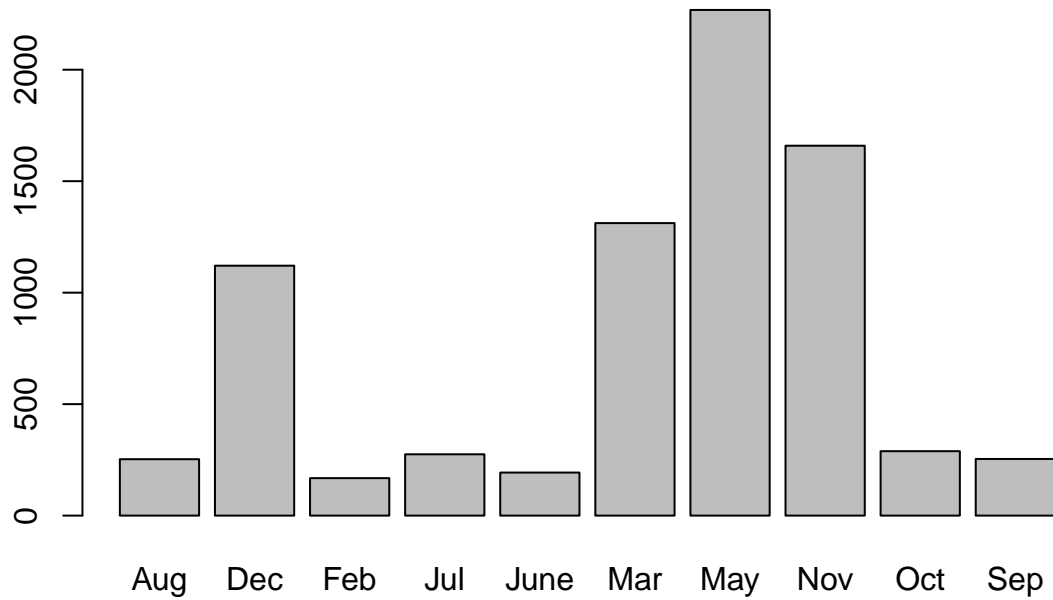
# Printing age_frequency below
# ---
#

month_frequency

## month
## Aug Dec Feb Jul June Mar May Nov Oct Sep
## 253 1121 168 275 193 1312 2268 1659 289 254

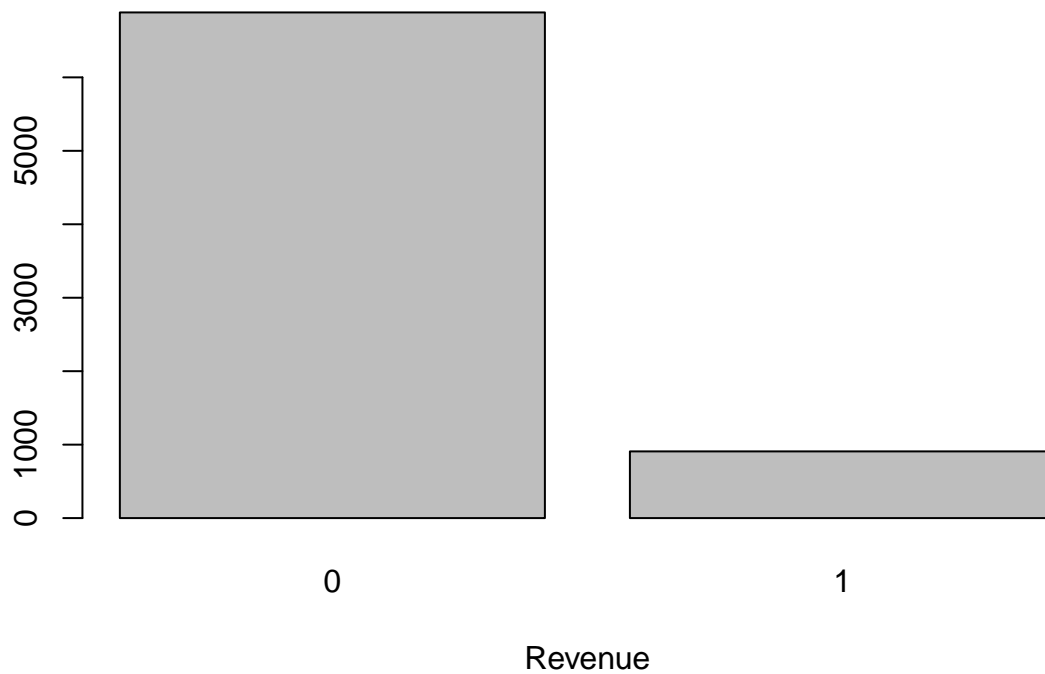
# Then applying the barplot function to produce its bar graph
# ---
#
```

```
barplot(month_frequency)
```



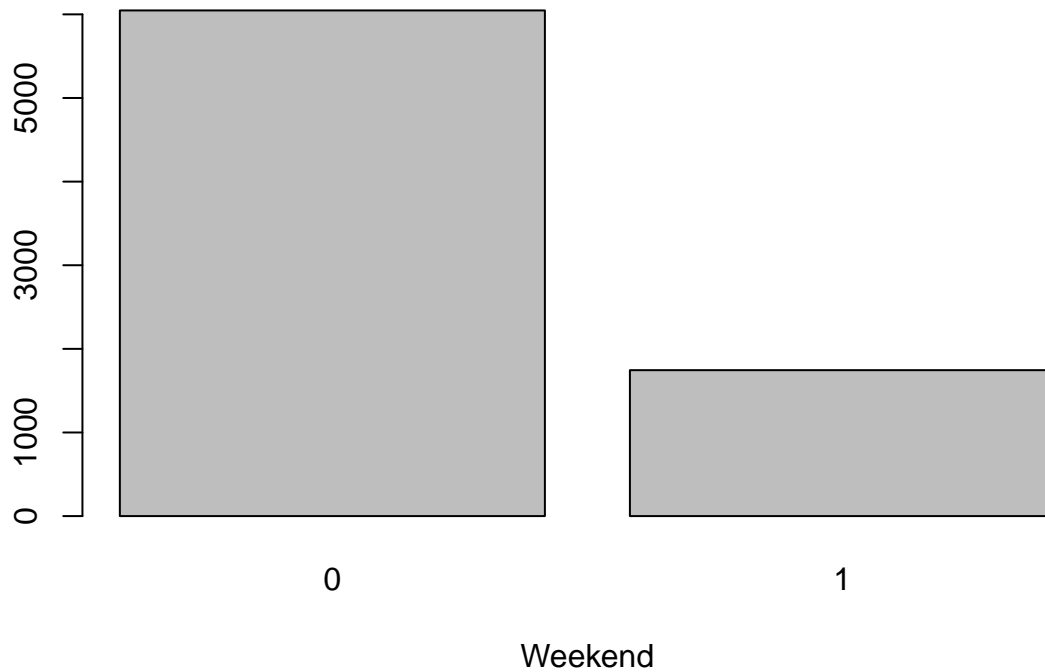
The month that recorded the most numbers is May

```
# The revenue distribution  
reven <- econ_final$Revenue  
revs <- table(reven)  
barplot(revs, xlab = "Revenue")
```



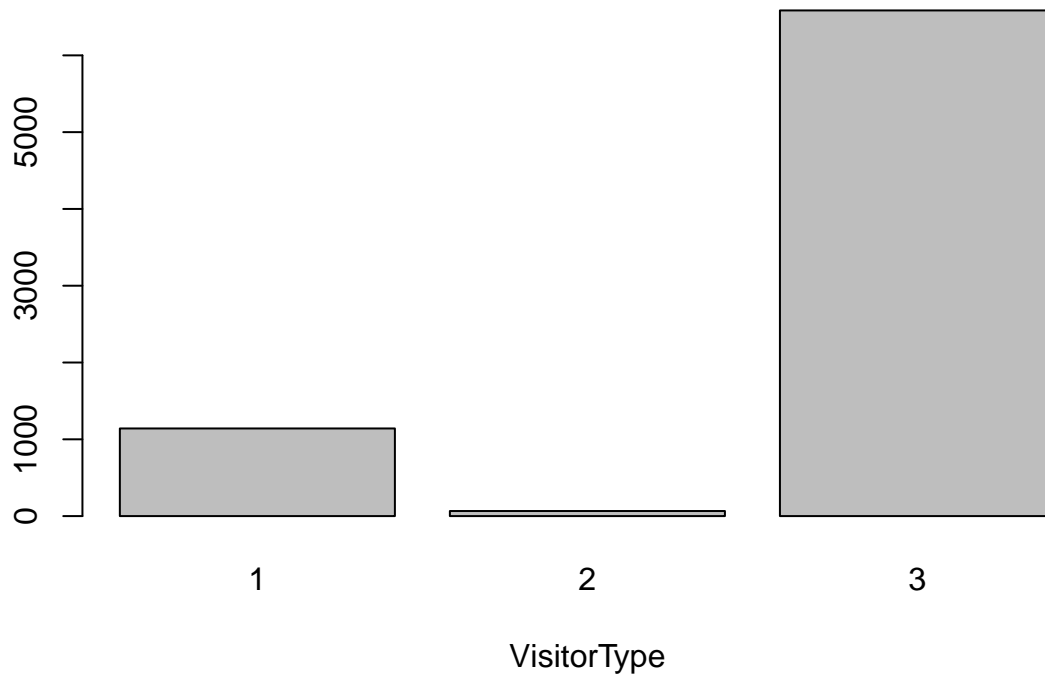
For Revenue, False(0) recorded the most numbers

```
# The weekend distribution  
weekend <- econ_final$Weekend  
week <- table(weekend)  
barplot(week, xlab = "Weekend")
```

For weekend, False also recorded the most numbers

```
# The Visitor Type distribution  
vis_type <- econ_final$VisitorType  
vis <- table(vis_type)  
barplot(vis, xlab = "VisitorType")
```



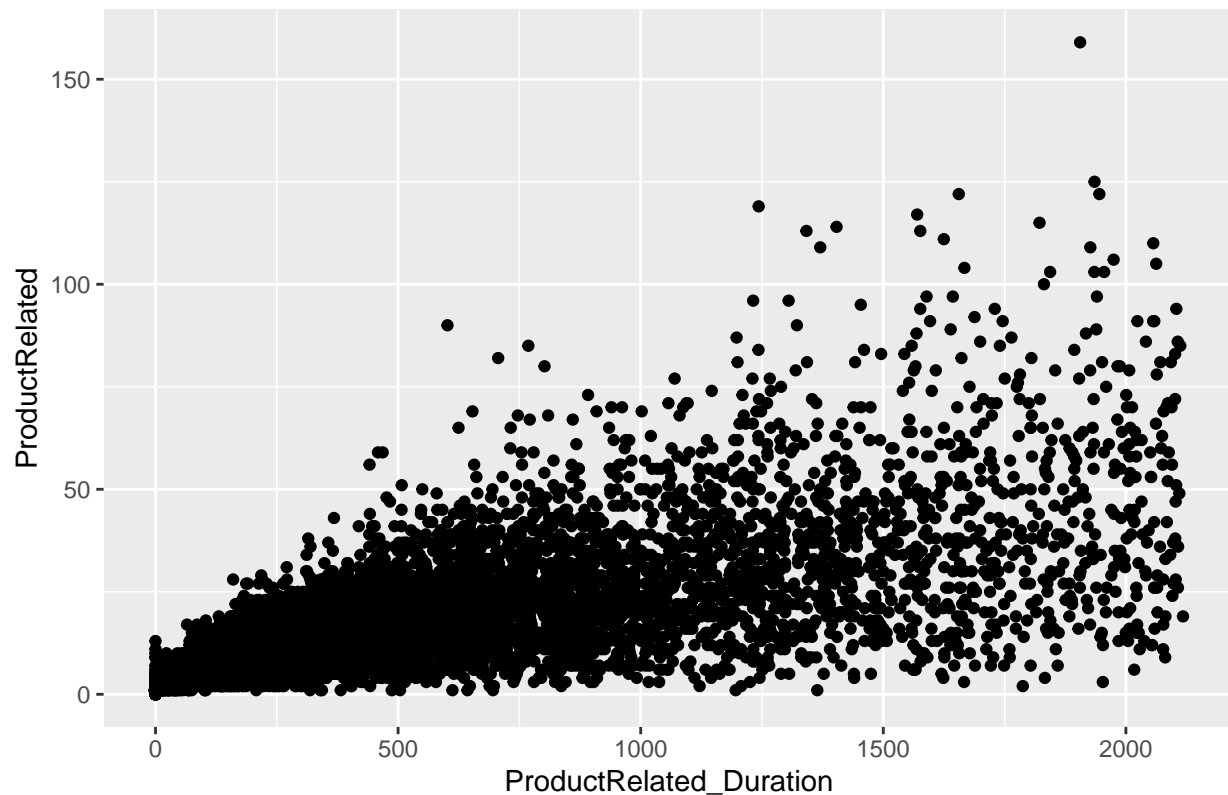
The visitor type that recorded the most numbers is returning visitor

Bivariate Analysis

```
# plot Product Related vs. Product Related Duration

ggplot(econ_final,
       aes(x = ProductRelated_Duration,
           y = ProductRelated )) +
  geom_point() +
  labs(title = "Product Related vs. Product Related Duration")
```

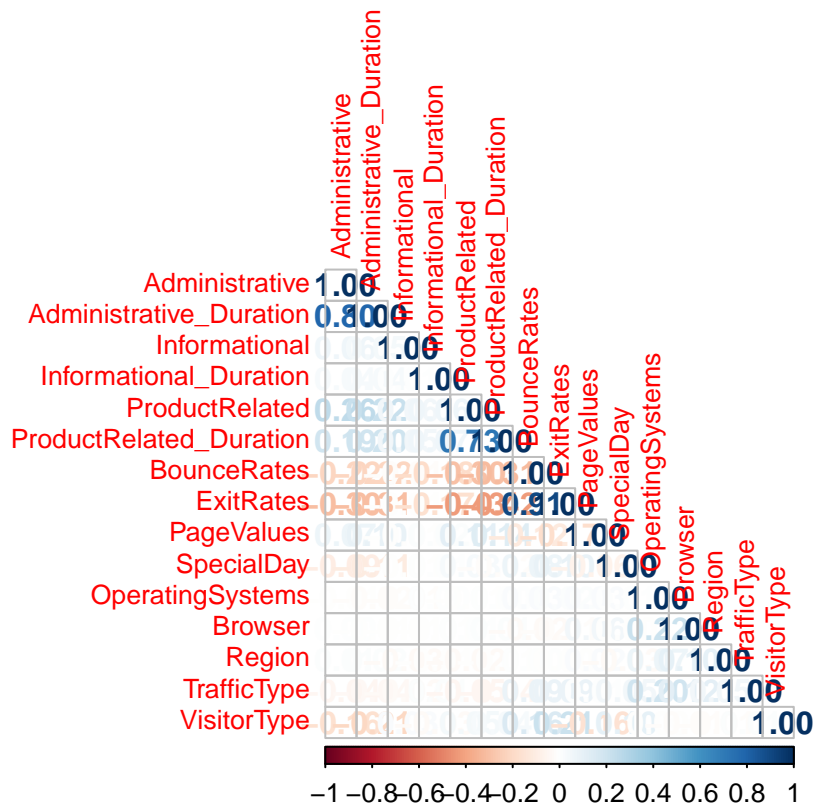
Product Related vs. Product Related Duration



As the product related duration increased the more product related pages It have a direct proportional relationship

```
# checking correlation matrix
num_ads <- unlist(lapply(econ_final, is.numeric))
num_ad <- econ_final[, num_ads]

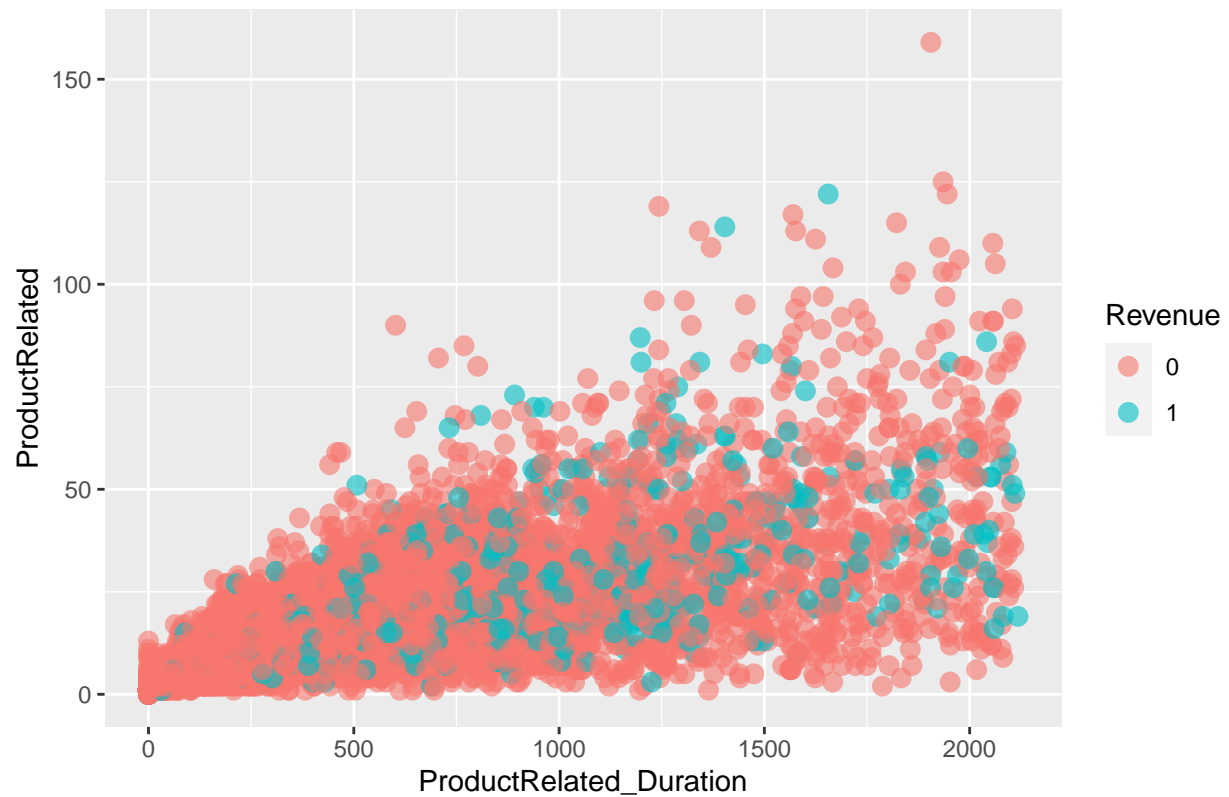
corrplot(cor(num_ad), type = 'lower', method = 'number', tl.cex = 0.8, number.cex = 1.0)
```



Multivariate Analysis

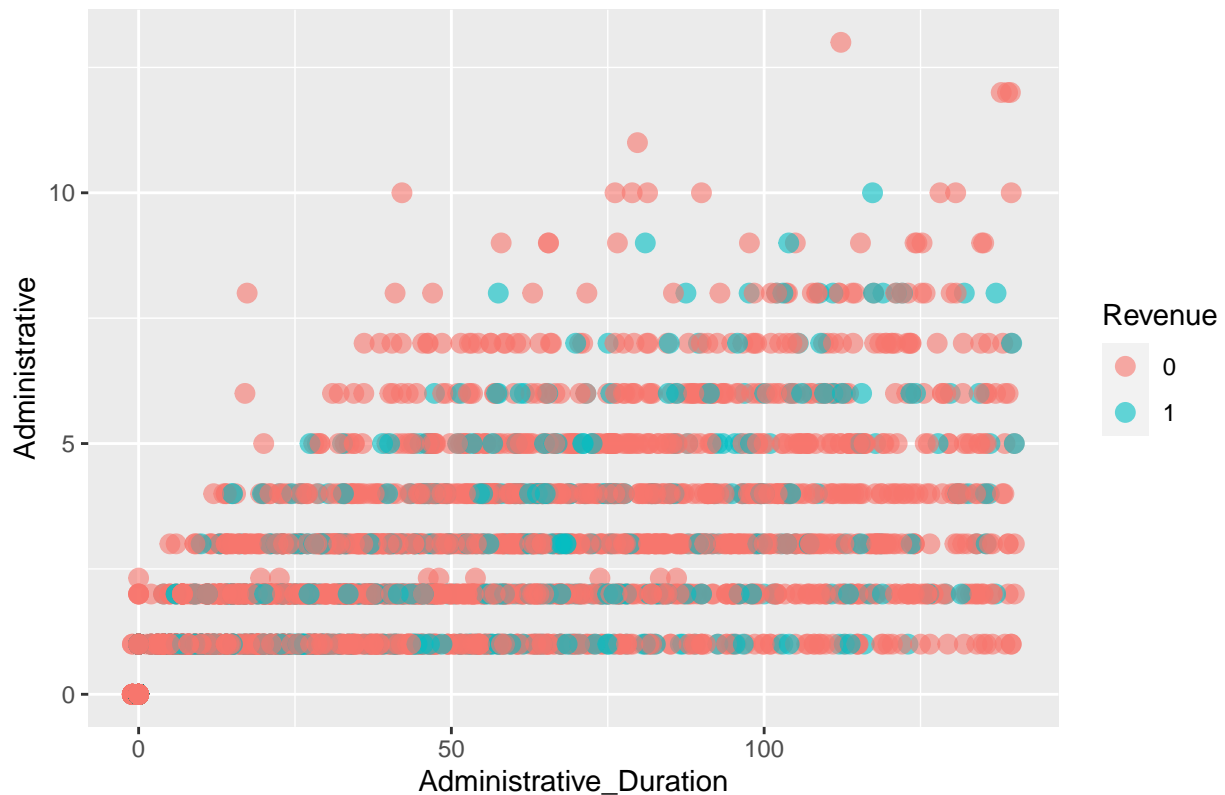
```
# plot Product Related vs. Product Related Duration
# (color represents Revenue)
ggplot(econ_final,
  aes(x = ProductRelated_Duration,
      y = ProductRelated,
      color = Revenue)) +
  geom_point(size = 3,
    alpha = .6) +
  labs(title = "Product Related vs. Product Related Duration")
```

Product Related vs. Product Related Duration



```
ggplot(econ_final,  
  aes(x = Administrative_Duration,  
      y = Administrative,  
      color = Revenue)) +  
  geom_point(size = 3,  
            alpha = .6) +  
  labs(title = "Administrative vs. Administrative_Duration")
```

Administrative vs. Administrative_Duration



For both graphs, the red is dominating than the green indicating that false was the value that was most recorded when it came to both pages.

Implementing Solution - Modeling

Creating train/test

```
X <- econ_final[, c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15)]
y <- econ_final[, "Revenue"]
```

```
head(X)
```

```
##      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 OperatingSystems Browser Region TrafficType
```

```
## 1      0      1      1      1      1
## 2      0      2      2      1      2
## 3      0      4      1      9      3
## 4      0      3      2      2      4
## 5      0      3      3      1      4
## 6      0      2      2      1      3

# Normalizing the dataset so that no particular attribute
# has more impact on clustering algorithm than others.
# ---
#

X_Norm <- as.data.frame(scale(X))
head(X_Norm)

##      Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.5805195      -0.5719742      -0.1318647      0.06521181
## 2      -0.5805195      -0.5719742      -0.1318647      0.06521181
## 3      -0.5805195      -0.6009083      -0.1318647     -15.33267874
## 4      -0.5805195      -0.5719742      -0.1318647      0.06521181
## 5      -0.5805195      -0.5719742      -0.1318647      0.06521181
## 6      -0.5805195      -0.5719742      -0.1318647      0.06521181
##      ProductRelated ProductRelated_Duration BounceRates      ExitRates PageValues
## 1      -0.9580553      -1.0036820      3.1365482      2.75038812 -0.2616453
## 2      -0.8970509      -0.8803304     -0.5080410      0.88698058 -0.2616453
## 3      -0.9580553      -1.0056094      3.1365482      2.75038812 -0.2616453
## 4      -0.8970509      -0.9985424      0.4031063      1.63234359 -0.2616453
## 5      -0.4090159      0.2057424     -0.1435821     -0.04472319 -0.2616453
## 6      0.1400235      -0.7064495     -0.2203102     -0.51874790 -0.2616453
##      SpecialDay OperatingSystems      Browser      Region TrafficType
## 1 -0.3407391      -1.1906762     -0.7811525     -0.8998572     -0.77366462
## 2 -0.3407391      -0.1330213     -0.2231967     -0.8998572     -0.53130735
## 3 -0.3407391      1.9822885     -0.7811525      2.4354680     -0.28895008
## 4 -0.3407391      0.9246336     -0.2231967     -0.4829416     -0.04659281
## 5 -0.3407391      0.9246336      0.3347592     -0.8998572     -0.04659281
## 6 -0.3407391      -0.1330213     -0.2231967     -0.8998572     -0.28895008

# Applying the K-means clustering algorithm with no. of centroids(k)=3
# ---
#
result<- kmeans(X,3)

# Previewing the no. of records in each cluster
#
result$size

## [1] 1168 4364 2260

# Getting the value of cluster center datapoint value(3 centers for k=3)
# ---
#
result$centers

##      Administrative Administrative_Duration Informational Informational_Duration
## 1      1.5439365      30.76513      0.03210957      0.00000000
## 2      0.7269182      14.11668      0.01123188     -0.00756187
```

```
## 3      1.2682616      24.99765      0.02390085      0.00000000
##      ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1      38.369007      1523.2649 0.009986402 0.02722308 8.276256
## 2      7.689276      152.6576 0.042029608 0.07162374 2.253839
## 3      22.916814      713.4205 0.009802356 0.02829152 8.219984
##      SpecialDay OperatingSystems Browser Region TrafficType
## 1 0.07226027      2.133562 2.453767 3.153253 3.945205
## 2 0.07671861      2.118698 2.396425 3.177131 4.352887
## 3 0.06752212      2.135398 2.379204 3.124779 4.009735
```

```
# Getting the cluster vector that shows the cluster where each record falls
```

```
# ---
```

```
#
```

```
result$cluster
```

```
##      1      2      3      4      5      6      7      8      9     10     11     12     13
##      2      2      2      2      3      2      2      2      2      3      2      2      2
##     14     15     16     17     18     19     21     22     23     24     25     26     27
##      2      2      1      2      2      2      2      2      2      2      2      2      1
##     28     29     30     31     32     33     34     35     36     37     38     39     40
##      2      2      1      2      2      2      2      2      1      2      2      2      3
##     42     43     44     45     46     47     48     49     50     51     52     53     54
##      2      2      2      2      3      2      2      3      2      2      2      2      2
##     55     56     57     59     60     61     62     64     65     66     68     69     70
##      2      2      2      2      2      2      2      3      2      3      2      3      2
##     71     72     73     74     75     76     78     79     80     81     82     83     84
##      2      2      2      2      2      3      2      2      2      2      2      2      2
##     85     86     87     88     89     90     91     92     93     94     95     96     97
##      2      2      2      2      2      3      2      2      2      3      3      2      1
##     98     99    100    102    103    105    106    107    108    109    111    112    113
##      2      2      3      3      2      2      2      2      2      2      2      2      2
##    114    116    117    118    119    120    121    122    124    125    126    127    128
##      3      2      1      3      2      2      2      2      2      2      2      1      2
##    130    131    132    133    134    135    136    137    138    139    140    141    142
##      2      2      2      2      1      3      2      2      2      2      3      2      2
##    143    144    146    147    148    149    150    151    152    153    154    155    156
##      2      2      3      3      3      1      2      3      2      2      3      2      3
##    157    158    160    161    163    164    165    166    167    168    169    170    171
##      2      2      2      3      1      3      3      2      2      2      3      3      3
##    172    173    174    175    176    177    178    180    181    182    183    184    186
##      3      2      2      3      2      3      2      2      2      2      2      2      3
##    187    191    193    194    195    199    202    204    205    207    208    209    210
##      3      2      2      2      2      3      2      2      2      1      3      2      3
##    212    213    214    217    218    219    220    221    222    223    224    226    228
##      3      2      3      2      1      2      2      3      2      2      2      2      2
##    230    231    233    237    239    240    242    243    245    246    247    248    253
##      1      1      2      1      3      3      2      1      3      3      3      2      2
##    254    255    256    257    259    260    261    262    264    265    267    268    269
##      2      2      1      2      3      2      3      2      2      2      2      2      1
##    270    271    272    274    275    276    277    279    280    281    282    284    286
##      2      2      2      3      2      2      2      1      3      2      2      2      2
##    287    290    291    292    293    294    296    297    299    300    302    303    304
##      2      2      3      3      3      2      2      3      2      2      3      2      3
##    305    306    307    308    309    310    312    313    317    319    320    321    322
##      2      2      2      2      2      2      2      2      2      2      1      1      2
```


##	323	324	326	328	329	330	331	332	334	336	337	338	339
##	2	1	2	2	2	2	2	3	1	2	1	1	2
##	340	341	342	343	344	345	347	349	350	351	352	355	357
##	3	2	2	2	1	2	2	3	2	3	2	3	2
##	358	360	361	362	363	365	367	369	370	372	373	375	376
##	2	2	3	2	2	2	2	2	3	2	2	2	3
##	377	378	379	381	382	383	384	386	387	388	389	390	391
##	2	2	3	2	2	2	2	2	2	2	2	3	1
##	392	393	395	399	401	402	404	406	408	410	411	415	416
##	2	3	2	2	1	2	3	3	2	2	2	3	3
##	418	420	421	422	423	424	426	427	428	429	430	431	432
##	2	2	3	2	1	2	2	2	2	3	2	2	1
##	433	434	435	436	437	438	439	440	441	443	444	445	449
##	2	2	2	2	3	2	2	3	1	2	3	2	1
##	450	451	452	453	454	455	456	458	459	462	464	465	466
##	3	2	3	3	3	3	2	3	2	3	2	1	3
##	468	469	470	472	473	475	476	480	482	483	485	486	487
##	3	2	3	3	2	3	2	2	2	3	2	2	2
##	488	491	492	493	494	495	496	498	499	501	502	505	506
##	3	2	2	3	2	2	3	2	2	2	3	3	2
##	507	508	510	516	517	518	519	521	522	523	524	525	526
##	3	3	2	2	3	3	2	2	2	3	2	1	2
##	527	528	529	530	531	532	533	534	535	536	538	539	540
##	3	3	2	2	3	3	2	2	2	3	2	2	2
##	541	542	543	544	547	549	550	551	552	554	557	558	559
##	2	3	3	3	2	3	2	2	2	2	3	3	2
##	560	562	563	565	566	567	569	570	571	572	573	574	577
##	3	2	2	3	1	2	2	2	2	2	2	2	2
##	578	579	581	583	584	585	586	587	589	591	592	593	597
##	2	1	3	1	3	2	2	2	1	2	2	1	2
##	598	599	600	601	603	605	606	607	608	609	610	614	615
##	2	2	2	1	2	1	3	1	2	2	2	1	3
##	616	618	621	622	623	624	626	627	628	632	634	635	637
##	2	1	2	3	2	2	3	3	2	3	1	2	2
##	638	639	640	641	643	644	645	646	647	648	651	652	653
##	3	2	2	1	2	3	2	3	2	1	2	2	3
##	654	656	657	659	661	662	663	664	665	667	668	669	670
##	1	1	2	2	2	3	2	2	3	3	2	2	3
##	671	672	673	674	676	677	678	679	680	681	682	684	685
##	2	2	2	3	3	2	3	2	2	2	2	1	2
##	686	687	688	689	691	692	693	694	696	700	701	703	704
##	2	2	2	2	2	3	1	3	1	2	2	3	3
##	706	709	710	711	712	714	715	716	718	719	721	722	724
##	2	3	3	1	2	2	2	1	3	2	2	2	3
##	725	726	727	728	729	730	732	733	734	737	738	739	742
##	2	3	3	2	2	1	3	3	3	2	1	2	3
##	743	744	745	746	749	750	751	755	758	759	760	762	763
##	1	2	3	2	3	3	1	2	2	3	3	1	3
##	764	765	766	767	768	769	771	772	776	779	780	781	782
##	2	3	2	2	3	3	1	1	2	3	3	2	2
##	783	785	786	787	788	790	791	792	795	796	798	799	801
##	3	3	2	2	3	2	2	2	3	3	1	2	2
##	802	804	805	806	807	808	809	810	812	813	814	815	816
##	3	2	2	2	3	2	2	1	2	2	1	3	3

##	818	820	821	822	823	824	825	828	830	832	833	834	835
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##	837	838	839	840	841	842	843	844	847	848	850	853	857
##	3	3	3	2	3	2	1	1	3	2	2	2	3
##	858	859	860	861	862	863	865	866	868	869	871	875	876
##	3	2	3	2	2	2	2	2	2	1	2	1	2
##	879	880	881	882	884	887	888	889	891	893	894	896	897
##	2	3	2	2	3	3	2	2	3	1	2	2	2
##	898	899	900	901	902	903	904	908	909	912	914	915	916
##	2	2	2	3	3	3	2	2	2	2	2	2	1
##	918	921	927	928	929	930	931	933	934	936	937	939	941
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##	943	944	946	947	950	951	952	954	955	957	958	959	960
##	2	3	2	2	2	1	2	2	2	2	2	2	2
##	961	962	963	964	965	968	970	972	974	977	978	979	981
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##	982	983	984	985	986	988	989	990	991	992	993	994	995
##	2	3	1	2	2	2	2	1	2	2	2	2	2
##	996	998	999	1000	1001	1003	1005	1006	1007	1008	1009	1011	1012
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##	1013	1014	1015	1016	1017	1019	1020	1021	1023	1024	1025	1028	1029
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##	1030	1031	1032	1033	1034	1036	1039	1040	1041	1043	1045	1046	1047
##	3	2	2	3	2	2	3	3	3	2	2	2	1
##	1048	1049	1050	1053	1054	1056	1057	1058	1060	1061	1062	1063	1065
##	2	2	3	2	2	2	3	2	2	3	2	2	3
##	1066	1067	1068	1069	1071	1072	1073	1075	1077	1078	1079	1080	1081
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##	1083	1084	1086	1087	1088	1089	1091	1092	1093	1094	1095	1096	1099
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##	1100	1104	1105	1108	1109	1110	1111	1115	1117	1119	1121	1122	1123
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##	1124	1125	1126	1127	1129	1130	1131	1133	1134	1137	1139	1141	1143
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##	1181	1182	1185	1187	1188	1190	1191	1192	1193	1194	1195	1198	1199
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##	1200	1202	1204	1205	1206	1207	1209	1210	1212	1213	1216	1217	1218
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##	1251	1253	1256	1257	1258	1259	1260	1262	1264	1266	1267	1270	1271
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##	1272	1275	1276	1279	1280	1281	1283	1285	1286	1287	1288	1289	1290
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##	1291	1293	1294	1295	1296	1297	1298	1300	1301	1305	1306	1307	1308
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##	1309	1310	1311	1312	1313	1314	1315	1317	1318	1319	1320	1323	1328
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##	1329	1331	1332	1333	1334	1338	1339	1341	1344	1345	1346	1348	1349
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##	1350	1351	1353	1355	1356	1359	1361	1364	1365	1366	1368	1370	1371
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##	1595	1596	1597	1600	1601	1602	1604	1605	1607	1608	1611	1612	1613
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##	1942	1944	1946	1948	1949	1951	1952	1953	1954	1955	1956	1957	1961
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##	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973	1975	1977
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##	1978	1979	1981	1982	1983	1984	1985	1986	1988	1992	1993	1994	1995
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##	1998	1999	2003	2004	2005	2006	2008	2010	2014	2015	2018	2019	2020
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##	2039	2043	2044	2045	2047	2048	2049	2050	2051	2053	2054	2055	2056
##	2	3	2	2	2	2	2	3	3	2	3	2	2
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##	3217	3218	3219	3221	3222	3223	3224	3225	3226	3227	3230	3231	3233
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##	3234	3236	3239	3240	3242	3244	3246	3248	3250	3251	3252	3253	3256
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##	3257	3258	3259	3260	3262	3263	3265	3266	3267	3270	3271	3274	3275
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##	3385	3386	3387	3388	3389	3391	3392	3395	3396	3397	3400	3401	3402
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##	3403	3404	3405	3407	3409	3410	3411	3415	3416	3417	3418	3419	3420
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##	4957	4958	4959	4960	4961	4962	4963	4965	4970	4971	4972	4973	4974
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##	4977	4979	4980	4981	4982	4983	4985	4990	4992	4996	4997	4998	5000
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##	5239	5241	5245	5246	5247	5248	5249	5250	5253	5257	5258	5259	5261
##	2	2	3	1	3	2	3	3	3	2	2	1	3
##	5265	5266	5269	5270	5271	5272	5274	5275	5278	5279	5280	5281	5283
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##	5284	5285	5286	5288	5291	5292	5293	5295	5297	5298	5299	5301	5302
##	3	3	2	2	2	2	2	3	2	2	2	2	3
##	5303	5304	5305	5306	5307	5308	5309	5310	5311	5312	5313	5314	5316
##	2	3	2	2	2	3	2	3	2	2	1	2	2
##	5318	5321	5322	5323	5324	5325	5326	5327	5328	5329	5330	5331	5332
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##	5333	5336	5337	5338	5341	5342	5343	5345	5347	5348	5349	5350	5351
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##	5352	5353	5354	5355	5357	5358	5359	5362	5364	5365	5367	5368	5373
##	2	1	3	2	2	2	3	3	3	2	2	3	2
##	5374	5376	5377	5378	5379	5380	5381	5383	5384	5385	5386	5387	5388
##	1	3	2	2	2	2	1	2	1	3	2	2	3
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##	2	3	2	3	2	3	3	2	3	3	2	3	2
##	5407	5410	5412	5413	5416	5417	5418	5419	5422	5424	5425	5427	5429
##	2	3	3	2	2	2	3	1	2	3	3	2	2
##	5430	5431	5432	5433	5434	5436	5437	5439	5442	5443	5445	5446	5449
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##	5451	5452	5453	5455	5456	5457	5458	5460	5462	5463	5465	5467	5470
##	2	3	2	2	2	2	2	2	2	2	1	2	3
##	5471	5472	5473	5475	5479	5480	5481	5482	5484	5485	5486	5487	5488
##	2	2	3	2	3	3	2	1	2	2	3	2	2

##	5490	5492	5494	5495	5496	5497	5500	5502	5504	5505	5506	5507	5508
##	3	3	3	3	2	3	2	2	3	2	3	3	2
##	5509	5511	5512	5515	5516	5517	5519	5522	5523	5524	5525	5526	5528
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##	5529	5530	5532	5534	5535	5539	5540	5541	5542	5543	5545	5546	5548
##	2	2	2	2	2	3	3	2	2	2	1	1	3
##	5549	5550	5552	5554	5557	5558	5559	5560	5561	5563	5564	5565	5567
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##	5568	5569	5571	5573	5574	5575	5577	5578	5579	5580	5581	5582	5583
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##	5587	5588	5589	5590	5591	5592	5594	5595	5596	5599	5602	5603	5604
##	3	3	1	3	2	2	2	2	1	2	2	3	2
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##	5662	5663	5665	5666	5667	5669	5670	5671	5672	5673	5674	5677	5678
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##	5724	5725	5726	5727	5728	5730	5732	5733	5734	5735	5737	5738	5740
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##	5741	5743	5744	5745	5750	5753	5754	5761	5762	5764	5766	5767	5768
##	1	3	3	3	3	1	3	1	2	2	2	3	2
##	5769	5772	5775	5779	5782	5783	5784	5786	5787	5790	5792	5793	5794
##	3	2	2	3	2	2	3	2	1	2	3	3	1
##	5795	5796	5797	5799	5800	5801	5802	5805	5806	5809	5811	5812	5815
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##	5817	5819	5820	5821	5822	5823	5825	5826	5827	5829	5831	5833	5838
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##	5855	5856	5857	5858	5859	5860	5861	5863	5865	5866	5867	5868	5869
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##	2	3	2	3	2	3	2	1	3	2	2	2	2
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##	2	2	2	2	2	2	1	2	2	1	2	2	1
##	5945	5946	5947	5948	5950	5951	5955	5956	5958	5959	5960	5961	5964
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##	3	1	3	2	2	2	2	2	3	1	2	2	1
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##	6032	6033	6034	6036	6037	6038	6040	6041	6042	6043	6044	6045	6046
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##	6049	6050	6051	6055	6056	6057	6058	6059	6061	6063	6065	6066	6069
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##	6470	6471	6473	6476	6479	6481	6482	6483	6484	6486	6492	6493	6497
##	1	2	2	2	2	3	2	2	3	2	3	2	2
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##	6540	6542	6545	6547	6548	6549	6552	6553	6554	6557	6561	6563	6564
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##	6565	6566	6570	6571	6573	6574	6576	6577	6578	6579	6580	6582	6585
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##	6613	6615	6616	6618	6621	6622	6624	6625	6627	6629	6630	6631	6632
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##	6633	6635	6637	6638	6639	6643	6644	6647	6649	6652	6653	6654	6656
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##	6703	6704	6705	6717	6718	6719	6721	6722	6723	6724	6732	6733	6736
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##	6976	6977	6978	6979	6981	6983	6984	6986	6989	6990	6991	6992	6995
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##	7255	7256	7257	7258	7260	7261	7262	7263	7266	7267	7270	7271	7272
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##	7274	7275	7276	7277	7278	7279	7280	7283	7284	7286	7288	7289	7290
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##	7730	7734	7738	7739	7741	7742	7743	7745	7746	7750	7752	7753	7754
##	2	2	3	2	1	2	2	2	2	3	3	1	2
##	7755	7756	7760	7761	7762	7765	7766	7767	7768	7772	7773	7775	7776
##	3	3	2	2	2	3	2	2	2	2	3	2	2
##	7778	7779	7780	7782	7783	7784	7785	7788	7791	7793	7795	7796	7800
##	2	1	2	2	1	2	1	2	2	3	1	3	2
##	7806	7807	7810	7811	7814	7815	7816	7817	7818	7819	7821	7823	7824
##	3	2	2	2	2	2	2	2	2	1	3	3	2
##	7826	7827	7828	7832	7834	7835	7836	7837	7838	7840	7842	7843	7845
##	2	2	2	3	2	2	2	2	2	2	2	3	2
##	7846	7848	7849	7850	7852	7854	7856	7863	7864	7866	7867	7868	7869
##	3	2	2	3	2	3	2	3	2	2	2	2	1
##	7870	7873	7874	7877	7880	7881	7882	7883	7884	7886	7887	7888	7889
##	3	1	3	2	2	3	2	2	2	2	2	1	3
##	7890	7892	7895	7896	7897	7898	7899	7902	7904	7906	7907	7908	7909
##	2	2	2	2	1	3	3	3	2	3	2	2	2

##	7913	7914	7916	7919	7920	7921	7922	7923	7924	7925	7929	7930	7932
##	3	3	3	1	2	2	2	2	3	2	2	3	2
##	7933	7934	7935	7936	7937	7940	7941	7944	7948	7949	7950	7952	7953
##	3	2	2	1	1	3	1	2	2	3	2	3	3
##	7955	7956	7957	7962	7963	7964	7967	7969	7973	7974	7981	7982	7983
##	2	1	3	2	3	3	3	1	2	1	1	3	2
##	7985	7986	7987	7988	7990	7991	7993	7994	7998	7999	8001	8002	8003
##	1	3	2	3	3	2	2	3	2	2	2	2	2
##	8005	8006	8008	8012	8013	8014	8015	8016	8019	8020	8022	8024	8025
##	3	1	2	2	3	2	2	3	3	2	2	3	3
##	8026	8030	8032	8033	8035	8036	8038	8039	8043	8044	8045	8046	8047
##	2	2	3	3	2	3	3	3	2	2	1	2	3
##	8048	8049	8050	8052	8053	8055	8056	8058	8059	8060	8061	8062	8063
##	2	3	3	1	2	3	2	2	3	2	1	1	3
##	8064	8065	8066	8068	8069	8070	8071	8073	8074	8075	8076	8078	8079
##	1	2	2	2	1	2	2	2	3	2	2	2	3
##	8080	8083	8084	8085	8086	8087	8088	8090	8091	8093	8097	8098	8100
##	2	1	2	1	2	2	3	3	3	3	1	2	1
##	8101	8102	8104	8105	8106	8108	8109	8112	8113	8114	8115	8116	8119
##	2	2	2	2	3	2	1	3	3	3	1	2	3
##	8122	8124	8125	8127	8129	8130	8131	8133	8134	8136	8140	8141	8142
##	3	3	2	3	2	3	3	3	2	1	2	3	2
##	8144	8145	8146	8147	8148	8149	8150	8152	8153	8154	8155	8156	8157
##	3	2	1	2	2	1	2	3	2	2	2	3	2
##	8159	8160	8161	8162	8163	8164	8165	8166	8167	8169	8170	8171	8172
##	2	3	1	3	2	2	3	2	2	1	2	3	3
##	8176	8177	8178	8179	8180	8181	8183	8184	8185	8188	8190	8193	8196
##	1	2	2	2	3	2	2	3	2	2	1	3	2
##	8197	8199	8201	8202	8203	8205	8206	8208	8210	8211	8212	8214	8215
##	3	2	2	2	3	3	3	2	3	2	1	1	3
##	8216	8218	8219	8220	8221	8222	8223	8225	8228	8233	8234	8237	8238
##	2	3	3	1	2	2	2	2	2	3	1	3	1
##	8240	8243	8244	8245	8248	8250	8251	8252	8254	8256	8258	8259	8260
##	2	2	3	3	2	2	3	3	3	3	2	1	2
##	8262	8263	8264	8266	8267	8268	8269	8272	8274	8276	8277	8281	8284
##	2	3	2	2	2	2	3	3	2	2	2	2	2
##	8286	8287	8289	8290	8291	8293	8294	8296	8297	8299	8300	8303	8305
##	2	1	2	3	3	2	1	3	1	1	2	2	2
##	8306	8308	8310	8311	8313	8315	8316	8317	8318	8319	8320	8321	8322
##	2	2	2	2	3	2	2	2	3	2	2	3	2
##	8323	8324	8325	8326	8329	8330	8332	8334	8335	8337	8340	8341	8343
##	2	1	2	2	2	1	3	1	3	3	2	1	2
##	8346	8348	8351	8352	8353	8354	8357	8360	8361	8363	8365	8366	8367
##	3	3	3	2	1	1	1	1	1	3	3	3	3
##	8368	8370	8371	8374	8379	8380	8381	8382	8385	8386	8387	8388	8389
##	2	3	2	2	1	3	3	1	2	2	1	3	3
##	8392	8394	8395	8396	8397	8399	8400	8401	8402	8403	8404	8405	8406
##	1	2	2	3	2	3	3	2	1	3	1	3	1
##	8408	8409	8410	8411	8412	8414	8415	8420	8421	8422	8423	8424	8426
##	2	3	3	2	2	2	2	1	1	3	1	1	2
##	8427	8428	8429	8430	8431	8432	8433	8435	8437	8438	8440	8441	8443
##	3	2	2	1	2	1	2	2	3	2	2	2	1
##	8444	8445	8449	8450	8451	8452	8453	8456	8457	8458	8460	8461	8463
##	2	2	2	1	1	3	1	2	3	2	3	3	2

##	8464	8465	8470	8471	8472	8474	8475	8476	8479	8481	8482	8484	8485
##	1	2	3	2	1	1	1	2	3	3	1	2	2
##	8489	8490	8491	8492	8493	8494	8495	8496	8499	8502	8503	8508	8509
##	2	2	3	2	3	2	2	2	3	2	3	2	1
##	8510	8513	8514	8518	8519	8521	8523	8525	8527	8529	8530	8532	8533
##	2	2	3	1	2	2	3	1	3	2	2	2	3
##	8534	8535	8537	8538	8539	8540	8541	8544	8548	8550	8551	8552	8554
##	3	2	2	2	1	3	3	1	3	2	3	1	3
##	8555	8557	8562	8563	8566	8567	8568	8569	8570	8572	8573	8574	8576
##	3	1	2	3	2	3	3	2	1	2	3	3	2
##	8577	8578	8580	8582	8584	8590	8591	8592	8593	8596	8598	8599	8600
##	2	2	1	1	3	3	3	2	3	3	2	2	2
##	8602	8604	8605	8606	8607	8611	8612	8615	8616	8617	8618	8620	8621
##	3	1	1	2	3	2	2	2	3	2	3	1	3
##	8622	8625	8627	8629	8636	8637	8638	8639	8640	8641	8642	8643	8644
##	2	2	2	2	3	2	3	2	1	3	2	2	2
##	8645	8648	8650	8651	8652	8653	8654	8655	8657	8658	8660	8662	8663
##	2	3	3	2	2	2	3	2	2	2	1	2	3
##	8664	8666	8668	8669	8670	8672	8675	8676	8680	8681	8685	8686	8687
##	1	3	1	2	2	2	3	3	2	3	2	1	3
##	8691	8693	8694	8696	8699	8701	8703	8706	8709	8711	8712	8713	8714
##	1	1	2	3	2	2	2	3	1	3	2	2	2
##	8716	8717	8718	8719	8721	8722	8723	8725	8728	8729	8730	8731	8732
##	2	3	3	3	2	3	3	2	1	3	2	3	3
##	8733	8734	8735	8736	8737	8740	8742	8743	8745	8746	8749	8750	8751
##	2	3	3	2	3	1	2	2	2	2	2	3	3
##	8752	8753	8754	8755	8756	8758	8760	8761	8763	8766	8767	8768	8772
##	2	2	2	3	2	2	2	3	1	3	2	2	2
##	8774	8775	8776	8777	8781	8782	8783	8784	8787	8789	8790	8791	8794
##	2	3	2	2	2	2	2	1	1	2	2	2	2
##	8795	8796	8797	8798	8802	8805	8806	8807	8810	8811	8812	8813	8814
##	1	2	2	2	2	3	2	1	3	2	3	2	3
##	8815	8818	8820	8822	8823	8824	8826	8829	8830	8833	8836	8838	8839
##	3	1	1	1	2	2	1	2	3	1	2	2	1
##	8840	8841	8842	8845	8846	8848	8849	8852	8854	8855	8857	8860	8862
##	2	1	2	1	3	2	2	2	2	3	2	2	3
##	8863	8864	8865	8866	8869	8872	8874	8876	8877	8881	8882	8883	8885
##	2	3	2	2	2	1	2	3	2	2	2	2	3
##	8887	8888	8889	8890	8892	8893	8894	8895	8897	8898	8899	8901	8904
##	3	1	2	2	3	2	1	1	2	3	3	1	2
##	8906	8910	8911	8913	8915	8916	8921	8922	8923	8924	8925	8927	8929
##	2	1	1	2	2	2	2	3	3	2	2	3	1
##	8931	8932	8934	8935	8937	8939	8940	8941	8942	8944	8945	8946	8950
##	2	3	2	2	1	2	3	2	2	2	2	2	2
##	8951	8956	8957	8959	8960	8961	8963	8964	8965	8967	8968	8969	8971
##	2	1	3	1	2	2	2	2	2	3	2	3	2
##	8972	8974	8978	8979	8980	8981	8982	8983	8986	8987	8988	8989	8990
##	2	2	1	2	2	2	2	3	3	3	2	3	1
##	8991	8992	8993	8995	8996	8999	9001	9003	9007	9008	9009	9010	9011
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##	9013	9014	9015	9017	9021	9022	9024	9026	9027	9028	9030	9031	9034
##	2	3	3	1	3	1	1	2	2	3	2	1	2
##	9037	9038	9039	9040	9047	9048	9049	9050	9052	9054	9056	9058	9061
##	3	1	2	1	2	2	2	2	3	1	2	3	2

##	9062	9064	9066	9069	9072	9074	9075	9076	9077	9080	9082	9084	9086
##	3	2	2	2	1	2	3	2	2	1	1	3	3
##	9088	9089	9090	9091	9092	9093	9094	9095	9096	9097	9099	9101	9104
##	3	1	1	2	2	2	2	2	2	3	2	2	2
##	9106	9108	9111	9113	9117	9118	9120	9121	9122	9127	9128	9130	9132
##	1	3	1	2	2	2	3	3	3	2	3	2	3
##	9133	9134	9135	9137	9138	9139	9140	9141	9142	9144	9145	9146	9149
##	2	2	2	2	3	2	2	2	3	3	2	2	2
##	9150	9153	9156	9158	9159	9162	9163	9166	9167	9168	9170	9171	9172
##	3	3	3	3	1	1	2	1	2	2	1	2	2
##	9173	9174	9175	9176	9177	9179	9181	9184	9185	9186	9187	9188	9189
##	3	2	3	2	2	1	2	1	3	2	1	2	3
##	9190	9191	9192	9193	9194	9195	9199	9200	9201	9202	9206	9207	9208
##	2	3	1	2	3	3	2	3	2	1	3	2	2
##	9210	9213	9216	9218	9220	9221	9222	9223	9226	9227	9228	9229	9231
##	2	2	3	2	2	3	3	2	2	2	2	3	2
##	9232	9233	9235	9236	9237	9238	9240	9241	9242	9244	9245	9247	9248
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##	9257	9259	9260	9263	9266	9267	9268	9270	9271	9273	9275	9276	9277
##	2	1	2	2	3	1	3	2	3	3	3	2	2
##	9279	9281	9282	9283	9286	9287	9288	9289	9290	9291	9293	9295	9296
##	3	1	2	3	3	1	2	2	2	2	2	1	2
##	9297	9300	9302	9303	9304	9305	9306	9309	9310	9311	9313	9316	9319
##	1	3	3	2	3	3	2	1	2	3	2	1	2
##	9320	9321	9322	9324	9326	9328	9329	9330	9332	9336	9338	9339	9340
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##	9343	9346	9350	9352	9353	9355	9357	9359	9360	9361	9362	9364	9366
##	2	2	1	1	2	2	2	2	3	1	2	3	2
##	9368	9370	9374	9375	9377	9380	9381	9385	9386	9389	9391	9392	9393
##	2	2	1	1	2	3	2	2	3	2	1	2	3
##	9394	9396	9397	9398	9402	9405	9406	9407	9408	9409	9410	9411	9412
##	2	2	2	2	2	2	2	2	1	2	2	2	2
##	9414	9415	9417	9418	9419	9420	9423	9424	9426	9427	9428	9429	9430
##	1	3	2	2	2	1	2	3	1	2	2	3	2
##	9431	9432	9435	9436	9437	9438	9440	9441	9443	9444	9445	9446	9448
##	2	1	2	2	1	2	2	2	3	2	2	2	2
##	9450	9451	9452	9454	9455	9460	9462	9463	9464	9465	9469	9470	9471
##	3	2	2	3	2	2	3	3	3	2	2	2	2
##	9472	9473	9474	9475	9478	9479	9480	9481	9483	9490	9493	9494	9496
##	3	1	2	2	2	2	2	3	2	3	1	3	2
##	9497	9498	9501	9503	9505	9507	9509	9511	9512	9513	9514	9516	9518
##	2	2	2	3	2	3	1	3	2	2	2	2	1
##	9519	9520	9522	9523	9524	9526	9530	9531	9532	9534	9535	9536	9539
##	1	2	1	1	2	3	3	1	3	2	2	1	3
##	9541	9543	9545	9547	9548	9551	9553	9554	9555	9556	9557	9558	9562
##	1	2	2	2	2	3	2	3	2	2	1	2	2
##	9567	9568	9570	9571	9574	9575	9576	9578	9580	9581	9584	9588	9589
##	3	2	2	2	3	3	1	2	2	2	3	3	1
##	9590	9591	9592	9597	9600	9601	9603	9609	9610	9611	9612	9613	9614
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##	9615	9618	9619	9620	9621	9622	9624	9625	9627	9629	9630	9631	9632
##	2	3	2	3	2	2	1	3	2	3	1	1	2
##	9633	9637	9638	9639	9642	9643	9645	9646	9648	9649	9651	9656	9658
##	3	2	2	1	1	2	1	3	3	2	3	2	3

##	9660	9662	9664	9666	9667	9668	9669	9670	9672	9673	9674	9677	9678
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##	9679	9680	9681	9682	9685	9686	9687	9688	9692	9693	9694	9695	9698
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##	9699	9700	9701	9702	9703	9704	9707	9709	9711	9712	9716	9718	9722
##	1	2	2	3	2	2	1	2	2	2	2	1	1
##	9723	9725	9730	9735	9736	9741	9742	9744	9745	9746	9748	9751	9752
##	2	3	2	2	1	1	3	2	2	3	3	3	2
##	9753	9754	9755	9758	9759	9761	9762	9763	9766	9769	9771	9773	9775
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##	9776	9777	9779	9780	9782	9783	9786	9787	9788	9792	9793	9795	9796
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##	9798	9799	9800	9805	9806	9810	9812	9813	9814	9815	9816	9817	9818
##	2	2	2	2	2	3	1	2	2	1	1	1	3
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##	2	1	2	2	3	2	1	2	2	2	1	2	2
##	9837	9841	9842	9843	9844	9845	9848	9851	9854	9855	9857	9858	9859
##	1	3	2	1	1	3	2	2	3	3	2	1	3
##	9862	9863	9865	9866	9867	9868	9869	9871	9873	9875	9883	9884	9885
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##	9887	9889	9890	9892	9894	9896	9897	9898	9899	9900	9901	9903	9904
##	2	3	1	2	2	3	2	3	3	1	2	3	1
##	9906	9907	9909	9910	9911	9912	9917	9918	9922	9924	9925	9926	9928
##	3	1	3	3	3	2	2	2	2	2	3	3	2
##	9929	9930	9932	9933	9937	9938	9939	9941	9942	9943	9944	9945	9947
##	2	2	1	2	2	2	2	3	1	2	2	2	2
##	9948	9949	9950	9951	9953	9954	9955	9956	9958	9961	9965	9967	9969
##	3	2	2	2	1	3	3	3	3	2	3	1	2
##	9971	9973	9975	9978	9981	9984	9985	9987	9988	9989	9991	9992	9994
##	2	1	1	1	2	3	2	1	1	1	3	2	2
##	9997	9998	10007	10008	10009	10010	10012	10014	10016	10017	10018	10019	10020
##	3	2	2	2	1	2	3	3	3	2	2	3	1
##	10021	10023	10024	10025	10026	10028	10029	10030	10031	10038	10039	10041	10042
##	3	1	3	3	3	2	2	2	2	2	3	1	3
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##	3	2	3	1	1	2	2	2	3	2	1	2	2
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##	2	3	2	1	2	3	3	2	2	3	3	3	2
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##	2	2	2	2	3	3	2	3	2	3	3	1	2
##	10112	10113	10116	10117	10121	10123	10125	10126	10127	10128	10129	10130	10132
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##	10133	10139	10141	10142	10143	10144	10145	10146	10148	10149	10150	10151	10152
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##	10155	10156	10157	10158	10163	10166	10167	10168	10170	10175	10178	10179	10182
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##	10184	10186	10189	10190	10191	10192	10193	10197	10201	10210	10211	10212	10214
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##	2	3	3	3	1	1	3	2	3	1	2	2	3
##	10234	10235	10237	10238	10240	10243	10244	10247	10248	10249	10250	10251	10253
##	3	3	2	3	2	1	2	1	1	1	2	2	3
##	10254	10256	10257	10258	10259	10260	10261	10262	10263	10265	10268	10269	10271
##	2	2	1	2	3	2	2	2	2	2	3	2	3

##	10273	10274	10276	10277	10278	10279	10283	10284	10286	10287	10288	10290	10292
##	1	3	2	3	3	3	2	2	1	2	1	1	2
##	10293	10300	10306	10307	10308	10309	10310	10311	10315	10316	10317	10321	10323
##	3	3	3	2	3	1	2	2	1	2	2	2	2
##	10326	10327	10329	10331	10333	10337	10338	10339	10342	10343	10344	10345	10346
##	2	2	2	2	2	2	2	1	2	2	2	1	2
##	10347	10349	10350	10354	10355	10356	10357	10360	10362	10365	10369	10370	10372
##	2	2	3	2	3	2	2	2	3	1	2	3	2
##	10374	10375	10376	10377	10378	10380	10381	10383	10387	10389	10390	10391	10392
##	3	3	2	1	3	2	3	2	3	2	2	2	2
##	10394	10395	10396	10397	10399	10401	10404	10408	10411	10414	10416	10417	10418
##	2	3	3	2	2	2	2	1	1	3	1	2	2
##	10419	10423	10424	10426	10427	10428	10429	10430	10432	10433	10434	10435	10437
##	2	1	2	2	2	1	3	2	2	1	2	2	3
##	10440	10442	10443	10444	10445	10446	10448	10449	10451	10453	10454	10457	10458
##	2	2	3	2	2	2	3	2	3	3	2	3	2
##	10459	10462	10465	10466	10467	10468	10469	10471	10472	10474	10475	10476	10477
##	2	2	2	2	1	2	2	2	3	2	3	1	2
##	10479	10480	10481	10483	10484	10485	10487	10490	10491	10494	10495	10497	10498
##	1	2	3	3	3	3	2	3	2	2	3	2	2
##	10499	10501	10502	10504	10507	10509	10513	10515	10519	10520	10521	10524	10525
##	2	2	2	1	2	2	2	2	2	3	2	3	3
##	10526	10527	10529	10530	10532	10533	10535	10536	10538	10540	10542	10545	10546
##	3	1	3	2	2	3	2	2	2	3	1	1	1
##	10549	10550	10557	10558	10560	10561	10563	10564	10565	10566	10567	10569	10570
##	1	2	2	2	2	2	3	3	1	2	3	2	2
##	10571	10574	10575	10576	10578	10579	10581	10582	10584	10585	10586	10587	10589
##	2	2	2	1	2	3	2	3	1	2	2	1	2
##	10590	10591	10592	10594	10596	10598	10599	10600	10601	10602	10604	10606	10608
##	3	2	3	3	3	2	2	2	2	3	2	2	2
##	10610	10614	10615	10616	10618	10619	10623	10625	10628	10630	10633	10634	10635
##	3	2	2	2	2	3	2	3	2	1	2	2	2
##	10637	10638	10640	10646	10647	10648	10650	10651	10652	10653	10654	10657	10660
##	2	2	2	2	3	1	2	3	3	2	2	1	2
##	10667	10668	10670	10671	10672	10674	10676	10677	10678	10679	10681	10682	10685
##	3	3	1	2	3	1	2	2	2	1	2	2	3
##	10687	10688	10689	10691	10692	10694	10696	10697	10698	10699	10700	10701	10702
##	3	2	3	3	2	2	2	2	2	2	1	3	2
##	10703	10704	10705	10707	10709	10711	10712	10714	10717	10719	10724	10725	10726
##	2	2	3	2	1	2	3	1	2	2	2	1	2
##	10727	10728	10729	10730	10731	10734	10736	10737	10738	10740	10741	10742	10743
##	2	3	2	2	3	3	2	2	1	1	3	3	3
##	10745	10746	10748	10751	10755	10756	10758	10760	10762	10764	10765	10766	10768
##	2	3	1	2	1	2	2	2	3	2	3	3	3
##	10769	10770	10771	10772	10773	10777	10780	10782	10783	10784	10785	10786	10787
##	3	3	2	1	2	1	2	2	3	2	2	2	2
##	10790	10791	10792	10793	10794	10795	10797	10798	10799	10800	10803	10805	10806
##	2	3	2	2	3	2	2	3	1	2	1	3	2
##	10807	10810	10811	10812	10813	10814	10815	10819	10821	10823	10827	10829	10830
##	1	2	2	2	2	2	2	1	2	2	3	2	2
##	10831	10832	10837	10839	10840	10841	10843	10844	10845	10846	10847	10849	10850
##	2	2	2	3	2	2	2	2	1	2	3	2	3
##	10851	10852	10853	10854	10855	10856	10858	10860	10861	10862	10865	10866	10867
##	2	2	3	2	3	3	1	1	2	3	3	3	2

##	10869	10871	10872	10873	10874	10875	10877	10879	10880	10881	10882	10884	10885
##	2	2	3	3	1	2	3	2	2	2	3	2	3
##	10887	10889	10891	10892	10893	10894	10896	10897	10899	10900	10901	10902	10904
##	3	3	1	3	3	1	3	1	2	2	2	2	2
##	10906	10907	10908	10910	10912	10914	10915	10918	10919	10922	10923	10924	10926
##	2	2	2	1	1	2	3	2	2	1	3	2	2
##	10927	10929	10930	10932	10933	10936	10937	10939	10941	10943	10944	10946	10947
##	2	1	2	2	2	1	1	1	2	1	2	2	3
##	10948	10950	10951	10952	10954	10958	10959	10960	10961	10962	10963	10964	10966
##	3	1	2	2	2	2	2	2	2	2	3	2	2
##	10967	10971	10972	10975	10976	10977	10981	10982	10994	10997	10998	10999	11002
##	2	1	3	2	3	2	1	2	2	3	2	3	1
##	11004	11006	11007	11008	11009	11011	11012	11016	11018	11019	11020	11021	11022
##	1	2	1	1	3	3	1	2	1	2	2	2	2
##	11023	11024	11028	11029	11031	11032	11033	11036	11038	11039	11040	11041	11042
##	2	3	2	2	1	3	2	2	3	3	2	2	1
##	11043	11045	11046	11047	11048	11049	11050	11052	11054	11058	11061	11062	11064
##	3	1	3	2	2	3	2	2	3	3	3	2	2
##	11065	11067	11071	11074	11075	11076	11080	11081	11082	11083	11084	11085	11087
##	2	3	3	2	3	3	2	2	3	2	1	3	2
##	11089	11092	11093	11096	11098	11099	11101	11102	11110	11111	11115	11116	11118
##	1	2	3	2	1	3	1	2	2	2	3	3	2
##	11122	11124	11126	11127	11130	11133	11134	11136	11137	11140	11141	11143	11145
##	2	1	1	2	2	2	3	3	2	2	2	2	2
##	11146	11148	11150	11151	11152	11154	11155	11156	11157	11158	11159	11160	11161
##	3	2	3	3	3	3	2	2	2	2	2	2	2
##	11163	11164	11166	11167	11168	11171	11174	11175	11176	11177	11178	11179	11180
##	3	2	1	2	2	3	2	2	2	2	3	2	3
##	11181	11184	11186	11188	11189	11191	11192	11196	11198	11199	11203	11210	11211
##	2	3	1	3	1	3	2	2	2	1	2	2	2
##	11212	11213	11214	11218	11221	11222	11223	11224	11225	11226	11231	11232	11235
##	2	2	2	2	2	3	2	3	2	2	2	1	3
##	11240	11241	11242	11244	11245	11248	11252	11254	11260	11261	11262	11263	11264
##	3	2	1	1	1	2	2	1	2	3	3	3	1
##	11266	11268	11269	11272	11273	11274	11276	11278	11283	11284	11285	11287	11288
##	2	3	1	2	2	3	2	1	1	2	1	2	3
##	11289	11291	11292	11293	11295	11297	11298	11303	11304	11305	11308	11310	11311
##	2	3	3	2	3	2	2	2	1	2	3	3	2
##	11318	11320	11321	11322	11323	11324	11325	11326	11327	11328	11330	11331	11332
##	2	3	1	3	2	2	1	1	2	3	2	2	2
##	11335	11337	11338	11339	11340	11341	11342	11349	11350	11353	11354	11355	11356
##	3	3	3	2	2	2	3	3	3	2	2	3	1
##	11358	11360	11361	11362	11363	11366	11367	11369	11370	11371	11373	11375	11377
##	3	3	2	2	2	3	1	2	2	2	2	2	2
##	11378	11379	11380	11381	11382	11384	11386	11387	11388	11389	11390	11391	11392
##	1	2	3	2	2	1	1	2	1	3	2	3	1
##	11396	11397	11398	11399	11400	11402	11403	11404	11411	11412	11413	11414	11415
##	2	1	2	2	1	3	3	3	2	2	3	2	2
##	11417	11419	11420	11422	11423	11425	11428	11429	11430	11431	11432	11433	11436
##	3	2	2	2	1	1	2	1	3	3	3	3	3
##	11437	11438	11439	11441	11442	11444	11445	11446	11450	11453	11454	11455	11456
##	3	1	2	2	2	3	1	3	2	1	3	2	3
##	11457	11458	11459	11462	11463	11464	11465	11466	11467	11468	11470	11473	11475
##	2	2	3	2	3	2	2	1	2	2	3	2	1

##	11476	11481	11482	11483	11484	11486	11488	11489	11490	11491	11493	11494	11495
##	2	1	3	1	3	1	1	2	1	2	3	2	2
##	11497	11498	11499	11501	11502	11503	11507	11508	11509	11511	11515	11517	11521
##	3	1	2	2	1	2	2	2	2	2	2	2	2
##	11522	11523	11528	11529	11530	11531	11533	11534	11535	11537	11540	11541	11544
##	2	2	1	2	2	1	1	1	3	3	2	2	1
##	11545	11547	11548	11553	11554	11557	11560	11561	11563	11564	11565	11566	11567
##	2	3	2	3	2	2	1	3	3	2	2	2	2
##	11569	11570	11571	11573	11576	11578	11581	11583	11584	11585	11589	11590	11593
##	2	2	2	1	1	1	1	2	2	1	3	2	2
##	11596	11600	11606	11607	11608	11609	11611	11613	11614	11615	11616	11618	11621
##	1	3	2	1	2	2	1	2	2	2	2	2	2
##	11622	11623	11624	11626	11627	11628	11629	11630	11631	11633	11634	11635	11636
##	2	3	3	3	3	3	2	3	2	2	3	3	3
##	11637	11638	11642	11648	11650	11651	11653	11654	11655	11656	11657	11658	11660
##	2	2	2	2	1	3	3	3	2	3	2	2	1
##	11661	11662	11663	11666	11667	11668	11669	11671	11673	11674	11676	11677	11679
##	3	2	2	1	3	2	3	2	2	2	1	3	3
##	11680	11681	11682	11684	11685	11686	11687	11690	11691	11692	11693	11695	11697
##	2	3	2	2	1	1	2	2	2	2	2	1	3
##	11698	11699	11703	11705	11706	11707	11708	11709	11711	11712	11716	11717	11718
##	2	2	1	1	2	2	2	3	1	2	3	2	2
##	11719	11720	11721	11722	11724	11725	11726	11727	11728	11729	11731	11732	11733
##	2	2	3	1	2	3	3	2	1	1	2	2	2
##	11735	11742	11743	11745	11746	11747	11749	11750	11752	11753	11757	11758	11759
##	2	3	3	3	2	1	2	2	2	3	3	3	1
##	11760	11761	11762	11763	11764	11766	11767	11768	11769	11771	11773	11775	11776
##	2	2	2	2	2	1	2	3	3	3	2	2	2
##	11778	11781	11782	11783	11784	11785	11786	11787	11789	11790	11791	11792	11793
##	2	3	3	2	3	3	2	3	3	2	2	2	2
##	11794	11797	11799	11801	11803	11806	11808	11809	11810	11811	11812	11813	11815
##	3	3	2	1	1	2	2	3	2	1	2	2	2
##	11816	11817	11818	11820	11821	11822	11824	11826	11836	11837	11838	11839	11843
##	2	3	2	2	2	2	3	2	3	2	1	3	3
##	11844	11847	11850	11857	11860	11861	11863	11865	11866	11868	11873	11874	11875
##	2	2	3	3	3	1	3	2	2	2	2	3	2
##	11876	11877	11879	11880	11881	11882	11883	11884	11885	11886	11888	11890	11892
##	1	2	2	3	1	3	3	3	2	2	3	2	3
##	11893	11894	11895	11900	11901	11903	11909	11910	11911	11914	11916	11919	11920
##	2	1	2	2	2	3	2	3	1	1	2	2	3
##	11922	11924	11925	11926	11929	11933	11936	11940	11941	11942	11943	11944	11945
##	2	3	3	2	1	2	2	2	3	1	2	2	1
##	11947	11948	11951	11952	11953	11954	11955	11956	11957	11958	11959	11960	11961
##	3	1	2	3	2	2	1	2	2	2	1	1	3
##	11963	11964	11969	11970	11971	11972	11973	11975	11976	11977	11980	11981	11982
##	2	2	2	2	2	3	3	3	2	3	3	2	2
##	11983	11985	11986	11988	11990	11991	11993	11994	11996	11997	11998	11999	12001
##	1	1	3	3	2	1	2	2	3	2	2	2	1
##	12004	12005	12006	12007	12008	12009	12010	12011	12012	12013	12016	12017	12019
##	3	3	1	3	2	2	3	2	2	2	2	1	3
##	12021	12022	12023	12025	12026	12027	12029	12030	12031	12032	12033	12035	12039
##	2	2	2	2	2	3	1	2	2	2	3	3	3
##	12040	12042	12044	12047	12048	12050	12052	12055	12056	12057	12058	12060	12061
##	1	2	2	2	3	2	2	2	2	2	2	1	1

```
## 12062 12064 12065 12069 12071 12072 12073 12074 12076 12077 12080 12081 12082
##      2      2      2      1      2      2      3      2      3      2      3      3      2
## 12083 12084 12086 12087 12088 12089 12091 12092 12093 12098 12100 12101 12102
##      3      3      2      2      3      2      2      3      2      2      2      2      1
## 12105 12106 12108 12109 12110 12113 12117 12118 12119 12120 12122 12124 12125
##      2      2      3      3      1      3      2      2      2      2      1      3      2
## 12126 12127 12129 12135 12136 12137 12138 12139 12141 12143 12145 12147 12148
##      2      3      3      1      2      3      3      3      3      2      2      3      1
## 12150 12151 12154 12155 12157 12158 12161 12163 12165 12166 12168 12174 12175
##      3      1      2      2      2      2      2      2      1      1      3      3      2
## 12176 12178 12182 12184 12187 12188 12194 12198 12199 12200 12201 12202 12203
##      2      2      2      2      3      3      2      2      2      2      2      1      2
## 12204 12206 12207 12209 12211 12213 12214 12215 12218 12220 12221 12223 12224
##      3      3      2      2      3      2      1      1      2      2      2      3      3
## 12226 12227 12228 12229 12230 12232 12233 12235 12236 12240 12241 12242 12244
##      2      3      1      3      1      2      2      3      1      3      2      3      2
## 12247 12249 12250 12253 12254 12255 12257 12258 12260 12264 12265 12268 12269
##      1      1      2      3      2      3      3      3      2      2      2      2      3
## 12270 12272 12274 12275 12276 12277 12278 12280 12284 12287 12289 12290 12291
##      3      3      3      2      1      3      2      1      3      2      3      2      3
## 12292 12293 12295 12297 12298 12299 12300 12301 12302 12303 12304 12305 12306
##      2      2      1      2      2      3      2      3      2      2      2      3      1
## 12307 12310 12311 12315 12316 12317 12318 12319 12320 12321 12322 12323 12324
##      3      2      2      3      2      3      1      2      1      2      2      3      1
## 12325 12327 12328 12329 12330
##      3      3      2      2      2
```

```
# Computing k-means clustering in R
set.seed(123)
```

```
X_K2 <- kmeans(X_Norm, centers = 3, nstart = 25)
print(X_K2)
```

```
## K-means clustering with 3 clusters of sizes 5079, 1814, 899
```

```
##
```

```
## Cluster means:
```

```
##      Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.4173590                -0.4546676      -0.04260411                0.06521181
## 2       1.4440741                1.5523746       0.14633234                0.06521181
## 3      -0.5559335                -0.5636828      -0.05457239                -0.50000553
```

```
##      ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1      -0.0553130                -0.01665779    -0.2995394 -0.2179333 -0.04452699
## 2       0.5732420                0.50040952    -0.3965745 -0.5672652  0.25433942
## 3      -0.8441895                -0.91561508     2.4924880  2.3758643 -0.26164531
```

```
##      SpecialDay OperatingSystems      Browser      Region TrafficType
## 1  0.03884315      -0.002870794  0.011125022 -0.012998248 -0.007512165
## 2 -0.20507488      -0.025156804 -0.006658118  0.039237245 -0.088277194
## 3  0.19435090       0.066980203 -0.049417309 -0.005737777  0.220566315
```

```
##
```

```
## Clustering vector:
```

```
##      1      2      3      4      5      6      7      8      9     10     11     12     13
##      3      1      3      3      1      1      3      3      1      1      1      1      1
##     14     15     16     17     18     19     21     22     23     24     25     26     27
##      1      1      2      3      1      1      1      3      1      1      3      1      2
##     28     29     30     31     32     33     34     35     36     37     38     39     40
```

##	1	1	2	1	1	1	1	1	1	1	1	1	1
##	42	43	44	45	46	47	48	49	50	51	52	53	54
##	1	1	1	1	1	1	3	1	3	3	1	1	1
##	55	56	57	59	60	61	62	64	65	66	68	69	70
##	1	3	3	1	1	1	1	1	3	2	3	1	3
##	71	72	73	74	75	76	78	79	80	81	82	83	84
##	3	1	1	1	1	1	1	3	3	1	1	1	1
##	85	86	87	88	89	90	91	92	93	94	95	96	97
##	3	3	1	1	1	1	1	3	1	1	1	1	1
##	98	99	100	102	103	105	106	107	108	109	111	112	113
##	1	1	1	2	1	2	3	1	1	1	1	3	3
##	114	116	117	118	119	120	121	122	124	125	126	127	128
##	1	1	1	1	1	1	1	1	1	1	3	1	1
##	130	131	132	133	134	135	136	137	138	139	140	141	142
##	3	1	1	3	1	2	1	1	1	3	2	3	1
##	143	144	146	147	148	149	150	151	152	153	154	155	156
##	1	3	1	1	1	1	1	1	3	3	1	1	1
##	157	158	160	161	163	164	165	166	167	168	169	170	171
##	3	1	3	1	1	1	1	1	1	3	1	1	1
##	172	173	174	175	176	177	178	180	181	182	183	184	186
##	1	1	3	2	2	1	1	1	1	3	3	1	1
##	187	191	193	194	195	199	202	204	205	207	208	209	210
##	1	3	2	1	1	1	1	1	2	1	1	2	1
##	212	213	214	217	218	219	220	221	222	223	224	226	228
##	1	1	2	2	1	1	1	2	3	3	1	1	1
##	230	231	233	237	239	240	242	243	245	246	247	248	253
##	1	2	1	2	1	1	1	1	1	1	1	1	3
##	254	255	256	257	259	260	261	262	264	265	267	268	269
##	3	1	2	1	1	1	2	3	1	1	1	1	1
##	270	271	272	274	275	276	277	279	280	281	282	284	286
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##	1	2	2	1	2	2	3	2	2	1	1	1	1
##	340	341	342	343	344	345	347	349	350	351	352	355	357
##	1	1	3	3	1	3	1	2	1	2	1	2	3
##	358	360	361	362	363	365	367	369	370	372	373	375	376
##	1	3	1	1	1	1	1	2	1	1	1	1	1
##	377	378	379	381	382	383	384	386	387	388	389	390	391
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##	1	1	1	3	2	1	2	1	1	2	1	1	1
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##	1	1	2	3	1	1	1	3	1	1	3	2	1
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##	1	2	1	1	1	1	1	2	1	1	2	1	2
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##	1	1	1	1	1	1	1	1	3	1	1	1	2
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##	1	1	1	3	1	2	1	1	2	1	1	2	2
##	527	528	529	530	531	532	533	534	535	536	538	539	540
##	1	1	1	1	1	1	3	1	1	1	1	1	1
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##	3	1	1	2	1	2	1	1	1	1	2	2	1
##	560	562	563	565	566	567	569	570	571	572	573	574	577
##	1	1	3	1	1	1	3	1	1	1	1	1	1
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##	1	1	1	2	2	1	1	2	2	1	1	2	2
##	616	618	621	622	623	624	626	627	628	632	634	635	637
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##	671	672	673	674	676	677	678	679	680	681	682	684	685
##	3	1	1	1	1	1	1	1	1	1	2	2	1
##	686	687	688	689	691	692	693	694	696	700	701	703	704
##	1	1	1	1	1	1	2	1	2	1	1	2	1
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##	1	2	1	2	1	1	1	1	2	1	3	1	1
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##	3	1	1	3	1	1	1	1	2	1	2	2	1
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##	764	765	766	767	768	769	771	772	776	779	780	781	782
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##	837	838	839	840	841	842	843	844	847	848	850	853	857
##	2	2	2	1	2	1	2	1	2	1	2	3	1
##	858	859	860	861	862	863	865	866	868	869	871	875	876
##	2	1	1	1	1	1	1	1	1	1	3	2	3
##	879	880	881	882	884	887	888	889	891	893	894	896	897
##	1	1	1	1	2	1	2	1	1	1	1	1	1
##	898	899	900	901	902	903	904	908	909	912	914	915	916
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##	943	944	946	947	950	951	952	954	955	957	958	959	960
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##	1	1	2	2	1	1	1	2	1	1	1	1	1
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##	1100	1104	1105	1108	1109	1110	1111	1115	1117	1119	1121	1122	1123
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##	1942	1944	1946	1948	1949	1951	1952	1953	1954	1955	1956	1957	1961
##	1	3	1	1	1	3	1	2	1	1	1	1	2
##	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973	1975	1977
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##	1998	1999	2003	2004	2005	2006	2008	2010	2014	2015	2018	2019	2020
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##	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035	2036	2038

##	1	1	1	1	1	1	1	2	1	3	1	1	2
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##	2579	2581	2584	2585	2586	2587	2588	2589	2590	2592	2593	2594	2595
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##	2597	2599	2601	2602	2604	2605	2606	2608	2611	2612	2613	2614	2615
##	3	1	1	1	1	2	1	1	1	1	1	1	2
##	2616	2620	2621	2623	2625	2628	2629	2630	2631	2635	2636	2639	2640
##	3	3	1	1	1	1	1	1	1	2	1	3	2
##	2641	2642	2643	2644	2645	2647	2650	2652	2653	2654	2655	2657	2658
##	1	3	1	1	1	1	1	1	2	2	3	1	3
##	2659	2660	2662	2663	2666	2668	2670	2671	2672	2673	2674	2675	2676
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##	2677	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690
##	3	1	1	3	3	1	3	1	3	3	2	3	1
##	2691	2692	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2705
##	1	1	1	1	1	2	1	1	1	1	1	3	3
##	2706	2707	2708	2709	2710	2712	2713	2714	2715	2717	2718	2719	2720
##	1	1	3	2	1	2	3	1	1	1	2	1	1
##	2721	2724	2725	2728	2729	2730	2731	2732	2733	2734	2735	2737	2738
##	1	1	2	1	2	1	1	2	2	2	3	1	1
##	2741	2742	2743	2744	2748	2749	2751	2752	2753	2755	2756	2757	2759
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##	2781	2782	2786	2787	2788	2789	2790	2792	2793	2794	2795	2796	2797
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##	2798	2799	2800	2801	2804	2805	2806	2807	2808	2809	2810	2812	2813
##	3	3	1	3	1	1	1	1	1	1	1	1	3
##	2815	2816	2817	2819	2820	2821	2823	2827	2828	2829	2831	2832	2833
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##	2979	2980	2981	2982	2983	2984	2986	2988	2989	2990	2991	2992	2994
##	1	3	1	3	2	1	1	2	2	1	1	3	2
##	2995	2999	3000	3002	3003	3005	3006	3007	3008	3009	3010	3011	3013
##	1	1	1	2	1	3	1	2	3	1	1	1	1
##	3014	3015	3016	3017	3018	3019	3021	3023	3025	3026	3027	3028	3029
##	1	1	2	2	1	1	1	1	2	1	1	1	1
##	3031	3032	3035	3036	3037	3038	3041	3043	3044	3047	3048	3049	3051

##	1	2	1	2	2	2	2	1	1	1	1	3	3
##	3052	3054	3056	3057	3058	3059	3061	3062	3066	3067	3069	3070	3072
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##	3234	3236	3239	3240	3242	3244	3246	3248	3250	3251	3252	3253	3256
##	1	2	1	2	1	2	1	1	1	1	2	1	1
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##	4635	4636	4637	4639	4640	4641	4642	4644	4645	4647	4649	4651	4652
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##	4738	4739	4740	4741	4742	4744	4745	4746	4747	4748	4751	4753	4754
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##	4755	4756	4757	4758	4763	4765	4767	4768	4769	4771	4772	4773	4774
##	1	1	3	1	1	1	1	1	1	2	1	1	1
##	4776	4777	4778	4780	4782	4783	4784	4785	4786	4788	4791	4792	4793
##	1	1	1	1	2	1	1	2	3	2	1	2	1
##	4795	4796	4797	4798	4799	4800	4801	4802	4804	4805	4806	4807	4808
##	1	2	1	2	2	3	1	1	1	1	2	1	2
##	4809	4811	4812	4813	4816	4819	4820	4823	4824	4825	4826	4828	4830
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##	4831	4835	4836	4839	4840	4842	4843	4844	4847	4848	4849	4850	4852
##	1	1	1	3	1	2	1	1	2	3	2	1	1
##	4853	4854	4856	4857	4859	4860	4861	4862	4863	4864	4865	4867	4869
##	1	1	1	1	1	1	1	3	3	1	3	1	1
##	4873	4874	4876	4877	4878	4879	4882	4886	4887	4888	4889	4891	4892
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##	4893	4894	4896	4897	4899	4906	4907	4908	4909	4910	4911	4912	4913
##	2	1	1	3	1	1	1	2	1	3	1	1	1
##	4915	4916	4917	4919	4920	4922	4923	4925	4926	4927	4928	4930	4931
##	1	3	1	2	3	1	2	3	1	3	2	3	1
##	4932	4933	4935	4936	4939	4940	4941	4942	4943	4944	4952	4955	4956
##	1	2	1	1	1	1	2	1	1	1	1	3	2
##	4957	4958	4959	4960	4961	4962	4963	4965	4970	4971	4972	4973	4974
##	1	1	1	1	2	1	1	1	1	1	1	3	1
##	4977	4979	4980	4981	4982	4983	4985	4990	4992	4996	4997	4998	5000
##	1	3	1	1	2	1	1	3	3	1	1	2	1
##	5001	5002	5003	5004	5008	5011	5012	5013	5015	5016	5017	5018	5021
##	1	1	1	1	3	1	1	1	1	3	1	1	1
##	5022	5024	5026	5027	5030	5033	5034	5035	5037	5038	5043	5045	5047
##	1	1	1	3	1	1	1	1	1	1	2	2	1
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##	1	1	1	1	1	1	1	1	1	2	1	1	1
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##	5202	5203	5205	5206	5207	5210	5211	5212	5213	5215	5217	5219	5220
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##	5224	5225	5227	5228	5229	5230	5231	5232	5233	5234	5235	5236	5237
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##	5407	5410	5412	5413	5416	5417	5418	5419	5422	5424	5425	5427	5429
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##	5430	5431	5432	5433	5434	5436	5437	5439	5442	5443	5445	5446	5449
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##	5509	5511	5512	5515	5516	5517	5519	5522	5523	5524	5525	5526	5528
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##	1	1	2	2	1	1	2	1	1	2	1	2	1
##	5549	5550	5552	5554	5557	5558	5559	5560	5561	5563	5564	5565	5567
##	1	1	1	1	2	3	1	1	1	1	2	2	1
##	5568	5569	5571	5573	5574	5575	5577	5578	5579	5580	5581	5582	5583
##	1	3	2	2	1	2	1	2	1	1	1	2	1
##	5587	5588	5589	5590	5591	5592	5594	5595	5596	5599	5602	5603	5604
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##	5605	5606	5610	5612	5613	5617	5619	5620	5621	5622	5623	5624	5625
##	2	1	2	1	1	2	1	1	1	1	1	1	1
##	5626	5627	5628	5629	5630	5631	5632	5634	5636	5637	5641	5642	5643
##	1	1	2	1	2	2	2	2	2	1	2	1	2
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##	5662	5663	5665	5666	5667	5669	5670	5671	5672	5673	5674	5677	5678

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##	5724	5725	5726	5727	5728	5730	5732	5733	5734	5735	5737	5738	5740
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##	5741	5743	5744	5745	5750	5753	5754	5761	5762	5764	5766	5767	5768
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##	5855	5856	5857	5858	5859	5860	5861	5863	5865	5866	5867	5868	5869
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##	1	3	1	1	2	1	1	1	3	1	2	1	1
##	5945	5946	5947	5948	5950	5951	5955	5956	5958	5959	5960	5961	5964
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##	6260	6261	6263	6264	6265	6266	6267	6268	6269	6270	6273	6275	6276

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##	7167	7172	7173	7174	7176	7180	7181	7184	7185	7186	7188	7189	7190
##	1	1	2	2	2	2	1	2	1	3	1	1	2
##	7191	7192	7194	7196	7200	7201	7202	7203	7204	7205	7206	7209	7211
##	1	1	2	2	1	2	1	2	2	1	1	1	3
##	7212	7213	7214	7215	7217	7218	7219	7221	7224	7229	7230	7231	7232
##	2	3	1	1	1	1	1	1	2	1	2	2	1
##	7233	7235	7238	7240	7242	7243	7244	7249	7250	7251	7252	7253	7254
##	1	1	1	1	1	1	2	2	2	1	2	2	1
##	7255	7256	7257	7258	7260	7261	7262	7263	7266	7267	7270	7271	7272
##	2	1	2	1	2	2	2	1	3	3	1	2	1
##	7274	7275	7276	7277	7278	7279	7280	7283	7284	7286	7288	7289	7290
##	1	1	3	3	1	1	1	2	2	3	1	3	2
##	7295	7296	7297	7298	7299	7300	7303	7306	7307	7309	7311	7312	7314
##	2	2	2	1	1	2	1	2	2	2	2	1	2
##	7317	7318	7319	7323	7324	7325	7326	7329	7331	7333	7334	7337	7338
##	1	1	3	1	2	1	2	1	2	1	1	1	1
##	7339	7340	7343	7345	7346	7347	7349	7352	7353	7355	7356	7357	7360
##	2	2	1	3	2	1	1	2	1	1	2	1	1
##	7361	7362	7365	7366	7367	7368	7370	7373	7374	7375	7377	7379	7381
##	3	2	2	1	2	1	2	2	2	2	1	2	1
##	7382	7383	7386	7390	7395	7396	7397	7400	7402	7404	7405	7406	7407
##	2	2	3	2	2	2	2	2	1	1	1	2	1
##	7408	7410	7413	7416	7417	7419	7421	7423	7427	7429	7430	7431	7434
##	2	3	2	1	2	1	1	2	1	2	3	1	2
##	7436	7437	7440	7441	7445	7446	7447	7448	7449	7451	7454	7455	7456
##	3	1	1	1	3	2	2	1	2	1	1	2	1
##	7457	7460	7461	7462	7463	7464	7465	7466	7467	7471	7476	7477	7478
##	1	2	2	2	1	3	1	2	1	1	1	3	1
##	7482	7486	7488	7489	7490	7492	7496	7497	7498	7499	7500	7502	7508

##	3	2	1	1	1	1	1	1	1	2	2	2	1
##	7511	7513	7514	7515	7517	7520	7522	7523	7525	7528	7529	7531	7532
##	2	1	1	1	1	2	1	2	1	2	2	1	2
##	7535	7536	7537	7538	7541	7542	7544	7545	7546	7547	7549	7555	7556
##	1	2	1	2	1	2	2	1	2	2	1	3	1
##	7558	7559	7562	7563	7565	7566	7567	7568	7569	7570	7571	7572	7579
##	2	2	1	1	1	1	2	3	1	2	2	2	1
##	7581	7583	7586	7587	7588	7589	7592	7593	7594	7596	7597	7598	7601
##	1	1	2	1	2	2	1	1	1	1	2	2	3
##	7602	7603	7605	7606	7609	7610	7619	7620	7625	7627	7628	7629	7630
##	3	3	2	1	1	2	1	2	2	2	1	2	2
##	7635	7637	7639	7640	7641	7642	7643	7646	7649	7652	7653	7656	7657
##	1	1	1	1	2	1	3	2	1	2	1	2	1
##	7658	7660	7664	7666	7668	7669	7673	7674	7675	7676	7679	7681	7682
##	1	1	2	1	3	2	2	2	1	1	2	2	1
##	7683	7684	7686	7688	7689	7692	7694	7695	7696	7698	7701	7703	7705
##	1	1	3	1	1	1	1	1	2	2	1	1	3
##	7706	7707	7710	7711	7713	7714	7717	7718	7720	7721	7722	7725	7728
##	1	2	2	1	1	2	3	1	2	2	1	2	2
##	7730	7734	7738	7739	7741	7742	7743	7745	7746	7750	7752	7753	7754
##	2	3	1	2	1	1	1	1	3	2	2	1	1
##	7755	7756	7760	7761	7762	7765	7766	7767	7768	7772	7773	7775	7776
##	1	1	1	1	1	1	2	2	2	3	1	2	2
##	7778	7779	7780	7782	7783	7784	7785	7788	7791	7793	7795	7796	7800
##	1	2	2	1	2	1	2	2	1	2	2	1	1
##	7806	7807	7810	7811	7814	7815	7816	7817	7818	7819	7821	7823	7824
##	1	1	2	1	1	2	2	3	1	2	2	1	3
##	7826	7827	7828	7832	7834	7835	7836	7837	7838	7840	7842	7843	7845
##	1	3	3	1	2	1	2	1	3	1	2	2	1
##	7846	7848	7849	7850	7852	7854	7856	7863	7864	7866	7867	7868	7869
##	1	3	1	2	1	2	2	2	3	3	1	1	1
##	7870	7873	7874	7877	7880	7881	7882	7883	7884	7886	7887	7888	7889
##	2	2	2	2	3	1	1	1	2	3	3	1	2
##	7890	7892	7895	7896	7897	7898	7899	7902	7904	7906	7907	7908	7909
##	2	1	2	2	1	2	2	1	2	2	1	1	2
##	7913	7914	7916	7919	7920	7921	7922	7923	7924	7925	7929	7930	7932
##	1	1	2	2	1	2	3	1	1	2	3	1	1
##	7933	7934	7935	7936	7937	7940	7941	7944	7948	7949	7950	7952	7953
##	2	1	1	2	2	1	2	3	1	2	1	1	1
##	7955	7956	7957	7962	7963	7964	7967	7969	7973	7974	7981	7982	7983
##	1	2	2	2	1	2	2	2	1	2	2	1	3
##	7985	7986	7987	7988	7990	7991	7993	7994	7998	7999	8001	8002	8003
##	2	1	1	1	2	1	1	1	3	2	1	3	1
##	8005	8006	8008	8012	8013	8014	8015	8016	8019	8020	8022	8024	8025
##	2	1	1	3	1	1	1	1	1	1	3	1	1
##	8026	8030	8032	8033	8035	8036	8038	8039	8043	8044	8045	8046	8047
##	1	1	1	1	1	2	1	2	1	1	2	2	1
##	8048	8049	8050	8052	8053	8055	8056	8058	8059	8060	8061	8062	8063
##	1	3	2	2	3	2	1	1	1	2	1	1	1
##	8064	8065	8066	8068	8069	8070	8071	8073	8074	8075	8076	8078	8079
##	1	3	1	3	2	3	1	1	2	3	1	1	2
##	8080	8083	8084	8085	8086	8087	8088	8090	8091	8093	8097	8098	8100
##	3	1	1	1	1	1	2	1	1	2	2	2	1
##	8101	8102	8104	8105	8106	8108	8109	8112	8113	8114	8115	8116	8119

##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	8122	8124	8125	8127	8129	8130	8131	8133	8134	8136	8140	8141	8142
##	1	1	1	1	2	2	1	1	3	1	2	1	1
##	8144	8145	8146	8147	8148	8149	8150	8152	8153	8154	8155	8156	8157
##	1	2	2	2	3	2	1	2	1	1	1	2	1
##	8159	8160	8161	8162	8163	8164	8165	8166	8167	8169	8170	8171	8172
##	1	1	1	2	3	1	1	1	3	2	1	1	1
##	8176	8177	8178	8179	8180	8181	8183	8184	8185	8188	8190	8193	8196
##	2	2	1	1	1	1	2	1	1	1	3	1	3
##	8197	8199	8201	8202	8203	8205	8206	8208	8210	8211	8212	8214	8215
##	1	1	1	1	1	2	1	1	1	1	1	1	1
##	8216	8218	8219	8220	8221	8222	8223	8225	8228	8233	8234	8237	8238
##	1	2	1	1	1	3	1	3	3	2	2	1	1
##	8240	8243	8244	8245	8248	8250	8251	8252	8254	8256	8258	8259	8260
##	1	3	1	2	3	3	1	1	2	1	1	1	1
##	8262	8263	8264	8266	8267	8268	8269	8272	8274	8276	8277	8281	8284
##	1	2	1	1	2	1	1	1	1	1	1	2	1
##	8286	8287	8289	8290	8291	8293	8294	8296	8297	8299	8300	8303	8305
##	1	1	1	1	2	1	1	1	2	1	1	2	1
##	8306	8308	8310	8311	8313	8315	8316	8317	8318	8319	8320	8321	8322
##	1	3	2	1	2	1	3	3	1	3	1	2	2
##	8323	8324	8325	8326	8329	8330	8332	8334	8335	8337	8340	8341	8343
##	1	1	1	1	2	1	1	2	1	2	2	1	1
##	8346	8348	8351	8352	8353	8354	8357	8360	8361	8363	8365	8366	8367
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##	8368	8370	8371	8374	8379	8380	8381	8382	8385	8386	8387	8388	8389
##	3	1	1	1	1	2	1	2	1	2	1	1	1
##	8392	8394	8395	8396	8397	8399	8400	8401	8402	8403	8404	8405	8406
##	1	1	1	1	1	2	1	1	1	1	1	1	1
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##	1	2	1	1	1	1	1	1	1	1	1	2	1
##	8427	8428	8429	8430	8431	8432	8433	8435	8437	8438	8440	8441	8443
##	1	1	1	2	3	1	1	3	2	1	1	1	1
##	8444	8445	8449	8450	8451	8452	8453	8456	8457	8458	8460	8461	8463
##	1	2	1	2	2	2	2	2	1	1	1	2	1
##	8464	8465	8470	8471	8472	8474	8475	8476	8479	8481	8482	8484	8485
##	1	1	1	1	1	1	2	1	2	1	2	1	3
##	8489	8490	8491	8492	8493	8494	8495	8496	8499	8502	8503	8508	8509
##	2	1	2	3	1	1	1	1	2	1	2	2	1
##	8510	8513	8514	8518	8519	8521	8523	8525	8527	8529	8530	8532	8533
##	1	3	1	2	1	1	1	1	1	1	2	3	2
##	8534	8535	8537	8538	8539	8540	8541	8544	8548	8550	8551	8552	8554
##	2	1	3	1	1	1	2	2	2	3	2	1	1
##	8555	8557	8562	8563	8566	8567	8568	8569	8570	8572	8573	8574	8576
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	8577	8578	8580	8582	8584	8590	8591	8592	8593	8596	8598	8599	8600
##	1	1	2	1	1	1	1	1	1	1	1	1	1
##	8602	8604	8605	8606	8607	8611	8612	8615	8616	8617	8618	8620	8621
##	1	1	1	1	1	1	1	1	1	1	1	2	1
##	8622	8625	8627	8629	8636	8637	8638	8639	8640	8641	8642	8643	8644
##	1	1	1	1	2	3	2	1	1	1	3	1	3
##	8645	8648	8650	8651	8652	8653	8654	8655	8657	8658	8660	8662	8663
##	1	2	2	3	3	2	1	3	3	1	2	3	2
##	8664	8666	8668	8669	8670	8672	8675	8676	8680	8681	8685	8686	8687

##	1	2	1	3	1	1	1	1	1	1	3	2	1
##	8691	8693	8694	8696	8699	8701	8703	8706	8709	8711	8712	8713	8714
##	1	2	3	1	1	3	1	1	1	1	1	1	1
##	8716	8717	8718	8719	8721	8722	8723	8725	8728	8729	8730	8731	8732
##	1	1	1	1	1	2	1	1	1	2	1	1	1
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##	8752	8753	8754	8755	8756	8758	8760	8761	8763	8766	8767	8768	8772
##	1	3	3	1	1	1	3	1	1	2	3	3	1
##	8774	8775	8776	8777	8781	8782	8783	8784	8787	8789	8790	8791	8794
##	1	1	1	1	2	1	1	1	1	2	2	3	1
##	8795	8796	8797	8798	8802	8805	8806	8807	8810	8811	8812	8813	8814
##	2	1	3	1	3	2	2	1	1	1	1	1	1
##	8815	8818	8820	8822	8823	8824	8826	8829	8830	8833	8836	8838	8839
##	2	1	1	1	1	1	2	3	1	2	1	1	1
##	8840	8841	8842	8845	8846	8848	8849	8852	8854	8855	8857	8860	8862
##	2	2	1	1	1	1	3	1	1	1	1	1	2
##	8863	8864	8865	8866	8869	8872	8874	8876	8877	8881	8882	8883	8885
##	1	1	1	3	3	1	3	1	1	1	3	3	1
##	8887	8888	8889	8890	8892	8893	8894	8895	8897	8898	8899	8901	8904
##	1	1	1	1	1	2	2	2	1	1	1	2	3
##	8906	8910	8911	8913	8915	8916	8921	8922	8923	8924	8925	8927	8929
##	1	1	1	3	3	2	1	2	1	1	1	1	2
##	8931	8932	8934	8935	8937	8939	8940	8941	8942	8944	8945	8946	8950
##	1	1	1	1	1	3	1	1	1	3	1	1	1
##	8951	8956	8957	8959	8960	8961	8963	8964	8965	8967	8968	8969	8971
##	1	1	1	1	1	1	1	1	1	1	3	1	3
##	8972	8974	8978	8979	8980	8981	8982	8983	8986	8987	8988	8989	8990
##	3	1	2	3	3	2	1	1	2	1	1	1	2
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##	1	1	2	2	1	1	1	1	1	2	1	2	1
##	9037	9038	9039	9040	9047	9048	9049	9050	9052	9054	9056	9058	9061
##	1	2	1	1	3	1	1	3	1	1	3	2	3
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##	1	1	1	1	1	2	1	2	1	1	1	1	1
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##	1	1	2	2	1	1	1	1	1	1	1	3	1
##	9133	9134	9135	9137	9138	9139	9140	9141	9142	9144	9145	9146	9149
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##	9150	9153	9156	9158	9159	9162	9163	9166	9167	9168	9170	9171	9172
##	1	1	1	1	2	1	1	2	1	3	1	1	1
##	9173	9174	9175	9176	9177	9179	9181	9184	9185	9186	9187	9188	9189
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##	1	1	1	2	1	1	1	2	1	1	1	2	1
##	9210	9213	9216	9218	9220	9221	9222	9223	9226	9227	9228	9229	9231
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##	9232	9233	9235	9236	9237	9238	9240	9241	9242	9244	9245	9247	9248
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##	9257	9259	9260	9263	9266	9267	9268	9270	9271	9273	9275	9276	9277

##	1	2	1	2	1	2	2	1	1	2	1	2	3
##	9279	9281	9282	9283	9286	9287	9288	9289	9290	9291	9293	9295	9296
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##	9320	9321	9322	9324	9326	9328	9329	9330	9332	9336	9338	9339	9340
##	1	3	1	2	1	2	1	1	1	2	1	1	2
##	9343	9346	9350	9352	9353	9355	9357	9359	9360	9361	9362	9364	9366
##	3	3	1	2	1	1	1	1	1	1	1	1	3
##	9368	9370	9374	9375	9377	9380	9381	9385	9386	9389	9391	9392	9393
##	1	1	1	2	2	1	1	3	1	1	2	1	1
##	9394	9396	9397	9398	9402	9405	9406	9407	9408	9409	9410	9411	9412
##	1	1	1	1	1	3	1	3	1	1	1	1	1
##	9414	9415	9417	9418	9419	9420	9423	9424	9426	9427	9428	9429	9430
##	2	1	3	1	2	2	1	1	1	1	1	1	1
##	9431	9432	9435	9436	9437	9438	9440	9441	9443	9444	9445	9446	9448
##	1	2	1	3	1	1	1	1	1	1	1	1	3
##	9450	9451	9452	9454	9455	9460	9462	9463	9464	9465	9469	9470	9471
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##	9472	9473	9474	9475	9478	9479	9480	9481	9483	9490	9493	9494	9496
##	1	2	3	1	1	1	1	1	3	1	2	1	1
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##	1	1	1	1	3	1	1	1	2	1	1	1	2
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##	1	3	1	1	1	2	1	2	2	1	1	1	2
##	9541	9543	9545	9547	9548	9551	9553	9554	9555	9556	9557	9558	9562
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##	9567	9568	9570	9571	9574	9575	9576	9578	9580	9581	9584	9588	9589
##	1	1	3	2	2	1	2	3	3	2	1	1	1
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##	2	1	1	2	2	3	1	2	1	2	2	1	1
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##	1	1	1	2	1	1	1	1	1	2	2	2	3
##	9633	9637	9638	9639	9642	9643	9645	9646	9648	9649	9651	9656	9658
##	1	1	1	1	1	2	2	1	1	1	1	1	1
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##	1	1	1	1	3	2	1	2	1	1	3	1	1
##	9679	9680	9681	9682	9685	9686	9687	9688	9692	9693	9694	9695	9698
##	1	1	1	1	1	1	1	3	1	2	1	3	2
##	9699	9700	9701	9702	9703	9704	9707	9709	9711	9712	9716	9718	9722
##	2	1	1	1	1	1	1	2	1	3	3	2	2
##	9723	9725	9730	9735	9736	9741	9742	9744	9745	9746	9748	9751	9752
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##	9753	9754	9755	9758	9759	9761	9762	9763	9766	9769	9771	9773	9775
##	1	1	1	1	1	1	2	2	1	2	1	1	2
##	9776	9777	9779	9780	9782	9783	9786	9787	9788	9792	9793	9795	9796
##	1	3	1	1	3	1	2	1	1	1	1	1	1
##	9798	9799	9800	9805	9806	9810	9812	9813	9814	9815	9816	9817	9818
##	1	1	1	2	3	2	2	1	1	2	1	2	1
##	9820	9821	9823	9824	9825	9827	9828	9829	9831	9833	9834	9835	9836
##	3	2	1	1	1	1	1	3	3	2	2	3	2
##	9837	9841	9842	9843	9844	9845	9848	9851	9854	9855	9857	9858	9859
##	1	1	3	2	1	1	2	1	1	1	1	2	2
##	9862	9863	9865	9866	9867	9868	9869	9871	9873	9875	9883	9884	9885

##	3	2	3	1	1	1	2	1	2	1	2	2	1
##	9887	9889	9890	9892	9894	9896	9897	9898	9899	9900	9901	9903	9904
##	2	1	1	1	1	1	3	1	1	1	1	2	1
##	9906	9907	9909	9910	9911	9912	9917	9918	9922	9924	9925	9926	9928
##	2	1	1	1	1	2	1	1	1	1	1	1	1
##	9929	9930	9932	9933	9937	9938	9939	9941	9942	9943	9944	9945	9947
##	3	1	1	1	1	3	1	2	1	1	3	3	1
##	9948	9949	9950	9951	9953	9954	9955	9956	9958	9961	9965	9967	9969
##	1	3	3	1	2	1	1	1	1	1	2	2	2
##	9971	9973	9975	9978	9981	9984	9985	9987	9988	9989	9991	9992	9994
##	3	1	1	2	3	1	1	2	1	1	1	1	3
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##	1	1	1	2	1	2	2	1	2	1	2	2	3
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##	10374	10375	10376	10377	10378	10380	10381	10383	10387	10389	10390	10391	10392
##	1	1	3	1	2	1	1	1	2	1	1	2	1
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##	1	1	1	1	1	2	1	2	1	1	2	1	1
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##	10459	10462	10465	10466	10467	10468	10469	10471	10472	10474	10475	10476	10477
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##	10479	10480	10481	10483	10484	10485	10487	10490	10491	10494	10495	10497	10498

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##	1	1	3	1	3	3	1	2	1	1	1	1	1
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##	10549	10550	10557	10558	10560	10561	10563	10564	10565	10566	10567	10569	10570
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##	10590	10591	10592	10594	10596	10598	10599	10600	10601	10602	10604	10606	10608
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##	10703	10704	10705	10707	10709	10711	10712	10714	10717	10719	10724	10725	10726
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##	1	1	1	2	1	2	1	3	1	1	2	3	1
##	10927	10929	10930	10932	10933	10936	10937	10939	10941	10943	10944	10946	10947
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##	1	1	1	1	1	1	3	3	1	3	1	1	1
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##	12247	12249	12250	12253	12254	12255	12257	12258	12260	12264	12265	12268	12269
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##	1	1	2	3	1	1	1	3	1	1	3	1	2
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##	1	1	1	1	1	1	3	1	3	3	1	1	1
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##	1	1	1	2	1	2	3	1	1	1	1	3	3
##	114	116	117	118	119	120	121	122	124	125	126	127	128
##	1	1	1	1	1	1	1	1	1	1	3	1	1
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##	1	1	3	1	1	1	3	1	1	1	1	1	1
##	578	579	581	583	584	585	586	587	589	591	592	593	597
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##	671	672	673	674	676	677	678	679	680	681	682	684	685
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##	686	687	688	689	691	692	693	694	696	700	701	703	704
##	1	1	1	1	1	1	2	1	2	1	1	2	1
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##	1	2	1	2	1	1	1	1	2	1	3	1	1
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##	1	1	1	1	2	1	1	1	3	3	1	1	1
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##	1942	1944	1946	1948	1949	1951	1952	1953	1954	1955	1956	1957	1961
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##	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973	1975	1977
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##	2300	2303	2304	2305	2306	2308	2309	2310	2311	2315	2316	2317	2318
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##	2336	2339	2340	2342	2343	2344	2345	2346	2347	2348	2350	2351	2352
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##	2394	2395	2399	2402	2403	2404	2405	2406	2408	2410	2411	2413	2414
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##	3	1	3	2	3	2	1	3	1	1	1	1	1
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##	3	1	1	3	1	3	1	1	1	2	1	2	1
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##	2520	2521	2522	2524	2525	2528	2529	2532	2533	2534	2535	2537	2541

##	1	3	3	1	2	1	3	1	1	3	1	3	3
##	2542	2544	2545	2546	2547	2548	2549	2550	2552	2555	2556	2557	2559
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##	1	2	1	1	2	2	1	2	1	1	1	2	1
##	4456	4458	4459	4460	4461	4462	4465	4466	4468	4469	4471	4472	4474
##	1	3	1	1	1	3	1	1	1	3	1	1	1
##	4475	4476	4477	4478	4479	4480	4481	4482	4483	4484	4487	4488	4492
##	1	1	1	1	1	1	1	1	1	1	1	1	2
##	4493	4495	4496	4498	4499	4500	4502	4503	4504	4505	4508	4509	4513
##	1	1	2	3	1	1	2	2	1	1	3	1	3
##	4514	4518	4520	4523	4524	4525	4526	4527	4529	4530	4532	4533	4534
##	2	1	1	1	1	3	3	1	1	1	2	2	1
##	4535	4536	4537	4538	4539	4540	4544	4546	4548	4549	4550	4552	4554
##	1	1	2	3	1	2	1	1	1	1	2	1	1
##	4556	4558	4563	4565	4566	4567	4568	4570	4571	4572	4573	4576	4578
##	2	1	1	1	1	2	2	3	1	1	1	1	1
##	4583	4584	4587	4588	4589	4590	4591	4593	4596	4597	4598	4600	4601

##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	4603	4605	4606	4607	4608	4609	4610	4611	4612	4613	4615	4618	4619
##	1	1	1	2	3	2	2	1	2	1	1	1	1
##	4620	4621	4622	4623	4624	4625	4626	4627	4628	4629	4632	4633	4634
##	3	1	2	2	1	1	3	1	1	1	1	2	1
##	4635	4636	4637	4639	4640	4641	4642	4644	4645	4647	4649	4651	4652
##	1	1	3	1	1	3	2	2	1	1	1	1	2
##	4653	4654	4657	4660	4661	4662	4663	4667	4668	4670	4673	4674	4676
##	1	1	2	1	1	3	1	1	1	1	1	1	1
##	4677	4678	4683	4685	4686	4687	4688	4691	4692	4693	4694	4695	4699
##	1	1	2	1	1	1	1	1	1	3	2	1	2
##	4700	4702	4704	4705	4706	4707	4709	4710	4712	4714	4716	4717	4718
##	1	1	1	1	1	1	2	1	1	1	1	2	1
##	4719	4722	4723	4724	4727	4728	4730	4731	4732	4734	4735	4736	4737
##	1	1	1	1	1	1	1	1	1	1	2	3	1
##	4738	4739	4740	4741	4742	4744	4745	4746	4747	4748	4751	4753	4754
##	3	1	1	2	1	3	2	1	1	1	2	2	1
##	4755	4756	4757	4758	4763	4765	4767	4768	4769	4771	4772	4773	4774
##	1	1	3	1	1	1	1	1	1	2	1	1	1
##	4776	4777	4778	4780	4782	4783	4784	4785	4786	4788	4791	4792	4793
##	1	1	1	1	2	1	1	2	3	2	1	2	1
##	4795	4796	4797	4798	4799	4800	4801	4802	4804	4805	4806	4807	4808
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##	4809	4811	4812	4813	4816	4819	4820	4823	4824	4825	4826	4828	4830
##	2	1	3	1	1	1	1	1	1	1	1	1	1
##	4831	4835	4836	4839	4840	4842	4843	4844	4847	4848	4849	4850	4852
##	1	1	1	3	1	2	1	1	2	3	2	1	1
##	4853	4854	4856	4857	4859	4860	4861	4862	4863	4864	4865	4867	4869
##	1	1	1	1	1	1	1	3	3	1	3	1	1
##	4873	4874	4876	4877	4878	4879	4882	4886	4887	4888	4889	4891	4892
##	2	1	1	1	1	2	1	1	1	3	2	1	1
##	4893	4894	4896	4897	4899	4906	4907	4908	4909	4910	4911	4912	4913
##	2	1	1	3	1	1	1	2	1	3	1	1	1
##	4915	4916	4917	4919	4920	4922	4923	4925	4926	4927	4928	4930	4931
##	1	3	1	2	3	1	2	3	1	3	2	3	1
##	4932	4933	4935	4936	4939	4940	4941	4942	4943	4944	4952	4955	4956
##	1	2	1	1	1	1	2	1	1	1	1	3	2
##	4957	4958	4959	4960	4961	4962	4963	4965	4970	4971	4972	4973	4974
##	1	1	1	1	2	1	1	1	1	1	1	3	1
##	4977	4979	4980	4981	4982	4983	4985	4990	4992	4996	4997	4998	5000
##	1	3	1	1	2	1	1	3	3	1	1	2	1
##	5001	5002	5003	5004	5008	5011	5012	5013	5015	5016	5017	5018	5021
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##	5022	5024	5026	5027	5030	5033	5034	5035	5037	5038	5043	5045	5047
##	1	1	1	3	1	1	1	1	1	1	2	2	1
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##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	5082	5085	5086	5087	5090	5093	5094	5095	5096	5097	5098	5099	5102
##	1	1	2	1	2	1	1	2	3	3	1	1	1
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##	5123	5125	5126	5127	5128	5129	5130	5132	5134	5135	5136	5137	5138

##	1	3	1	1	2	2	1	1	3	3	2	1	3
##	5139	5140	5142	5143	5144	5145	5148	5149	5155	5156	5157	5158	5161
##	3	2	1	2	1	2	3	1	1	3	3	1	1
##	5164	5165	5166	5167	5168	5169	5170	5171	5172	5173	5174	5176	5177
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##	5178	5180	5181	5182	5183	5184	5186	5188	5191	5192	5193	5197	5201
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##	5202	5203	5205	5206	5207	5210	5211	5212	5213	5215	5217	5219	5220
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##	5224	5225	5227	5228	5229	5230	5231	5232	5233	5234	5235	5236	5237
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##	5239	5241	5245	5246	5247	5248	5249	5250	5253	5257	5258	5259	5261
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##	5303	5304	5305	5306	5307	5308	5309	5310	5311	5312	5313	5314	5316
##	1	1	1	1	1	1	1	1	1	3	2	1	1
##	5318	5321	5322	5323	5324	5325	5326	5327	5328	5329	5330	5331	5332
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##	5333	5336	5337	5338	5341	5342	5343	5345	5347	5348	5349	5350	5351
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##	1	2	1	1	1	3	1	1	1	2	1	2	3
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##	5430	5431	5432	5433	5434	5436	5437	5439	5442	5443	5445	5446	5449
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##	5529	5530	5532	5534	5535	5539	5540	5541	5542	5543	5545	5546	5548
##	1	1	2	2	1	1	2	1	1	2	1	2	1
##	5549	5550	5552	5554	5557	5558	5559	5560	5561	5563	5564	5565	5567
##	1	1	1	1	2	3	1	1	1	1	2	2	1
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##	1	3	2	2	1	2	1	2	1	1	1	2	1
##	5587	5588	5589	5590	5591	5592	5594	5595	5596	5599	5602	5603	5604
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##	5626	5627	5628	5629	5630	5631	5632	5634	5636	5637	5641	5642	5643
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##	5645	5646	5647	5648	5649	5650	5652	5654	5655	5656	5658	5660	5661

##	2	2	1	1	2	2	1	1	1	2	3	2	1
##	5662	5663	5665	5666	5667	5669	5670	5671	5672	5673	5674	5677	5678
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##	5839	5841	5842	5843	5844	5847	5848	5849	5850	5851	5852	5853	5854
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##	6032	6033	6034	6036	6037	6038	6040	6041	6042	6043	6044	6045	6046
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##	6136	6138	6141	6142	6143	6144	6148	6149	6150	6154	6155	6156	6158
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##	6277	6280	6281	6282	6283	6284	6286	6287	6288	6290	6291	6292	6295
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##	6737	6739	6740	6741	6744	6745	6747	6748	6751	6752	6756	6759	6760
##	1	1	2	2	3	2	1	1	2	2	3	3	2
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##	6811	6814	6815	6816	6819	6822	6823	6824	6827	6828	6830	6831	6833
##	3	3	1	2	1	1	2	1	1	3	1	3	1
##	6836	6840	6842	6844	6847	6848	6852	6854	6856	6857	6858	6859	6860

##	1	1	2	2	2	1	1	1	2	3	1	2	1
##	6862	6865	6866	6868	6873	6874	6875	6876	6879	6880	6881	6882	6888
##	2	2	1	1	1	2	1	1	2	1	1	1	1
##	6889	6890	6891	6895	6896	6897	6902	6903	6904	6905	6908	6911	6913
##	2	2	1	2	1	1	1	2	1	2	1	2	2
##	6914	6917	6918	6920	6921	6923	6924	6926	6927	6928	6929	6932	6933
##	2	1	1	2	1	1	3	2	1	2	1	1	2
##	6934	6936	6938	6939	6941	6944	6945	6946	6948	6950	6951	6952	6953
##	2	1	2	2	1	1	2	2	1	2	2	2	1
##	6954	6955	6956	6958	6961	6963	6964	6966	6967	6968	6969	6971	6974
##	1	2	1	2	2	2	2	1	1	2	1	1	1
##	6976	6977	6978	6979	6981	6983	6984	6986	6989	6990	6991	6992	6995
##	1	1	1	1	1	2	2	1	1	2	1	2	3
##	6996	6997	7001	7002	7003	7005	7006	7007	7009	7013	7015	7017	7018
##	2	2	1	1	1	1	3	2	1	1	1	1	1
##	7019	7020	7021	7022	7025	7026	7027	7029	7030	7032	7033	7034	7035
##	2	1	2	1	2	1	2	1	1	1	2	1	1
##	7036	7038	7043	7044	7045	7047	7049	7050	7051	7052	7056	7059	7060
##	1	2	1	3	1	1	2	1	1	1	2	2	2
##	7061	7062	7063	7067	7068	7071	7072	7077	7078	7079	7082	7084	7086
##	1	2	1	1	2	1	3	1	1	1	2	1	1
##	7089	7090	7093	7096	7098	7100	7101	7102	7103	7105	7106	7108	7110
##	2	2	2	1	1	1	1	2	1	1	1	1	1
##	7111	7114	7116	7118	7121	7124	7126	7127	7133	7134	7138	7139	7140
##	2	2	2	1	1	1	1	2	1	2	1	1	2
##	7142	7150	7151	7153	7154	7156	7157	7158	7160	7162	7163	7164	7166
##	3	2	2	2	2	1	2	1	1	3	2	1	2
##	7167	7172	7173	7174	7176	7180	7181	7184	7185	7186	7188	7189	7190
##	1	1	2	2	2	2	1	2	1	3	1	1	2
##	7191	7192	7194	7196	7200	7201	7202	7203	7204	7205	7206	7209	7211
##	1	1	2	2	1	2	1	2	2	1	1	1	3
##	7212	7213	7214	7215	7217	7218	7219	7221	7224	7229	7230	7231	7232
##	2	3	1	1	1	1	1	1	2	1	2	2	1
##	7233	7235	7238	7240	7242	7243	7244	7249	7250	7251	7252	7253	7254
##	1	1	1	1	1	1	2	2	2	1	2	2	1
##	7255	7256	7257	7258	7260	7261	7262	7263	7266	7267	7270	7271	7272
##	2	1	2	1	2	2	2	1	3	3	1	2	1
##	7274	7275	7276	7277	7278	7279	7280	7283	7284	7286	7288	7289	7290
##	1	1	3	3	1	1	1	2	2	3	1	3	2
##	7295	7296	7297	7298	7299	7300	7303	7306	7307	7309	7311	7312	7314
##	2	2	2	1	1	2	1	2	2	2	2	1	2
##	7317	7318	7319	7323	7324	7325	7326	7329	7331	7333	7334	7337	7338
##	1	1	3	1	2	1	2	1	2	1	1	1	1
##	7339	7340	7343	7345	7346	7347	7349	7352	7353	7355	7356	7357	7360
##	2	2	1	3	2	1	1	2	1	1	2	1	1
##	7361	7362	7365	7366	7367	7368	7370	7373	7374	7375	7377	7379	7381
##	3	2	2	1	2	1	2	2	2	2	1	2	1
##	7382	7383	7386	7390	7395	7396	7397	7400	7402	7404	7405	7406	7407
##	2	2	3	2	2	2	2	2	1	1	1	2	1
##	7408	7410	7413	7416	7417	7419	7421	7423	7427	7429	7430	7431	7434
##	2	3	2	1	2	1	1	2	1	2	3	1	2
##	7436	7437	7440	7441	7445	7446	7447	7448	7449	7451	7454	7455	7456
##	3	1	1	1	3	2	2	1	2	1	1	2	1
##	7457	7460	7461	7462	7463	7464	7465	7466	7467	7471	7476	7477	7478

##	1	2	2	2	1	3	1	2	1	1	1	3	1
##	7482	7486	7488	7489	7490	7492	7496	7497	7498	7499	7500	7502	7508
##	3	2	1	1	1	1	1	1	1	2	2	2	1
##	7511	7513	7514	7515	7517	7520	7522	7523	7525	7528	7529	7531	7532
##	2	1	1	1	1	2	1	2	1	2	2	1	2
##	7535	7536	7537	7538	7541	7542	7544	7545	7546	7547	7549	7555	7556
##	1	2	1	2	1	2	2	1	2	2	1	3	1
##	7558	7559	7562	7563	7565	7566	7567	7568	7569	7570	7571	7572	7579
##	2	2	1	1	1	1	2	3	1	2	2	2	1
##	7581	7583	7586	7587	7588	7589	7592	7593	7594	7596	7597	7598	7601
##	1	1	2	1	2	2	1	1	1	1	2	2	3
##	7602	7603	7605	7606	7609	7610	7619	7620	7625	7627	7628	7629	7630
##	3	3	2	1	1	2	1	2	2	2	1	2	2
##	7635	7637	7639	7640	7641	7642	7643	7646	7649	7652	7653	7656	7657
##	1	1	1	1	2	1	3	2	1	2	1	2	1
##	7658	7660	7664	7666	7668	7669	7673	7674	7675	7676	7679	7681	7682
##	1	1	2	1	3	2	2	2	1	1	2	2	1
##	7683	7684	7686	7688	7689	7692	7694	7695	7696	7698	7701	7703	7705
##	1	1	3	1	1	1	1	1	2	2	1	1	3
##	7706	7707	7710	7711	7713	7714	7717	7718	7720	7721	7722	7725	7728
##	1	2	2	1	1	2	3	1	2	2	1	2	2
##	7730	7734	7738	7739	7741	7742	7743	7745	7746	7750	7752	7753	7754
##	2	3	1	2	1	1	1	1	3	2	2	1	1
##	7755	7756	7760	7761	7762	7765	7766	7767	7768	7772	7773	7775	7776
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##	7778	7779	7780	7782	7783	7784	7785	7788	7791	7793	7795	7796	7800
##	1	2	2	1	2	1	2	2	1	2	2	1	1
##	7806	7807	7810	7811	7814	7815	7816	7817	7818	7819	7821	7823	7824
##	1	1	2	1	1	2	2	3	1	2	2	1	3
##	7826	7827	7828	7832	7834	7835	7836	7837	7838	7840	7842	7843	7845
##	1	3	3	1	2	1	2	1	3	1	2	2	1
##	7846	7848	7849	7850	7852	7854	7856	7863	7864	7866	7867	7868	7869
##	1	3	1	2	1	2	2	2	3	3	1	1	1
##	7870	7873	7874	7877	7880	7881	7882	7883	7884	7886	7887	7888	7889
##	2	2	2	2	3	1	1	1	2	3	3	1	2
##	7890	7892	7895	7896	7897	7898	7899	7902	7904	7906	7907	7908	7909
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##	7913	7914	7916	7919	7920	7921	7922	7923	7924	7925	7929	7930	7932
##	1	1	2	2	1	2	3	1	1	2	3	1	1
##	7933	7934	7935	7936	7937	7940	7941	7944	7948	7949	7950	7952	7953
##	2	1	1	2	2	1	2	3	1	2	1	1	1
##	7955	7956	7957	7962	7963	7964	7967	7969	7973	7974	7981	7982	7983
##	1	2	2	2	1	2	2	2	1	2	2	1	3
##	7985	7986	7987	7988	7990	7991	7993	7994	7998	7999	8001	8002	8003
##	2	1	1	1	2	1	1	1	3	2	1	3	1
##	8005	8006	8008	8012	8013	8014	8015	8016	8019	8020	8022	8024	8025
##	2	1	1	3	1	1	1	1	1	1	3	1	1
##	8026	8030	8032	8033	8035	8036	8038	8039	8043	8044	8045	8046	8047
##	1	1	1	1	1	2	1	2	1	1	2	2	1
##	8048	8049	8050	8052	8053	8055	8056	8058	8059	8060	8061	8062	8063
##	1	3	2	2	3	2	1	1	1	2	1	1	1
##	8064	8065	8066	8068	8069	8070	8071	8073	8074	8075	8076	8078	8079
##	1	3	1	3	2	3	1	1	2	3	1	1	2
##	8080	8083	8084	8085	8086	8087	8088	8090	8091	8093	8097	8098	8100

##	3	1	1	1	1	1	2	1	1	2	2	2	1
##	8101	8102	8104	8105	8106	8108	8109	8112	8113	8114	8115	8116	8119
##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	8122	8124	8125	8127	8129	8130	8131	8133	8134	8136	8140	8141	8142
##	1	1	1	1	2	2	1	1	3	1	2	1	1
##	8144	8145	8146	8147	8148	8149	8150	8152	8153	8154	8155	8156	8157
##	1	2	2	2	3	2	1	2	1	1	1	2	1
##	8159	8160	8161	8162	8163	8164	8165	8166	8167	8169	8170	8171	8172
##	1	1	1	2	3	1	1	1	3	2	1	1	1
##	8176	8177	8178	8179	8180	8181	8183	8184	8185	8188	8190	8193	8196
##	2	2	1	1	1	1	2	1	1	1	3	1	3
##	8197	8199	8201	8202	8203	8205	8206	8208	8210	8211	8212	8214	8215
##	1	1	1	1	1	2	1	1	1	1	1	1	1
##	8216	8218	8219	8220	8221	8222	8223	8225	8228	8233	8234	8237	8238
##	1	2	1	1	1	3	1	3	3	2	2	1	1
##	8240	8243	8244	8245	8248	8250	8251	8252	8254	8256	8258	8259	8260
##	1	3	1	2	3	3	1	1	2	1	1	1	1
##	8262	8263	8264	8266	8267	8268	8269	8272	8274	8276	8277	8281	8284
##	1	2	1	1	2	1	1	1	1	1	1	2	1
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##	1	1	1	1	2	1	1	1	2	1	1	2	1
##	8306	8308	8310	8311	8313	8315	8316	8317	8318	8319	8320	8321	8322
##	1	3	2	1	2	1	3	3	1	3	1	2	2
##	8323	8324	8325	8326	8329	8330	8332	8334	8335	8337	8340	8341	8343
##	1	1	1	1	2	1	1	2	1	2	2	1	1
##	8346	8348	8351	8352	8353	8354	8357	8360	8361	8363	8365	8366	8367
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##	8368	8370	8371	8374	8379	8380	8381	8382	8385	8386	8387	8388	8389
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##	8392	8394	8395	8396	8397	8399	8400	8401	8402	8403	8404	8405	8406
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##	8408	8409	8410	8411	8412	8414	8415	8420	8421	8422	8423	8424	8426
##	1	2	1	1	1	1	1	1	1	1	1	2	1
##	8427	8428	8429	8430	8431	8432	8433	8435	8437	8438	8440	8441	8443
##	1	1	1	2	3	1	1	3	2	1	1	1	1
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##	8510	8513	8514	8518	8519	8521	8523	8525	8527	8529	8530	8532	8533
##	1	3	1	2	1	1	1	1	1	1	2	3	2
##	8534	8535	8537	8538	8539	8540	8541	8544	8548	8550	8551	8552	8554
##	2	1	3	1	1	1	2	2	2	3	2	1	1
##	8555	8557	8562	8563	8566	8567	8568	8569	8570	8572	8573	8574	8576
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	8577	8578	8580	8582	8584	8590	8591	8592	8593	8596	8598	8599	8600
##	1	1	2	1	1	1	1	1	1	1	1	1	1
##	8602	8604	8605	8606	8607	8611	8612	8615	8616	8617	8618	8620	8621
##	1	1	1	1	1	1	1	1	1	1	1	2	1
##	8622	8625	8627	8629	8636	8637	8638	8639	8640	8641	8642	8643	8644
##	1	1	1	1	2	3	2	1	1	1	3	1	3
##	8645	8648	8650	8651	8652	8653	8654	8655	8657	8658	8660	8662	8663

##	1	2	2	3	3	2	1	3	3	1	2	3	2
##	8664	8666	8668	8669	8670	8672	8675	8676	8680	8681	8685	8686	8687
##	1	2	1	3	1	1	1	1	1	1	3	2	1
##	8691	8693	8694	8696	8699	8701	8703	8706	8709	8711	8712	8713	8714
##	1	2	3	1	1	3	1	1	1	1	1	1	1
##	8716	8717	8718	8719	8721	8722	8723	8725	8728	8729	8730	8731	8732
##	1	1	1	1	1	2	1	1	1	2	1	1	1
##	8733	8734	8735	8736	8737	8740	8742	8743	8745	8746	8749	8750	8751
##	3	2	2	1	1	2	2	3	3	1	1	2	1
##	8752	8753	8754	8755	8756	8758	8760	8761	8763	8766	8767	8768	8772
##	1	3	3	1	1	1	3	1	1	2	3	3	1
##	8774	8775	8776	8777	8781	8782	8783	8784	8787	8789	8790	8791	8794
##	1	1	1	1	2	1	1	1	1	2	2	3	1
##	8795	8796	8797	8798	8802	8805	8806	8807	8810	8811	8812	8813	8814
##	2	1	3	1	3	2	2	1	1	1	1	1	1
##	8815	8818	8820	8822	8823	8824	8826	8829	8830	8833	8836	8838	8839
##	2	1	1	1	1	1	2	3	1	2	1	1	1
##	8840	8841	8842	8845	8846	8848	8849	8852	8854	8855	8857	8860	8862
##	2	2	1	1	1	1	3	1	1	1	1	1	2
##	8863	8864	8865	8866	8869	8872	8874	8876	8877	8881	8882	8883	8885
##	1	1	1	3	3	1	3	1	1	1	3	3	1
##	8887	8888	8889	8890	8892	8893	8894	8895	8897	8898	8899	8901	8904
##	1	1	1	1	1	2	2	2	1	1	1	2	3
##	8906	8910	8911	8913	8915	8916	8921	8922	8923	8924	8925	8927	8929
##	1	1	1	3	3	2	1	2	1	1	1	1	2
##	8931	8932	8934	8935	8937	8939	8940	8941	8942	8944	8945	8946	8950
##	1	1	1	1	1	3	1	1	1	3	1	1	1
##	8951	8956	8957	8959	8960	8961	8963	8964	8965	8967	8968	8969	8971
##	1	1	1	1	1	1	1	1	1	1	3	1	3
##	8972	8974	8978	8979	8980	8981	8982	8983	8986	8987	8988	8989	8990
##	3	1	2	3	3	2	1	1	2	1	1	1	2
##	8991	8992	8993	8995	8996	8999	9001	9003	9007	9008	9009	9010	9011
##	1	1	3	1	2	1	3	3	1	3	1	1	1
##	9013	9014	9015	9017	9021	9022	9024	9026	9027	9028	9030	9031	9034
##	1	1	2	2	1	1	1	1	1	2	1	2	1
##	9037	9038	9039	9040	9047	9048	9049	9050	9052	9054	9056	9058	9061
##	1	2	1	1	3	1	1	3	1	1	3	2	3
##	9062	9064	9066	9069	9072	9074	9075	9076	9077	9080	9082	9084	9086
##	1	1	1	1	1	2	1	2	1	1	1	1	1
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##	1	1	2	2	1	1	1	1	1	1	1	3	1
##	9133	9134	9135	9137	9138	9139	9140	9141	9142	9144	9145	9146	9149
##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	9150	9153	9156	9158	9159	9162	9163	9166	9167	9168	9170	9171	9172
##	1	1	1	1	2	1	1	2	1	3	1	1	1
##	9173	9174	9175	9176	9177	9179	9181	9184	9185	9186	9187	9188	9189
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##	9190	9191	9192	9193	9194	9195	9199	9200	9201	9202	9206	9207	9208
##	1	1	1	2	1	1	1	2	1	1	1	2	1
##	9210	9213	9216	9218	9220	9221	9222	9223	9226	9227	9228	9229	9231
##	2	1	2	1	1	2	1	3	2	1	1	1	1
##	9232	9233	9235	9236	9237	9238	9240	9241	9242	9244	9245	9247	9248

##	1	1	1	2	2	2	2	1	1	1	1	1	3
##	9257	9259	9260	9263	9266	9267	9268	9270	9271	9273	9275	9276	9277
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##	9297	9300	9302	9303	9304	9305	9306	9309	9310	9311	9313	9316	9319
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##	9320	9321	9322	9324	9326	9328	9329	9330	9332	9336	9338	9339	9340
##	1	3	1	2	1	2	1	1	1	2	1	1	2
##	9343	9346	9350	9352	9353	9355	9357	9359	9360	9361	9362	9364	9366
##	3	3	1	2	1	1	1	1	1	1	1	1	3
##	9368	9370	9374	9375	9377	9380	9381	9385	9386	9389	9391	9392	9393
##	1	1	1	2	2	1	1	3	1	1	2	1	1
##	9394	9396	9397	9398	9402	9405	9406	9407	9408	9409	9410	9411	9412
##	1	1	1	1	1	3	1	3	1	1	1	1	1
##	9414	9415	9417	9418	9419	9420	9423	9424	9426	9427	9428	9429	9430
##	2	1	3	1	2	2	1	1	1	1	1	1	1
##	9431	9432	9435	9436	9437	9438	9440	9441	9443	9444	9445	9446	9448
##	1	2	1	3	1	1	1	1	1	1	1	1	3
##	9450	9451	9452	9454	9455	9460	9462	9463	9464	9465	9469	9470	9471
##	1	1	1	1	1	3	1	2	1	3	1	1	1
##	9472	9473	9474	9475	9478	9479	9480	9481	9483	9490	9493	9494	9496
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##	9497	9498	9501	9503	9505	9507	9509	9511	9512	9513	9514	9516	9518
##	1	1	1	1	3	1	1	1	2	1	1	1	2
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##	1	3	1	1	1	2	1	2	2	1	1	1	2
##	9541	9543	9545	9547	9548	9551	9553	9554	9555	9556	9557	9558	9562
##	2	2	1	3	3	1	3	1	1	1	1	3	3
##	9567	9568	9570	9571	9574	9575	9576	9578	9580	9581	9584	9588	9589
##	1	1	3	2	2	1	2	3	3	2	1	1	1
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##	2	1	1	2	2	3	1	2	1	2	2	1	1
##	9615	9618	9619	9620	9621	9622	9624	9625	9627	9629	9630	9631	9632
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##	9633	9637	9638	9639	9642	9643	9645	9646	9648	9649	9651	9656	9658
##	1	1	1	1	1	2	2	1	1	1	1	1	1
##	9660	9662	9664	9666	9667	9668	9669	9670	9672	9673	9674	9677	9678
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##	9723	9725	9730	9735	9736	9741	9742	9744	9745	9746	9748	9751	9752
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##	9753	9754	9755	9758	9759	9761	9762	9763	9766	9769	9771	9773	9775
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##	9776	9777	9779	9780	9782	9783	9786	9787	9788	9792	9793	9795	9796
##	1	3	1	1	3	1	2	1	1	1	1	1	1
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##	3	2	1	1	1	1	1	3	3	2	2	3	2
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##	1	1	3	2	1	1	2	1	1	1	1	2	2
##	9862	9863	9865	9866	9867	9868	9869	9871	9873	9875	9883	9884	9885
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##	3	1	1	1	1	3	1	2	1	1	3	3	1
##	9948	9949	9950	9951	9953	9954	9955	9956	9958	9961	9965	9967	9969
##	1	3	3	1	2	1	1	1	1	1	2	2	2
##	9971	9973	9975	9978	9981	9984	9985	9987	9988	9989	9991	9992	9994
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##	1	1	1	2	1	1	1	1	1	3	1	2	1
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##	1	1	1	2	1	2	2	1	2	1	2	2	3
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##	3	1	2	1	1	1	1	1	1	2	1	2	2
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##	1	2	1	1	1	3	3	2	2	2	2	1	1
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##	10254	10256	10257	10258	10259	10260	10261	10262	10263	10265	10268	10269	10271
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##	11240	11241	11242	11244	11245	11248	11252	11254	11260	11261	11262	11263	11264
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##	11893	11894	11895	11900	11901	11903	11909	11910	11911	11914	11916	11919	11920
##	1	2	1	1	1	1	1	1	1	1	1	3	1
##	11922	11924	11925	11926	11929	11933	11936	11940	11941	11942	11943	11944	11945
##	1	1	1	1	1	1	1	3	1	2	1	1	2
##	11947	11948	11951	11952	11953	11954	11955	11956	11957	11958	11959	11960	11961
##	2	1	3	1	1	1	1	1	1	1	1	1	1
##	11963	11964	11969	11970	11971	11972	11973	11975	11976	11977	11980	11981	11982
##	1	3	1	3	1	2	1	1	2	1	1	2	1
##	11983	11985	11986	11988	11990	11991	11993	11994	11996	11997	11998	11999	12001
##	2	1	1	2	3	1	2	3	1	1	1	3	1
##	12004	12005	12006	12007	12008	12009	12010	12011	12012	12013	12016	12017	12019
##	1	1	2	2	2	1	2	1	1	3	1	1	1
##	12021	12022	12023	12025	12026	12027	12029	12030	12031	12032	12033	12035	12039
##	1	1	1	2	1	2	2	1	1	1	2	1	2
##	12040	12042	12044	12047	12048	12050	12052	12055	12056	12057	12058	12060	12061
##	1	1	1	1	1	1	2	1	1	3	1	2	1
##	12062	12064	12065	12069	12071	12072	12073	12074	12076	12077	12080	12081	12082
##	3	3	1	1	2	1	1	1	2	3	1	1	3
##	12083	12084	12086	12087	12088	12089	12091	12092	12093	12098	12100	12101	12102
##	1	2	1	1	2	1	3	1	1	1	1	2	2
##	12105	12106	12108	12109	12110	12113	12117	12118	12119	12120	12122	12124	12125
##	1	1	1	1	2	1	3	2	1	1	1	1	1
##	12126	12127	12129	12135	12136	12137	12138	12139	12141	12143	12145	12147	12148
##	1	1	2	1	1	1	1	1	1	1	1	1	2
##	12150	12151	12154	12155	12157	12158	12161	12163	12165	12166	12168	12174	12175
##	2	1	1	1	1	1	1	3	1	2	2	1	3
##	12176	12178	12182	12184	12187	12188	12194	12198	12199	12200	12201	12202	12203
##	3	1	1	1	1	1	1	3	2	2	3	1	1
##	12204	12206	12207	12209	12211	12213	12214	12215	12218	12220	12221	12223	12224
##	1	1	1	1	1	1	1	1	1	1	3	1	2
##	12226	12227	12228	12229	12230	12232	12233	12235	12236	12240	12241	12242	12244
##	1	1	2	1	2	1	1	1	2	1	1	1	1
##	12247	12249	12250	12253	12254	12255	12257	12258	12260	12264	12265	12268	12269

```
##      1      1      1      1      1      1      1      1      2      1      1      1      2
## 12270 12272 12274 12275 12276 12277 12278 12280 12284 12287 12289 12290 12291
##      2      2      2      1      1      2      1      1      1      1      2      1      1
## 12292 12293 12295 12297 12298 12299 12300 12301 12302 12303 12304 12305 12306
##      1      1      1      1      1      1      1      1      3      1      1      1      1
## 12307 12310 12311 12315 12316 12317 12318 12319 12320 12321 12322 12323 12324
##      1      2      1      1      1      1      2      1      1      1      3      2      2
## 12325 12327 12328 12329 12330
##      1      1      1      2      1
```

```
# Cluster centers
```

```
X_K2$centers
```

```
##      Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.4173590                -0.4546676      -0.04260411          0.06521181
## 2      1.4440741                1.5523746      0.14633234          0.06521181
## 3      -0.5559335                -0.5636828      -0.05457239          -0.50000553
##      ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1      -0.0553130                -0.01665779    -0.2995394 -0.2179333 -0.04452699
## 2      0.5732420                0.50040952    -0.3965745 -0.5672652 0.25433942
## 3      -0.8441895                -0.91561508    2.4924880 2.3758643 -0.26164531
##      SpecialDay OperatingSystems Browser Region TrafficType
## 1 0.03884315      -0.002870794 0.011125022 -0.012998248 -0.007512165
## 2 -0.20507488     -0.025156804 -0.006658118 0.039237245 -0.088277194
## 3 0.19435090      0.066980203 -0.049417309 -0.005737777 0.220566315
```

```
# Between clusters sum of square
```

```
X_K2$betweenss
```

```
## [1] 26021.34
```

```
# Within cluster sum of square
```

```
X_K2$withinss
```

```
## [1] 43877.09 24457.59 14717.98
```

```
# Total with sum of square
```

```
X_K2$tot.withinss
```

```
## [1] 83052.66
```

```
# Total sum of square
```

```
X_K2$totss
```

```
## [1] 109074
```

```
# We can execute the same process for 2, 3, 4, and 5 clusters, and the results are shown in the figure:
```

```
X_K3 <- kmeans(X_Norm, centers = 2, nstart = 25)
```

```
X_K4 <- kmeans(X_Norm, centers = 4, nstart = 25)
```

```
X_K5 <- kmeans(X_Norm, centers = 5, nstart = 25)
```

```
X_K6 <- kmeans(X_Norm, centers = 6, nstart = 25)
```

```
#We can plot these clusters for different K value to compare.
```

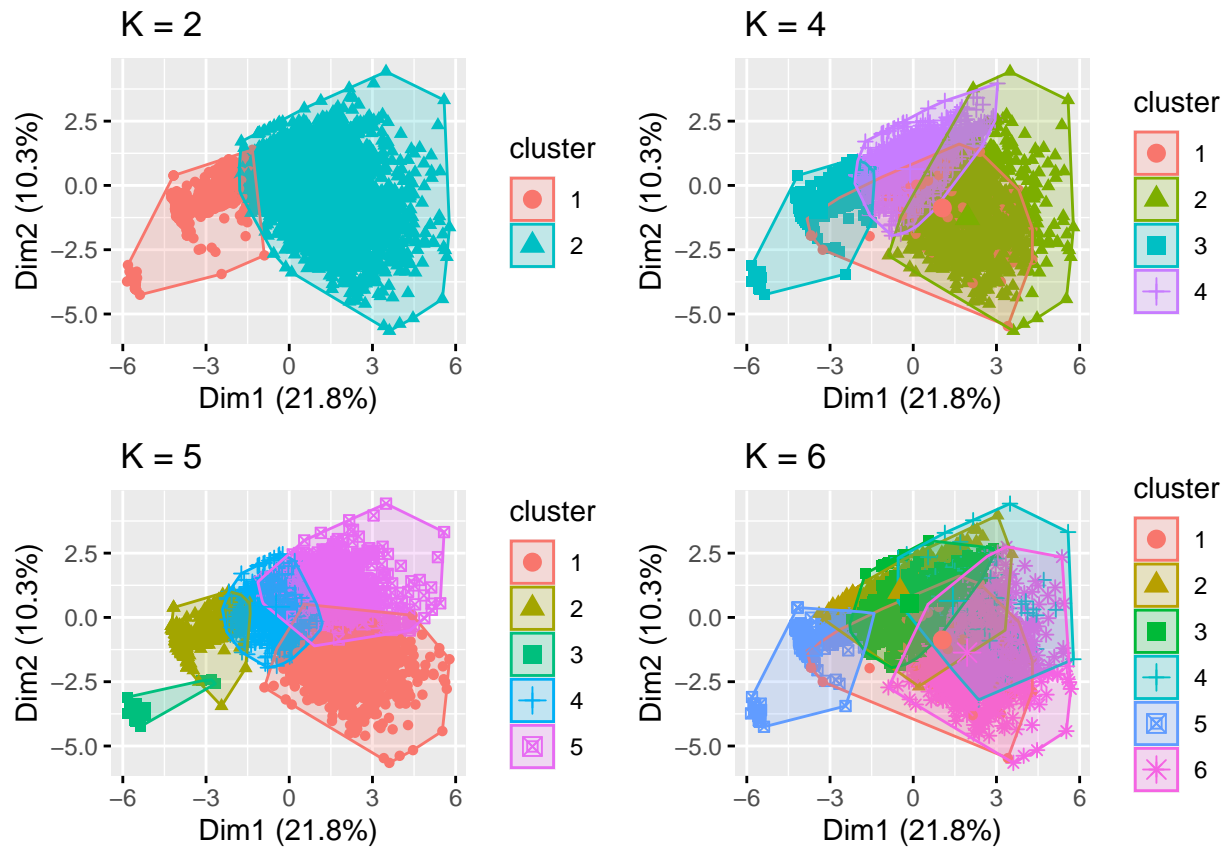
```
p1 <- fviz_cluster(X_K3, geom = "point", data = X_Norm) + ggtitle(" K = 2")
```

```
p2 <- fviz_cluster(X_K4, geom = "point", data = X_Norm) + ggtitle(" K = 4")
```

```
p3 <- fviz_cluster(X_K5, geom = "point", data = X_Norm) + ggtitle(" K = 5")
```

```
p4 <- fviz_cluster(X_K6, geom = "point", data = X_Norm) + ggtitle(" K = 6")
```

```
grid.arrange(p1, p2, p3, p4, nrow = 2)
```

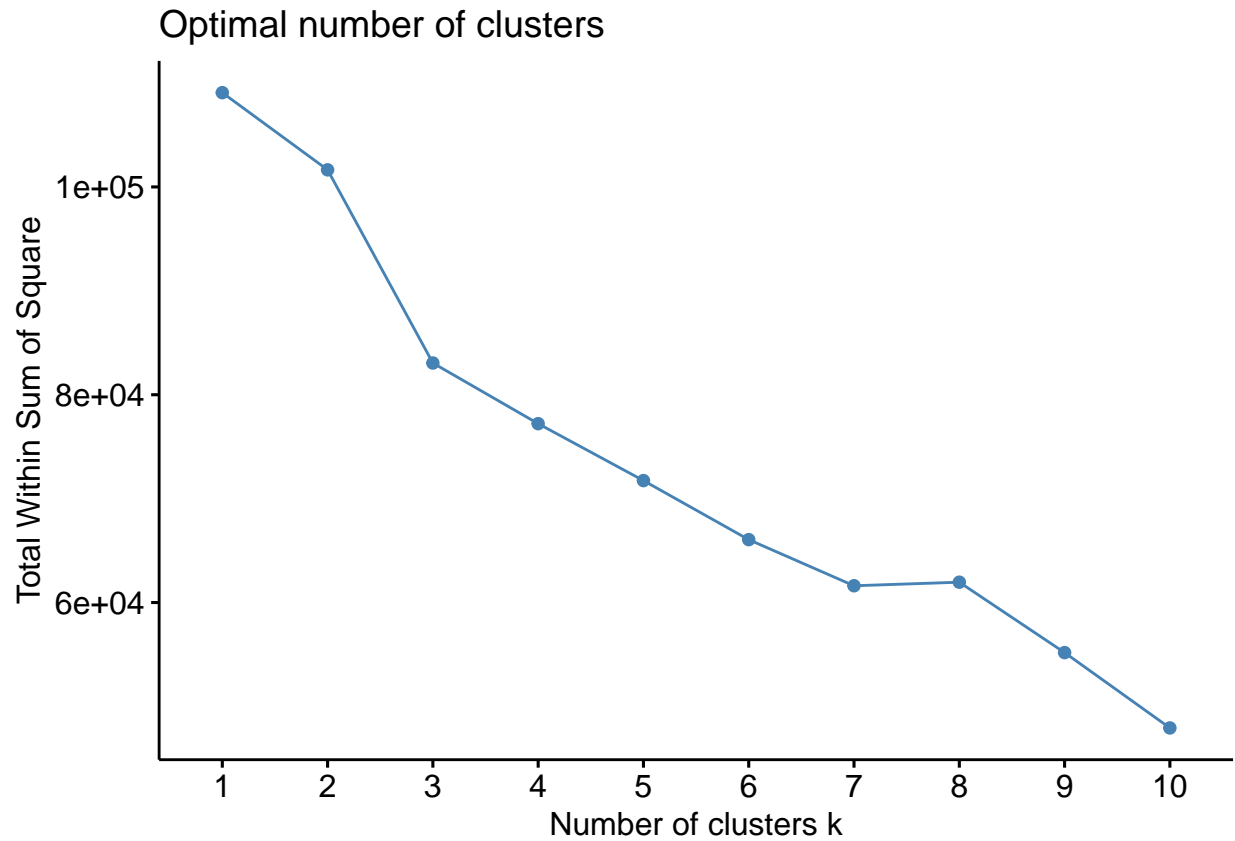


K = 2 is giving us a much better plot

Challenging the Solution

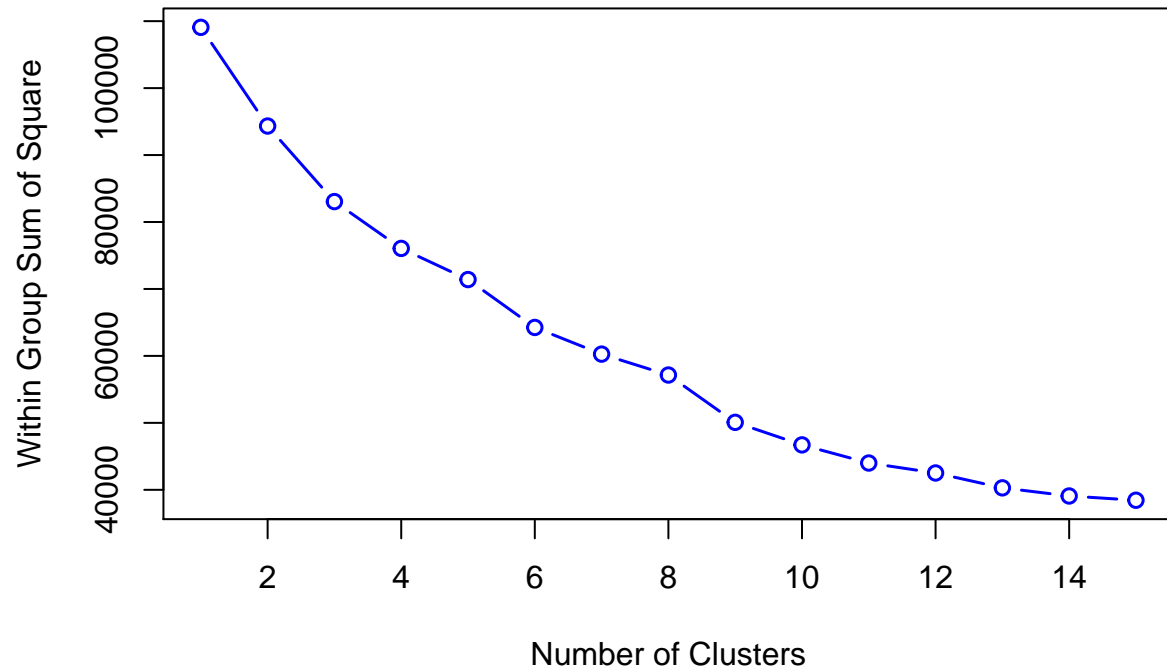
Determining Optimal Clusters

```
# Determining Optimal clusters (k) Using
# 1) Elbow method
fviz_nbclust(x = X_Norm, FUNcluster = kmeans, method = 'wss' )
```



```
wssplot <- function(data, nc = 15, set.seed = 1234){  
  wss <- (nrow(data) - 1)*sum(apply(data, 2, var))  
  for(i in 2:nc) {  
    set.seed(1234)  
    wss[i] <- sum(kmeans(x = data, centers = i, nstart = 25)$withinss)  
  }  
  plot(1:nc, wss, type = 'b', xlab = 'Number of Clusters', ylab = 'Within Group Sum of Square',  
       main = 'Elbow Method Plot to Find Optimal Number of Clusters', frame.plot = T,  
       col = 'blue', lwd = 1.5)  
}  
  
wssplot(X_Norm)
```

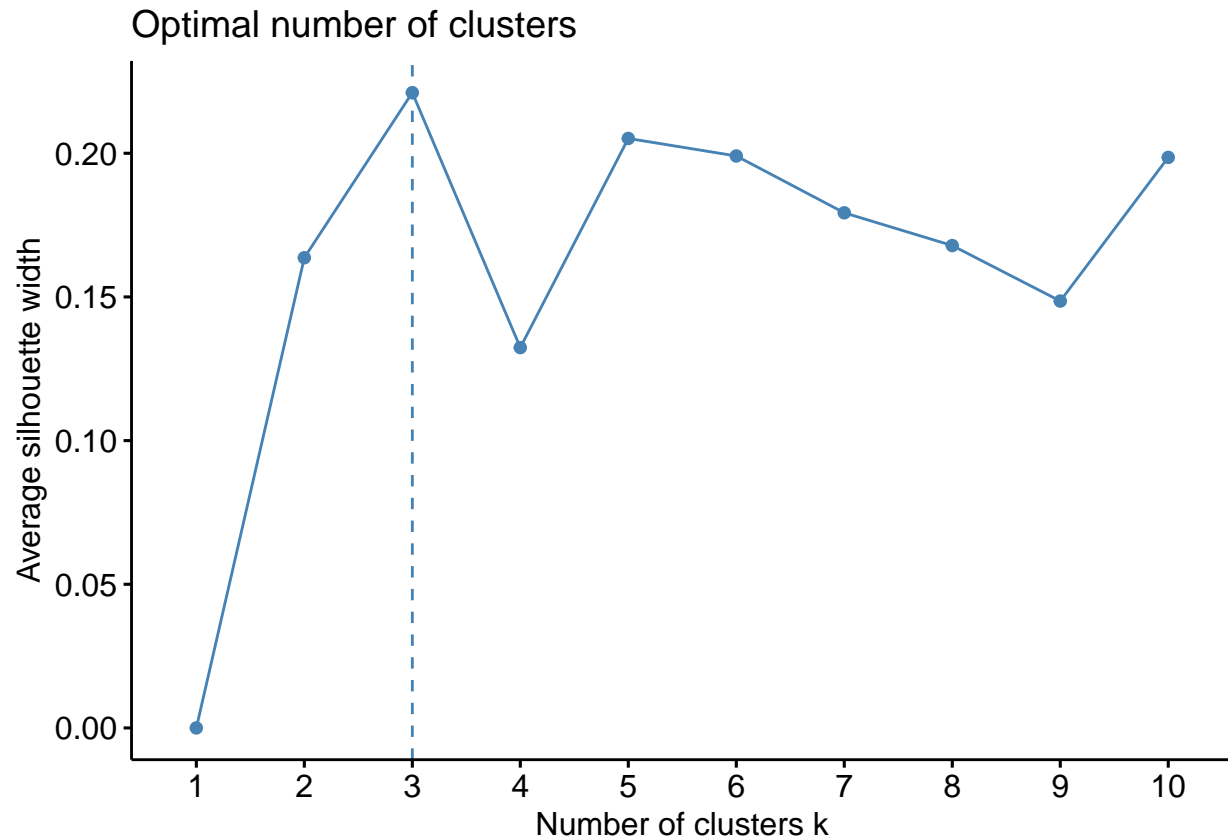
Elbow Method Plot to Find Optimal Number of Clusters



```
# Determining Optimal clusters (k) Using  
# 2) Average Silhouette Method
```

```
fviz_nbclust(x = X_Norm, FUNcluster = kmeans, method = 'silhouette' )
```

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 389600)
```



```
# Determining Optimal clusters (k) Using
# 3) Gap Statistic

# gap_stat <- clusGap(x = irisNorm, FUN = kmeans, K.max = 15, nstart = 25, B = 50 )

# plot the result to determine the optimal number of clusters.
# fviz_gap_stat(gap_stat)
```

The gap statistic did not work therefore I opted to go with the first two. The K means did not do a good job with clustering this data.

Conclusions

- 1) For the first 10 variables, most of the records taken lie within 0, even for ExitRates and ProductRelated as we can see below

For the columns, most records were taken between; 2) For the operating system, 1.5 - 2 3) For browser, 1 - 2 4) For region, 1 - 2 as well 5) For traffic type, it's also between 1 - 2 6) For exit rate, it is 0.00 - 0.002 7) For Product related, 0 - 10

- 8) The month that recorded the most numbers is May
- 9) For weekend, False also recorded the most numbers
- 10) For Revenue, False(0) recorded the most numbers
- 11) The visitor type that recorded the most numbers is returning visitor
- 12) As the product related duration increased the more product related pages. It has a direct proportional relationship

- 13) For both graphs, the red is dominating than the green indicating that false was the value that was most recorded when it came to both pages.