# cryptography adverts

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## 2/28/2020

### 1.1 Defining the Question

Identifing which individuals are most likely to click on her ads.

#### 1.2 The Context

A Kenyan entrepreneur has created an online cryptography course and would want to advertise it on her blog. She currently targets audiences originating from various countries. In the past, she ran ads to advertise a related course on the same blog and collected data in the process. She would now like to employ your services as a Data Science Consultant to help her identify which individuals are most likely to click on her ads

#### 1.3 Metrics for Success

Analysising the data to get the target audience.

#### 1.1.4 Experimental Design Taken

Loading the data Reading the data Data Cleaning Exploratory Data Analysis Conclusion

## 1.1.5 Appropriateness of the Data

Dataset link: link text The columns in the dataset are: Daily Time Spent on Site Age Area Income Daily Internet Usage Ad Topic Line City Male Country Timestamp Clicked on Ad

```
# Checking for the summary description of our data
summary(ads)
```

```
Daily.Time.Spent.on.Site
                                   Age
                                               Area.Income
                                                               Daily.Internet.Usage
                              Min.
                                     :19.00
                                                      :13996
                                                                       :104.8
##
   Min.
           :32.60
                                              Min.
                                                               Min.
##
   1st Qu.:51.36
                              1st Qu.:29.00
                                              1st Qu.:47032
                                                               1st Qu.:138.8
##
  Median :68.22
                              Median :35.00
                                              Median :57012
                                                               Median :183.1
   Mean
           :65.00
                              Mean
                                     :36.01
                                              Mean
                                                      :55000
                                                               Mean
                                                                      :180.0
    3rd Qu.:78.55
                              3rd Qu.:42.00
                                              3rd Qu.:65471
                                                               3rd Qu.:218.8
##
##
    Max.
           :91.43
                              Max.
                                     :61.00
                                              Max.
                                                      :79485
                                                               Max.
                                                                       :270.0
##
##
                                                                 City
                                     Ad.Topic.Line
##
    Adaptive 24hour Graphic Interface
                                            : 1
                                                    Lisamouth
    Adaptive asynchronous attitude
##
                                                    Williamsport
                                                                      3
                                               1
    Adaptive context-sensitive application :
                                                    Benjaminchester:
                                               1
    Adaptive contextually-based methodology:
##
                                               1
                                                    East John
    Adaptive demand-driven knowledgebase
                                               1
                                                    East Timothy
##
                                                                      2
##
    Adaptive uniform capability
                                             : 1
                                                    Johnstad
##
    (Other)
                                             :994
                                                    (Other)
                                                                   :986
##
         Male
                               Country
                                                                     Clicked.on.Ad
                                                         Timestamp
```

```
## Min. :0.000
                  Czech Republic: 9
                                     2016-01-01 02:52:10: 1
                                                             Min. :0.0
                         : 9
## 1st Qu.:0.000 France
                                     2016-01-01 03:35:35: 1
                                                             1st Qu.:0.0
                                                             Median:0.5
## Median: 0.000 Afghanistan: 8 2016-01-01 05:31:22: 1
                             : 8 2016-01-01 08:27:06: 1
## Mean
        :0.481
                  Australia
                                                             Mean
                                                                   :0.5
## 3rd Qu.:1.000 Cyprus
                              : 8
                                     2016-01-01 15:14:24: 1
                                                             3rd Qu.:1.0
## Max. :1.000
                  Greece
                              : 8
                                   2016-01-01 20:17:49: 1
                                                             Max.
                                                                    :1.0
##
                  (Other)
                              :950
                                     (Other)
# Checking the structure of our dataset
str(ads)
## 'data.frame':
                  1000 obs. of 10 variables:
   $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...
                           : int 35 31 26 29 35 23 33 48 30 20 ...
## $ Age
## $ Area.Income
                           : num 61834 68442 59786 54806 73890 ...
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...
## $ Ad.Topic.Line
                           : Factor w/ 1000 levels "Adaptive 24hour Graphic Interface",..: 92 465 56
```

## \$ Country : Factor w/ 237 levels "Afghanistan",..: 216 148 185 104 97 159 146 13 83 ## \$ Timestamp : Factor w/ 1000 levels "2016-01-01 02:52:10",..: 440 475 368 57 768 690

: Factor w/ 969 levels "Adamsbury", "Adamside",..: 962 904 112 940 806 283

## \$ Clicked.on.Ad : int 0 0 0 0 0 0 1 0 0 ...

## \$ City

## \$ Male

We have 1000 rows by 10 columns and most the datatypes have been given as numeric and factors.

```
## Cleaning our data

# Checking for missing values
# identifying missing data

is.na(ads)
```

: int 0 1 0 1 0 1 0 1 1 1 ...

```
##
                                       Age Area. Income Daily. Internet. Usage
           Daily.Time.Spent.on.Site
##
      [1,]
                               FALSE FALSE
                                                  FALSE
                                                                        FALSE
##
      [2,]
                                                  FALSE
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                               FALSE FALSE
##
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     [19,]
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##	[796,]	FALSE			FALSE	FALSE	FALSE
##	[797,]	FALSE			FALSE	FALSE	FALSE
##	[798,]	FALSE			FALSE	FALSE	FALSE
##	[799,]	FALSE			FALSE	FALSE	FALSE
##	[800,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

##	[801,]		FALSE		FALSE	FALSE	FALSE
##	[802,]		FALSE		FALSE	FALSE	FALSE
##	[803,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[804,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[805,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[806,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[807,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[808,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[809,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[810,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[811,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[812,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[813,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[814,]		FALSE		FALSE	FALSE	FALSE
##	[815,]		FALSE		FALSE	FALSE	FALSE
##	[816,]		FALSE		FALSE	FALSE	FALSE
##	[817,]		FALSE		FALSE	FALSE	FALSE
##	[818,]		FALSE		FALSE	FALSE	FALSE
##	[819,]		FALSE		FALSE	FALSE	FALSE
##	[820,]		FALSE		FALSE	FALSE	FALSE
##	[821,]		FALSE		FALSE	FALSE	FALSE
##	[822,]		FALSE		FALSE	FALSE	FALSE
##	[823,]		FALSE		FALSE	FALSE	FALSE
##	[824,]		FALSE		FALSE	FALSE	FALSE
##	[825,]		FALSE		FALSE	FALSE	FALSE
##	[826,]		FALSE		FALSE	FALSE	FALSE
##	[827,]		FALSE		FALSE	FALSE	FALSE
##	[828,]		FALSE		FALSE	FALSE	FALSE
##	[829,]		FALSE		FALSE	FALSE	FALSE
##	[830,]		FALSE		FALSE	FALSE	FALSE
##	[831,]		FALSE		FALSE	FALSE	FALSE
##	[832,]		FALSE		FALSE	FALSE	FALSE
##	[833,]		FALSE		FALSE	FALSE	FALSE
			FALSE		FALSE	FALSE	FALSE
##	[834,]		FALSE				FALSE
##	[835,]				FALSE	FALSE	FALSE
##	[836,]		FALSE		FALSE	FALSE	
##	[837,]		FALSE		FALSE	FALSE	FALSE
##	[838,]		FALSE		FALSE	FALSE	FALSE
##	[839,]		FALSE		FALSE	FALSE	FALSE
##	[840,]		FALSE		FALSE	FALSE	FALSE
##	[841,]		FALSE		FALSE	FALSE	FALSE
##	[842,]		FALSE		FALSE	FALSE	FALSE
##	[843,]		FALSE		FALSE	FALSE	FALSE
##	[844,]		FALSE		FALSE	FALSE	FALSE
##	[845,]		FALSE		FALSE	FALSE	FALSE
##	[846,]		FALSE		FALSE	FALSE	FALSE
##	[847,]		FALSE		FALSE	FALSE	FALSE
##	[848,]		FALSE		FALSE	FALSE	FALSE
##	[849,]		FALSE		FALSE	FALSE	FALSE
##	[850,]		FALSE		FALSE	FALSE	FALSE
##	[851,]		FALSE		FALSE	FALSE	FALSE
##	[852,]		FALSE		FALSE	FALSE	FALSE
##	[853,]		FALSE		FALSE	FALSE	FALSE
##	[854,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

##	[855,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[856,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[857,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[858,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[859,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[860,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[861,]	FALSE			FALSE	FALSE	FALSE
##	[862,]	FALSE			FALSE	FALSE	FALSE
##	[863,]	FALSE			FALSE	FALSE	FALSE
##	[864,]	FALSE			FALSE	FALSE	FALSE
##	[865,]	FALSE			FALSE	FALSE	FALSE
##	[866,]	FALSE			FALSE	FALSE	FALSE
##	[867,]	FALSE			FALSE	FALSE	FALSE
##	[868,]	FALSE			FALSE	FALSE	FALSE
	·						
##	[869,]	FALSE			FALSE	FALSE	FALSE
##	[870,]	FALSE			FALSE	FALSE	FALSE
##	[871,]	FALSE			FALSE	FALSE	FALSE
##	[872,]	FALSE			FALSE	FALSE	FALSE
##	[873,]	FALSE			FALSE	FALSE	FALSE
##	[874,]	FALSE			FALSE	FALSE	FALSE
##	[875,]	FALSE			FALSE	FALSE	FALSE
##	[876,]	FALSE			FALSE	FALSE	FALSE
##	[877,]	FALSE			FALSE	FALSE	FALSE
##	[878,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[879,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[880,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[881,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[882,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[883,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[884,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[885,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[886,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[887,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[888,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[889,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[890,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[891,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[892,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[893,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[894,]	FALSE			FALSE	FALSE	FALSE
##	[895,]	FALSE			FALSE	FALSE	FALSE
##	[896,]	FALSE			FALSE	FALSE	FALSE
##	[897,]	FALSE			FALSE	FALSE	FALSE
##	[898,]	FALSE			FALSE	FALSE	FALSE
##	[899,]	FALSE			FALSE	FALSE	FALSE
##	[900,]	FALSE			FALSE	FALSE	FALSE
##	[901,]	FALSE			FALSE	FALSE	FALSE
##	[901,]	FALSE			FALSE	FALSE	FALSE
	[903,]	FALSE					
##					FALSE	FALSE	FALSE
##	[904,]	FALSE			FALSE	FALSE	FALSE
##	[905,]	FALSE			FALSE	FALSE	FALSE
##	[906,]	FALSE			FALSE	FALSE	FALSE
##	[907,]	FALSE			FALSE	FALSE	FALSE
##	[908,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

##	[909,]		FALSE		FALSE	FALSE	FALSE
##	[910,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[911,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[912,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[913,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[914,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[915,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[916,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[917,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[918,]		FALSE		FALSE	FALSE	FALSE
##	[919,]		FALSE		FALSE	FALSE	FALSE
##	[920,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
##	[921,]		FALSE		FALSE	FALSE	FALSE
##	[922,]		FALSE		FALSE	FALSE	FALSE
##	[923,]		FALSE		FALSE	FALSE	FALSE
##	[924,]		FALSE		FALSE	FALSE	FALSE
##	[925,]		FALSE		FALSE	FALSE	FALSE
##	[926,]		FALSE		FALSE	FALSE	FALSE
##	[927,]		FALSE		FALSE	FALSE	FALSE
##	[928,]		FALSE		FALSE	FALSE	FALSE
##	[929,]		FALSE		FALSE	FALSE	FALSE
##	[930,]		FALSE		FALSE	FALSE	FALSE
##	[931,]		FALSE		FALSE	FALSE	FALSE
##	[931,]		FALSE		FALSE	FALSE	FALSE
##	[933,]		FALSE		FALSE	FALSE	FALSE
##	[934,]		FALSE		FALSE	FALSE	FALSE
##	[935,]		FALSE		FALSE	FALSE	FALSE
##	[936,]		FALSE		FALSE	FALSE	FALSE
			FALSE		FALSE	FALSE	FALSE
##	[937,]						
##	[938,]		FALSE		FALSE	FALSE	FALSE
##	[939,]		FALSE		FALSE	FALSE	FALSE
##	[940,]		FALSE		FALSE	FALSE	FALSE
##	[941,]		FALSE		FALSE	FALSE	FALSE
##	[942,]		FALSE		FALSE	FALSE	FALSE
##	[943,]		FALSE		FALSE	FALSE	FALSE
##	[944,]		FALSE		FALSE	FALSE	FALSE
##	[945,]		FALSE		FALSE	FALSE	FALSE
##	[946,]		FALSE		FALSE	FALSE	FALSE
##	[947,]		FALSE		FALSE	FALSE	FALSE
##	[948,]		FALSE		FALSE	FALSE	FALSE
##	[949,]		FALSE		FALSE	FALSE	FALSE
##	[950,]		FALSE		FALSE	FALSE	FALSE
##	[951,]		FALSE		FALSE	FALSE	FALSE
##	[952,]		FALSE		FALSE	FALSE	FALSE
##	[953,]		FALSE		FALSE	FALSE	FALSE
##	[954,]		FALSE		FALSE	FALSE	FALSE
##	[955,]		FALSE		FALSE	FALSE	FALSE
##	[956,]		FALSE		FALSE	FALSE	FALSE
##	[957,]		FALSE		FALSE	FALSE	FALSE
##	[958,]		FALSE		FALSE	FALSE	FALSE
##	[959,]		FALSE		FALSE	FALSE	FALSE
##	[960,]		FALSE		FALSE	FALSE	FALSE
##	[961,]		FALSE		FALSE	FALSE	FALSE
##	[962,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

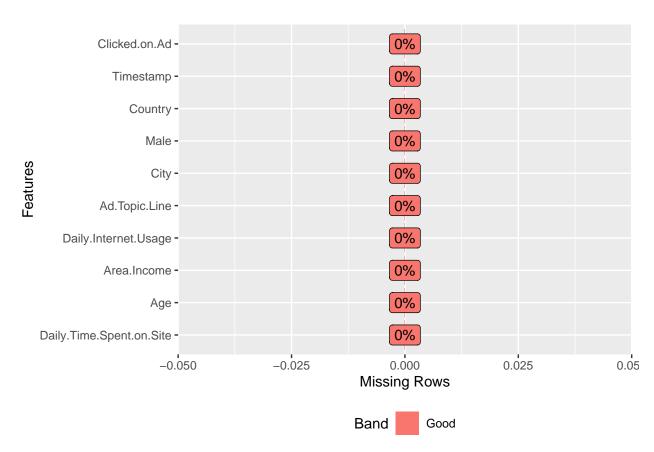
```
##
    [963,]
                    FALSE FALSE FALSE
                                          FALSE
                                                    FALSE
                                                                   FALSE
##
    [964,]
                    FALSE FALSE FALSE
                                         FALSE
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##
    [965,]
                    FALSE FALSE FALSE
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##
    [966,]
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    [967,]
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    [969,]
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    [986.]
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##
                    FALSE FALSE FALSE
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    [988,]
                    FALSE FALSE FALSE
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##
    [989,]
                    FALSE FALSE FALSE
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    [990,]
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##
                    FALSE FALSE FALSE
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    [991,]
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    [992,]
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    [993,]
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    [994,]
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##
    [995,]
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    [996,]
                    FALSE FALSE FALSE
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##
    [997,]
                    FALSE FALSE FALSE
                                          FALSE
                                                    FALSE
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##
    [998,]
                    FALSE FALSE FALSE
                                         FALSE
                                                    FALSE
                                                                   FALSE
##
    [999,]
                    FALSE FALSE FALSE
                                          FALSE
                                                    FALSE
                                                                   FALSE
## [1000,]
                    FALSE FALSE FALSE
                                         FALSE
                                                    FALSE
                                                                   FALSE
```

# # checking for total missing values

colSums(is.na(ads))

```
## Daily.Time.Spent.on.Site
                                                                        Area.Income
                                                      Age
##
                                                        0
                                                                                   0
##
       Daily.Internet.Usage
                                           Ad.Topic.Line
                                                                                City
##
                                                                                   0
                            0
##
                         Male
                                                 Country
                                                                           Timestamp
##
                            0
                                                                                   0
                                                        0
##
               Clicked.on.Ad
##
```

```
# visuals for missing data
library(DataExplorer)
plot_missing(ads)
```



We can see that we don't have missing values in our data. So there will be no need for cleaning on missing values

#### ## [1] 0

There are no duplicated values in our dataest

```
# changing the column name male to gender

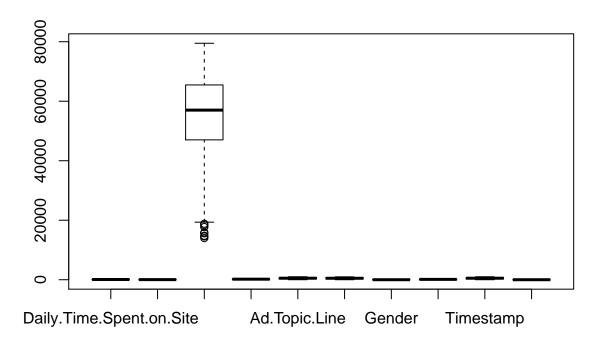
colnames(ads)[colnames(ads) == 'Male'] = 'Gender'

levels(ads$Gender) = c('Female' , 'Male')

## Checking for outliers

# Plot a boxplot to help us visualise any existing outliers

boxplot(ads)
```



We can note that there are outliers in the column area income. Lets go ahead and list the outliers below.

```
# listing the outliers in the vectors
boxplot.stats(ads$Area.Income)$out

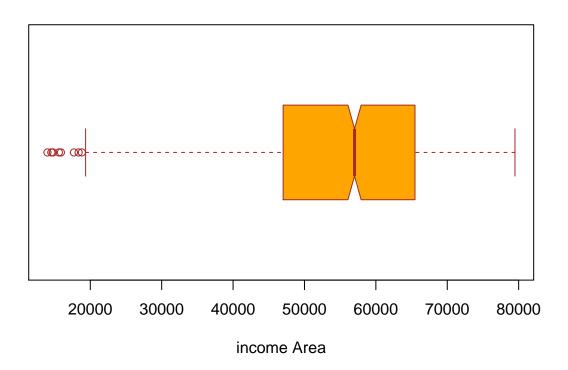
## [1] 17709.98 18819.34 15598.29 15879.10 14548.06 13996.50 14775.50 18368.57

# plotting a boxplot for the area income outliers

boxplot(ads$Area.Income,
main = "Area Income Boxplot",
xlab = "income Area",
```

```
col = "orange",
border = "brown",
horizontal = TRUE,
notch = TRUE
)
```

## **Area Income Boxplot**



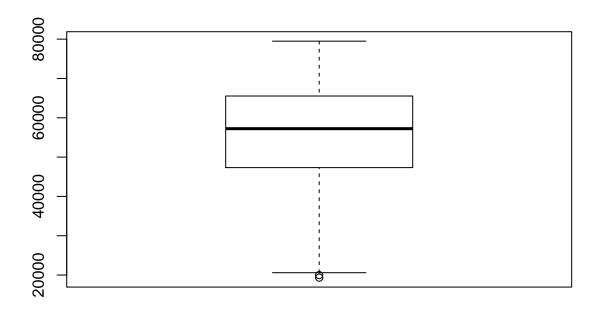
```
# Handling the outliers in the area income variable.
# we store the outliers in a variable outliers.

outliers = boxplot.stats(ads$Area.Income)$out

# This vector is to be excluded from our dataset
# The which() function tells us the rows in which the outliers exist,
# These rows will be removed from our data set.
# The dataset advertising will be stored in a new variable so as not to destroy dataset

new_ads = ads
new_ads = new_ads[-which(new_ads$Area.Income %in% outliers),]

# Checking if the new data frame has outliers.
# boxplot(new_ads $ Area.Income)
```



The outliers have been deleted.

EDA

# univariate Analysis

# Measures of central tendency

# getting the mean

```
# getting the mean for the numerical columns

# Daily.Time.Spent
ads.mean <- mean(new_ads$Daily.Time.Spent.on.Site)
ads.mean

## [1] 65.03979

## the daily time spent mean is 65.03979

# Age
ads.mean <- mean(new_ads$Age)
ads.mean</pre>
```

```
## [1] 35.98286
## the age mean is 35.98286
# Areas.Income
ads.mean <- mean(new_ads$Area.Income)</pre>
ads.mean
## [1] 55312.81
## the areas income mean is 55312.81
# Daily.Internet
ads.mean <- mean(new_ads$Daily.Internet.Usage)</pre>
ads.mean
## [1] 179.985
## the daily internet mean is 179.985
# getting the median for the numerical columns
# Daily.Time.Spent
ads.median <- median(new_ads$Daily.Time.Spent.on.Site)</pre>
ads.median
## [1] 68.39
## the daily time spent median is 68.39
# Age
ads.median <- median(new_ads$Age)</pre>
ads.median
## [1] 35
## the age median is 35
# Areas.Income
ads.median <- median(new_ads$Area.Income)</pre>
ads.median
## [1] 57228.18
## the areas income median is 57228.18
# Daily.Internet
ads.median <- median(new_ads$Daily.Internet.Usage)</pre>
ads.median
```

## [1] 183.425

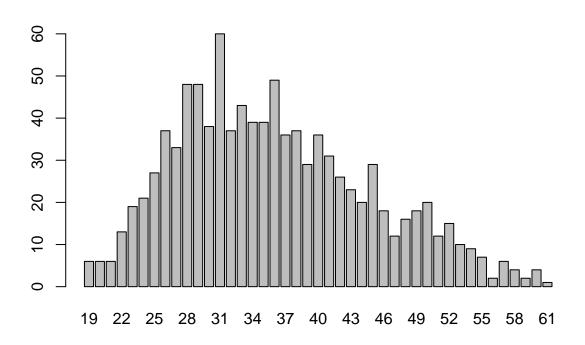
```
## the daily internet median is 183.425
# creating a function that perform the mode operation
getmode <- function(v) {</pre>
   uniqv <- unique(v)</pre>
   uniqv[which.max(tabulate(match(v, uniqv)))]
# getting the median for the numerical columns
# Daily.Time.Spent
ads.mode <- getmode(new_ads$Daily.Time.Spent.on.Site)</pre>
## [1] 62.26
## the daily time spent mode is 62.26
# Age
ads.mode <- getmode(new_ads$Age)</pre>
ads.mode
## [1] 31
## the age mode is 31
# Areas.Income
ads.mode <- getmode(new_ads$Area.Income)</pre>
ads.mode
## [1] 61833.9
## the areas income mode is 61833.9
# Daily.Internet
ads.mode <- getmode(new_ads$Daily.Internet.Usage)</pre>
ads.mode
## [1] 167.22
## the daily internet mode is 167.22
# getting the range for the numerical columns
# Daily.Time.Spent
ads.range <- range(new_ads$Daily.Time.Spent.on.Site)</pre>
ads.range
```

## [1] 32.60 91.43

```
## the daily time spent ranges between 32.60 and 91.43
# Age
ads.range <- range(new_ads$Age)</pre>
ads.range
## [1] 19 61
## the age ranges between 19 and 61
# Areas.Income
ads.range <- range(new_ads$Area.Income)</pre>
ads.range
## [1] 19345.36 79484.80
## the areas income ranges between 19345.36 and 79484.80
# Daily.Internet
ads.range <- range(new_ads$Daily.Internet.Usage)</pre>
ads.range
## [1] 104.78 269.96
## the daily internet ranges between 104.78 and 269.96
# getting the quantile ranges for the numerical columns
# Daily.Time.Spent
ads.quantile <- quantile(new_ads$Daily.Time.Spent.on.Site)</pre>
ads.quantile
       0%
             25%
                    50%
                            75%
                                  100%
##
## 32.600 51.285 68.390 78.585 91.430
## the min ,25th quantile, 50th quantile, 75th quantile and max values for daily time spent are 32.600,
# Age
ads.quantile <- quantile(new_ads$Age)</pre>
ads.quantile
     0% 25% 50% 75% 100%
##
     19
        29
              35
                   42
                          61
## ## the min ,25th quantile, 50th quantile, 75th quantile and max values for age are 19, 29, 35,
                                                                                                        42,
# Areas.Income
ads.quantile <- quantile(new_ads$Area.Income)</pre>
ads.quantile
```

```
##
                  25%
                           50%
                                     75%
                                             100%
## 19345.36 47332.82 57228.18 65518.96 79484.80
## ## the min ,25th quantile, 50th quantile, 75th quantile and max values for areas income are 19345.36
# Daily.Internet
ads.quantile <- quantile(new_ads$Daily.Internet.Usage)</pre>
ads.quantile
##
         0%
                  25%
                           50%
                                     75%
                                             100%
## 104.7800 138.6475 183.4250 218.8425 269.9600
## ## the min ,25th quantile, 50th quantile, 75th quantile and max values for daily internet are 104.78
The variance is a numerical measure of how the data values is dispersed around the mean.
# getting the variance for the numerical columns
# Daily.Time.Spent
ads.var <- var(new_ads$Daily.Time.Spent.on.Site)</pre>
ads.var
## [1] 252.8609
## the daily time spent variance is 252.8609
# Age
ads.var <- var(new_ads$Age)</pre>
ads.var
## [1] 77.45379
## the age variance is 77.45379
# Areas. Income
ads.var <- var(new_ads$Area.Income)</pre>
ads.var
## [1] 169137582
## the areas income variance is 169137582
# Daily.Internet
ads.var <- var(new_ads$Daily.Internet.Usage)</pre>
ads.var
## [1] 1938.785
```

```
## the daily internet variance is 1938.785
# Creating bar graphs
# Fetching the age column
Age <- new_ads$Age
# Applying the table() function will compute the frequency distribution of the Age variable
# ---
age_freq <- table(Age)</pre>
age_freq
## Age
## 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
  6 6 6 13 19 21 27 37 33 48 48 38 60 37 43 39 39 49 36 37 29 36 31 26 23 20
## 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61
## 29 18 12 16 18 20 12 15 10
                              9
                                 7
                                     2
                                        6
# Applying the barplot function to produce its bar graph
barplot(age_freq)
```



We can see that ages between 27 and 35 had the highest frequency from the bargraph. The ads should mostly be targeted to this age category of individuals.

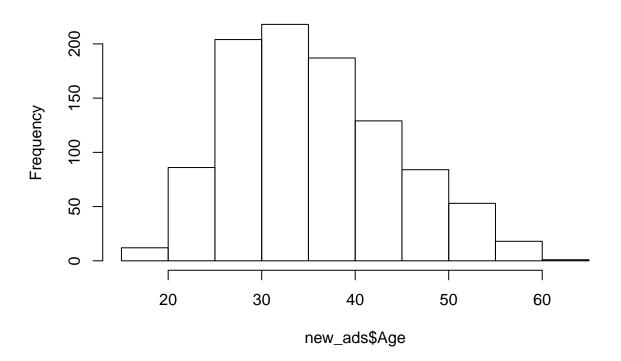
From this, we can also tell that our data is skewed to the right.

```
# A histogram shows the frequency distribution of a quantitative variable. The area of each bar is equal # We will go ahead and create a histogram.

# We will apply the hist() function to the age variable

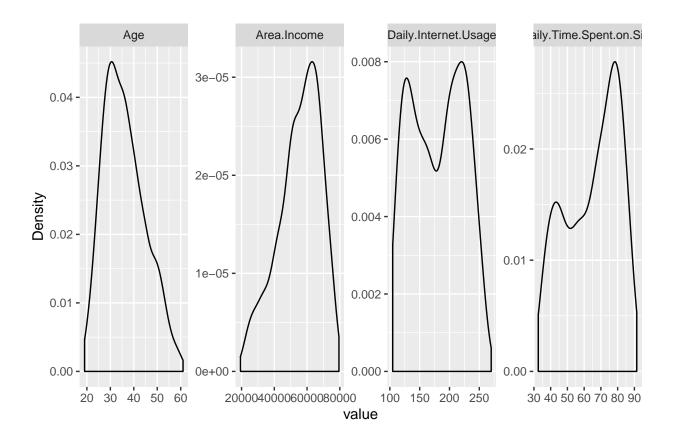
hist(new_ads$Age)
```

## Histogram of new\_ads\$Age



We get to see the same frequency distribution. Highest frequency is between ages 25 and 40. We also note the positive skewness in the histogram.

```
# plotting a density plot for ur numerical values
library(DataExplorer)
plot_density(new_ads)
```



From the density plots, we see that Age has a positive skew meaning more young people click on ads as compared to older people. Income has a negative skew. Most people have high incomes as compared to those with low incomes. Daily internet usgae is more of a binormail distribution. Daily time spent on site is also more of a negative skew. Most people spend around 80 minutes on the site.

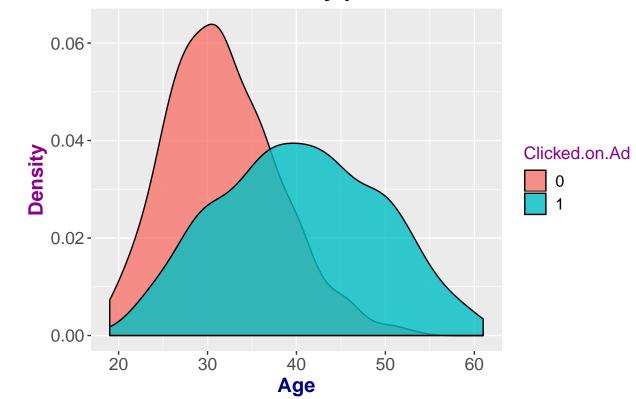
```
install.packages("ggplot2")
## Installing package into '/home/lydia/R/x86_64-pc-linux-gnu-library/3.6'
```

## (as 'lib' is unspecified)

#### library(ggplot2)

plot(p1)

# Clicked on ad density plot



Most young people clicked on ads this is shown by the pink density plot. From the blue denity plot, we acn tell that older people do not click on ads as often.

### Bivariate Analysis.

### Covariance

Covariance is a statistical representation of the degree to which two variables vary together.

```
# We will look at Age vs daily time spent on site

# Assigning the Age column to the variable age
# ---
# Age <- new_ads$Age

# Assigning the daily time spent on site column to the variable time
# ---
# Time <- new_ads$Daily.Time.Spent.on.Site</pre>
```

```
# Using the cov() function to determine the covariance
# ---
#
cov(Age, Time)
```

#### ## [1] -46.5009

The covariance of Age and daily time spent on site is -46.5009. It indicates a negative linear relationship between the two variables.

```
# We will look at Age vs income area

# Assigning the Age column to the variable age
# ---
# Age <- new_ads$Age

# Assigning the income area column to the variable income
# ---
# Income <- new_ads$Area.Income

# Using the cov() function to determine the covariance
# ---
# cov(Age, Income)</pre>
```

### ## [1] -20614.92

The covariance of Age and income ares is -20614.92. It indicates a negative linear relationship between the two variables.

```
# We will look at Age vs daily internet

# Assigning the Age column to the variable age
# ---
# Age <- new_ads$Age

# Assigning the daily internet column to the variable internet
# ---
# Internet <- new_ads$Daily.Internet.Usage

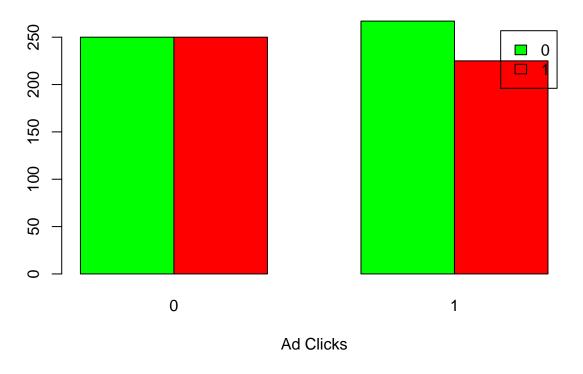
# Using the cov() function to determine the covariance
# ---
# cov(Age, Internet)</pre>
```

```
## [1] -142.5798
```

The covariance of Age and internet usage is -142.5798. It indicates a negative linear relationship between the two variables.

```
# Grouped Bar Plot
counts = table( new_ads$Gender, new_ads$Clicked.on.Ad)
barplot(counts, main="number of Clicks on an Ad as per each sex, 0=Female, 1=male",
xlab="Ad Clicks", col=c("green", "red"),
legend = rownames(counts), beside=TRUE)
```

## number of Clicks on an Ad as per each sex, 0=Female, 1=male



Females clicked on the ads more than the males.

#### Correlation Coefficient

The correlation coefficient of two variables in a data set equals to their covariance divided by the product of their individual standard deviations.

```
# getting the correlation matrix for our numerical columns

X = subset(new_ads, select = c("Daily.Time.Spent.on.Site", "Age", "Area.Income", "Daily.Internet.Usage"
X
```

```
##
       Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1
                           68.95 35
                                        61833.90
                                                                256.09
                                                                193.77
## 2
                           80.23 31
                                        68441.85
                           69.47
## 3
                                  26
                                        59785.94
                                                                236.50
## 4
                           74.15
                                  29
                                        54806.18
                                                                245.89
                                        73889.99
## 5
                           68.37
                                  35
                                                                225.58
```

##	6	59.99	23	59761.56	226.74
##	7	88.91	33	53852.85	208.36
##	8	66.00	48	24593.33	131.76
##	9	74.53	30	68862.00	221.51
##	10	69.88	20	55642.32	183.82
##	11	47.64	49	45632.51	122.02
##	12	83.07	37	62491.01	230.87
##	13	69.57	48	51636.92	113.12
##	14	79.52	24	51739.63	214.23
##	15	42.95	33	30976.00	143.56
##	16	63.45	23	52182.23	140.64
##	17	55.39	37	23936.86	129.41
##	18	82.03	41	71511.08	187.53
##	19	54.70	36	31087.54	118.39
##	20	74.58	40	23821.72	135.51
##	21	77.22	30	64802.33	224.44
##	22	84.59	35	60015.57	226.54
##	23	41.49	52	32635.70	164.83
##	24	87.29	36	61628.72	209.93
##	25	41.39	41	68962.32	167.22
##	26	78.74	28	64828.00	204.79
##	27	48.53	28	38067.08	134.14
##	28	51.95	52	58295.82	129.23
##	29	70.20	34	32708.94	119.20
##	30	76.02	22	46179.97	209.82
##	31	67.64	35	51473.28	267.01
##	32	86.41	28	45593.93	207.48
##	33	59.05	57	25583.29	169.23
##	34	55.60	23	30227.98	212.58
##		57.64	57	45580.92	133.81
	36	84.37	30	61389.50	201.58
##		62.26	53	56770.79	125.45
##		65.82	39	76435.30	221.94
##		50.43	46	57425.87	119.32
##		38.93	39	27508.41	162.08
##		84.98	29	57691.95	202.61
##		64.24	30	59784.18	252.36
##		82.52	32	66572.39	198.11
##		81.38	31	64929.61	212.30
##		80.47	25	57519.64	204.86
##		37.68	52	53575.48	172.83
##		69.62	20	50983.75	202.25
##		85.40	43	67058.72	198.72
##		44.33	37	52723.34	123.72
##		48.01	46	54286.10	119.93
##		73.18	23	61526.25	196.71
##		79.94	28	58526.04	225.29
##		33.33	45	53350.11	193.58
##		50.33	50	62657.53	133.20
##		62.31	47	62722.57	119.30
##		80.60	31	67479.62	177.55
##		65.19	36	75254.88	150.61
##		44.98	49	52336.64	129.31
##	59	77.63	29	56113.37	239.22

##	60	41.82	41	24852.90	156.36
##	61	85.61	27	47708.42	183.43
##	62	85.84	34	64654.66	192.93
##	63	72.08	29	71228.44	169.50
##	64	86.06	32	61601.05	178.92
##	65	45.96	45	66281.46	141.22
##	66	62.42	29	73910.90	198.50
##	67	63.89	40	51317.33	105.22
##	68	35.33	32	51510.18	200.22
##	69	75.74	25	61005.87	215.25
	70	78.53	34	32536.98	131.72
##	71	46.13	31	60248.97	139.01
##	72	69.01	46	74543.81	222.63
	73	55.35	39	75509.61	153.17
	74	33.21	43	42650.32	167.07
	75	38.46	42	58183.04	145.98
	76	64.10	22	60465.72	215.93
	77	49.81	35	57009.76	120.06
	78	82.73	33	54541.56	238.99
	79	56.14	38	32689.04	113.53
##		55.13	45	55605.92	111.71
##		78.11	27	63296.87	209.25
##		73.46	28	65653.47	222.75
##		56.64	38	61652.53	115.91
##		68.94	54	30726.26	138.71
## ##	86	70.79	31	74535.94	184.10
	87	57.76 77.51	41 36	47861.93 73600.28	105.15 200.55
	88	52.70	34	58543.94	118.60
##		57.70	34	42696.67	109.07
	90	56.89	37	37334.78	109.29
##	91	69.90	43	71392.53	138.35
##	92	55.79	24	59550.05	149.67
	93	70.03	26	64264.25	227.72
	94	50.08	40	64147.86	125.85
##	95	43.67	31	25686.34	166.29
	96	72.84	26	52968.22	238.63
##	97	45.72	36	22473.08	154.02
##		39.94	41	64927.19	156.30
##	99	35.61	46	51868.85	158.22
##	100	79.71	34	69456.83	211.65
##	101	41.49	53	31947.65	169.18
##	102	63.60	23	51864.77	235.28
##	103	89.91	40	59593.56	194.23
##	104	68.18	21	48376.14	218.17
##	105	66.49	20	56884.74	202.16
##	106	80.49	40	67186.54	229.12
##	107	72.23	25	46557.92	241.03
	108	42.39	42	66541.05	150.99
	109	47.53	30	33258.09	135.18
	110	74.02	32	72272.90	210.54
	111	66.63	60	60333.38	176.98
	112	63.24	53	65229.13	235.78
##	113	71.00	22	56067.38	211.87

##	114	46.13	46	37838.72	123.64
##	115	69.00	32	72683.35	221.21
##	116	76.99	31	56729.78	244.34
##	117	72.60	55	66815.54	162.95
##	118	61.88	42	60223.52	112.19
##	119	84.45	50	29727.79	207.18
##	120	88.97	45	49269.98	152.49
##	121	86.19	31	57669.41	210.26
	122	49.58	26	56791.75	231.94
	123	77.65	27	63274.88	212.79
	124	37.75	36	35466.80	225.24
	125	62.33	43	68787.09	127.11
	126	79.57	31	61227.59	230.93
	127	80.31	44	56366.88	127.07
	128	89.05	45	57868.44	206.98
	129	70.41	27	66618.21	223.03
	130	67.36	37	73104.47	233.56
	131	46.98	50	21644.91	175.37
	132	41.67	36	53817.02	132.55
	133	51.24	36	76368.31 67633.44	176.73
	134 135	75.70 43.49	29 47	50335.46	215.44 127.83
	137	38.37	36	41229.16	140.46
	138	38.52	38	42581.23	137.28
	139	71.89	23	61617.98	172.81
	140	75.80	38	70575.60	146.19
	141	83.86	31	64122.36	190.25
	142	37.51	30	52097.32	163.00
	143	55.60	44	65953.76	124.38
	144	83.67	44	60192.72	234.26
##	145	69.08	41	77460.07	210.60
##	146	37.47	44	45716.48	141.89
##	147	56.04	49	65120.86	128.95
##	148	70.92	41	49995.63	108.16
##	149	49.78	46	71718.51	152.24
##	150	68.61	57	61770.34	150.29
	151	58.18	25	69112.84	176.28
	152	78.54	35	72524.86	172.10
	153	37.00	48	36782.38	158.22
	154	65.40	33	66699.12	247.31
	155	79.52	27	64287.78	183.48
	156	87.98	38	56637.59	222.11
	157	44.64	36	55787.58	127.01
	158	41.73	28	61142.33	202.18
	159	80.46	27	61625.87	207.96
	160	75.55	36	73234.87	159.24
	161 162	76.32 82.68	35 33	74166.24 62669.59	195.31 222.77
	163	72.01	31	57756.89	251.00
	164	75.83	24	58019.64	162.44
	165	41.28	50	50960.08	140.39
	166	34.66	32	48246.60	194.83
	167	66.18	55	28271.84	143.42
	168	86.06	31	53767.12	219.72
					· · · ·

##	169	59.59	42	43662.10	104.78
##	170	86.69	34	62238.58	198.56
##	171	43.77	52	49030.03	138.55
##	172	71.84	47	76003.47	199.79
##	173	80.23	31	68094.85	196.23
##	174	74.41	26	64395.85	163.05
##	175	63.36	48	70053.27	137.43
##	176	71.74	35	72423.97	227.56
##	177	60.72	44	42995.80	105.69
##	178	72.04	22	60309.58	199.43
##	179	44.57	31	38349.78	133.17
##	180	85.86	34	63115.34	208.23
##	181	39.85	38	31343.39	145.96
##	182	84.53	27	40763.13	168.34
##	183	62.95	60	36752.24	157.04
##	184	67.58	41	65044.59	255.61
##	185	85.56	29	53673.08	210.46
##	186	46.88	54	43444.86	136.64
##	187	46.31	57	44248.52	153.98
##	188	77.95	31	62572.88	233.65
##	189	84.73	30	39840.55	153.76
##	190	39.86	36	32593.59	145.85
##	191	50.08	30	41629.86	123.91
##	192	60.23	35	43313.73	106.86
##	193	60.70	49	42993.48	110.57
##	194	43.67	53	46004.31	143.79
##	195	77.20	33	49325.48	254.05
##	196	71.86	32	51633.34	116.53
##	197	44.78	45	63363.04	137.24
##	198	78.57	36	64045.93	239.32
##	199	73.41	31	73049.30	201.26
##	200	77.05	27	66624.60	191.14
##	201	66.40	40	77567.85	214.42
##	202	69.35	29	53431.35	252.77
##	203	35.65	40	31265.75	172.58
##	204	70.04	31	74780.74	183.85
##	205	69.78	29	70410.11	218.79
##	206	58.22	29	37345.24	120.90
##	207	76.90	28	66107.84	212.67
##	208	84.08	30	62336.39	187.36
##	209	59.51	58	39132.64	140.83
##	210	40.15	38	38745.29	134.88
##	211	76.81	28	65172.22	217.85
##	212	41.89	38	68519.96	163.38
##	213	76.87	27	54774.77	235.35
##	214	67.28	43	76246.96	155.80
	215	81.98	40	65461.92	229.22
##	216	66.01	23	34127.21	151.95
	217	61.57	53	35253.98	125.94
##	218	53.30	34	44893.71	111.94
	219	34.87	40	59621.02	200.23
	220	43.60	38	20856.54	170.49
##	221	77.88	37	55353.41	254.57
##	222	75.83	27	67516.07	200.59

##	223	49.95	39	68737.75	136.59
##	224	60.94	41	76893.84	154.97
##	225	89.15	42	59886.58	171.07
##	226	78.70	30	53441.69	133.99
##	227	57.35	29	41356.31	119.84
##	228	34.86	38	49942.66	154.75
##	229	70.68	31	74430.08	199.08
##	230	76.06	23	58633.63	201.04
	231	66.67	33	72707.87	228.03
	232	46.77	32	31092.93	136.40
	233	62.42	38	74445.18	143.94
##	234	78.32	28	49309.14	239.52
##	235	37.32	50	56735.14	199.25
##	236	40.42	45	40183.75	133.90
##	237	76.77	36	58348.41	123.51
##	238	65.65	30	72209.99	158.05
	239	74.32	33	62060.11	128.17
	240	73.27	32	67113.46	234.75
	241	80.03	44	24030.06	150.84
	242	53.68	47	56180.93	115.26
	243	85.84	32	62204.93	192.85
	244	85.03	30	60372.64	204.52
	245	70.44	24	65280.16	178.75
	246	81.22	53	34309.24	223.09
	247	39.96	45	59610.81	146.13
	248	57.05	41	50278.89	269.96
	249	42.44	56	43450.11	168.27
	250	62.20	25	25408.21	161.16
	251	76.70	36	71136.49	222.25
	252	61.22	45	63883.81	119.03
	253	84.54	33	64902.47	204.02
	254	46.08	30	66784.81	164.63
	255	56.70	48	62784.85	123.13
	256	81.03	28	63727.50	201.15
	257	80.91	32	61608.23	231.42
	258	40.06	38	56782.18	138.68
	259	83.47	39	64447.77	226.11
	260	73.84	31	42042.95	121.05
	261	74.65	28	67669.06	212.56
	262	60.25	35	54875.95	109.77
	263	59.21	35	73347.67	144.62
	264	43.02	44	50199.77	125.22
	265	84.04	38	50723.67	244.55
	266	70.66	43	63450.96	120.95
	267	70.58	26	56694.12	136.94
	268	72.44	34	70547.16	230.14
	269	40.17	26	47391.95	171.31
	270	79.15	26 52	62312.23	203.23
	271	44.49	53	63100.13	168.00
	272	73.04	37	73687.50	221.79
	<ul><li>273</li><li>274</li></ul>	76.28 68.88	33 37	52686.47 78119.50	254.34 179.58
	275	73.10	28	57014.84	242.37
	276	47.66	29	27086.40	156.54
##	210	Ŧ1.00	23	21000.40	100.04

##	277	87.30	35	58337.18	216.87
##	278	89.34	32	50216.01	177.78
##	279	81.37	26	53049.44	156.48
##	280	81.67	28	62927.96	196.76
##	281	46.37	52	32847.53	144.27
##	282	54.88	24	32006.82	148.61
##	283	40.67	35	48913.07	133.18
##	284	71.76	35	69285.69	237.39
##	285	47.51	51	53700.57	130.41
##	286	75.15	22	52011.00	212.87
##	287	56.01	26	46339.25	127.26
##	288	82.87	37	67938.77	213.36
##	289	45.05	42	66348.95	141.36
##	290	60.53	24	66873.90	167.22
##	291	50.52	31	72270.88	171.62
##	292	84.71	32	61610.05	210.23
##	293	55.20	39	76560.59	159.46
##	294	81.61	33	62667.51	228.76
##	295	71.55	36	75687.46	163.99
##	296	82.40	36	66744.65	218.97
##	297	73.95	35	67714.82	238.58
##	298	72.07	31	69710.51	226.45
##	299	80.39	31	66269.49	214.74
##	300	65.80	25	60843.32	231.49
##	301	69.97	28	55041.60	250.00
##	302	52.62	50	73863.25	176.52
##	303	39.25	39	62378.05	152.36
##	304	77.56	38	63336.85	130.83
##	305	33.52	43	42191.61	165.56
##	306	79.81	24	56194.56	178.85
##	307	84.79	33	61771.90	214.53
##	308	82.70	35	61383.79	231.07
##	309	84.88	32	63924.82	186.48
##	310	54.92	54	23975.35	161.16
	311	76.56	34	70179.11	221.53
##	312	69.74	49	66524.80	243.37
##	313	75.55	22	41851.38	169.40
##	314	72.19	33	61275.18	250.35
	315	84.29	41	60638.38	232.54
	316	73.89	39	47160.53	110.68
##	317	75.84	21	48537.18	186.98
##	318	73.38	25	53058.91	236.19
	319	80.72	31	68614.98	186.37
	320	62.06	44	44174.25	105.00
	321	51.50	34	67050.16	135.31
	322	90.97	37	54520.14	180.77
	323	86.78	30	54952.42	170.13
	324	66.18	35	69476.42	243.61
	325	84.33	41	54989.93	240.95
	326	36.87	36	29398.61	195.91
	327	34.78	48	42861.42	208.21
	328	76.84	32	65883.39	231.59
	329	67.05	25	65421.39	220.92
##	330	41.47	31	60953.93	219.79

##	331	80.71	26	58476.57	200.58
##	332	80.09	31	66636.84	214.08
##	333	56.30	49	67430.96	135.24
	334	79.36	34	57260.41	245.78
	335	86.38	40	66359.32	188.27
	336	38.94	41	57587.00	142.67
	337	87.26	35	63060.55	184.03
	338	75.32	28	59998.50	233.60
	339	74.38	40	74024.61	220.05
	340	65.90	22	60550.66	211.39
	341	36.31	47	57983.30	168.92
	342	72.23	48	52736.33	115.35
	343	88.12	38	46653.75	230.91
	344	83.97	28	56986.73	205.50
	345	61.09	26	55336.18	131.68
##	346	65.77	21	42162.90	218.61
	347	81.58	25	39699.13	199.39
	348	37.87	52	56394.82	188.56
	349	76.20	37	75044.35	178.51
	350	60.91	19	53309.61	184.94
	351	74.49	28	58996.12	237.34
	352	73.71	23	56605.12	211.38
##	353	78.19	30	62475.99	228.81
##	354	79.54	44	70492.60	217.68
	355	74.87	52	43698.53	126.97
	356	87.09	36	57737.51	221.98
##	357	37.45	47	31281.01	167.86
	358	49.84	39	45800.48	111.59
	359	51.38	59	42362.49	158.56
	360	83.40	34	66691.23	207.87
##	361	38.91	33	56369.74	150.80
	362	62.14	41	59397.89	110.93
	363	79.72	28	66025.11	193.80
	364	73.30	36	68211.35	135.72
	365	69.11	42	73608.99	231.48
	366	71.90	54	61228.96	140.15
##	367	72.45	29	72325.91	195.36
	368	77.07	40	44559.43	261.02
	369	74.62	36	73207.15	217.79
	370	82.07	25	46722.07	205.38
	371	58.60	50	45400.50	113.70
	372	36.08	45	41417.27	151.47
	373	79.44	26	60845.55	206.79
	374	41.73	47	60812.77	144.71
	375	73.19	25	64267.88	203.74
	376	77.60	24	58151.87	197.33
	377	89.00	37	52079.18	222.26
	378	69.20	42	26023.99	123.80
	379	67.56	31	62318.38	125.45
	380	81.11	39	56216.57	248.19
	381	80.22	30	61806.31	224.58
	382	43.63	41	51662.24	123.25
	383	77.66	29	67080.94	168.15
##	384	74.63	26	51975.41	235.99

##	385	49.67	27	28019.09	153.69
##	386	80.59	37	67744.56	224.23
##	387	83.49	33	66574.00	190.75
##	388	44.46	42	30487.48	132.66
##	389	68.10	40	74903.41	227.73
##	390	63.88	38	19991.72	136.85
##	391	78.83	36	66050.63	234.64
	392	79.97	44	70449.04	216.00
	393	80.51	28	64008.55	200.28
	394	62.26	26	70203.74	202.77
	395	66.99	47	27262.51	124.44
	396	71.05	20	49544.41	204.22
	397	42.05	51	28357.27	174.55
	398	50.52	28	66929.03	219.69
	399	76.24	40	75524.78	198.32
	400	77.29	27	66265.34	201.24
	401	35.98	47	55993.68	165.52
	402	84.95	34	56379.30	230.36
	403	39.34	43	31215.88	148.93
	404	87.23	29	51015.11	202.12
	405	57.24	52	46473.14	117.35
	406	81.58	41	55479.62	248.16
	407	56.34	50	68713.70	139.02
	408 409	48.73	27 49	34191.23 51067.54	142.04 258.62
	410	51.68 35.34	49 45	46693.76	152.86
	411	48.09	33	19345.36	180.42
	412	78.68	29	66225.72	208.05
	413	68.82	20	38609.20	205.64
	414	56.99	40	37713.23	108.15
	415	86.63	39	63764.28	209.64
	416	41.18	43	41866.55	129.25
	417	71.03	32	57846.68	120.85
	418	72.92	29	69428.73	217.10
	419	77.14	24	60283.98	184.88
	420	60.70	43	79332.33	192.60
##	421	34.30	41	53167.68	160.74
##	422	83.71	45	64564.07	220.48
##	423	53.38	35	60803.37	120.06
##	424	58.03	31	28387.42	129.33
##	425	43.59	36	58849.77	132.31
##	426	60.07	42	65963.37	120.75
##	427	54.43	37	75180.20	154.74
##	428	81.99	33	61270.14	230.90
##	429	60.53	29	56759.48	123.28
##	430	84.69	31	46160.63	231.85
##	431	88.72	32	43870.51	211.87
##	432	88.89	35	50439.49	218.80
##	433	69.58	43	28028.74	255.07
	434	85.23	36	64238.71	212.92
	435	83.55	39	65816.38	221.18
	436	56.66	42	72684.44	139.42
	437	56.39	27	38817.40	248.12
##	438	76.24	27	63976.44	214.42

##	439	57.64	36	37212.54	110.25
	440	78.18	23	52691.79	167.67
	441	46.04	32	65499.93	147.92
	442	79.40	35	63966.72	236.87
	443	36.44	39	52400.88	147.64
##	444	53.14	38	49111.47	109.00
##	445	32.84	40	41232.89	171.72
##	446	73.72	32	52140.04	256.40
	447	38.10	34	60641.09	214.38
	448	73.93	44	74180.05	218.22
	449	51.87	50	51869.87	119.65
	450	77.69	22	48852.58	169.88
	451	43.41	28	59144.02	160.73
	452	55.92	24	33951.63	145.08
	453	80.67	34	58909.36	239.76
	454	83.42	25	49850.52	183.42
	455	82.12	52	28679.93	201.15
	456	66.17	33	69869.66	238.45
	457	43.01	35	48347.64	127.37
	458	80.05	25	45959.86	219.94
	459	64.88	42	70005.51	129.80
	460	79.82	26	51512.66	223.28
	461	48.03	40	25598.75	134.60
	462	32.99	45	49282.87	177.46
	463	74.88	27	67240.25	175.17
	464	36.49	52	42136.33	196.61
	465	88.04	45	62589.84	191.17
	466	45.70	33	67384.31	151.12
	467	82.38	35	25603.93	159.60
	468	52.68	23	39616.00	149.20
	469	65.59	47	28265.81	121.81
	470	65.65	25	63879.72	224.92
	471	43.84	36	70592.81	167.42
	472	67.69	37	76408.19	216.57
	473	78.37	24	55015.08	207.27
	474	81.46	29	51636.12	231.54
	475	47.48	31	29359.20	141.34
	476	75.15	33	71296.67	219.49
	477	78.76	24 50	46422.76	219.98
	478 479	44.96 39.56	41	52802.00	132.71
	480			59243.46	143.13 196.83
	481	39.76	28 22	35350.55 59677.64	
	482	57.11 83.26	40	70225.60	207.17 187.76
	483	69.42	25	65791.17	
	484	50.60	30	34191.13	213.38 129.88
	485	46.20	37	51315.38	119.30
	486	66.88	35	62790.96	119.30
	487	83.97	40	66291.67	158.42
	488	76.56	30	68030.18	213.75
	489	35.49	48	43974.49	159.77
	490	80.29	31	49457.48	244.87
	491	50.19	40	33987.27	117.30
	492	59.12	33	28210.03	124.54
ırπ	102	50.12	50	20210.00	121.UI

##	493	59.88	30	75535.14	193.63
##	494	59.70	28	49158.50	120.25
##	495	67.80	30	39809.69	117.75
##	496	81.59	35	65826.53	223.16
##	497	81.10	29	61172.07	216.49
##	498	41.70	39	42898.21	126.95
##	499	73.94	27	68333.01	173.49
##	500	58.35	37	70232.95	132.63
	501	51.56	46	63102.19	124.85
	502	79.81	37	51847.26	253.17
	503	66.17	26	63580.22	228.70
	504	58.21	37	47575.44	105.94
	505	66.12	49	39031.89	113.80
	506	80.47	42	70505.06	215.18
	507	77.05	31	62161.26	236.64
	508	49.99	41	61068.26	121.07
	509	80.30	58	49090.51	173.43
	510	79.36	33	62330.75	234.72
	512	70.29	26	62053.37	231.37
	513	84.53	33	61922.06	215.18
	514	59.13	44	49525.37	106.04
	515	81.51	41	53412.32	250.03
	516	42.94	37	56681.65	130.40
	517	84.81	32	43299.63	233.93
	518	82.79	34	47997.75	132.08
	519	59.22	55	39131.53	126.39
	520	35.00	40	46033.73	151.25
	521	46.61	42	65856.74	136.18
	522	63.26	29	54787.37	120.46
	523	79.16	32	69562.46	202.90
	524 525	67.94 79.91	43 32	68447.17 62772.42	128.16 230.18
	526	66.14	41	78092.95	165.27
	527	43.65	39	63649.04	138.87
	528	59.61	21	60637.62	198.45
	529	46.61	52	27241.11	156.99
	530	89.37	34	42760.22	162.03
	531	65.10	49	59457.52	118.10
	532	53.44	42	42907.89	108.17
	533	79.53	51	46132.18	244.91
	534	91.43	39	46964.11	209.91
	535	73.57	30	70377.23	212.38
	536	78.76	32	70012.83	208.02
	537	76.49	23	56457.01	181.11
##	538	61.72	26	67279.06	218.49
##	539	84.53	35	54773.99	236.29
##	540	72.03	34	70783.94	230.95
	541	77.47	36	70510.59	222.91
##	542	75.65	39	64021.55	247.90
##	543	78.15	33	72042.85	194.37
##	544	63.80	38	36037.33	108.70
##	545	76.59	29	67526.92	211.64
##	546	42.60	55	55121.65	168.29
##	547	78.77	28	63497.62	211.83

##	548	83.40	39	60879.48	235.01
##	549	79.53	33	61467.33	236.72
	550	73.89	35	70495.64	229.99
	551	75.80	36	71222.40	224.90
	552	81.95	31	64698.58	208.76
	553	56.39	58	32252.38	154.23
	554	44.73	35	55316.97	127.56
	555	38.35	33	47447.89	145.48
	556	72.53	37	73474.82	223.93
	557	56.20	49	53549.94	114.85
	558	79.67	28	58576.12	226.79
	559	75.42	26	63373.70	164.25
	560	78.64	31	60283.47	235.28
	561	67.69	44	37345.34	109.22
	562	38.35	41	34886.01	144.69
	563	59.52	44	67511.86	251.08
	564	62.26	37	77988.71	166.19
	565	64.75	36	63001.03	117.66
	566	79.97	26	61747.98	185.45
	567	47.90	42	48467.68	114.53
	568	80.38	30	55130.96	238.06
	569	64.51	42	79484.80	190.71
	570	71.28	37	67307.43	246.72
	571	50.32	40	27964.60	125.65
	572	72.76	33	66431.87	240.63
	573	72.80	35	63551.67	249.54
	574	74.59	23	40135.06	158.35
	575	46.66	45	49101.67	118.16
	576	48.86	54	53188.69	134.46
	577	37.05	39	49742.83	142.81
	578	81.21	36	63394.41	233.04
	579	66.89	23	64433.99	208.24
	580	68.11 69.15	38	73884.48	231.21 112.72
	581		46	36424.94	120.12
	582 583	65.72 40.04	36 27	28275.48 48098.86	161.58
	584	68.60	33	68448.94	135.08
	585	56.16	25	66429.84	164.25
	586	78.60	46	41768.13	254.59
	587	78.29	38	57844.96	252.07
	588	43.83	45	35684.82	129.01
	589	77.31	32	62792.43	238.10
	590	39.86	28	51171.23	161.24
	591	66.77	25	58847.07	141.13
	592	57.20	42	57739.03	110.66
	593	73.15	25	64631.22	211.12
	594	82.07	24	50337.93	193.97
	595	49.84	38	67781.31	135.24
	596	43.97	36	68863.95	156.97
	597	77.25	27	55901.12	231.38
	598	74.84	37	64775.10	246.44
	599	83.53	36	67686.16	204.56
	600	38.63	48	57777.11	222.11
	601	84.00	48	46868.53	136.21
					-

##	602	52.13	50	40926.93	118.27
	603	71.83	40	22205.74	135.48
	604	78.36	24	58920.44	196.77
	605	50.18	35	63006.14	127.82
	606	64.67	51	24316.61	138.35
##	607	69.50	26	68348.99	203.84
##	608	65.22	30	66263.37	240.09
##	609	62.06	40	63493.60	116.27
	610	84.29	30	56984.09	160.33
	611	32.91	37	51691.55	181.02
	612	39.50	31	49911.25	148.19
	613	75.19	31	33502.57	245.76
	614	76.21	31	65834.97	228.94
	615	67.76	31	66176.97	242.59
	616	40.01	53	51463.17	161.77
	617	52.70	41	41059.64	109.34
	618	68.41	38	61428.18	259.76
	619	35.55	39	51593.46	151.18
	620	74.54	24	57518.73	219.75
	621	81.75	24	52656.13	190.08
	622	87.85	31	52178.98	210.27
	623	60.23	60	46239.14	151.54
	624	87.97	35	48918.55	149.25
	625	78.17	27	65227.79	192.27
	626	67.91	23	55002.05	146.80
	627	85.77	27	52261.73	191.78
	628	41.16	49	59448.44	150.83
	629	53.54	39	47314.45	108.03
	630	73.94	26	55411.06	236.15
	631	63.43	29	66504.16	236.75
	632	84.59	36	47169.14	241.80
	633	70.13	31	70889.68	224.98
	634	40.19	37	55358.88	136.99
	635	58.95	55	56242.70	131.29
	636	35.76	51	45522.44	195.07
	637	59.36	49	46931.03	110.84
	638	91.10	40	55499.69	198.13
	639	61.04	41	75805.12	149.21
	640	74.06	23	40345.49	225.99
	642	81.29	28	33239.20	219.72
	643	76.07	36	68033.54	235.56
	644	75.92	22	38427.66	182.65
	645	78.35	46	53185.34	253.48
	646 647	46.14	28 41	39723.97	137.97 120.63
	648	44.33		43386.07	
	649	46.43	28	53922.43	137.20
		66.04	27 29	71881.84	199.76
	650 651	84.31		47139.21 68877.02	225.87
		83.66 81.25	38 33	68877.02 65186.58	175.14
	652 653		33 32	65186.58	222.35
	654	85.26 86.53	32 46	55424.24 46500.11	224.07 233.36
	655	76.44	26	58820.16	224.20
	656	52.84	43	28495.21	122.31
##	000	02.04	ŦJ	20400.21	122.31

##	657	85.24	31	61840.26	182.84
##	658	74.71	46	37908.29	258.06
##	659	82.95	39	69805.70	201.29
##	660	76.42	26	60315.19	223.16
##	661	42.04	49	67323.00	182.11
##	662	46.28	26	50055.33	228.78
##	663	48.26	50	43573.66	122.45
##	664	71.03	55	28186.65	150.77
	665	81.37	33	66412.04	215.04
	667	75.00	29	63965.16	230.36
##	668	79.61	31	58342.63	235.97
##	669	52.56	31	33147.19	250.36
	670	62.18	33	65899.68	126.44
##	671	77.89	26	64188.50	201.54
##	672	66.08	61	58966.22	184.23
##	673	89.21	33	44078.24	210.53
##	674	49.96	55	60968.62	151.94
##	675	77.44	28	65620.25	210.39
##	676	82.58	38	65496.78	225.23
	677	39.36	29	52462.04	161.79
##	678	47.23	38	70582.55	149.80
##	679	87.85	34	51816.27	153.01
##	680	65.57	46	23410.75	130.86
	681	78.01	26	62729.40	200.71
##	682	44.15	28	48867.67	141.96
	683	43.57	36	50971.73	125.20
	684	76.83	28	67990.84	192.81
	685	42.06	34	43241.19	131.55
	686	76.27	27	60082.66	226.69
	687	74.27	37	65180.97	247.05
	688	73.27	28	67301.39	216.24
	689	74.58	36	70701.31	230.52
	690	77.50	28	60997.84	225.34
	691	87.16	33	60805.93	197.15
	692	87.16	37	50711.68	231.95
	694	65.15	29	41335.84	117.30
	695	68.25	33	76480.16	198.86
	696	73.49	38	67132.46	244.23
	697	39.19	54	52581.16	173.05
	698	80.15	25	55195.61	214.49
	699	86.76	28	48679.54	189.91
	700	73.88	29	63109.74	233.61
	701	58.60	19	44490.09	197.93
	702	69.77	54	57667.99	132.27
	703	87.27	30	51824.01	204.27
	704	77.65	28	66198.66	208.01
	705	76.02	40	73174.19	219.55
	706	78.84	26	56593.80	217.66
	707	71.33	23	31072.44	169.40
	708	81.90	41	66773.83	225.47
	709	46.89	48	72553.94	176.78
	710	77.80	57	43708.88	152.94
	711	45.44	43	48453.55	119.27
##	712	69.96	31	73413.87	214.06

##	713	87.35	35	58114.30	158.29
##	714	49.42	53	45465.25	128.00
##	715	71.27	21	50147.72	216.03
##	716	49.19	38	61004.51	123.08
##	717	39.96	35	53898.89	138.52
##	718	85.01	29	59797.64	192.50
##	719	68.95	51	74623.27	185.85
##	720	67.59	45	58677.69	113.69
##	721	75.71	34	62109.80	246.06
##	722	43.07	36	60583.02	137.63
##	723	39.47	43	65576.05	163.48
##	724	48.22	40	73882.91	214.33
##	725	76.76	25	50468.36	230.77
##	726	78.74	27	51409.45	234.75
##	727	67.47	24	60514.05	225.05
##	728	81.17	30	57195.96	231.91
##	729	89.66	34	52802.58	171.23
##	730	79.60	28	56570.06	227.37
##	731	65.53	19	51049.47	190.17
##	732	61.87	35	66629.61	250.20
##	733	83.16	41	70185.06	194.95
##	734	44.11	41	43111.41	121.24
##	735	56.57	26	56435.60	131.98
##	736	83.91	29	53223.58	222.87
##	737	79.80	28	57179.91	229.88
##	738	71.23	52	41521.28	122.59
##	739	47.23	43	73538.09	210.87
##	740	82.37	30	63664.32	207.44
##	741	43.63	38	61757.12	135.25
##	742	70.90	28	71727.51	190.95
##	743	71.90	29	72203.96	193.29
##	744	62.12	37	50671.60	105.86
##	745	67.35	29	47510.42	118.69
##	746	57.99	50	62466.10	124.58
##	747	66.80	29	59683.16	248.51
##	748	49.13	32	41097.17	120.49
##	749	45.11	58	39799.73	195.69
##	750	54.35	42	76984.21	164.02
##	751	61.82	59	57877.15	151.93
##	752	77.75	31	59047.91	240.64
##	753	70.61	28	72154.68	190.12
##	754	82.72	31	65704.79	179.82
##	755	76.87	36	72948.76	212.59
##	756	65.07	34	73941.91	227.53
##	757	56.93	37	57887.64	111.80
##	758	48.86	35	62463.70	128.37
	759	36.56	29	42838.29	195.89
	760	85.73	32	43778.88	147.75
	761	75.81	40	71157.05	229.19
	762	72.94	31	74159.69	190.84
	763	53.63	54	50333.72	126.29
	764	52.35	25	33293.78	147.61
##	765	52.84	51	38641.20	121.57
##	766	51.58	33	49822.78	115.91

##	767	42.32	29	63891.29	187.09
##	768	55.04	42	43881.73	106.96
##	770	85.54	27	48761.14	175.43
##	771	71.14	30	69758.31	224.82
##	772	64.38	19	52530.10	180.47
##	773	88.85	40	58363.12	213.96
##	774	66.79	60	60575.99	198.30
##	775	32.60	45	48206.04	185.47
##	776	43.88	54	31523.09	166.85
##	777	56.46	26	66187.58	151.63
##	778	72.18	30	69438.04	225.02
##	780	80.55	35	68016.90	219.91
##	781	67.85	41	78520.99	202.70
##	782	75.55	36	31998.72	123.71
##	783	80.46	29	56909.30	230.78
	784	82.69	29	61161.29	167.41
	785	35.21	39	52340.10	154.00
	786	36.37	40	47338.94	144.53
	787	74.07	22	50950.24	165.43
	788	59.96	33	77143.61	197.66
	789	85.62	29	57032.36	195.68
	790	40.88	33	48554.45	136.18
	791	36.98	31	39552.49	167.87
	792	35.49	47	36884.23	170.04
	793	56.56	26	68783.45	204.47
	794	36.62	32	51119.93	162.44
	795	49.35	49	44304.13	119.86
	796	75.64	29	69718.19	204.82
	797	79.22	27	63429.18	198.79
	798	77.05	34	65756.36	236.08
	799	66.83	46	77871.75	196.17
	800	76.20	24	47258.59	228.81
	801	56.64	29	55984.89	123.24
	802	53.33	34	44275.13	111.63
	803	50.63	50	25767.16	142.23
	804	41.84	49	37605.11	139.32
	805	53.92	41	25739.09	125.46
	806 807	83.89 55.32	28 43	60188.38 67682.32	180.88 127.65
	808	53.22	43 44	44307.18	108.85
	809	43.16	35	25371.52	156.11
	810	67.51	43	23942.61	127.20
	811	43.16	43 29	50666.50	143.04
	812	79.89	30	50356.06	241.38
	813	84.25	32	63936.50	170.90
	814	74.18	28	69874.18	203.87
	815	85.78	34	50038.65	232.78
	816	80.96	39	67866.95	225.00
	817	36.91	48	54645.20	159.69
	818	54.47	23	46780.09	141.52
	819	81.98	34	67432.49	212.88
	820	79.60	39	73392.28	194.23
	821	57.51	38	47682.28	105.71
	822	82.30	31	56735.83	232.21
		300	~-		

##	823	73.21	30	51013.37	252.60
##	824	79.09	32	69481.85	209.72
##	825	68.47	28	67033.34	226.64
##	826	83.69	36	68717.00	192.57
##	827	83.48	31	59340.99	222.72
##	828	43.49	45	47968.32	124.67
##	829	66.69	35	48758.92	108.27
##	830	48.46	49	61230.03	132.38
	831	42.51	30	54755.71	144.77
	832	42.83	34	54324.73	132.38
	833	41.46	42	52177.40	128.98
	834	45.99	33	51163.14	124.61
	835	68.72	27	66861.67	225.97
	836	63.11	34	63107.88	254.94
	837	49.21	46	49206.40	115.60
	838	55.77	49	55942.04	117.33
	839	44.13	40	33601.84	128.48
	840	57.82	46	48867.36	107.56
	841	72.46	40	56683.32	113.53
	842	61.88	45	38260.89	108.18
	843	78.24	23	54106.21	199.29
	844	74.61	38	71055.22	231.28
	845	89.18	37	46403.18	224.01
	846	44.16	42	61690.93	133.42
	847	55.74	37	26130.93	124.34
	848	88.82	36	58638.75	169.10
	849	70.39	32	47357.39	261.52
	850	59.05	52	50086.17	118.45
	851	78.58	33	51772.58	250.11
	852	35.11	35	47638.30	158.03
	853	60.39	45	38987.42	108.25
	854	81.56	26	51363.16	213.70
	855	75.03	34	35764.49	255.57
	856	50.87	24	62939.50 58776.67	190.41
	857 858	82.80 78.51	30 25	59106.12	223.20 205.71
	859	37.65	51	50457.01	161.29
	860	83.17	43	54251.78	244.40
	861	91.37	45 45	51920.49	182.65
	862	68.25	29	70324.80	220.08
	863	81.32	25	52416.18	165.65
	864	76.64	39	66217.31	241.50
	865	74.06	50	60938.73	246.29
	866	39.53	33	40243.82	142.21
	867	86.58	32	60151.77	195.93
	868	90.75	40	45945.88	216.50
	869	67.71	25	63430.33	225.76
	870	82.41	36	65882.81	222.08
	871	45.82	27	64410.80	171.24
	872	76.79	27	55677.12	235.94
	873	70.05	33	75560.65	203.44
	874	72.19	32	61067.58	250.32
	875	77.35	34	72330.57	167.26
	876	40.34	29	32549.95	173.75

##	877	67.39	44	51257.26	107.19
##	878	68.68	34	77220.42	187.03
##	879	81.75	43	52520.75	249.45
##	880	66.03	22	59422.47	217.37
##	881	47.74	33	22456.04	154.93
##	882	79.18	31	58443.99	236.96
##	883	86.81	29	50820.74	199.62
##	884	41.53	42	67575.12	158.81
##	885	70.92	39	66522.79	249.81
##	886	46.84	45	34903.67	123.22
##	887	44.40	53	43073.78	140.95
	888	52.17	44	57594.70	115.37
##	889	81.45	31	66027.31	205.84
##	890	54.08	36	53012.94	111.02
##	891	76.65	31	61117.50	238.43
##	892	54.39	20	52563.22	171.90
##	893	37.74	40	65773.49	190.95
	894	69.86	25	50506.44	241.36
##	895	85.37	36	66262.59	194.56
##	896	80.99	26	35521.88	207.53
	897	78.84	32	62430.55	235.29
	898	77.36	41	49597.08	115.79
	899	55.46	37	42078.89	108.10
	900	35.66	45	46197.59	151.72
	901	50.78	51	49957.00	122.04
	902	40.47	38	24078.93	203.90
	903	45.62	43	53647.81	121.28
	904	84.76	30	61039.13	178.69
	905	80.64	26	46974.15	221.59
	906	75.94	27	53042.51	236.96
	907	37.01	50	48826.14	216.01
	908	87.18	31	58287.86	193.60
	909	56.91	50	21773.22	146.44
	910	75.24	24	52252.91	226.49
	911	42.84	52	27073.27	182.20
	912	67.56	47	50628.31	109.98
	913	34.96	42	36913.51	160.49
	914	87.46	37	61009.10	211.56
	915	41.86	39	53041.77	128.62
	916	34.04	34	40182.84	174.88
	917	54.96	42	59419.78	113.75
	918	87.14	31	58235.21	199.40
	919	78.79	32	68324.48	215.29
	920	65.56 81.05	25	69646.35	181.25
	921 922	55.71	34 37	54045.39	245.50 112.52
		45.48		57806.03 53336.76	
	923 924	47.00	49 56	53336.76 50491.45	129.16 149.53
	925	59.64	50	71455.62	153.12
	926	35.98	45	43241.88	153.12
	927	72.55	45 22	58953.01	202.34
	928	91.15	38	36834.04	184.98
	929	80.53	29	66345.10	187.64
	930	82.49	45	38645.40	130.84
ππ		JZ.7J	10	00010.10	100.04

##	931	80.94	36	60803.00	239.94
##	932	61.76	34	33553.90	114.69
##	933	63.30	38	63071.34	116.19
##	934	36.73	34	46737.34	149.79
##	935	78.41	33	55368.67	248.23
##	936	83.98	36	68305.91	194.62
##	937	63.18	45	39211.49	107.92
##	938	50.60	48	65956.71	135.67
##	939	32.60	38	40159.20	190.05
	940	60.83	19	40478.83	185.46
##	941	44.72	46	40468.53	123.86
##	942	78.76	51	66980.27	162.05
	943	79.51	39	34942.26	125.11
	944	39.30	32	48335.20	145.73
##	945	64.79	30	42251.59	116.07
##	946	89.80	36	57330.43	198.24
	947	72.82	34	75769.82	191.82
	948	38.65	31	51812.71	154.77
	949	59.01	30	75265.96	178.75
	950	78.96	50	69868.48	193.15
	951	63.99	43	72802.42	138.46
	952	41.35	27	39193.45	162.46
	954	45.53	29	56129.89	141.58
	955	51.65	31	58996.56	249.99
	956	54.55	44	41547.62	109.04
	957	35.66	36	59240.24	172.57
	958	69.95	28	56725.47	247.01
	959	79.83	29	55764.43	234.23
	960	85.35	37	64235.51	161.42
	961	56.78	28	39939.39	124.32
	962	78.67	26	63319.99	195.56
	963	70.09	21	54725.87	211.17
	964	60.75	42	69775.75	247.05
	965	65.07	24	57545.56	233.85
	966	35.25	50	47051.02	194.44
	967	37.58	52	51600.47	176.70
	968	68.01	25	68357.96	188.32
	969	45.08	38	35349.26	125.27
	970	63.04	27 29	69784.85 50760.23	159.05 151.96
	971 972	40.18	48		
	973	45.17 50.48	50	34418.09	132.07
	974		28	20592.99	162.43
	975	80.87 41.88	40	63528.80 44217.68	203.30 126.11
	976	39.87	48	47929.83	139.34
	977	61.84	45	46024.29	105.63
	978	54.97	31	51900.03	116.38
	979	71.40	30	72188.90	166.31
	980	70.29	31	56974.51	254.65
	981	67.26	57	25682.65	168.41
	982	76.58	46	41884.64	258.26
	983	54.37	38	72196.29	140.77
	984	82.79	32	54429.17	234.81
	985	66.47	31	58037.66	256.39
ππ		50.41	O1	3337.00	200.03

```
## 986
                           72.88 44
                                        64011.26
                                                               125.12
## 987
                           76.44 28
                                        59967.19
                                                               232.68
## 988
                                                               105.04
                           63.37 43
                                        43155.19
## 989
                           89.71 48
                                        51501.38
                                                               204.40
## 990
                           70.96 31
                                        55187.85
                                                               256.40
## 991
                           35.79 44
                                        33813.08
                                                               165.62
## 992
                           38.96 38
                                        36497.22
                                                               140.67
## 993
                           69.17
                                        66193.81
                                                               123.62
                                  40
## 994
                           64.20
                                  27
                                        66200.96
                                                               227.63
## 995
                           43.70
                                  28
                                        63126.96
                                                               173.01
## 996
                           72.97
                                  30
                                        71384.57
                                                               208.58
## 997
                           51.30 45
                                        67782.17
                                                               134.42
## 998
                           51.63 51
                                        42415.72
                                                               120.37
## 999
                           55.55 19
                                        41920.79
                                                               187.95
## 1000
                           45.01 26
                                        29875.80
                                                               178.35
```

#### cor(X)

```
Age Area.Income
                            Daily.Time.Spent.on.Site
## Daily.Time.Spent.on.Site
                                           1.0000000 -0.3322762
                                                                  0.3150374
                                          -0.3322762 1.0000000 -0.1801110
## Age
                                           0.3150374 -0.1801110
## Area.Income
                                                                 1.0000000
## Daily.Internet.Usage
                                           0.5197228 -0.3679358
                                                                  0.3508222
                            Daily.Internet.Usage
##
## Daily.Time.Spent.on.Site
                                       0.5197228
## Age
                                      -0.3679358
                                       0.3508222
## Area.Income
## Daily.Internet.Usage
                                       1.0000000
```

Daily internet usage is positively correlated with daily time spent on site at 0.52.