

## Research Question

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.

## Defining the question

### i)Specifying the Data Analytic Question

To be able to help the entrepreneur identify which individuals are most likely to click on her ads.

### ii)Defining the Metric for Success

Develop a model to help identify which individuals are most likely to click on the ads in the blog.

### iii)Recording the Experimental Design

- 1) Read the dataset into our environment (RStudio)
- 2) Preview the dataset
- 3) Find and deal with outliers, anomalies, and missing data within the dataset
- 4) Perform univariate and bivariate analysis
- 5) From your insights provide a conclusion and recommendation

```
#Loading the dataset  
#url <- http://bit.ly/IPAdvertisingData  
Advert <- read.csv("http://bit.ly/IPAdvertisingData")
```

```
# View the dataset in our environment  
View(Advert)
```

## Previewing the dataset

```
#Previewing the first 6 rows of the dataset
head(Advert)
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1              68.95  35      61833.90              256.09
## 2              80.23  31      68441.85              193.77
## 3              69.47  26      59785.94              236.50
## 4              74.15  29      54806.18              245.89
## 5              68.37  35      73889.99              225.58
## 6              59.99  23      59761.56              226.74
##              Ad.Topic.Line              City Male      Country
## 1      Cloned 5thgeneration orchestration      Wrightburgh      0      Tunisia
## 2      Monitored national standardization      West Jodi      1      Nauru
## 3      Organic bottom-line service-desk      Davidton      0 San Marino
## 4      Triple-buffered reciprocal time-frame      West Terrifurt      1      Italy
## 5      Robust logistical utilization      South Manuel      0      Iceland
## 6      Sharable client-driven software      Jamieberg      1      Norway
##              Timestamp Clicked.on.Ad
## 1 2016-03-27 00:53:11              0
## 2 2016-04-04 01:39:02              0
## 3 2016-03-13 20:35:42              0
## 4 2016-01-10 02:31:19              0
## 5 2016-06-03 03:36:18              0
## 6 2016-05-19 14:30:17              0
```

```
#Previewing the tail of the dataset
tail(Advert)
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 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
##              Ad.Topic.Line              City Male
## 995      Front-line bifurcated ability      Nicholasland      0
## 996      Fundamental modular algorithm      Duffystad      1
## 997      Grass-roots cohesive monitoring      New Darlene      1
## 998      Expanded intangible solution      South Jessica      1
## 999      Proactive bandwidth-monitored policy      West Steven      0
## 1000     Virtual 5thgeneration emulation      Ronniemouth      0
##              Country              Timestamp Clicked.on.Ad
## 995      Mayotte 2016-04-04 03:57:48              1
## 996      Lebanon 2016-02-11 21:49:00              1
## 997      Bosnia and Herzegovina 2016-04-22 02:07:01      1
## 998      Mongolia 2016-02-01 17:24:57              1
## 999      Guatemala 2016-03-24 02:35:54              0
## 1000     Brazil 2016-06-03 21:43:21              1
```

```
#Checking the shape of the dataset
dim(Advert)
```

```
## [1] 1000 10
```

The data set has 1000 observations and 10 variables

```
#checking the data types of the dataset
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
```

```
glimpse(Advert)
```

```
## Rows: 1,000
## Columns: 10
## $ Daily.Time.Spent.on.Site <dbl> 68.95, 80.23, 69.47, 74.15, 68.37, 59.99, 88.~
## $ Age <int> 35, 31, 26, 29, 35, 23, 33, 48, 30, 20, 49, 3~
## $ Area.Income <dbl> 61833.90, 68441.85, 59785.94, 54806.18, 73889~
## $ Daily.Internet.Usage <dbl> 256.09, 193.77, 236.50, 245.89, 225.58, 226.7~
## $ Ad.Topic.Line <chr> "Cloned 5thgeneration orchestration", "Monito~
## $ City <chr> "Wrightburgh", "West Jodi", "Davidton", "West~
## $ Male <int> 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 0, ~
## $ Country <chr> "Tunisia", "Nauru", "San Marino", "Italy", "I~
## $ Timestamp <chr> "2016-03-27 00:53:11", "2016-04-04 01:39:02",~
## $ Clicked.on.Ad <int> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, ~
```

We can see that 3 columns are of the type integer, 3 are of the type double class and 4 columns are of the character type.

## Cleaning the Dataset

```
# Checking the number of duplicated rows
duplicated_rows <- Advert[duplicated(Advert),]
duplicated_rows
```

```
## [1] Daily.Time.Spent.on.Site Age Area.Income
## [4] Daily.Internet.Usage Ad.Topic.Line City
## [7] Male Country Timestamp
## [10] Clicked.on.Ad
## <0 rows> (or 0-length row.names)
```

No duplicates in the dataset

```
# Sum of null values in each column
colSums(is.na(Advert))
```

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

No null values in our dataset

```
#selecting the numerical variables
numeric <- Advert %>% select_if(is.numeric)
head(numeric)
```

```
##   Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Male
## 1           68.95  35    61833.90           256.09    0
## 2           80.23  31    68441.85           193.77    1
## 3           69.47  26    59785.94           236.50    0
## 4           74.15  29    54806.18           245.89    1
## 5           68.37  35    73889.99           225.58    0
## 6           59.99  23    59761.56           226.74    1
##   Clicked.on.Ad
## 1           0
## 2           0
## 3           0
## 4           0
## 5           0
## 6           0
```

Male and clicked on Ad should be categorical(factor)

```
#Now lets change the data types of categorical variables.
```

```
Advert$`Clicked.on.Ad` <- as.factor(Advert$`Clicked.on.Ad`)
Advert$Male <- as.factor(Advert$Male)
#Lets inspect the data type again
str(Advert)
```

```
## 'data.frame':   1000 obs. of  10 variables:
## $ Daily.Time.Spent.on.Site: num  69 80.2 69.5 74.2 68.4 ...
## $ Age : int  35 31 26 29 35 23 33 48 30 20 ...
## $ Area.Income : num  61834 68442 59786 54806 73890 ...
## $ Daily.Internet.Usage : num  256 194 236 246 226 ...
## $ Ad.Topic.Line : chr  "Cloned 5thgeneration orchestration" "Monitored national standardi
## $ City : chr  "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...
## $ Male : Factor w/ 2 levels "0","1": 1 2 1 2 1 2 1 2 2 2 ...
```

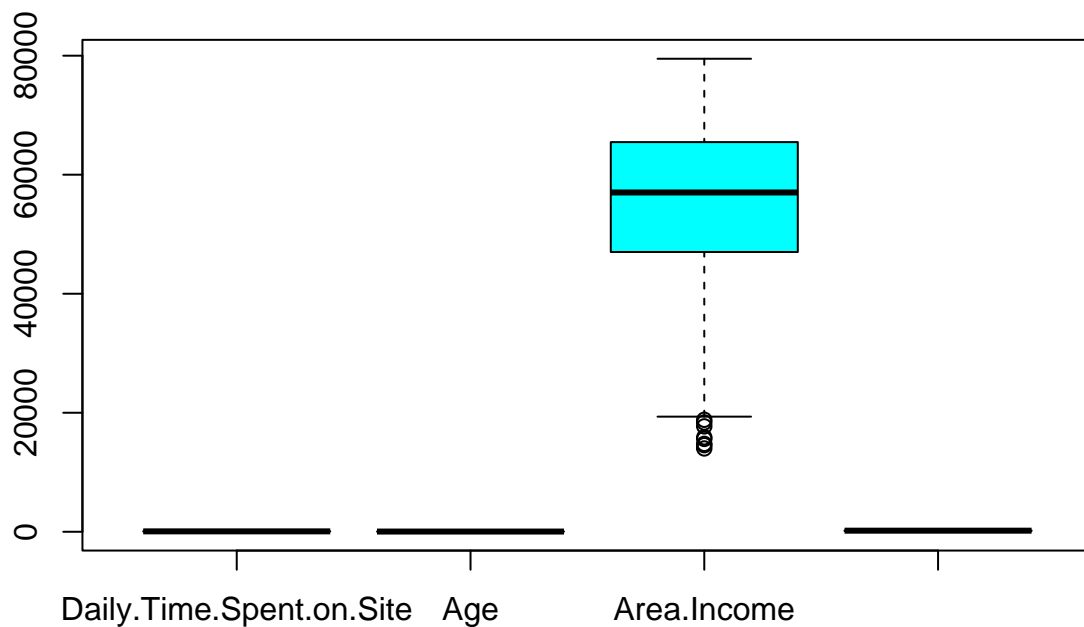
```
## $ Country          : chr  "Tunisia" "Nauru" "San Marino" "Italy" ...
## $ Timestamp        : chr  "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42"
## $ Clicked.on.Ad    : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 1 ...
```

```
#selecting the numerical variables
numeric <- Advert %>% select_if(is.numeric)
head(numeric)
```

```
##   Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1                68.95  35    61833.90           256.09
## 2                80.23  31    68441.85           193.77
## 3                69.47  26    59785.94           236.50
## 4                74.15  29    54806.18           245.89
## 5                68.37  35    73889.99           225.58
## 6                59.99  23    59761.56           226.74
```

The numerical columns in our dataset

```
# Boxplot from the dataset with refernce to the numeric variables
boxplot(numeric, col = rainbow(ncol(numeric)))
```



We have outliers in the Area.Income variable but We shall not drop the outliers because income amount varies from one person to another. It is possible to get a person who gets littlr income compared to the other people.

# Exploratory Data Analysis

## Univariate Analysis

### Measures of Central Tendency

#### 1)Mean

```
#find mean of each numerical variable  
colMeans(numeric)
```

```
## Daily.Time.Spent.on.Site      Age      Area.Income  
##           65.0002           36.0090      55000.0001  
##   Daily.Internet.Usage  
##           180.0001
```

#### 2)Median

```
#Median of multiple variables  
apply(numeric,2,median)
```

```
## Daily.Time.Spent.on.Site      Age      Area.Income  
##           68.215           35.000      57012.300  
##   Daily.Internet.Usage  
##           183.130
```

#### 3)Mode

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

```
#mode for Daily.Internet.Usage  
getmode(Advert$Daily.Internet.Usage)
```

```
## [1] 167.22
```

The mode for daily internet usage is 167.22

```
#Mode for age  
getmode(Advert$Age)
```

```
## [1] 31
```

The mode of age in our dataset is 31

```

'''r
getmode(Advert$Daily.Time.Spent.on.Site)

## [1] 62.26

```

The mode of time spent in our dataset is 62.26

## Measures of Dispersion

```

#find range of numeric variables in the data frame
sapply(numeric, function(numeric) max(numeric, na.rm=TRUE) - min(numeric, na.rm=TRUE))

```

```

## Daily.Time.Spent.on.Site      Age      Area.Income
##                58.83        42.00        65488.30
##      Daily.Internet.Usage
##                165.18

```

```

#Variance for the numerical columns
cbind(
  lapply(numeric, FUN = var, na.rm = T)
)

```

### 2)Variance

```

##                [,1]
## Daily.Time.Spent.on.Site 251.3371
## Age                    77.18611
## Area.Income            179952406
## Daily.Internet.Usage    1927.415

```

Variance of Daily.Time.Spent.on.Site 251.3371 Variance of Age 77.18611 Variance of Area.Income 179952406  
 Variance of Daily.Internet.Usage 1927.415

### 3)Standard deviation

```

#The standard of numeric variables
library(psych)
apply(numeric,2, sd, na.rm=TRUE)

```

```

## Daily.Time.Spent.on.Site      Age      Area.Income
##                15.853615        8.785562        13414.634022
##      Daily.Internet.Usage
##                43.902339

```

Standard deviation of Daily.Time.Spent.on.Site 15.853615  
 Standard deviation of Age 8.785562  
 Standard deviation of Area.Income 13414.634022  
 Standard deviation of Daily.Internet.Usage 43.902339

### 3)Quantiles

```
#Quantiles for the numeric variables  
apply( numeric, 2 , quantile , na.rm = TRUE )
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## 0%          32.6000 19    13996.50          104.7800  
## 25%          51.3600 29    47031.80          138.8300  
## 50%          68.2150 35    57012.30          183.1300  
## 75%          78.5475 42    65470.64          218.7925  
## 100%         91.4300 61    79484.80          269.9600
```

### Frequency Tables

```
#calculate frequency table for every variable in data frame  
apply((Advert), 2, table)
```

```
## $Daily.Time.Spent.on.Site  
##  
## 32.60 32.84 32.91 32.99 33.21 33.33 33.52 34.04 34.30 34.66 34.78 34.86 34.87  
##      2      1      1      1      1      1      1      1      1      1      1      1      1  
## 34.96 35.00 35.11 35.21 35.25 35.33 35.34 35.49 35.55 35.61 35.65 35.66 35.76  
##      1      1      1      1      1      1      1      2      1      1      1      2      1  
## 35.79 35.98 36.08 36.31 36.37 36.44 36.49 36.56 36.62 36.73 36.87 36.91 36.98  
##      1      2      1      1      1      1      1      1      1      1      1      1      1  
## 37.00 37.01 37.05 37.32 37.45 37.47 37.51 37.58 37.65 37.68 37.74 37.75 37.87  
##      1      1      1      1      1      1      1      1      1      1      1      1      1  
## 38.10 38.35 38.37 38.46 38.52 38.63 38.65 38.91 38.93 38.94 38.96 39.19 39.25  
##      1      2      1      1      1      1      1      1      1      1      1      1      1  
## 39.30 39.34 39.36 39.47 39.50 39.53 39.56 39.76 39.85 39.86 39.87 39.94 39.96  
##      1      1      1      1      1      1      1      1      1      1      2      1      2  
## 40.01 40.04 40.06 40.15 40.17 40.18 40.19 40.34 40.42 40.47 40.67 40.88 41.16  
##      1      1      1      1      1      1      1      1      1      1      1      1      1  
## 41.18 41.28 41.35 41.39 41.46 41.47 41.49 41.53 41.67 41.70 41.73 41.82 41.84  
##      1      1      1      1      1      1      2      1      1      1      2      1      1  
## 41.86 41.88 41.89 42.04 42.05 42.06 42.32 42.39 42.44 42.51 42.60 42.83 42.84  
##      1      1      1      1      1      1      1      1      1      1      1      1      1  
## 42.94 42.95 43.01 43.02 43.07 43.16 43.41 43.49 43.57 43.59 43.60 43.63 43.65  
##      1      1      1      1      1      2      1      2      1      1      1      2      1  
## 43.67 43.70 43.77 43.83 43.84 43.88 43.97 44.11 44.13 44.15 44.16 44.33 44.40  
##      2      1      1      1      1      1      1      1      1      1      1      2      1  
## 44.46 44.49 44.57 44.64 44.72 44.73 44.78 44.96 44.98 45.01 45.05 45.08 45.11  
##      1      1      1      1      1      1      1      1      1      1      1      1      1  
## 45.17 45.44 45.48 45.53 45.62 45.70 45.72 45.82 45.96 45.99 46.04 46.08 46.13  
##      1      1      1      1      1      1      1      1      1      1      1      1      2  
## 46.14 46.20 46.28 46.31 46.37 46.43 46.61 46.66 46.77 46.84 46.88 46.89 46.98  
##      1      1      1      1      1      1      2      1      1      1      1      1      1  
## 47.00 47.23 47.48 47.51 47.53 47.64 47.66 47.74 47.90 48.01 48.03 48.09 48.22  
##      1      2      1      1      1      1      1      1      1      1      1      1      1  
## 48.26 48.46 48.53 48.73 48.86 49.13 49.19 49.21 49.35 49.42 49.58 49.67 49.78
```



##	1	1	1	1	2	1	1	1	1	1	1	1	1
##	49.81	49.84	49.89	49.95	49.96	49.99	50.08	50.18	50.19	50.32	50.33	50.43	50.48
##	1	2	1	1	1	1	2	1	1	1	1	1	1
##	50.52	50.60	50.63	50.78	50.87	51.24	51.30	51.38	51.50	51.56	51.58	51.63	51.65
##	2	2	1	1	1	1	1	1	1	1	1	1	1
##	51.68	51.87	51.95	52.13	52.17	52.35	52.56	52.62	52.67	52.68	52.70	52.84	53.14
##	1	1	1	1	1	1	1	1	1	1	2	2	1
##	53.22	53.30	53.33	53.38	53.44	53.54	53.63	53.68	53.92	54.08	54.35	54.37	54.39
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	54.43	54.47	54.55	54.70	54.88	54.92	54.96	54.97	55.04	55.13	55.20	55.32	55.35
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	55.39	55.46	55.55	55.60	55.71	55.74	55.77	55.79	55.92	56.01	56.04	56.14	56.16
##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	56.20	56.30	56.34	56.39	56.46	56.56	56.57	56.64	56.66	56.70	56.78	56.89	56.91
##	1	1	1	2	1	1	1	2	1	1	1	1	1
##	56.93	56.99	57.05	57.11	57.20	57.24	57.35	57.51	57.64	57.70	57.76	57.82	57.86
##	1	1	1	1	1	1	1	1	2	1	1	1	1
##	57.99	58.03	58.05	58.18	58.21	58.22	58.35	58.60	58.95	59.01	59.05	59.12	59.13
##	1	1	1	1	1	1	1	2	1	1	2	1	1
##	59.21	59.22	59.36	59.51	59.52	59.59	59.61	59.64	59.70	59.88	59.96	59.99	60.07
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	60.23	60.25	60.39	60.53	60.70	60.72	60.75	60.83	60.91	60.94	61.04	61.09	61.22
##	2	1	1	2	2	1	1	1	1	1	1	1	1
##	61.57	61.72	61.76	61.82	61.84	61.87	61.88	62.06	62.12	62.14	62.18	62.20	62.26
##	1	1	1	1	1	1	2	2	1	1	1	1	3
##	62.31	62.33	62.42	62.79	62.95	63.04	63.11	63.18	63.24	63.26	63.30	63.36	63.37
##	1	1	2	1	1	1	1	1	1	1	1	1	1
##	63.43	63.45	63.60	63.80	63.88	63.89	63.99	64.10	64.20	64.24	64.38	64.51	64.63
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	64.67	64.75	64.79	64.88	65.07	65.10	65.15	65.19	65.22	65.40	65.53	65.56	65.57
##	1	1	1	1	2	1	1	1	1	1	1	1	1
##	65.59	65.65	65.72	65.77	65.80	65.82	65.90	66.00	66.01	66.03	66.04	66.08	66.12
##	1	2	1	1	1	1	1	1	1	1	1	1	1
##	66.14	66.17	66.18	66.26	66.40	66.47	66.49	66.63	66.67	66.69	66.77	66.79	66.80
##	1	2	2	1	1	1	1	1	1	1	1	1	1
##	66.83	66.88	66.89	66.99	67.05	67.26	67.28	67.35	67.36	67.39	67.47	67.51	67.56
##	1	1	1	1	1	1	1	1	1	1	1	1	2
##	67.58	67.59	67.64	67.69	67.71	67.76	67.80	67.85	67.91	67.94	68.01	68.10	68.11
##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	68.18	68.25	68.37	68.41	68.47	68.58	68.60	68.61	68.68	68.72	68.82	68.88	68.94
##	1	2	1	1	1	1	1	1	1	1	1	1	1
##	68.95	69.00	69.01	69.08	69.11	69.15	69.17	69.20	69.35	69.42	69.47	69.50	69.57
##	2	1	1	1	1	1	1	1	1	1	1	1	1
##	69.58	69.62	69.74	69.77	69.78	69.86	69.88	69.90	69.95	69.96	69.97	70.03	70.04
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	70.05	70.09	70.13	70.20	70.29	70.39	70.41	70.44	70.58	70.61	70.66	70.68	70.79
##	1	1	1	1	2	1	1	1	1	1	1	1	1
##	70.90	70.92	70.96	71.00	71.03	71.05	71.14	71.23	71.27	71.28	71.33	71.40	71.55
##	1	2	1	1	2	1	1	1	1	1	1	1	1
##	71.74	71.76	71.83	71.84	71.86	71.89	71.90	72.01	72.03	72.04	72.07	72.08	72.18
##	1	1	1	1	1	1	2	1	1	1	1	1	1
##	72.19	72.23	72.44	72.45	72.46	72.53	72.55	72.60	72.76	72.80	72.82	72.84	72.88
##	2	2	1	1	1	1	1	1	1	1	1	1	1
##	72.92	72.94	72.97	73.04	73.10	73.15	73.18	73.19	73.21	73.27	73.30	73.38	73.41

##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	73.46	73.49	73.57	73.71	73.72	73.84	73.88	73.89	73.93	73.94	73.95	74.02	74.06
##	1	1	1	1	1	1	1	2	1	2	1	1	2
##	74.07	74.15	74.18	74.27	74.32	74.38	74.41	74.49	74.53	74.54	74.58	74.59	74.61
##	1	1	1	1	1	1	1	1	1	1	2	1	1
##	74.62	74.63	74.65	74.71	74.84	74.87	74.88	75.00	75.03	75.15	75.19	75.24	75.32
##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	75.42	75.55	75.64	75.65	75.70	75.71	75.74	75.80	75.81	75.83	75.84	75.92	75.94
##	1	3	1	1	1	1	1	2	1	2	1	1	1
##	76.02	76.06	76.07	76.20	76.21	76.24	76.27	76.28	76.32	76.42	76.44	76.49	76.56
##	2	1	1	2	1	2	1	1	1	1	2	1	2
##	76.58	76.59	76.64	76.65	76.70	76.76	76.77	76.79	76.81	76.83	76.84	76.87	76.90
##	1	1	1	1	1	1	1	1	1	1	1	2	1
##	76.99	77.05	77.07	77.14	77.20	77.22	77.25	77.29	77.31	77.35	77.36	77.44	77.47
##	1	3	1	1	1	1	1	1	1	1	1	1	1
##	77.50	77.51	77.56	77.60	77.63	77.65	77.66	77.69	77.75	77.80	77.88	77.89	77.95
##	1	1	1	1	1	2	1	1	1	1	1	1	1
##	78.01	78.11	78.15	78.17	78.18	78.19	78.24	78.29	78.32	78.35	78.36	78.37	78.41
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	78.51	78.53	78.54	78.57	78.58	78.60	78.64	78.67	78.68	78.70	78.74	78.76	78.77
##	1	1	1	1	1	1	1	1	1	1	2	3	1
##	78.79	78.83	78.84	78.96	79.09	79.15	79.16	79.18	79.22	79.36	79.40	79.44	79.51
##	1	1	2	1	1	1	1	1	1	2	1	1	1
##	79.52	79.53	79.54	79.57	79.60	79.61	79.67	79.71	79.72	79.80	79.81	79.82	79.83
##	2	2	1	1	2	1	1	1	1	1	2	1	1
##	79.89	79.91	79.94	79.97	80.03	80.05	80.09	80.15	80.22	80.23	80.29	80.30	80.31
##	1	1	1	2	1	1	1	1	1	2	1	1	1
##	80.38	80.39	80.46	80.47	80.49	80.51	80.53	80.55	80.59	80.60	80.64	80.67	80.71
##	1	1	2	2	1	1	1	1	1	1	1	1	1
##	80.72	80.87	80.91	80.94	80.96	80.99	81.03	81.05	81.10	81.11	81.17	81.21	81.22
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	81.25	81.29	81.32	81.37	81.38	81.45	81.46	81.51	81.56	81.58	81.59	81.61	81.67
##	1	1	1	2	1	1	1	1	1	2	1	1	1
##	81.75	81.90	81.95	81.98	81.99	82.03	82.07	82.12	82.30	82.37	82.38	82.40	82.41
##	2	1	1	2	1	1	2	1	1	1	1	1	1
##	82.49	82.52	82.58	82.68	82.69	82.70	82.72	82.73	82.79	82.80	82.87	82.95	83.07
##	1	1	1	1	1	1	1	1	2	1	1	1	1
##	83.16	83.17	83.26	83.40	83.42	83.47	83.48	83.49	83.53	83.55	83.66	83.67	83.69
##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	83.71	83.86	83.89	83.91	83.97	83.98	84.00	84.04	84.08	84.25	84.29	84.31	84.33
##	1	1	1	1	2	1	1	1	1	1	2	1	1
##	84.37	84.45	84.53	84.54	84.59	84.69	84.71	84.73	84.76	84.79	84.81	84.88	84.95
##	1	1	3	1	2	1	1	1	1	1	1	1	1
##	84.98	85.01	85.03	85.23	85.24	85.26	85.35	85.37	85.40	85.54	85.56	85.61	85.62
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	85.73	85.77	85.78	85.84	85.86	86.06	86.19	86.38	86.41	86.53	86.58	86.63	86.69
##	1	1	1	2	1	2	1	1	1	1	1	1	1
##	86.76	86.78	86.81	87.09	87.14	87.16	87.18	87.23	87.26	87.27	87.29	87.30	87.35
##	1	1	1	1	1	2	1	1	1	1	1	1	1
##	87.46	87.85	87.97	87.98	88.04	88.12	88.72	88.82	88.85	88.89	88.91	88.97	89.00
##	1	2	1	1	1	1	1	1	1	1	1	1	1
##	89.05	89.15	89.18	89.21	89.34	89.37	89.66	89.71	89.80	89.91	90.75	90.97	91.10
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	91.15	91.37	91.43										

```

##      1      1      1
##
## $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 39 60 38 43 39 39 50 36 37 30 36 32 26 23 21
## 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61
## 30 18 13 16 18 20 12 15 10  9  7  2  6  4  2  4  1
##
## $Area.Income
##
## 13996.50 14548.06 14775.50 15598.29 15879.10 17709.98 18368.57 18819.34
##          1          1          1          1          1          1          1          1
## 19345.36 19991.72 20592.99 20856.54 21644.91 21773.22 22205.74 22456.04
##          1          1          1          1          1          1          1          1
## 22473.08 23410.75 23821.72 23936.86 23942.61 23975.35 24030.06 24078.93
##          1          1          1          1          1          1          1          1
## 24316.61 24593.33 24852.90 25371.52 25408.21 25583.29 25598.75 25603.93
##          1          1          1          1          1          1          1          1
## 25682.65 25686.34 25739.09 25767.16 26023.99 26130.93 27073.27 27086.40
##          1          1          1          1          1          1          1          1
## 27241.11 27262.51 27508.41 27964.60 28019.09 28028.74 28186.65 28210.03
##          1          1          1          1          1          1          1          1
## 28265.81 28271.84 28275.48 28357.27 28387.42 28495.21 28679.93 29359.20
##          1          1          1          1          1          1          1          1
## 29398.61 29727.79 29875.80 30227.98 30487.48 30726.26 30976.00 31072.44
##          1          1          1          1          1          1          1          1
## 31087.54 31092.93 31215.88 31265.75 31281.01 31343.39 31523.09 31947.65
##          1          1          1          1          1          1          1          1
## 31998.72 32006.82 32252.38 32536.98 32549.95 32593.59 32635.70 32689.04
##          1          1          1          1          1          1          1          1
## 32708.94 32847.53 33147.19 33239.20 33258.09 33293.78 33502.57 33553.90
##          1          1          1          1          1          1          1          1
## 33601.84 33813.08 33951.63 33987.27 34127.21 34191.13 34191.23 34309.24
##          1          1          1          1          1          1          1          1
## 34418.09 34886.01 34903.67 34942.26 35253.98 35349.26 35350.55 35466.80
##          1          1          1          1          1          1          1          1
## 35521.88 35684.82 35764.49 36037.33 36424.94 36497.22 36752.24 36782.38
##          1          1          1          1          1          1          1          1
## 36834.04 36884.23 36913.51 37212.54 37334.78 37345.24 37345.34 37605.11
##          1          1          1          1          1          1          1          1
## 37713.23 37838.72 37908.29 38067.08 38260.89 38349.78 38427.66 38609.20
##          1          1          1          1          1          1          1          1
## 38641.20 38645.40 38745.29 38817.40 38987.42 39031.89 39131.53 39132.64
##          1          1          1          1          1          1          1          1
## 39193.45 39211.49 39552.49 39616.00 39699.13 39723.97 39799.73 39809.69
##          1          1          1          1          1          1          1          1
## 39840.55 39939.39 40135.06 40159.20 40182.84 40183.75 40243.82 40345.49
##          1          1          1          1          1          1          1          1
## 40468.53 40478.83 40763.13 40926.93 41059.64 41097.17 41229.16 41232.89
##          1          1          1          1          1          1          1          1
## 41335.84 41356.31 41417.27 41521.28 41547.62 41629.86 41768.13 41851.38
##          1          1          1          1          1          1          1          1
## 41866.55 41884.64 41920.79 42042.95 42078.89 42136.33 42162.90 42191.61

```

##	1	1	1	1	1	1	1	1
##	42251.59	42362.49	42415.72	42581.23	42650.32	42696.67	42760.22	42838.29
##	1	1	1	1	1	1	1	1
##	42861.42	42898.21	42907.89	42993.48	42995.80	43073.78	43111.41	43155.19
##	1	1	1	1	1	1	1	1
##	43241.19	43241.88	43299.63	43313.73	43386.07	43444.86	43450.11	43573.66
##	1	1	1	1	1	1	1	1
##	43662.10	43698.53	43708.88	43778.88	43870.51	43881.73	43974.49	44078.24
##	1	1	1	1	1	1	1	1
##	44174.25	44217.68	44248.52	44275.13	44304.13	44307.18	44490.09	44559.43
##	1	1	1	1	1	1	1	1
##	44893.71	45400.50	45465.25	45522.44	45580.92	45593.93	45632.51	45716.48
##	1	1	1	1	1	1	1	1
##	45800.48	45945.88	45959.86	46004.31	46024.29	46033.73	46132.18	46160.63
##	1	1	1	1	1	1	1	1
##	46179.97	46197.59	46239.14	46339.25	46403.18	46422.76	46473.14	46500.11
##	1	1	1	1	1	1	1	1
##	46557.92	46653.75	46693.76	46722.07	46737.34	46780.09	46868.53	46931.03
##	1	1	1	1	1	1	1	1
##	46964.11	46974.15	47051.02	47139.21	47160.53	47169.14	47258.59	47314.45
##	1	1	1	1	1	1	1	1
##	47338.94	47357.39	47391.95	47447.89	47510.42	47575.44	47638.30	47682.28
##	1	1	1	1	1	1	1	1
##	47708.42	47861.93	47929.83	47968.32	47997.75	48098.86	48206.04	48246.60
##	1	1	1	1	1	1	1	1
##	48335.20	48347.64	48376.14	48453.55	48467.68	48537.18	48554.45	48679.54
##	1	1	1	1	1	1	1	1
##	48758.92	48761.14	48826.14	48852.58	48867.36	48867.67	48913.07	48918.55
##	1	1	1	1	1	1	1	1
##	49030.03	49090.51	49101.67	49111.47	49158.50	49206.40	49269.98	49282.87
##	1	1	1	1	1	1	1	1
##	49309.14	49325.48	49457.48	49525.37	49544.41	49597.08	49742.83	49822.78
##	1	1	1	1	1	1	1	1
##	49850.52	49911.25	49942.66	49957.00	49995.63	50038.65	50055.33	50086.17
##	1	1	1	1	1	1	1	1
##	50147.72	50199.77	50216.01	50278.89	50333.72	50335.46	50337.93	50356.06
##	1	1	1	1	1	1	1	1
##	50439.49	50457.01	50468.36	50491.45	50506.44	50628.31	50666.50	50671.60
##	1	1	1	1	1	1	1	1
##	50711.68	50723.67	50760.23	50820.74	50950.24	50960.08	50971.73	50983.75
##	1	1	1	1	1	1	1	1
##	51013.37	51015.11	51049.47	51067.54	51119.93	51163.14	51171.23	51257.26
##	1	1	1	1	1	1	1	1
##	51315.38	51317.33	51363.16	51409.45	51463.17	51473.28	51501.38	51510.18
##	1	1	1	1	1	1	1	1
##	51512.66	51593.46	51600.47	51633.34	51636.12	51636.92	51662.24	51691.55
##	1	1	1	1	1	1	1	1
##	51739.63	51772.58	51812.71	51816.27	51824.01	51847.26	51864.77	51868.85
##	1	1	1	1	1	1	1	1
##	51869.87	51900.03	51920.49	51975.41	52011.00	52079.18	52097.32	52140.04
##	1	1	1	1	1	1	1	1
##	52177.40	52178.98	52182.23	52252.91	52261.73	52336.64	52340.10	52400.88
##	1	1	1	1	1	1	1	1
##	52416.18	52462.04	52520.75	52530.10	52563.22	52581.16	52656.13	52686.47

##	1	1	1	1	1	1	1	1
##	52691.79	52723.34	52736.33	52802.00	52802.58	52968.22	53012.94	53041.77
##	1	1	1	1	1	1	1	1
##	53042.51	53049.44	53058.91	53167.68	53185.34	53188.69	53223.58	53309.61
##	1	1	1	1	1	1	1	1
##	53336.76	53350.11	53412.32	53431.35	53441.69	53549.94	53575.48	53647.81
##	1	1	1	1	1	1	1	1
##	53673.08	53700.57	53767.12	53817.02	53852.85	53898.89	53922.43	54045.39
##	1	1	1	1	1	1	1	1
##	54106.21	54251.78	54286.10	54324.73	54429.17	54520.14	54541.56	54645.20
##	1	1	1	1	1	1	1	1
##	54725.87	54755.71	54773.99	54774.77	54787.37	54806.18	54875.95	54952.42
##	1	1	1	1	1	1	1	1
##	54989.93	55002.05	55015.08	55041.60	55121.65	55130.96	55187.85	55195.61
##	1	1	1	1	1	1	1	1
##	55316.97	55336.18	55353.41	55358.88	55368.67	55411.06	55424.24	55479.62
##	1	1	1	1	1	1	1	1
##	55499.69	55605.92	55642.32	55677.12	55764.43	55787.58	55901.12	55942.04
##	1	1	1	1	1	1	1	1
##	55984.89	55993.68	56067.38	56113.37	56129.89	56180.93	56194.56	56216.57
##	1	1	1	1	1	1	1	1
##	56242.70	56366.88	56369.74	56379.30	56394.82	56435.60	56457.01	56570.06
##	1	1	1	1	1	1	1	1
##	56593.80	56605.12	56637.59	56681.65	56683.32	56694.12	56725.47	56729.78
##	1	1	1	1	1	1	1	1
##	56735.14	56735.83	56759.48	56770.79	56782.18	56791.75	56884.74	56909.30
##	1	1	1	1	1	1	1	1
##	56974.51	56984.09	56986.73	57009.76	57014.84	57032.36	57179.91	57195.96
##	1	1	1	1	1	1	1	1
##	57260.41	57330.43	57425.87	57518.73	57519.64	57545.56	57587.00	57594.70
##	1	1	1	1	1	1	1	1
##	57667.99	57669.41	57691.95	57737.51	57739.03	57756.89	57777.11	57806.03
##	1	1	1	1	1	1	1	1
##	57844.96	57846.68	57868.44	57877.15	57887.64	57983.30	58019.64	58037.66
##	1	1	1	1	1	1	1	1
##	58114.30	58151.87	58183.04	58235.21	58287.86	58295.82	58337.18	58342.63
##	1	1	1	1	1	1	1	1
##	58348.41	58363.12	58443.99	58476.57	58526.04	58543.94	58576.12	58633.63
##	1	1	1	1	1	1	1	1
##	58638.75	58677.69	58776.67	58820.16	58847.07	58849.77	58909.36	58920.44
##	1	1	1	1	1	1	1	1
##	58953.01	58966.22	58996.12	58996.56	59047.91	59106.12	59144.02	59240.24
##	1	1	1	1	1	1	1	1
##	59243.46	59340.99	59397.89	59419.78	59422.47	59448.44	59457.52	59550.05
##	1	1	1	1	1	1	1	1
##	59593.56	59610.81	59621.02	59677.64	59683.16	59761.56	59784.18	59785.94
##	1	1	1	1	1	1	1	1
##	59797.64	59886.58	59967.19	59998.50	60015.57	60082.66	60151.77	60188.38
##	1	1	1	1	1	1	1	1
##	60192.72	60223.52	60248.97	60283.47	60283.98	60309.58	60315.19	60333.38
##	1	1	1	1	1	1	1	1
##	60372.64	60465.72	60514.05	60550.66	60575.99	60583.02	60637.62	60638.38
##	1	1	1	1	1	1	1	1
##	60641.09	60803.00	60803.37	60805.93	60812.77	60843.32	60845.55	60879.48

##	1	1	1	1	1	1	1	1
##	60938.73	60953.93	60968.62	60997.84	61004.51	61005.87	61009.10	61039.13
##	1	1	1	1	1	1	1	1
##	61067.58	61068.26	61117.50	61142.33	61161.29	61172.07	61227.59	61228.96
##	1	1	1	1	1	1	1	1
##	61230.03	61270.14	61275.18	61383.79	61389.50	61428.18	61467.33	61526.25
##	1	1	1	1	1	1	1	1
##	61601.05	61608.23	61610.05	61617.98	61625.87	61628.72	61652.53	61690.93
##	1	1	1	1	1	1	1	1
##	61747.98	61757.12	61770.34	61771.90	61806.31	61833.90	61840.26	61922.06
##	1	1	1	1	1	1	1	1
##	62053.37	62060.11	62109.80	62161.26	62204.93	62238.58	62312.23	62318.38
##	1	1	1	1	1	1	1	1
##	62330.75	62336.39	62378.05	62430.55	62463.70	62466.10	62475.99	62491.01
##	1	1	1	1	1	1	1	1
##	62572.88	62589.84	62657.53	62667.51	62669.59	62722.57	62729.40	62772.42
##	1	1	1	1	1	1	1	1
##	62784.85	62790.96	62792.43	62927.96	62939.50	63001.03	63006.14	63060.55
##	1	1	1	1	1	1	1	1
##	63071.34	63100.13	63102.19	63107.88	63109.74	63115.34	63126.96	63274.88
##	1	1	1	1	1	1	1	1
##	63296.87	63319.99	63336.85	63363.04	63373.70	63394.41	63429.18	63430.33
##	1	1	1	1	1	1	1	1
##	63450.96	63493.60	63497.62	63528.80	63551.67	63580.22	63649.04	63664.32
##	1	1	1	1	1	1	1	1
##	63727.50	63764.28	63879.72	63883.81	63891.29	63924.82	63936.50	63965.16
##	1	1	1	1	1	1	1	1
##	63966.72	63976.44	64008.55	64011.26	64021.55	64045.93	64122.36	64147.86
##	1	1	1	1	1	1	1	1
##	64188.50	64235.51	64238.71	64264.25	64267.88	64287.78	64395.85	64410.80
##	1	1	1	1	1	1	1	1
##	64433.99	64447.77	64564.07	64631.22	64654.66	64698.58	64775.10	64802.33
##	1	1	1	1	1	1	1	1
##	64828.00	64902.47	64927.19	64929.61	65044.59	65120.86	65172.22	65180.97
##	1	1	1	1	1	1	1	1
##	65186.58	65227.79	65229.13	65280.16	65421.39	65461.92	65496.78	65499.93
##	1	1	1	1	1	1	1	1
##	65576.05	65620.25	65653.47	65704.79	65756.36	65773.49	65791.17	65816.38
##	1	1	1	1	1	1	1	1
##	65826.53	65834.97	65856.74	65882.81	65883.39	65899.68	65953.76	65956.71
##	1	1	1	1	1	1	1	1
##	65963.37	66025.11	66027.31	66050.63	66107.84	66176.97	66187.58	66193.81
##	1	1	1	1	1	1	1	1
##	66198.66	66200.96	66217.31	66225.72	66262.59	66263.37	66265.34	66269.49
##	1	1	1	1	1	1	1	1
##	66281.46	66291.67	66345.10	66348.95	66359.32	66412.04	66429.84	66431.87
##	1	1	1	1	1	1	1	1
##	66504.16	66522.79	66524.80	66541.05	66572.39	66574.00	66618.21	66624.60
##	1	1	1	1	1	1	1	1
##	66629.61	66636.84	66691.23	66699.12	66744.65	66773.83	66784.81	66815.54
##	1	1	1	1	1	1	1	1
##	66861.67	66873.90	66929.03	66980.27	67033.34	67050.16	67058.72	67080.94
##	1	1	1	1	1	1	1	1
##	67113.46	67132.46	67186.54	67240.25	67279.06	67301.39	67307.43	67323.00

##	1	1	1	1	1	1	1	1	1
##	67384.31	67430.96	67432.49	67479.62	67511.86	67516.07	67526.92	67575.12	
##	1	1	1	1	1	1	1	1	1
##	67633.44	67669.06	67682.32	67686.16	67714.82	67744.56	67781.31	67782.17	
##	1	1	1	1	1	1	1	1	1
##	67866.95	67938.77	67990.84	68016.90	68030.18	68033.54	68094.85	68211.35	
##	1	1	1	1	1	1	1	1	1
##	68305.91	68324.48	68333.01	68348.99	68357.96	68441.85	68447.17	68448.94	
##	1	1	1	1	1	1	1	1	1
##	68519.96	68614.98	68713.70	68717.00	68737.75	68783.45	68787.09	68862.00	
##	1	1	1	1	1	1	1	1	1
##	68863.95	68877.02	68962.32	69112.84	69285.69	69428.73	69438.04	69456.83	
##	1	1	1	1	1	1	1	1	1
##	69476.42	69481.85	69562.46	69646.35	69710.51	69718.19	69758.31	69775.75	
##	1	1	1	1	1	1	1	1	1
##	69784.85	69805.70	69868.48	69869.66	69874.18	70005.51	70012.83	70053.27	
##	1	1	1	1	1	1	1	1	1
##	70179.11	70185.06	70203.74	70225.60	70232.95	70324.80	70377.23	70410.11	
##	1	1	1	1	1	1	1	1	1
##	70449.04	70492.60	70495.64	70505.06	70510.59	70547.16	70575.60	70582.55	
##	1	1	1	1	1	1	1	1	1
##	70592.81	70701.31	70783.94	70889.68	71055.22	71136.49	71157.05	71222.40	
##	1	1	1	1	1	1	1	1	1
##	71228.44	71296.67	71384.57	71392.53	71455.62	71511.08	71718.51	71727.51	
##	1	1	1	1	1	1	1	1	1
##	71881.84	72042.85	72154.68	72188.90	72196.29	72203.96	72209.99	72270.88	
##	1	1	1	1	1	1	1	1	1
##	72272.90	72325.91	72330.57	72423.97	72524.86	72553.94	72683.35	72684.44	
##	1	1	1	1	1	1	1	1	1
##	72707.87	72802.42	72948.76	73049.30	73104.47	73174.19	73207.15	73234.87	
##	1	1	1	1	1	1	1	1	1
##	73347.67	73392.28	73413.87	73474.82	73538.09	73600.28	73608.99	73687.50	
##	1	1	1	1	1	1	1	1	1
##	73863.25	73882.91	73884.48	73889.99	73910.90	73941.91	74024.61	74159.69	
##	1	1	1	1	1	1	1	1	1
##	74166.24	74180.05	74430.08	74445.18	74535.94	74543.81	74623.27	74780.74	
##	1	1	1	1	1	1	1	1	1
##	74903.41	75044.35	75180.20	75254.88	75265.96	75509.61	75524.78	75535.14	
##	1	1	1	1	1	1	1	1	1
##	75560.65	75687.46	75769.82	75805.12	76003.47	76246.96	76368.31	76408.19	
##	1	1	1	1	1	1	1	1	1
##	76435.30	76480.16	76560.59	76893.84	76984.21	77143.61	77220.42	77460.07	
##	1	1	1	1	1	1	1	1	1
##	77567.85	77871.75	77988.71	78092.95	78119.50	78520.99	79332.33	79484.80	
##	1	1	1	1	1	1	1	1	1

##

## \$Daily.Internet.Usage

##

##	104.78	105.00	105.04	105.15	105.22	105.63	105.69	105.71	105.86	105.94	106.04
##	1	1	1	1	1	1	1	1	1	1	1
##	106.86	106.96	107.19	107.56	107.92	108.03	108.10	108.15	108.16	108.17	108.18
##	1	1	1	1	1	1	1	1	1	1	1
##	108.25	108.27	108.70	108.85	109.00	109.04	109.07	109.22	109.29	109.34	109.77
##	1	1	1	1	1	1	1	1	1	1	1

##	109.98	110.25	110.57	110.66	110.68	110.84	110.93	111.02	111.59	111.63	111.71
##	1	1	1	1	1	1	1	1	1	1	1
##	111.80	111.94	112.19	112.52	112.72	113.12	113.53	113.69	113.70	113.75	113.80
##	1	1	1	1	1	1	2	1	1	1	1
##	114.53	114.69	114.85	115.26	115.35	115.37	115.60	115.79	115.91	116.07	116.19
##	1	1	1	1	1	1	1	1	2	1	1
##	116.27	116.38	116.53	117.30	117.33	117.35	117.66	117.75	118.10	118.16	118.27
##	1	1	1	2	1	1	1	1	1	1	1
##	118.39	118.45	118.60	118.69	119.03	119.20	119.27	119.30	119.32	119.47	119.65
##	1	1	1	1	1	1	1	2	1	1	1
##	119.84	119.86	119.93	120.06	120.12	120.25	120.37	120.46	120.49	120.63	120.75
##	1	1	1	2	1	1	1	1	1	1	1
##	120.85	120.90	120.95	121.05	121.07	121.24	121.28	121.57	121.81	122.02	122.04
##	1	1	1	1	1	1	1	1	1	1	1
##	122.31	122.45	122.59	123.08	123.13	123.22	123.24	123.25	123.28	123.51	123.62
##	1	1	1	1	1	1	1	1	1	1	1
##	123.64	123.71	123.72	123.80	123.86	123.91	124.32	124.34	124.38	124.44	124.54
##	1	1	1	1	1	1	1	1	1	1	1
##	124.58	124.61	124.67	124.85	125.11	125.12	125.20	125.22	125.27	125.45	125.46
##	1	1	1	1	1	1	1	1	1	2	1
##	125.65	125.85	125.94	126.11	126.29	126.39	126.44	126.95	126.97	127.01	127.07
##	1	1	1	1	1	1	1	1	1	1	1
##	127.11	127.20	127.26	127.37	127.56	127.65	127.82	127.83	128.00	128.16	128.17
##	1	1	1	1	1	1	1	1	1	1	1
##	128.37	128.48	128.62	128.95	128.98	129.01	129.16	129.23	129.25	129.31	129.33
##	1	1	1	1	1	1	1	1	1	1	1
##	129.41	129.80	129.88	130.40	130.41	130.83	130.84	130.86	131.29	131.55	131.68
##	1	1	1	1	1	1	1	1	1	1	1
##	131.72	131.76	131.98	132.07	132.08	132.27	132.31	132.38	132.55	132.63	132.66
##	1	1	1	1	1	1	1	2	1	1	1
##	132.71	133.17	133.18	133.20	133.42	133.81	133.90	133.99	134.14	134.42	134.46
##	1	1	1	1	1	1	1	1	1	1	1
##	134.60	134.88	135.08	135.18	135.24	135.25	135.31	135.48	135.51	135.67	135.72
##	1	1	1	1	2	1	1	1	1	1	1
##	136.18	136.21	136.40	136.59	136.64	136.85	136.94	136.99	137.20	137.24	137.28
##	2	1	1	1	1	1	1	1	1	1	1
##	137.43	137.63	137.97	138.35	138.46	138.52	138.55	138.68	138.71	138.87	139.01
##	1	1	1	2	1	1	1	1	1	1	1
##	139.02	139.32	139.34	139.42	140.15	140.39	140.46	140.64	140.67	140.77	140.83
##	1	1	1	1	1	1	1	1	1	1	1
##	140.95	141.13	141.22	141.34	141.36	141.52	141.58	141.89	141.96	142.04	142.21
##	1	1	1	1	1	1	1	1	1	1	1
##	142.23	142.67	142.81	143.04	143.13	143.42	143.56	143.79	143.94	144.27	144.53
##	1	1	1	1	1	1	1	1	1	1	1
##	144.62	144.69	144.71	144.77	145.08	145.48	145.73	145.85	145.96	145.98	146.13
##	1	1	1	1	1	1	1	1	1	1	1
##	146.19	146.44	146.80	147.61	147.64	147.75	147.92	148.19	148.61	148.93	149.20
##	1	1	1	1	1	1	1	1	1	1	1
##	149.21	149.25	149.53	149.67	149.79	149.80	150.29	150.61	150.77	150.79	150.80
##	1	1	1	1	1	1	1	1	1	1	1
##	150.83	150.84	150.99	151.12	151.18	151.25	151.47	151.54	151.63	151.72	151.93
##	1	1	1	1	1	1	1	1	1	1	1
##	151.94	151.95	151.96	152.24	152.36	152.49	152.86	152.94	153.01	153.12	153.17
##	1	1	1	1	1	1	1	1	1	1	1



##	153.69	153.76	153.98	154.00	154.02	154.23	154.74	154.75	154.77	154.93	154.97
##	1	1	1	1	1	1	1	1	1	1	1
##	155.80	156.11	156.30	156.36	156.48	156.54	156.97	156.99	157.04	158.03	158.05
##	1	1	1	1	1	1	1	1	1	1	1
##	158.22	158.29	158.35	158.42	158.56	158.80	158.81	159.05	159.24	159.46	159.60
##	2	1	1	1	1	1	1	1	1	1	1
##	159.69	159.77	160.03	160.33	160.49	160.73	160.74	161.16	161.24	161.29	161.42
##	1	1	1	1	1	1	1	2	1	1	1
##	161.58	161.77	161.79	162.03	162.05	162.08	162.43	162.44	162.46	162.95	163.00
##	1	1	1	1	1	1	1	2	1	1	1
##	163.05	163.38	163.48	163.99	164.02	164.25	164.63	164.83	165.27	165.43	165.52
##	1	1	1	1	1	2	1	1	1	1	1
##	165.56	165.62	165.65	166.19	166.29	166.31	166.85	166.86	167.07	167.22	167.26
##	1	1	1	1	1	1	1	1	1	2	1
##	167.41	167.42	167.67	167.86	167.87	168.00	168.15	168.27	168.29	168.34	168.41
##	1	1	1	1	1	1	1	1	1	1	1
##	168.92	169.10	169.18	169.23	169.40	169.50	169.88	170.04	170.13	170.49	170.90
##	1	1	1	1	2	1	1	1	1	1	1
##	171.07	171.23	171.24	171.31	171.54	171.62	171.72	171.90	172.10	172.57	172.58
##	1	1	1	1	1	1	1	1	1	1	1
##	172.81	172.83	173.01	173.05	173.43	173.49	173.75	174.55	174.88	175.14	175.17
##	1	1	1	1	1	1	1	1	1	1	1
##	175.37	175.43	176.28	176.52	176.70	176.73	176.78	176.98	177.46	177.55	177.78
##	1	1	1	1	1	1	1	1	1	1	1
##	178.35	178.51	178.69	178.75	178.85	178.92	179.04	179.58	179.82	180.42	180.47
##	1	1	1	2	1	1	1	1	1	1	1
##	180.77	180.88	181.02	181.11	181.25	182.11	182.20	182.65	182.84	183.42	183.43
##	1	1	1	1	1	1	1	2	1	1	1
##	183.48	183.82	183.85	184.03	184.10	184.23	184.88	184.94	184.98	185.45	185.46
##	1	1	1	1	1	1	1	1	1	1	1
##	185.47	185.85	186.37	186.48	186.98	187.03	187.09	187.36	187.53	187.64	187.76
##	1	1	1	1	1	1	1	1	1	1	1
##	187.95	188.27	188.32	188.56	189.91	190.05	190.08	190.12	190.17	190.25	190.41
##	1	1	1	1	1	1	1	1	1	1	1
##	190.71	190.75	190.84	190.95	191.14	191.17	191.26	191.78	191.82	192.27	192.50
##	1	1	1	2	1	1	1	1	1	1	1
##	192.57	192.60	192.81	192.85	192.93	193.15	193.29	193.58	193.60	193.63	193.77
##	1	1	1	1	1	1	1	1	1	1	1
##	193.80	193.97	194.23	194.37	194.44	194.56	194.62	194.83	194.95	195.07	195.31
##	1	1	2	1	1	1	1	1	1	1	1
##	195.36	195.54	195.56	195.68	195.69	195.89	195.91	195.93	196.17	196.23	196.61
##	1	1	1	1	1	1	1	1	1	1	1
##	196.71	196.76	196.77	196.83	197.15	197.33	197.66	197.93	198.11	198.13	198.24
##	1	1	1	1	1	1	1	1	1	1	1
##	198.30	198.32	198.45	198.50	198.56	198.72	198.79	198.86	199.08	199.25	199.29
##	1	1	1	1	1	1	1	1	1	1	1
##	199.39	199.40	199.43	199.62	199.76	199.79	200.22	200.23	200.28	200.55	200.58
##	1	1	1	1	1	1	1	1	1	1	1
##	200.59	200.71	201.04	201.15	201.24	201.26	201.29	201.54	201.58	202.12	202.16
##	1	1	1	2	1	1	1	1	1	1	1
##	202.18	202.25	202.34	202.61	202.70	202.77	202.90	203.23	203.30	203.44	203.74
##	1	1	1	1	1	1	1	1	1	1	1
##	203.84	203.87	203.90	204.02	204.22	204.27	204.40	204.47	204.52	204.56	204.79
##	1	1	1	1	1	1	1	1	1	1	1

##	204.82	204.86	205.38	205.50	205.64	205.71	205.84	206.79	206.98	207.17	207.18
##	1	1	1	1	1	1	1	1	1	1	1
##	207.27	207.44	207.48	207.53	207.87	207.96	208.01	208.02	208.05	208.21	208.23
##	1	1	1	1	1	1	1	1	1	1	1
##	208.24	208.36	208.58	208.76	209.25	209.64	209.72	209.82	209.91	209.93	210.23
##	1	1	1	1	1	1	1	1	1	1	1
##	210.26	210.27	210.39	210.46	210.53	210.54	210.60	210.87	211.12	211.17	211.38
##	1	1	1	1	1	1	1	1	1	1	1
##	211.39	211.56	211.64	211.65	211.83	211.87	212.30	212.38	212.56	212.58	212.59
##	1	1	1	1	1	2	1	1	1	1	1
##	212.67	212.79	212.87	212.88	212.92	213.36	213.38	213.70	213.75	213.96	214.06
##	1	1	1	1	1	1	1	1	1	1	1
##	214.08	214.23	214.33	214.38	214.42	214.49	214.53	214.74	215.04	215.18	215.25
##	1	1	1	1	2	1	1	1	1	2	1
##	215.29	215.44	215.93	216.00	216.01	216.03	216.24	216.49	216.50	216.57	216.87
##	1	1	1	1	1	1	1	1	1	1	1
##	217.10	217.37	217.66	217.68	217.79	217.85	218.17	218.22	218.49	218.61	218.79
##	1	1	1	1	1	1	1	1	1	1	1
##	218.80	218.97	219.49	219.55	219.69	219.72	219.75	219.79	219.91	219.94	219.98
##	1	1	1	1	1	2	1	1	1	1	1
##	220.05	220.08	220.48	220.92	221.18	221.21	221.51	221.53	221.59	221.79	221.94
##	1	1	1	1	1	1	1	1	1	1	1
##	221.98	222.08	222.11	222.25	222.26	222.35	222.63	222.72	222.75	222.77	222.87
##	1	1	2	1	1	1	1	1	1	1	1
##	222.91	223.03	223.09	223.16	223.20	223.28	223.93	224.01	224.07	224.20	224.23
##	1	1	1	2	1	1	1	1	1	1	1
##	224.44	224.58	224.82	224.90	224.92	224.98	225.00	225.02	225.05	225.23	225.24
##	1	1	1	1	1	1	1	1	1	1	1
##	225.29	225.34	225.47	225.58	225.76	225.87	225.97	225.99	226.11	226.45	226.49
##	1	1	1	1	1	1	1	1	1	1	1
##	226.54	226.64	226.69	226.74	226.79	227.37	227.53	227.56	227.63	227.72	227.73
##	1	1	1	1	1	1	1	1	1	1	1
##	228.03	228.70	228.76	228.78	228.81	228.94	229.12	229.19	229.22	229.88	229.99
##	1	1	1	1	2	1	1	1	1	1	1
##	230.14	230.18	230.36	230.52	230.77	230.78	230.87	230.90	230.91	230.93	230.95
##	1	1	2	1	1	1	1	1	1	1	1
##	231.07	231.21	231.28	231.37	231.38	231.42	231.48	231.49	231.54	231.59	231.85
##	1	1	1	1	1	1	1	1	1	1	1
##	231.87	231.91	231.94	231.95	232.21	232.54	232.68	232.78	233.04	233.36	233.56
##	1	1	1	1	1	1	1	1	1	1	1
##	233.60	233.61	233.65	233.85	233.93	234.23	234.26	234.64	234.72	234.75	234.81
##	1	1	1	1	1	1	1	1	1	2	1
##	235.01	235.28	235.29	235.35	235.56	235.78	235.94	235.97	235.99	236.08	236.15
##	1	2	1	1	1	1	1	1	1	1	1
##	236.19	236.29	236.50	236.64	236.72	236.75	236.87	236.96	237.34	237.39	238.06
##	1	1	1	1	1	1	1	2	1	1	1
##	238.10	238.43	238.45	238.58	238.63	238.99	239.22	239.32	239.52	239.76	239.94
##	1	1	1	1	1	1	1	1	1	1	1
##	240.09	240.63	240.64	240.95	241.03	241.36	241.38	241.50	241.80	242.37	242.59
##	1	1	1	1	1	1	1	1	1	1	1
##	243.37	243.61	244.23	244.34	244.40	244.55	244.87	244.91	245.50	245.76	245.78
##	1	1	1	1	1	1	1	1	1	1	1
##	245.89	246.06	246.29	246.44	246.72	247.01	247.05	247.31	247.90	248.12	248.16
##	1	1	1	1	1	1	2	1	1	1	1

##	248.19	248.23	248.51	249.45	249.54	249.81	249.99	250.00	250.03	250.11	250.20
##	1	1	1	1	1	1	1	1	1	1	1
##	250.32	250.35	250.36	251.00	251.08	252.07	252.36	252.60	252.77	253.17	253.48
##	1	1	1	1	1	1	1	1	1	1	1
##	254.05	254.34	254.57	254.59	254.65	254.94	255.07	255.57	255.61	256.09	256.39
##	1	1	1	1	1	1	1	1	1	1	1
##	256.40	258.06	258.26	258.62	259.76	261.02	261.52	267.01	269.96		
##	2	1	1	1	1	1	1	1	1		

##

## \$Ad.Topic.Line

##

## Adaptive 24hour Graphic Interface

## 1

## Adaptive asynchronous attitude

## 1

## Adaptive context-sensitive application

## 1

## Adaptive contextually-based methodology

## 1

## Adaptive demand-driven knowledgebase

## 1

## Adaptive uniform capability

## 1

## Advanced 24/7 productivity

## 1

## Advanced 5thgeneration capability

## 1

## Advanced didactic conglomeration

## 1

## Advanced disintermediate data-warehouse

## 1

## Advanced exuding conglomeration

## 1

## Advanced full-range migration

## 1

## Advanced heuristic firmware

## 1

## Advanced local task-force

## 1

## Advanced modular Local Area Network

## 1

## Advanced systemic productivity

## 1

## Advanced web-enabled standardization

## 1

## Ameliorated actuating workforce

## 1

## Ameliorated bandwidth-monitored contingency

## 1

## Ameliorated client-driven forecast

## 1

## Ameliorated coherent open architecture

## 1

## Ameliorated contextually-based collaboration

##		1
##	Ameliorated discrete extranet	
##		1
##	Ameliorated exuding encryption	
##		1
##	Ameliorated exuding solution	
##		1
##	Ameliorated intermediate Graphical User Interface	
##		1
##	Ameliorated leadingedge help-desk	
##		1
##	Ameliorated local workforce	
##		1
##	Ameliorated tangible hierarchy	
##		1
##	Ameliorated upward-trending definition	
##		1
##	Ameliorated user-facing help-desk	
##		1
##	Ameliorated well-modulated complexity	
##		1
##	Assimilated actuating policy	
##		1
##	Assimilated discrete strategy	
##		1
##	Assimilated encompassing portal	
##		1
##	Assimilated fault-tolerant hub	
##		1
##	Assimilated homogeneous service-desk	
##		1
##	Assimilated hybrid initiative	
##		1
##	Assimilated multi-state paradigm	
##		1
##	Assimilated next generation firmware	
##		1
##	Assimilated stable encryption	
##		1
##	Automated client-driven orchestration	
##		1
##	Automated coherent flexibility	
##		1
##	Automated directional function	
##		1
##	Automated full-range Internet solution	
##		1
##	Automated mobile model	
##		1
##	Automated multi-state toolset	
##		1
##	Automated object-oriented firmware	
##		1
##	Automated stable help-desk	

```

##                                     1
##           Automated static concept
##                                     1
##           Automated web-enabled migration
##                                     1
##           Balanced 4thgeneration success
##                                     1
##           Balanced actuating moderator
##                                     1
##           Balanced asynchronous hierarchy
##                                     1
##           Balanced contextually-based pricing structure
##                                     1
##           Balanced discrete approach
##                                     1
##           Balanced disintermediate conglomeration
##                                     1
##           Balanced dynamic application
##                                     1
##           Balanced empowering success
##                                     1
##           Balanced executive definition
##                                     1
##           Balanced heuristic approach
##                                     1
##           Balanced mobile Local Area Network
##                                     1
##           Balanced motivating help-desk
##                                     1
##           Balanced responsive open system
##                                     1
##           Balanced uniform algorithm
##                                     1
##           Balanced value-added database
##                                     1
##           Business-focused asynchronous budgetary management
##                                     1
##           Business-focused background synergy
##                                     1
##           Business-focused client-driven forecast
##                                     1
##           Business-focused encompassing neural-net
##                                     1
##           Business-focused high-level hardware
##                                     1
##           Business-focused holistic benchmark
##                                     1
##           Business-focused maximized complexity
##                                     1
##           Business-focused real-time toolset
##                                     1
##           Business-focused responsive website
##                                     1
##           Business-focused transitional solution

```

##		1
##	Business-focused user-facing benchmark	
##		1
##	Business-focused value-added definition	
##		1
##	Centralized 24/7 installation	
##		1
##	Centralized 24hour synergy	
##		1
##	Centralized asynchronous portal	
##		1
##	Centralized clear-thinking Graphic Interface	
##		1
##	Centralized client-driven workforce	
##		1
##	Centralized content-based focus group	
##		1
##	Centralized logistical secured line	
##		1
##	Centralized multi-state hierarchy	
##		1
##	Centralized neutral neural-net	
##		1
##	Centralized systematic knowledgebase	
##		1
##	Centralized tertiary pricing structure	
##		1
##	Centralized user-facing service-desk	
##		1
##	Centralized value-added hierarchy	
##		1
##	Cloned 5thgeneration orchestration	
##		1
##	Cloned analyzing artificial intelligence	
##		1
##	Cloned dedicated analyzer	
##		1
##	Cloned explicit middleware	
##		1
##	Cloned incremental matrices	
##		1
##	Cloned object-oriented benchmark	
##		1
##	Cloned optimal leverage	
##		1
##	Compatible composite project	
##		1
##	Compatible dedicated productivity	
##		1
##	Compatible intangible customer loyalty	
##		1
##	Compatible intermediate concept	
##		1
##	Compatible scalable emulation	

```

##                                     1
##             Compatible systemic function
##                                     1
##             Configurable 24/7 hub
##                                     1
##             Configurable asynchronous application
##                                     1
##             Configurable bottom-line application
##                                     1
##             Configurable coherent function
##                                     1
##             Configurable disintermediate throughput
##                                     1
##             Configurable dynamic adapter
##                                     1
##             Configurable dynamic secured line
##                                     1
##             Configurable fault-tolerant monitoring
##                                     1
##             Configurable impactful capacity
##                                     1
##             Configurable impactful firmware
##                                     1
##             Configurable impactful productivity
##                                     1
##             Configurable interactive contingency
##                                     1
##             Configurable logistical Graphical User Interface
##                                     1
##             Configurable mission-critical algorithm
##                                     1
##             Configurable multi-state utilization
##                                     1
##             Configurable tertiary budgetary management
##                                     1
##             Configurable tertiary capability
##                                     1
##             Cross-group global orchestration
##                                     1
##             Cross-group human-resource time-frame
##                                     1
##             Cross-group neutral synergy
##                                     1
##             Cross-group non-volatile secured line
##                                     1
##             Cross-group regional website
##                                     1
##             Cross-group systemic customer loyalty
##                                     1
##             Cross-group value-added success
##                                     1
##             Cross-platform 4thgeneration focus group
##                                     1
##             Cross-platform client-server hierarchy

```

##		1
##	Cross-platform directional intranet	
##		1
##	Cross-platform logistical pricing structure	
##		1
##	Cross-platform multimedia algorithm	
##		1
##	Cross-platform neutral system engine	
##		1
##	Cross-platform regional task-force	
##		1
##	Cross-platform zero-defect structure	
##		1
##	Customer-focused 24/7 concept	
##		1
##	Customer-focused attitude-oriented instruction set	
##		1
##	Customer-focused empowering ability	
##		1
##	Customer-focused explicit challenge	
##		1
##	Customer-focused fault-tolerant implementation	
##		1
##	Customer-focused full-range neural-net	
##		1
##	Customer-focused impactful success	
##		1
##	Customer-focused incremental system engine	
##		1
##	Customer-focused multi-tasking Internet solution	
##		1
##	Customer-focused optimizing moderator	
##		1
##	Customer-focused solution-oriented software	
##		1
##	Customer-focused system-worthy superstructure	
##		1
##	Customer-focused transitional strategy	
##		1
##	Customer-focused upward-trending contingency	
##		1
##	Customer-focused zero-defect process improvement	
##		1
##	Customizable 6thgeneration knowledge user	
##		1
##	Customizable executive software	
##		1
##	Customizable holistic archive	
##		1
##	Customizable homogeneous contingency	
##		1
##	Customizable hybrid system engine	
##		1
##	Customizable methodical Graphical User Interface	



```

##                                     1
##      Customizable mission-critical adapter
##                                     1
##      Customizable modular Internet solution
##                                     1
##      Customizable multi-tasking website
##                                     1
##      Customizable systematic service-desk
##                                     1
##      Customizable tangible hierarchy
##                                     1
##      Customizable value-added project
##                                     1
##      Customizable zero-defect Internet solution
##                                     1
##      Customizable zero-defect matrix
##                                     1
##      De-engineered actuating hierarchy
##                                     1
##      De-engineered attitude-oriented projection
##                                     1
##      De-engineered fault-tolerant database
##                                     1
##      De-engineered intangible flexibility
##                                     1
##      De-engineered mobile infrastructure
##                                     1
##      De-engineered object-oriented protocol
##                                     1
##      De-engineered solution-oriented open architecture
##                                     1
##      De-engineered tertiary secured line
##                                     1
##      Decentralized 24hour approach
##                                     1
##      Decentralized attitude-oriented interface
##                                     1
##      Decentralized bottom-line help-desk
##                                     1
##      Decentralized client-driven data-warehouse
##                                     1
##      Decentralized foreground infrastructure
##                                     1
##      Decentralized methodical capability
##                                     1
##      Decentralized needs-based analyzer
##                                     1
##      Decentralized real-time circuit
##                                     1
##      Devolved exuding Local Area Network
##                                     1
##      Devolved human-resource circuit
##                                     1
##      Devolved regional moderator

```

##		1
##	Devolved responsive structure	
##		1
##	Devolved tangible approach	
##		1
##	Devolved zero administration intranet	
##		1
##	Digitized content-based circuit	
##		1
##	Digitized contextually-based product	
##		1
##	Digitized disintermediate ability	
##		1
##	Digitized global capability	
##		1
##	Digitized heuristic solution	
##		1
##	Digitized homogeneous core	
##		1
##	Digitized interactive initiative	
##		1
##	Digitized radical architecture	
##		1
##	Digitized radical array	
##		1
##	Digitized static capability	
##		1
##	Digitized zero-defect implementation	
##		1
##	Digitized zero administration paradigm	
##		1
##	Distributed 3rdgeneration definition	
##		1
##	Distributed bifurcated challenge	
##		1
##	Distributed cohesive migration	
##		1
##	Distributed fault-tolerant service-desk	
##		1
##	Distributed intangible database	
##		1
##	Distributed leadingedge orchestration	
##		1
##	Distributed maximized ability	
##		1
##	Distributed scalable orchestration	
##		1
##	Distributed tertiary system engine	
##		1
##	Diverse background ability	
##		1
##	Diverse directional hardware	
##		1
##	Diverse executive groupware	

##		1
##	Diverse leadingedge website	
##		1
##	Diverse modular interface	
##		1
##	Diverse multi-tasking parallelism	
##		1
##	Diverse stable circuit	
##		1
##	Down-sized background groupware	
##		1
##	Down-sized bandwidth-monitored core	
##		1
##	Down-sized explicit budgetary management	
##		1
##	Down-sized modular intranet	
##		1
##	Down-sized uniform info-mediaries	
##		1
##	Down-sized well-modulated archive	
##		1
##	Enhanced asymmetric installation	
##		1
##	Enhanced dedicated support	
##		1
##	Enhanced homogeneous moderator	
##		1
##	Enhanced intangible portal	
##		1
##	Enhanced intermediate standardization	
##		1
##	Enhanced maximized access	
##		1
##	Enhanced methodical database	
##		1
##	Enhanced optimizing website	
##		1
##	Enhanced regional conglomeration	
##		1
##	Enhanced system-worthy application	
##		1
##	Enhanced system-worthy toolset	
##		1
##	Enhanced systematic adapter	
##		1
##	Enhanced systemic benchmark	
##		1
##	Enhanced tertiary utilization	
##		1
##	Enhanced zero tolerance Graphic Interface	
##		1
##	Enterprise-wide bi-directional secured line	
##		1
##	Enterprise-wide client-driven contingency	

##		1
##	Enterprise-wide foreground emulation	
##		1
##	Enterprise-wide incremental Internet solution	
##		1
##	Enterprise-wide local matrices	
##		1
##	Enterprise-wide tangible model	
##		1
##	Ergonomic 24/7 solution	
##		1
##	Ergonomic client-driven application	
##		1
##	Ergonomic empowering frame	
##		1
##	Ergonomic full-range time-frame	
##		1
##	Ergonomic methodical encoding	
##		1
##	Ergonomic multi-state structure	
##		1
##	Ergonomic neutral portal	
##		1
##	Ergonomic zero tolerance encoding	
##		1
##	Exclusive client-driven model	
##		1
##	Exclusive cohesive intranet	
##		1
##	Exclusive discrete firmware	
##		1
##	Exclusive disintermediate Internet solution	
##		1
##	Exclusive disintermediate task-force	
##		1
##	Exclusive even-keeled moratorium	
##		1
##	Exclusive multi-state Internet solution	
##		1
##	Exclusive neutral parallelism	
##		1
##	Exclusive systematic algorithm	
##		1
##	Exclusive zero tolerance alliance	
##		1
##	Exclusive zero tolerance frame	
##		1
##	Expanded clear-thinking core	
##		1
##	Expanded full-range synergy	
##		1
##	Expanded intangible solution	
##		1
##	Expanded modular application	

##		1
##	Expanded radical software	
##		1
##	Expanded value-added emulation	
##		1
##	Expanded zero administration attitude	
##		1
##	Extended analyzing emulation	
##		1
##	Extended context-sensitive monitoring	
##		1
##	Extended grid-enabled hierarchy	
##		1
##	Extended interactive model	
##		1
##	Extended leadingedge solution	
##		1
##	Extended local methodology	
##		1
##	Extended systemic policy	
##		1
##	Face-to-face analyzing encryption	
##		1
##	Face-to-face dedicated flexibility	
##		1
##	Face-to-face even-keeled website	
##		1
##	Face-to-face executive encryption	
##		1
##	Face-to-face intermediate approach	
##		1
##	Face-to-face methodical intranet	
##		1
##	Face-to-face mission-critical definition	
##		1
##	Face-to-face modular budgetary management	
##		1
##	Face-to-face multimedia success	
##		1
##	Face-to-face reciprocal methodology	
##		1
##	Face-to-face responsive alliance	
##		1
##	Focused 24hour implementation	
##		1
##	Focused 3rdgeneration pricing structure	
##		1
##	Focused coherent success	
##		1
##	Focused fresh-thinking Graphic Interface	
##		1
##	Focused high-level conglomeration	
##		1
##	Focused high-level frame	

```

##                                     1
##           Focused incremental Graphic Interface
##                                     1
##           Focused intangible moderator
##                                     1
##           Focused multi-state workforce
##                                     1
##           Focused multimedia implementation
##                                     1
##           Focused scalable complexity
##                                     1
##           Focused systemic benchmark
##                                     1
##           Focused upward-trending core
##                                     1
## Focused web-enabled Graphical User Interface
##                                     1
##           Front-line actuating functionalities
##                                     1
## Front-line bandwidth-monitored capacity
##                                     1
##           Front-line bifurcated ability
##                                     1
##           Front-line dynamic model
##                                     1
##           Front-line even-keeled website
##                                     1
##           Front-line fault-tolerant intranet
##                                     1
## Front-line fresh-thinking installation
##                                     1
##           Front-line fresh-thinking open system
##                                     1
##           Front-line heuristic data-warehouse
##                                     1
##           Front-line incremental access
##                                     1
##           Front-line intermediate database
##                                     1
##           Front-line methodical utilization
##                                     1
##           Front-line multi-state hub
##                                     1
##           Front-line neutral alliance
##                                     1
## Front-line non-volatile implementation
##                                     1
##           Front-line system-worthy flexibility
##                                     1
##           Front-line systemic capability
##                                     1
##           Front-line tangible alliance
##                                     1
## Front-line upward-trending groupware

```

```

##                                     1
##                               Front-line zero-defect array
##                                     1
##                   Fully-configurable 5thgeneration circuit
##                                     1
##                   Fully-configurable asynchronous firmware
##                                     1
##                   Fully-configurable clear-thinking throughput
##                                     1
##                   Fully-configurable client-driven customer loyalty
##                                     1
## Fully-configurable context-sensitive Graphic Interface
##                                     1
##                   Fully-configurable eco-centric frame
##                                     1
##                   Fully-configurable foreground solution
##                                     1
##                   Fully-configurable high-level groupware
##                                     1
##                   Fully-configurable high-level implementation
##                                     1
##                   Fully-configurable holistic throughput
##                                     1
## Fully-configurable incremental Graphical User Interface
##                                     1
##                   Fully-configurable neutral open system
##                                     1
##                   Fully-configurable systemic productivity
##                                     1
##                   Function-based context-sensitive secured line
##                                     1
##                   Function-based directional productivity
##                                     1
##                   Function-based executive moderator
##                                     1
##                   Function-based fault-tolerant model
##                                     1
##                   Function-based incremental standardization
##                                     1
##                   Function-based optimizing extranet
##                                     1
##                   Function-based optimizing protocol
##                                     1
##                   Function-based stable alliance
##                                     1
##                   Function-based transitional complexity
##                                     1
##                   Fundamental clear-thinking knowledgebase
##                                     1
##                   Fundamental fault-tolerant neural-net
##                                     1
##                   Fundamental methodical support
##                                     1
##                   Fundamental modular algorithm

```

##		1
##	Fundamental tangible moratorium	
##		1
##	Fundamental zero tolerance solution	
##		1
##	Future-proofed coherent budgetary management	
##		1
##	Future-proofed coherent hardware	
##		1
##	Future-proofed fresh-thinking conglomeration	
##		1
##	Future-proofed grid-enabled implementation	
##		1
##	Future-proofed holistic superstructure	
##		1
##	Future-proofed methodical protocol	
##		1
##	Future-proofed modular utilization	
##		1
##	Future-proofed responsive matrix	
##		1
##	Future-proofed stable function	
##		1
##	Grass-roots 4thgeneration forecast	
##		1
##	Grass-roots coherent extranet	
##		1
##	Grass-roots cohesive monitoring	
##		1
##	Grass-roots eco-centric instruction set	
##		1
##	Grass-roots empowering paradigm	
##		1
##	Grass-roots impactful system engine	
##		1
##	Grass-roots mission-critical emulation	
##		1
##	Grass-roots multimedia policy	
##		1
##	Grass-roots solution-oriented conglomeration	
##		1
##	Grass-roots systematic hardware	
##		1
##	Grass-roots transitional flexibility	
##		1
##	Horizontal client-driven hierarchy	
##		1
##	Horizontal client-server database	
##		1
##	Horizontal content-based synergy	
##		1
##	Horizontal even-keeled challenge	
##		1
##	Horizontal global leverage	



##		1
##	Horizontal heuristic support	
##		1
##	Horizontal heuristic synergy	
##		1
##	Horizontal high-level concept	
##		1
##	Horizontal hybrid challenge	
##		1
##	Horizontal incremental website	
##		1
##	Horizontal intermediate monitoring	
##		1
##	Horizontal modular success	
##		1
##	Horizontal multi-state interface	
##		1
##	Horizontal national architecture	
##		1
##	Horizontal transitional challenge	
##		1
##	Implemented asynchronous application	
##		1
##	Implemented bifurcated workforce	
##		1
##	Implemented bottom-line implementation	
##		1
##	Implemented context-sensitive Local Area Network	
##		1
##	Implemented didactic support	
##		1
##	Implemented discrete frame	
##		1
##	Implemented disintermediate attitude	
##		1
##	Implemented uniform synergy	
##		1
##	Innovative background conglomeration	
##		1
##	Innovative cohesive pricing structure	
##		1
##	Innovative executive encoding	
##		1
##	Innovative homogeneous alliance	
##		1
##	Innovative interactive portal	
##		1
##	Innovative maximized groupware	
##		1
##	Innovative regional groupware	
##		1
##	Innovative regional structure	
##		1
##	Innovative user-facing extranet	

```

##                                     1
##           Integrated 3rdgeneration monitoring
##                                     1
##           Integrated client-server definition
##                                     1
##           Integrated coherent pricing structure
##                                     1
##           Integrated encompassing support
##                                     1
##           Integrated grid-enabled budgetary management
##                                     1
##           Integrated human-resource encoding
##                                     1
##           Integrated impactful groupware
##                                     1
##           Integrated interactive support
##                                     1
##           Integrated leadingedge frame
##                                     1
##           Integrated maximized service-desk
##                                     1
##           Integrated motivating neural-net
##                                     1
##           Intuitive dynamic attitude
##                                     1
##           Intuitive explicit conglomeration
##                                     1
##           Intuitive explicit firmware
##                                     1
##           Intuitive exuding service-desk
##                                     1
##           Intuitive fresh-thinking moderator
##                                     1
##           Intuitive global website
##                                     1
##           Intuitive modular system engine
##                                     1
##           Intuitive radical forecast
##                                     1
##           Intuitive transitional artificial intelligence
##                                     1
##           Intuitive zero-defect framework
##                                     1
##           Intuitive zero administration adapter
##                                     1
##           Inverse asymmetric instruction set
##                                     1
##           Inverse bi-directional knowledge user
##                                     1
##           Inverse discrete extranet
##                                     1
##           Inverse high-level capability
##                                     1
##           Inverse local hub

```

##		1
##	Inverse national core	
##		1
##	Inverse next generation moratorium	
##		1
##	Inverse stable synergy	
##		1
##	Inverse zero-defect capability	
##		1
##	Inverse zero tolerance customer loyalty	
##		1
##	Managed 24hour analyzer	
##		1
##	Managed 5thgeneration time-frame	
##		1
##	Managed 6thgeneration hierarchy	
##		1
##	Managed attitude-oriented Internet solution	
##		1
##	Managed client-server access	
##		1
##	Managed didactic flexibility	
##		1
##	Managed disintermediate capability	
##		1
##	Managed disintermediate matrices	
##		1
##	Managed eco-centric encoding	
##		1
##	Managed grid-enabled standardization	
##		1
##	Managed impactful definition	
##		1
##	Managed national hardware	
##		1
##	Managed upward-trending instruction set	
##		1
##	Managed well-modulated collaboration	
##		1
##	Managed zero tolerance concept	
##		1
##	Mandatory 3rdgeneration moderator	
##		1
##	Mandatory 4thgeneration structure	
##		1
##	Mandatory coherent groupware	
##		1
##	Mandatory dedicated data-warehouse	
##		1
##	Mandatory disintermediate info-mediaries	
##		1
##	Mandatory disintermediate utilization	
##		1
##	Mandatory empowering focus group	

```

##                                     1
##           Mandatory homogeneous architecture
##                                     1
##           Monitored 24/7 moratorium
##                                     1
##           Monitored content-based implementation
##                                     1
##           Monitored context-sensitive initiative
##                                     1
##           Monitored dynamic instruction set
##                                     1
##           Monitored executive architecture
##                                     1
##           Monitored explicit hierarchy
##                                     1
##           Monitored homogeneous artificial intelligence
##                                     1
##           Monitored intermediate circuit
##                                     1
##           Monitored local Internet solution
##                                     1
##           Monitored national standardization
##                                     1
##           Monitored object-oriented Graphic Interface
##                                     1
##           Monitored real-time superstructure
##                                     1
##           Monitored systematic hierarchy
##                                     1
##           Monitored zero administration collaboration
##                                     1
##           Multi-channelled 3rdgeneration model
##                                     1
##           Multi-channelled asymmetric installation
##                                     1
##           Multi-channelled asynchronous open system
##                                     1
##           Multi-channelled attitude-oriented toolset
##                                     1
##           Multi-channelled mission-critical success
##                                     1
##           Multi-channelled non-volatile website
##                                     1
##           Multi-channelled reciprocal artificial intelligence
##                                     1
##           Multi-channelled scalable moratorium
##                                     1
##           Multi-lateral 24/7 Internet solution
##                                     1
##           Multi-lateral attitude-oriented adapter
##                                     1
##           Multi-lateral empowering throughput
##                                     1
##           Multi-lateral motivating circuit

```

```

##                                     1
##           Multi-lateral multi-state encryption
##                                     1
##           Multi-layered 4thgeneration knowledge user
##                                     1
##           Multi-layered fresh-thinking neural-net
##                                     1
##           Multi-layered fresh-thinking process improvement
##                                     1
##           Multi-layered non-volatile Graphical User Interface
##                                     1
##           Multi-layered secondary software
##                                     1
##           Multi-layered stable encoding
##                                     1
##           Multi-layered tangible portal
##                                     1
##           Multi-layered user-facing paradigm
##                                     1
##           Multi-layered user-facing parallelism
##                                     1
##           Multi-tiered foreground Graphic Interface
##                                     1
##           Multi-tiered heuristic strategy
##                                     1
##           Multi-tiered human-resource structure
##                                     1
##           Multi-tiered interactive neural-net
##                                     1
##           Multi-tiered maximized archive
##                                     1
##           Multi-tiered mobile encoding
##                                     1
##           Multi-tiered multi-state moderator
##                                     1
##           Multi-tiered real-time implementation
##                                     1
##           Multi-tiered stable leverage
##                                     1
##           Networked asymmetric infrastructure
##                                     1
##           Networked client-server solution
##                                     1
##           Networked coherent interface
##                                     1
##           Networked even-keeled workforce
##                                     1
##           Networked foreground definition
##                                     1
##           Networked high-level structure
##                                     1
##           Networked impactful framework
##                                     1
##           Networked local secured line

```

##		1
##	Networked logistical info-mediaries	
##		1
##	Networked non-volatile synergy	
##		1
##	Networked regional Local Area Network	
##		1
##	Networked responsive application	
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##	Networked stable array	
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##	Networked stable open architecture	
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##	Object-based executive productivity	
##		1
##	Object-based leadingedge complexity	
##		1
##	Object-based modular functionalities	
##		1
##	Object-based motivating instruction set	
##		1
##	Object-based neutral policy	
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##	Object-based optimal solution	
##		1
##	Object-based reciprocal knowledgebase	
##		1
##	Object-based system-worthy superstructure	
##		1
##	Open-architected full-range projection	
##		1
##	Open-architected impactful productivity	
##		1
##	Open-architected intangible strategy	
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##	Open-architected needs-based customer loyalty	
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##	Open-architected system-worthy ability	
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##	Open-architected system-worthy task-force	
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##	Open-architected web-enabled benchmark	
##		1
##	Open-architected zero administration secured line	
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##	Open-source 5thgeneration leverage	
##		1
##	Open-source coherent monitoring	
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##	Open-source coherent policy	
##		1
##	Open-source even-keeled database	
##		1
##	Open-source global strategy	

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##	Open-source holistic productivity	
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##	Open-source local approach	
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##	Open-source optimizing parallelism	
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##	Open-source scalable protocol	
##		1
##	Open-source stable paradigm	
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##	Operative actuating installation	
##		1
##	Operative didactic Local Area Network	
##		1
##	Operative full-range forecast	
##		1
##	Operative multi-tasking Graphic Interface	
##		1
##	Operative scalable emulation	
##		1
##	Operative secondary functionalities	
##		1
##	Operative stable moderator	
##		1
##	Operative system-worthy protocol	
##		1
##	Optimized 5thgeneration moratorium	
##		1
##	Optimized attitude-oriented initiative	
##		1
##	Optimized coherent Internet solution	
##		1
##	Optimized intermediate help-desk	
##		1
##	Optimized multimedia website	
##		1
##	Optimized static archive	
##		1
##	Optimized systemic capability	
##		1
##	Optimized upward-trending productivity	
##		1
##	Optional contextually-based flexibility	
##		1
##	Optional full-range projection	
##		1
##	Optional mission-critical functionalities	
##		1
##	Optional modular throughput	
##		1
##	Optional multi-state hardware	
##		1
##	Optional regional throughput	

##		1
##	Optional secondary access	
##		1
##	Optional tangible productivity	
##		1
##	Organic 3rdgeneration encryption	
##		1
##	Organic asynchronous hierarchy	
##		1
##	Organic bottom-line service-desk	
##		1
##	Organic contextually-based focus group	
##		1
##	Organic interactive support	
##		1
##	Organic leadingedge secured line	
##		1
##	Organic logistical adapter	
##		1
##	Organic motivating model	
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##	Organic next generation matrix	
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##	Organic well-modulated database	
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##	Organized 24/7 middleware	
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##	Organized client-driven alliance	
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##	Organized contextually-based customer loyalty	
##		1
##	Organized demand-driven knowledgebase	
##		1
##	Organized empowering policy	
##		1
##	Organized global flexibility	
##		1
##	Organized global model	
##		1
##	Organized static focus group	
##		1
##	Organized upward-trending contingency	
##		1
##	Persevering 5thgeneration knowledge user	
##		1
##	Persevering eco-centric flexibility	
##		1
##	Persevering even-keeled help-desk	
##		1
##	Persevering exuding system engine	
##		1
##	Persevering needs-based open architecture	
##		1
##	Persevering reciprocal firmware	



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##                                     1
##           Persevering tertiary capability
##                                     1
##           Persistent demand-driven interface
##                                     1
##           Persistent even-keeled application
##                                     1
##           Persistent fault-tolerant service-desk
##                                     1
##           Persistent homogeneous framework
##                                     1
##           Phased 5thgeneration open system
##                                     1
##           Phased analyzing emulation
##                                     1
##           Phased clear-thinking encoding
##                                     1
##           Phased content-based middleware
##                                     1
##           Phased dynamic customer loyalty
##                                     1
##           Phased fault-tolerant definition
##                                     1
##           Phased full-range hardware
##                                     1
##           Phased hybrid intranet
##                                     1
##           Phased hybrid superstructure
##                                     1
##           Phased leadingedge budgetary management
##                                     1
##           Phased transitional instruction set
##                                     1
##           Phased zero-defect portal
##                                     1
##           Phased zero administration success
##                                     1
##           Phased zero tolerance extranet
##                                     1
##           Polarized 5thgeneration matrix
##                                     1
##           Polarized 6thgeneration info-mediaries
##                                     1
##           Polarized analyzing concept
##                                     1
##           Polarized analyzing intranet
##                                     1
##           Polarized attitude-oriented superstructure
##                                     1
##           Polarized bandwidth-monitored moratorium
##                                     1
##           Polarized bifurcated array
##                                     1
##           Polarized clear-thinking budgetary management

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##	Polarized dynamic throughput	
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##	Polarized intangible encoding	
##		1
##	Polarized logistical hub	
##		1
##	Polarized mission-critical structure	
##		1
##	Polarized modular function	
##		1
##	Polarized multimedia system engine	
##		1
##	Polarized tangible collaboration	
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##	Pre-emptive client-driven secured line	
##		1
##	Pre-emptive client-server installation	
##		1
##	Pre-emptive client-server open system	
##		1
##	Pre-emptive cohesive budgetary management	
##		1
##	Pre-emptive content-based focus group	
##		1
##	Pre-emptive content-based frame	
##		1
##	Pre-emptive executive knowledgebase	
##		1
##	Pre-emptive neutral contingency	
##		1
##	Pre-emptive next generation Internet solution	
##		1
##	Pre-emptive next generation strategy	
##		1
##	Pre-emptive systematic budgetary management	
##		1
##	Pre-emptive transitional protocol	
##		1
##	Pre-emptive value-added workforce	
##		1
##	Pre-emptive well-modulated moderator	
##		1
##	Pre-emptive zero tolerance Local Area Network	
##		1
##	Proactive 5thgeneration frame	
##		1
##	Proactive actuating Graphical User Interface	
##		1
##	Proactive asymmetric definition	
##		1
##	Proactive bandwidth-monitored policy	
##		1
##	Proactive client-server productivity	

##		1
##	Proactive context-sensitive project	
##		1
##	Proactive encompassing paradigm	
##		1
##	Proactive interactive service-desk	
##		1
##	Proactive local focus group	
##		1
##	Proactive next generation knowledge user	
##		1
##	Proactive non-volatile encryption	
##		1
##	Proactive radical support	
##		1
##	Proactive secondary monitoring	
##		1
##	Profit-focused attitude-oriented task-force	
##		1
##	Profit-focused dedicated utilization	
##		1
##	Profit-focused secondary portal	
##		1
##	Profit-focused systemic support	
##		1
##	Profound bottom-line standardization	
##		1
##	Profound dynamic attitude	
##		1
##	Profound executive flexibility	
##		1
##	Profound explicit hardware	
##		1
##	Profound maximized workforce	
##		1
##	Profound optimizing utilization	
##		1
##	Profound stable product	
##		1
##	Profound well-modulated array	
##		1
##	Profound zero administration instruction set	
##		1
##	Programmable asymmetric data-warehouse	
##		1
##	Programmable didactic capacity	
##		1
##	Programmable empowering middleware	
##		1
##	Programmable empowering orchestration	
##		1
##	Programmable high-level benchmark	
##		1
##	Programmable uniform productivity	

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##	Programmable uniform website	
##		1
##	Progressive 24/7 definition	
##		1
##	Progressive 24hour forecast	
##		1
##	Progressive analyzing attitude	
##		1
##	Progressive asynchronous adapter	
##		1
##	Progressive clear-thinking open architecture	
##		1
##	Progressive empowering alliance	
##		1
##	Progressive intermediate throughput	
##		1
##	Progressive non-volatile neural-net	
##		1
##	Progressive uniform budgetary management	
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##	Public-key asynchronous matrix	
##		1
##	Public-key bi-directional Graphical User Interface	
##		1
##	Public-key disintermediate emulation	
##		1
##	Public-key foreground groupware	
##		1
##	Public-key impactful neural-net	
##		1
##	Public-key intangible Graphical User Interface	
##		1
##	Public-key mission-critical core	
##		1
##	Public-key non-volatile implementation	
##		1
##	Public-key real-time definition	
##		1
##	Public-key solution-oriented focus group	
##		1
##	Public-key zero-defect analyzer	
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##	Quality-focused 5thgeneration orchestration	
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##	Quality-focused bi-directional throughput	
##		1
##	Quality-focused hybrid frame	
##		1
##	Quality-focused maximized extranet	
##		1
##	Quality-focused optimizing parallelism	
##		1
##	Quality-focused scalable utilization	

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##	Quality-focused zero-defect budgetary management	
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##	Quality-focused zero-defect data-warehouse	
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##	Quality-focused zero tolerance matrices	
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##	Re-contextualized human-resource success	
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##	Re-contextualized optimal service-desk	
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##	Re-contextualized reciprocal interface	
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##	Re-contextualized systemic time-frame	
##		1
##	Re-engineered composite moratorium	
##		1
##	Re-engineered context-sensitive knowledge user	
##		1
##	Re-engineered demand-driven capacity	
##		1
##	Re-engineered exuding frame	
##		1
##	Re-engineered impactful software	
##		1
##	Re-engineered intangible software	
##		1
##	Re-engineered neutral success	
##		1
##	Re-engineered non-volatile neural-net	
##		1
##	Re-engineered optimal policy	
##		1
##	Re-engineered real-time success	
##		1
##	Re-engineered responsive definition	
##		1
##	Re-engineered zero-defect open architecture	
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##	Reactive bi-directional standardization	
##		1
##	Reactive bi-directional workforce	
##		1
##	Reactive composite project	
##		1
##	Reactive demand-driven capacity	
##		1
##	Reactive demand-driven strategy	
##		1
##	Reactive impactful challenge	
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##	Reactive interactive protocol	
##		1
##	Reactive local challenge	

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##	Reactive national success	
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##	Reactive needs-based instruction set	
##		1
##	Reactive responsive emulation	
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##	Reactive tangible contingency	
##		1
##	Reactive upward-trending migration	
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##	Realigned 24/7 core	
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##	Realigned content-based leverage	
##		1
##	Realigned global initiative	
##		1
##	Realigned intangible benchmark	
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##	Realigned intermediate application	
##		1
##	Realigned next generation projection	
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##	Realigned reciprocal framework	
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##	Realigned scalable standardization	
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##	Realigned systematic function	
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##	Realigned tangible collaboration	
##		1
##	Realigned zero tolerance emulation	
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##	Reduced background data-warehouse	
##		1
##	Reduced bi-directional strategy	
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##	Reduced global support	
##		1
##	Reduced holistic help-desk	
##		1
##	Reduced incremental productivity	
##		1
##	Reduced mobile structure	
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##	Reduced multimedia project	
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##	Reverse-engineered 24hour hardware	
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##	Reverse-engineered background Graphic Interface	
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##	Reverse-engineered content-based intranet	
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##	Reverse-engineered context-sensitive emulation	

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##	Reverse-engineered dynamic function	
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##	Reverse-engineered maximized focus group	
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##	Reverse-engineered web-enabled support	
##		1
##	Reverse-engineered well-modulated capability	
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##	Right-sized asynchronous website	
##		1
##	Right-sized logistical middleware	
##		1
##	Right-sized mobile initiative	
##		1
##	Right-sized multi-tasking solution	
##		1
##	Right-sized solution-oriented benchmark	
##		1
##	Right-sized system-worthy project	
##		1
##	Right-sized transitional parallelism	
##		1
##	Right-sized value-added initiative	
##		1
##	Robust context-sensitive neural-net	
##		1
##	Robust dedicated system engine	
##		1
##	Robust holistic application	
##		1
##	Robust logistical utilization	
##		1
##	Robust object-oriented Graphic Interface	
##		1
##	Robust responsive collaboration	
##		1
##	Robust transitional ability	
##		1
##	Robust uniform framework	
##		1
##	Robust web-enabled attitude	
##		1
##	Seamless 4thgeneration contingency	
##		1
##	Seamless bandwidth-monitored knowledge user	
##		1
##	Seamless cohesive conglomeration	
##		1
##	Seamless composite budgetary management	
##		1
##	Seamless full-range website	
##		1
##	Seamless holistic time-frame	

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##	Seamless impactful info-mediaries	
##		1
##	Seamless intangible secured line	
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##	Seamless motivating approach	
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##	Seamless object-oriented structure	
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##	Seamless optimal contingency	
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##	Seamless real-time array	
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##	Secured 24hour policy	
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##	Secured clear-thinking middleware	
##		1
##	Secured encompassing Graphical User Interface	
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##	Secured intermediate approach	
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##	Secured scalable Graphical User Interface	
##		1
##	Secured secondary superstructure	
##		1
##	Secured uniform instruction set	
##		1
##	Secured upward-trending benchmark	
##		1
##	Self-enabling asynchronous knowledge user	
##		1
##	Self-enabling didactic pricing structure	
##		1
##	Self-enabling even-keeled methodology	
##		1
##	Self-enabling holistic process improvement	
##		1
##	Self-enabling incremental collaboration	
##		1
##	Self-enabling local strategy	
##		1
##	Self-enabling multimedia system engine	
##		1
##	Self-enabling optimal initiative	
##		1
##	Self-enabling tertiary challenge	
##		1
##	Self-enabling zero administration neural-net	
##		1
##	Sharable 5thgeneration access	
##		1
##	Sharable analyzing alliance	
##		1
##	Sharable bottom-line solution	



##		1
##	Sharable client-driven software	
##		1
##	Sharable dedicated Graphic Interface	
##		1
##	Sharable encompassing database	
##		1
##	Sharable grid-enabled matrix	
##		1
##	Sharable multimedia conglomeration	
##		1
##	Sharable optimal capacity	
##		1
##	Sharable reciprocal project	
##		1
##	Sharable secondary Graphical User Interface	
##		1
##	Sharable upward-trending support	
##		1
##	Sharable value-added solution	
##		1
##	Stand-alone background open system	
##		1
##	Stand-alone eco-centric system engine	
##		1
##	Stand-alone empowering benchmark	
##		1
##	Stand-alone encompassing throughput	
##		1
##	Stand-alone explicit orchestration	
##		1
##	Stand-alone logistical service-desk	
##		1
##	Stand-alone motivating moratorium	
##		1
##	Stand-alone national attitude	
##		1
##	Stand-alone radical throughput	
##		1
##	Stand-alone reciprocal synergy	
##		1
##	Stand-alone tangible moderator	
##		1
##	Stand-alone well-modulated product	
##		1
##	Streamlined analyzing initiative	
##		1
##	Streamlined cohesive conglomeration	
##		1
##	Streamlined exuding adapter	
##		1
##	Streamlined homogeneous analyzer	
##		1
##	Streamlined logistical secured line	

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##                                     1
## Streamlined next generation implementation
##                                     1
## Streamlined non-volatile analyzer
##                                     1
## Switchable 3rdgeneration hub
##                                     1
## Switchable analyzing encryption
##                                     1
## Switchable mobile framework
##                                     1
## Switchable multi-state success
##                                     1
## Switchable real-time product
##                                     1
## Switchable secondary ability
##                                     1
## Switchable well-modulated infrastructure
##                                     1
## Synchronized dedicated service-desk
##                                     1
## Synchronized full-range portal
##                                     1
## Synchronized grid-enabled moratorium
##                                     1
## Synchronized human-resource moderator
##                                     1
## Synchronized leadingedge help-desk
##                                     1
## Synchronized multi-tasking ability
##                                     1
## Synchronized multimedia model
##                                     1
## Synchronized national infrastructure
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## Synchronized stable complexity
##                                     1
## Synchronized systemic hierarchy
##                                     1
## Synchronized user-facing core
##                                     1
## Synchronized zero tolerance product
##                                     1
## Synergistic asynchronous superstructure
##                                     1
## Synergistic discrete middleware
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## Synergistic dynamic orchestration
##                                     1
## Synergistic fresh-thinking array
##                                     1
## Synergistic non-volatile analyzer
##                                     1
## Synergistic reciprocal attitude

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##		1
##	Synergistic stable infrastructure	
##		1
##	Synergistic value-added extranet	
##		1
##	Synergized clear-thinking protocol	
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##	Synergized coherent interface	
##		1
##	Synergized cohesive array	
##		1
##	Synergized context-sensitive database	
##		1
##	Synergized grid-enabled framework	
##		1
##	Synergized hybrid time-frame	
##		1
##	Synergized intangible open system	
##		1
##	Synergized multimedia emulation	
##		1
##	Synergized uniform hierarchy	
##		1
##	Synergized well-modulated Graphical User Interface	
##		1
##	Team-oriented 6thgeneration extranet	
##		1
##	Team-oriented bi-directional secured line	
##		1
##	Team-oriented context-sensitive installation	
##		1
##	Team-oriented dynamic forecast	
##		1
##	Team-oriented encompassing portal	
##		1
##	Team-oriented executive core	
##		1
##	Team-oriented grid-enabled Local Area Network	
##		1
##	Team-oriented high-level orchestration	
##		1
##	Team-oriented systematic installation	
##		1
##	Team-oriented transitional methodology	
##		1
##	Team-oriented zero-defect initiative	
##		1
##	Total 5thgeneration encoding	
##		1
##	Total 5thgeneration standardization	
##		1
##	Total asynchronous architecture	
##		1
##	Total bi-directional success	

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##	Total coherent archive	
##		1
##	Total coherent superstructure	
##		1
##	Total cohesive moratorium	
##		1
##	Total directional approach	
##		1
##	Total even-keeled architecture	
##		1
##	Total grid-enabled application	
##		1
##	Total human-resource flexibility	
##		1
##	Total local synergy	
##		1
##	Total user-facing hierarchy	
##		1
##	Total zero administration software	
##		1
##	Triple-buffered 3rdgeneration migration	
##		1
##	Triple-buffered demand-driven alliance	
##		1
##	Triple-buffered foreground encryption	
##		1
##	Triple-buffered high-level Internet solution	
##		1
##	Triple-buffered human-resource complexity	
##		1
##	Triple-buffered multi-state complexity	
##		1
##	Triple-buffered needs-based Local Area Network	
##		1
##	Triple-buffered reciprocal time-frame	
##		1
##	Triple-buffered regional toolset	
##		1
##	Triple-buffered scalable groupware	
##		1
##	Triple-buffered systematic info-mediaries	
##		1
##	Universal 24/7 implementation	
##		1
##	Universal asymmetric archive	
##		1
##	Universal asymmetric workforce	
##		1
##	Universal bi-directional extranet	
##		1
##	Universal contextually-based system engine	
##		1
##	Universal empowering adapter	

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##                                     1
##           Universal even-keeled analyzer
##                                     1
##           Universal global intranet
##                                     1
##           Universal incremental array
##                                     1
##           Universal multi-state system engine
##                                     1
## Universal transitional Graphical User Interface
##                                     1
##           Up-sized 6thgeneration moratorium
##                                     1
##           Up-sized asymmetric firmware
##                                     1
## Up-sized bi-directional infrastructure
##                                     1
##           Up-sized bifurcated capability
##                                     1
##           Up-sized executive moderator
##                                     1
##           Up-sized incremental encryption
##                                     1
##           Up-sized intangible circuit
##                                     1
##           Up-sized maximized model
##                                     1
## Up-sized next generation architecture
##                                     1
##           Up-sized real-time methodology
##                                     1
##           Up-sized secondary software
##                                     1
##           Up-sized tertiary contingency
##                                     1
## Upgradable 4thgeneration portal
##                                     1
##           Upgradable asymmetric emulation
##                                     1
##           Upgradable asynchronous circuit
##                                     1
## Upgradable directional system engine
##                                     1
##           Upgradable even-keeled challenge
##                                     1
##           Upgradable even-keeled hardware
##                                     1
##           Upgradable heuristic system engine
##                                     1
##           Upgradable local migration
##                                     1
##           Upgradable logistical flexibility
##                                     1
## Upgradable multi-tasking initiative

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##		1
##	Upgradable optimizing toolset	
##		1
##	Upgradable system-worthy array	
##		1
##	User-centric attitude-oriented adapter	
##		1
##	User-centric composite contingency	
##		1
##	User-centric discrete success	
##		1
##	User-centric intangible contingency	
##		1
##	User-centric intangible task-force	
##		1
##	User-centric intermediate knowledge user	
##		1
##	User-centric solution-oriented emulation	
##		1
##	User-friendly asymmetric info-mediaries	
##		1
##	User-friendly bandwidth-monitored attitude	
##		1
##	User-friendly client-server instruction set	
##		1
##	User-friendly content-based customer loyalty	
##		1
##	User-friendly grid-enabled analyzer	
##		1
##	User-friendly impactful time-frame	
##		1
##	User-friendly upward-trending intranet	
##		1
##	User-friendly well-modulated leverage	
##		1
##	Versatile 4thgeneration system engine	
##		1
##	Versatile 6thgeneration parallelism	
##		1
##	Versatile content-based protocol	
##		1
##	Versatile dedicated software	
##		1
##	Versatile homogeneous capacity	
##		1
##	Versatile local forecast	
##		1
##	Versatile mission-critical application	
##		1
##	Versatile next generation pricing structure	
##		1
##	Versatile optimizing projection	
##		1
##	Versatile reciprocal structure	

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##                                     1
##           Versatile responsive knowledge user
##                                     1
##           Versatile scalable encryption
##                                     1
##           Versatile solution-oriented secured line
##                                     1
##           Versatile transitional monitoring
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##           Virtual 5thgeneration emulation
##                                     1
##           Virtual 5thgeneration neural-net
##                                     1
##           Virtual bandwidth-monitored initiative
##                                     1
##           Virtual bifurcated portal
##                                     1
##           Virtual composite model
##                                     1
##           Virtual context-sensitive support
##                                     1
##           Virtual executive implementation
##                                     1
##           Virtual homogeneous budgetary management
##                                     1
##           Virtual impactful algorithm
##                                     1
##           Virtual scalable secured line
##                                     1
##           Vision-oriented asynchronous Internet solution
##                                     1
##           Vision-oriented attitude-oriented Internet solution
##                                     1
##           Vision-oriented bifurcated contingency
##                                     1
##           Vision-oriented contextually-based extranet
##                                     1
##           Vision-oriented human-resource synergy
##                                     1
##           Vision-oriented methodical support
##                                     1
##           Vision-oriented multi-tasking success
##                                     1
##           Vision-oriented next generation solution
##                                     1
##           Vision-oriented optimizing middleware
##                                     1
##           Vision-oriented real-time framework
##                                     1
##           Vision-oriented system-worthy forecast
##                                     1
##           Vision-oriented uniform knowledgebase
##                                     1
##           Visionary analyzing structure

```

```

##                                     1
##           Visionary asymmetric encryption
##                                     1
##           Visionary client-driven installation
##                                     1
##           Visionary maximized process improvement
##                                     1
##           Visionary mission-critical application
##                                     1
##           Visionary multi-tasking alliance
##                                     1
##           Visionary reciprocal circuit
##                                     1
##
## $City
##
##           Adamsbury           Adamside           Adamsstad
##           1                   1                   1
##           Alanview           Alexanderfurt       Alexanderview
##           1                   1                   1
##           Alexandrafort       Alexisland         Aliciatown
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##           Alvaradoport       Alvarezland         Amandaafort
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##           Amandahaven        Amandaland         Amyfurt
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##           Amyhaven           Andersonchester   Andersonfurt
##           1                   1                   1
##           Andersonton        Andrewborough   Andrewmouth
##           1                   1                   1
##           Angelhaven         Anthonyfurt     Ashleychester
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##           Ashleymouth        Austinborough   Austinland
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##           Bakerhaven         Barbershire     Beckton
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##           Benjaminchester    Bernardton      Bethburgh
##           2                   1                   1
##           Birdshire          Blairborough    Blairville
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##           Blevinstown        Bowenview       Boyerberg
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##           Bradleyborough     Bradleyburgh     Bradleyside
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##           Bradshawborough    Bradyfurt       Brandiland
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##           Brandonbury        Brandonstad     Brandymouth
##           1                   1                   1
##           Brendaburgh        Brendachester   Brianabury
##           1                   1                   1
##           Brianfurt          Brianland       Brittanyborough
##           1                   1                   1
##           Brownbury          Brownport       Brownton
##           1                   1                   1

```



##	Browntown	Brownview	Bruceburgh
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##	Burgessside	Butlerfort	Calebberg
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##	Lake Jacqueline	Lake James	Lake Jasonchester
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##	Lake Patrick	Lake Rhondaburgh	Lake Stephenborough
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##	Lake Susan	Lake Timothy	Lake Tracy
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##	New Jasmine	New Jay	New Jeffreychester
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##	West Sharon	West Shaun	West Steven
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##	West Sydney	West Tanner	West Tanya
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##	West Travismouth	West Wendyland	West William
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##	Whitneyfort	Wilcoxport	Williammouth
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##		Afghanistan	
##		8	
##		Albania	
##		7	
##		Algeria	
##		6	
##		American Samoa	
##		5	
##		Andorra	
##		2	
##		Angola	
##		4	
##		Anguilla	
##		6	
##	Antarctica (the territory South of 60 deg S)		
##		3	
##		Antigua and Barbuda	
##		5	
##		Argentina	
##		2	
##		Armenia	
##		3	
##		Aruba	
##		1	
##		Australia	
##		8	
##		Austria	
##		5	
##		Azerbaijan	
##		3	
##		Bahamas	
##		7	

##	Bahrain
##	5
##	Bangladesh
##	4
##	Barbados
##	5
##	Belarus
##	6
##	Belgium
##	5
##	Belize
##	5
##	Benin
##	2
##	Bermuda
##	1
##	Bhutan
##	2
##	Bolivia
##	6
##	Bosnia and Herzegovina
##	7
##	Bouvet Island (Bouvetoya)
##	5
##	Brazil
##	5
##	British Indian Ocean Territory (Chagos Archipelago)
##	1
##	British Virgin Islands
##	3
##	Brunei Darussalam
##	5
##	Bulgaria
##	6
##	Burkina Faso
##	4
##	Burundi
##	7
##	Cambodia
##	7
##	Cameroon
##	5
##	Canada
##	5
##	Cape Verde
##	1
##	Cayman Islands
##	5
##	Central African Republic
##	2
##	Chad
##	4
##	Chile
##	4

##	China
##	6
##	Christmas Island
##	6
##	Colombia
##	2
##	Comoros
##	2
##	Congo
##	4
##	Cook Islands
##	3
##	Costa Rica
##	6
##	Cote d'Ivoire
##	4
##	Croatia
##	6
##	Cuba
##	5
##	Cyprus
##	8
##	Czech Republic
##	9
##	Denmark
##	3
##	Djibouti
##	2
##	Dominica
##	5
##	Dominican Republic
##	4
##	Ecuador
##	5
##	Egypt
##	5
##	El Salvador
##	6
##	Equatorial Guinea
##	4
##	Eritrea
##	7
##	Estonia
##	3
##	Ethiopia
##	7
##	Falkland Islands (Malvinas)
##	4
##	Faroe Islands
##	3
##	Fiji
##	7
##	Finland
##	5

##	France
##	9
##	French Guiana
##	4
##	French Polynesia
##	5
##	French Southern Territories
##	5
##	Gabon
##	6
##	Gambia
##	2
##	Georgia
##	4
##	Germany
##	1
##	Ghana
##	4
##	Gibraltar
##	3
##	Greece
##	8
##	Greenland
##	5
##	Grenada
##	4
##	Guadeloupe
##	2
##	Guam
##	4
##	Guatemala
##	4
##	Guernsey
##	3
##	Guinea
##	3
##	Guinea-Bissau
##	2
##	Guyana
##	5
##	Haiti
##	2
##	Heard Island and McDonald Islands
##	3
##	Holy See (Vatican City State)
##	3
##	Honduras
##	5
##	Hong Kong
##	6
##	Hungary
##	6
##	Iceland
##	3

##	India
##	2
##	Indonesia
##	6
##	Iran
##	5
##	Ireland
##	3
##	Isle of Man
##	3
##	Israel
##	4
##	Italy
##	5
##	Jamaica
##	5
##	Japan
##	4
##	Jersey
##	6
##	Jordan
##	1
##	Kazakhstan
##	4
##	Kenya
##	4
##	Kiribati
##	1
##	Korea
##	5
##	Kuwait
##	2
##	Kyrgyz Republic
##	6
##	Lao People's Democratic Republic
##	4
##	Latvia
##	4
##	Lebanon
##	6
##	Lesotho
##	1
##	Liberia
##	8
##	Libyan Arab Jamahiriya
##	4
##	Liechtenstein
##	6
##	Lithuania
##	3
##	Luxembourg
##	7
##	Macao
##	3



##	Macedonia
##	2
##	Madagascar
##	6
##	Malawi
##	4
##	Malaysia
##	3
##	Maldives
##	4
##	Mali
##	4
##	Malta
##	6
##	Marshall Islands
##	1
##	Martinique
##	4
##	Mauritania
##	2
##	Mauritius
##	4
##	Mayotte
##	6
##	Mexico
##	6
##	Micronesia
##	8
##	Moldova
##	6
##	Monaco
##	3
##	Mongolia
##	6
##	Montenegro
##	2
##	Montserrat
##	1
##	Morocco
##	3
##	Mozambique
##	1
##	Myanmar
##	5
##	Namibia
##	2
##	Nauru
##	3
##	Nepal
##	3
##	Netherlands
##	4
##	Netherlands Antilles
##	6

##	New Caledonia
##	2
##	New Zealand
##	4
##	Nicaragua
##	3
##	Niger
##	3
##	Niue
##	3
##	Norfolk Island
##	5
##	Northern Mariana Islands
##	3
##	Norway
##	2
##	Pakistan
##	5
##	Palau
##	4
##	Palestinian Territory
##	3
##	Panama
##	2
##	Papua New Guinea
##	5
##	Paraguay
##	3
##	Peru
##	8
##	Philippines
##	6
##	Pitcairn Islands
##	2
##	Poland
##	6
##	Portugal
##	3
##	Puerto Rico
##	6
##	Qatar
##	6
##	Reunion
##	2
##	Romania
##	1
##	Russian Federation
##	3
##	Rwanda
##	5
##	Saint Barthelemy
##	2
##	Saint Helena
##	5

##	Saint Kitts and Nevis	
##		1
##	Saint Lucia	
##		2
##	Saint Martin	
##		4
##	Saint Pierre and Miquelon	
##		5
##	Saint Vincent and the Grenadines	
##		6
##	Samoa	
##		6
##	San Marino	
##		3
##	Sao Tome and Principe	
##		2
##	Saudi Arabia	
##		4
##	Senegal	
##		8
##	Serbia	
##		5
##	Seychelles	
##		3
##	Sierra Leone	
##		2
##	Singapore	
##		6
##	Slovakia (Slovak Republic)	
##		2
##	Slovenia	
##		1
##	Somalia	
##		5
##	South Africa	
##		8
##	South Georgia and the South Sandwich Islands	
##		2
##	Spain	
##		3
##	Sri Lanka	
##		4
##	Sudan	
##		2
##	Suriname	
##		2
##	Svalbard & Jan Mayen Islands	
##		6
##	Swaziland	
##		2
##	Sweden	
##		4
##	Switzerland	
##		4

##	Syrian Arab Republic	
##		3
##	Taiwan	
##		7
##	Tajikistan	
##		3
##	Tanzania	
##		3
##	Thailand	
##		4
##	Timor-Leste	
##		5
##	Togo	
##		3
##	Tokelau	
##		4
##	Tonga	
##		5
##	Trinidad and Tobago	
##		3
##	Tunisia	
##		4
##	Turkey	
##		8
##	Turkmenistan	
##		6
##	Turks and Caicos Islands	
##		5
##	Tuvalu	
##		4
##	Uganda	
##		4
##	Ukraine	
##		5
##	United Arab Emirates	
##		6
##	United Kingdom	
##		3
##	United States Minor Outlying Islands	
##		4
##	United States of America	
##		5
##	United States Virgin Islands	
##		4
##	Uruguay	
##		5
##	Uzbekistan	
##		2
##	Vanuatu	
##		6
##	Venezuela	
##		7
##	Vietnam	
##		3

```

##                               Wallis and Futuna
##                               4
##                               Western Sahara
##                               7
##                               Yemen
##                               3
##                               Zambia
##                               4
##                               Zimbabwe
##                               6
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## 2016-01-13 02:58:27 2016-01-13 20:38:35 2016-01-14 00:23:10 2016-01-14 08:27:04
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## 2016-01-16 08:01:40 2016-01-16 11:35:01 2016-01-16 16:40:30 2016-01-16 17:56:05

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##	1	1	1	1
##	2016-01-21 23:33:22	2016-01-21 23:48:29	2016-01-22 12:58:14	2016-01-22 15:03:25
##	1	1	1	1
##	2016-01-22 19:43:53	2016-01-23 01:42:28	2016-01-23 04:47:37	2016-01-23 13:14:18
##	1	1	1	1
##	2016-01-23 15:02:13	2016-01-23 17:39:06	2016-01-23 18:59:21	2016-01-23 21:15:57
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##	2016-07-03 12:57:03	2016-07-03 22:13:19	2016-07-04 11:03:49	2016-07-04 23:17:47
##	1	1	1	1
##	2016-07-05 00:54:11	2016-07-05 15:14:10	2016-07-05 17:17:49	2016-07-05 18:59:45
##	1	1	1	1
##	2016-07-05 20:16:13	2016-07-05 22:33:48	2016-07-06 03:40:17	2016-07-06 05:34:52
##	1	1	1	1
##	2016-07-06 12:04:29	2016-07-06 15:56:39	2016-07-06 16:00:33	2016-07-06 18:36:01
##	1	1	1	1
##	2016-07-06 23:09:07	2016-07-07 03:55:01	2016-07-07 12:17:33	2016-07-07 13:37:34
##	1	1	1	1
##	2016-07-07 18:07:19	2016-07-07 23:32:38	2016-07-08 03:47:41	2016-07-08 17:14:01
##	1	1	1	1
##	2016-07-08 21:18:32	2016-07-08 22:30:10	2016-07-09 11:04:54	2016-07-09 11:18:02
##	1	1	1	1
##	2016-07-09 14:55:36	2016-07-09 16:23:33	2016-07-10 16:25:56	2016-07-10 17:24:51
##	1	1	1	1
##	2016-07-10 19:15:52	2016-07-11 01:42:51	2016-07-11 09:32:53	2016-07-11 13:23:37
##	1	1	1	1
##	2016-07-11 15:45:23	2016-07-11 18:12:43	2016-07-12 10:56:21	2016-07-13 01:48:46

```
##          1          1          1          1
## 2016-07-13 04:10:53 2016-07-13 07:41:42 2016-07-13 11:41:29 2016-07-13 14:05:22
##          1          1          1          1
## 2016-07-13 14:30:14 2016-07-13 16:12:24 2016-07-13 21:31:14 2016-07-14 12:07:10
##          1          1          1          1
## 2016-07-14 22:43:29 2016-07-15 05:05:14 2016-07-15 09:08:42 2016-07-15 09:42:19
##          1          1          1          1
## 2016-07-15 15:43:36 2016-07-16 05:56:42 2016-07-16 10:14:04 2016-07-16 14:13:54
##          1          1          1          1
## 2016-07-16 23:08:54 2016-07-17 01:13:56 2016-07-17 01:58:53 2016-07-17 13:22:43
##          1          1          1          1
## 2016-07-17 14:26:04 2016-07-17 18:55:38 2016-07-17 22:04:54 2016-07-18 01:36:37
##          1          1          1          1
## 2016-07-18 02:51:19 2016-07-18 04:53:22 2016-07-18 11:33:31 2016-07-18 18:33:05
##          1          1          1          1
## 2016-07-19 07:59:18 2016-07-19 08:32:10 2016-07-19 12:05:58 2016-07-19 18:06:22
##          1          1          1          1
## 2016-07-20 01:56:33 2016-07-20 09:27:24 2016-07-20 13:21:37 2016-07-20 21:53:42
##          1          1          1          1
## 2016-07-20 23:08:28 2016-07-21 10:01:50 2016-07-21 10:54:35 2016-07-21 16:02:40
##          1          1          1          1
## 2016-07-21 20:30:06 2016-07-21 21:16:35 2016-07-21 23:14:35 2016-07-22 07:44:43
##          1          1          1          1
## 2016-07-22 11:05:10 2016-07-23 04:04:42 2016-07-23 04:37:05 2016-07-23 05:21:39
##          1          1          1          1
## 2016-07-23 06:18:51 2016-07-23 11:46:28 2016-07-23 14:47:23 2016-07-24 00:22:16
##          1          1          1          1
##
## $Clicked.on.Ad
##
##    0    1
## 500 500
```

## Graphical Plots

```
# load the package
library(ggplot2)
```

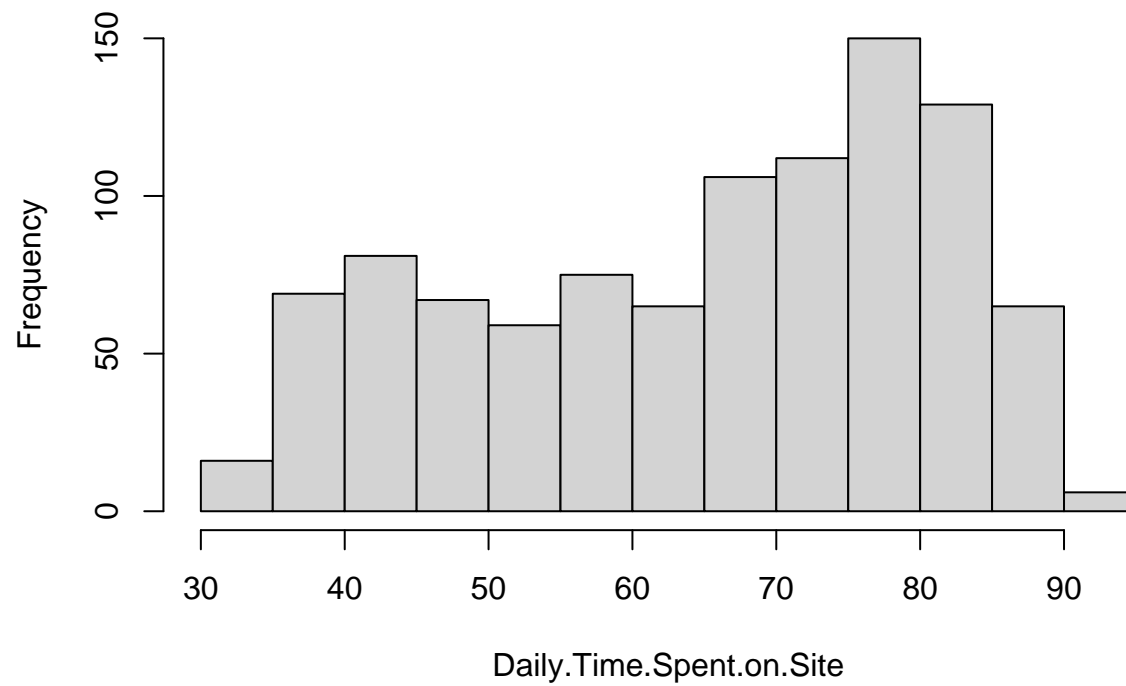
### 1)Histograms

```
##
## Attaching package: 'ggplot2'
```

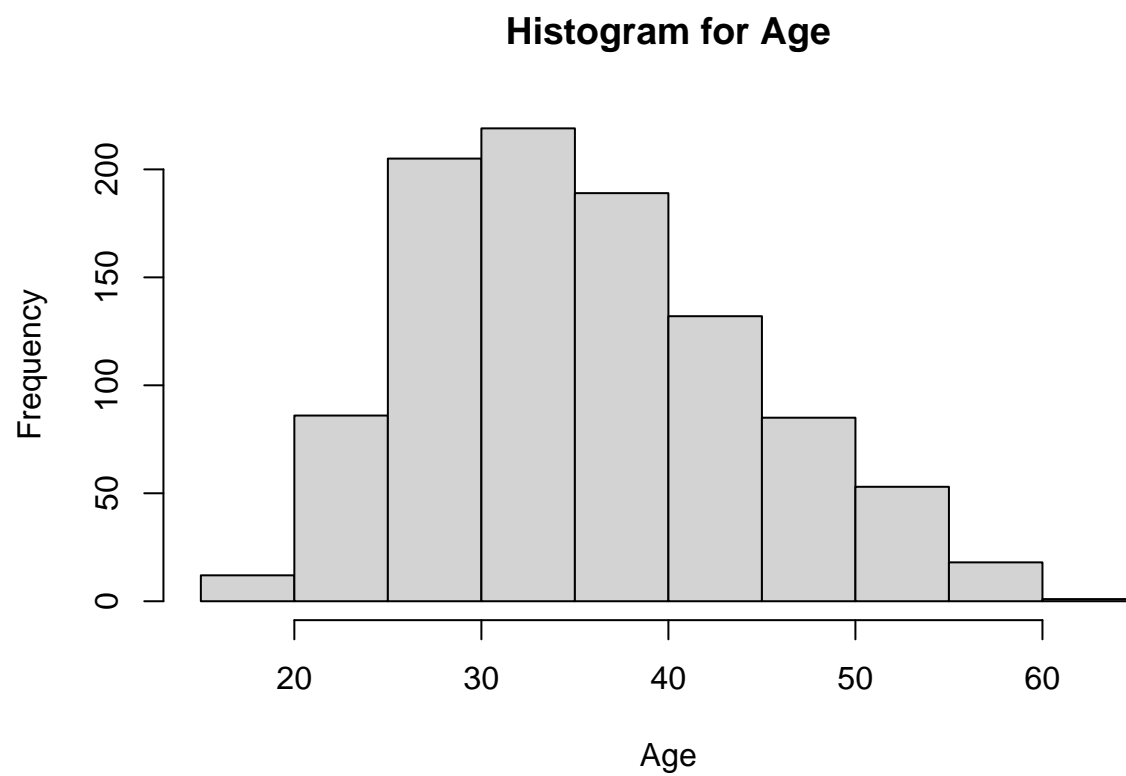
```
## The following objects are masked from 'package:psych':
##
##    %+%, alpha
```

```
#histogram for the numeric column
hist(Advert$Daily.Time.Spent.on.Site, xlab = 'Daily.Time.Spent.on.Site', main = 'Histogram for daily ti
```

**Histogram for daily time spent on site**



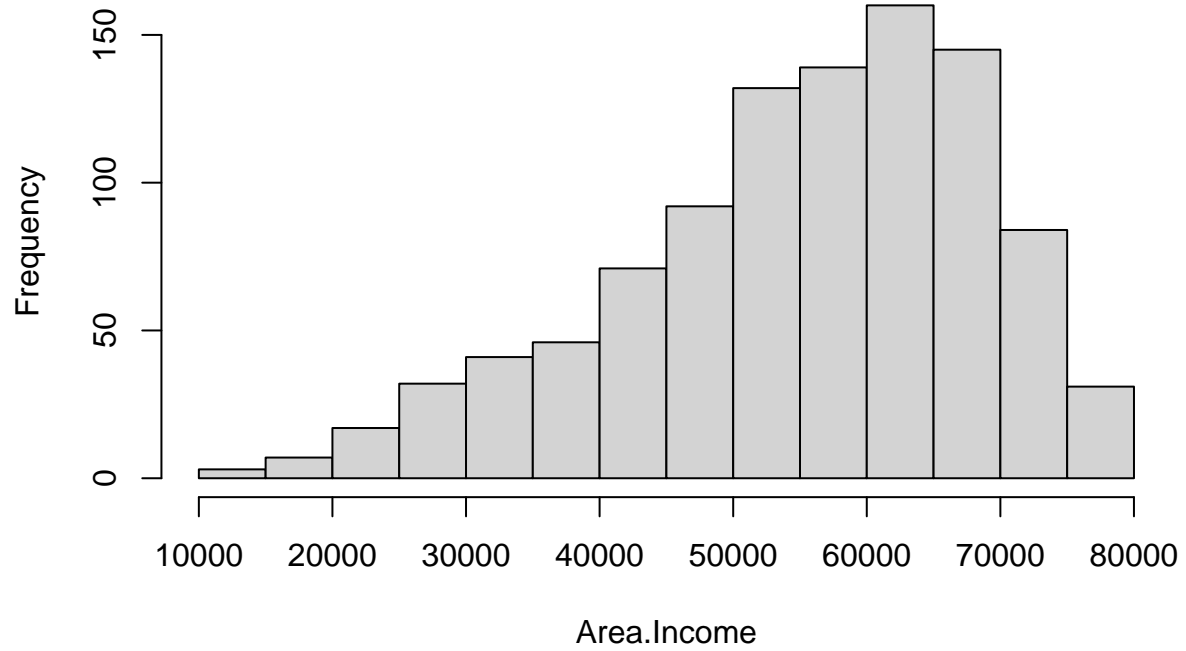
```
hist(Advert$Age, xlab = 'Age', main = 'Histogram for Age')
```



```
hist(Advert$Area.Income, xlab = 'Area.Income', main = 'Histogram for Area Income')
```

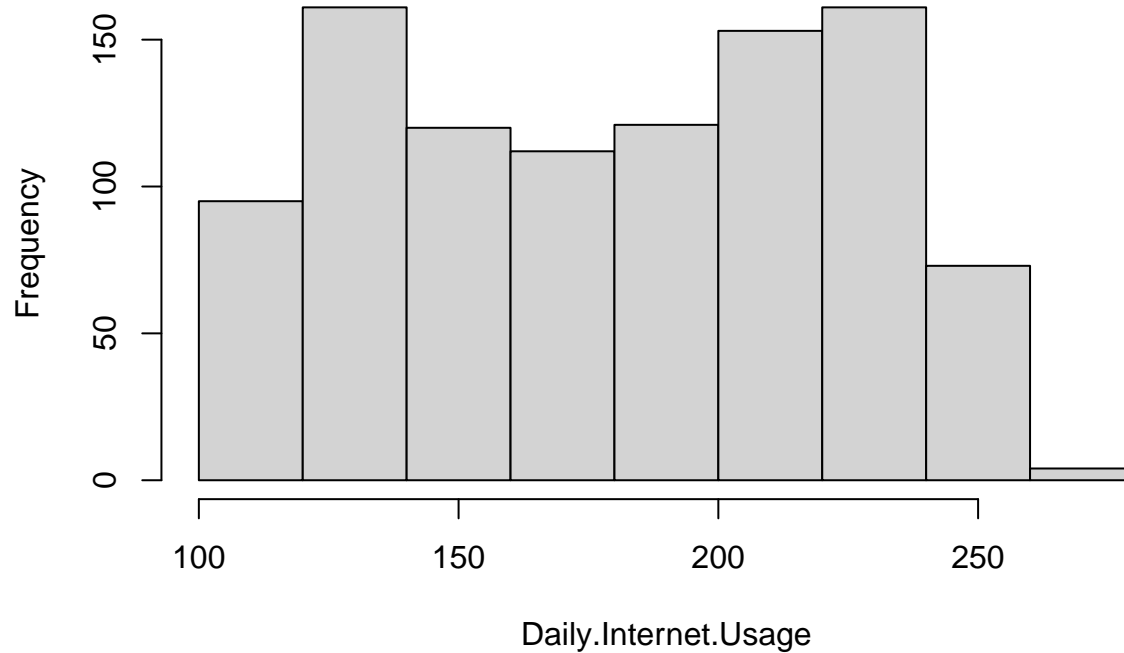


**Histogram for Area Income**



```
hist(Advert$Daily.Internet.Usage, xlab = 'Daily.Internet.Usage', main = 'Histogram for Daily.Internet.U
```

**Histogram for Daily.Internet.Usage**

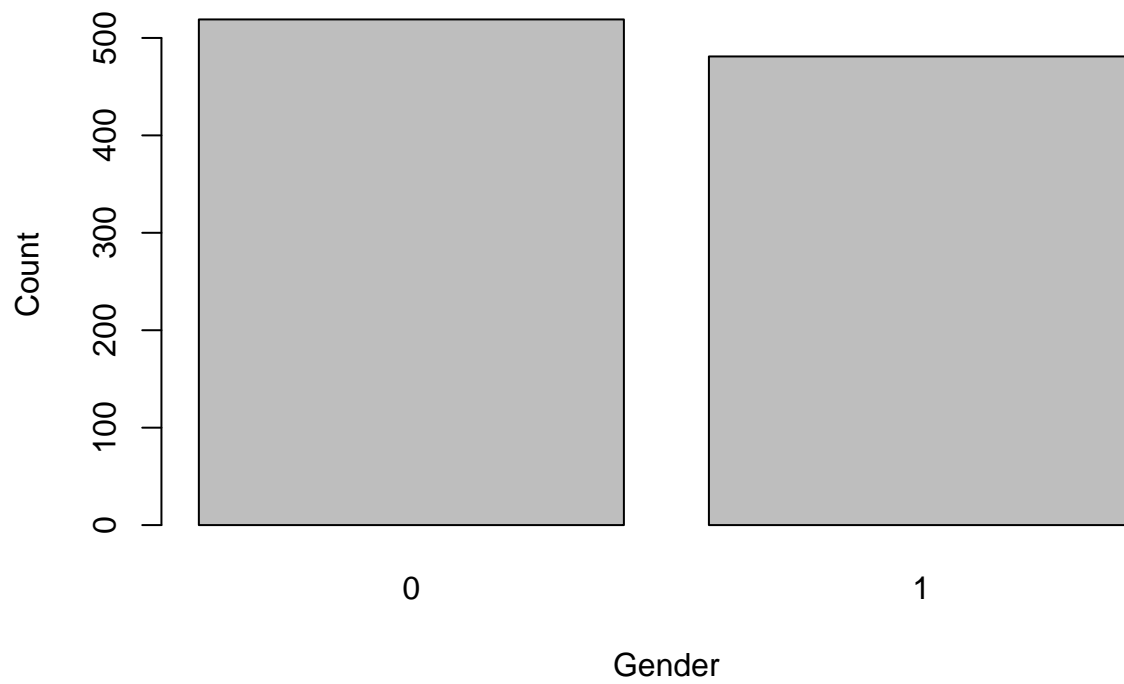


## 2) Barplot

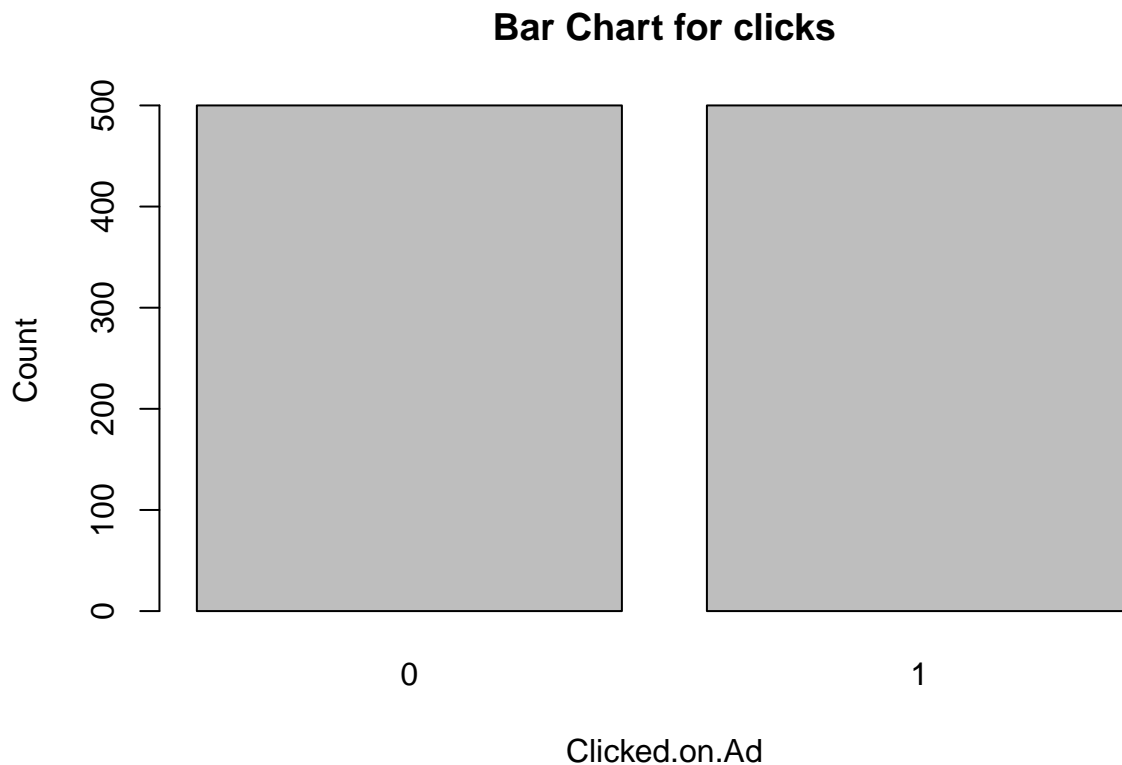
```
#rename the Male column to gender  
gender <- table(Advert$Male)
```

```
# Gender barplot  
barplot(gender, xlab = 'Gender', ylab = 'Count', main = 'Bar Chart for Gender')
```

**Bar Chart for Gender**



```
# Click on Ad barplot  
Clicked.on.Ad <- table(Advert$Clicked.on.Ad)  
barplot(Clicked.on.Ad, xlab = 'Clicked.on.Ad', ylab = 'Count', main = 'Bar Chart for clicks')
```



## Bivariate Analysis

#### Covariance

```
#covariance between age and internet usage
age <- Advert$Age
units <- Advert$Daily.Internet.Usage
cov(age, units)
```

```
## [1] -141.6348
```

There is a negative covariance(-141.6348) between age and the daily usage of internet which means that the older a person is, the less units they use on internet daily.

```
# covariance between age and the daily time spent on the site
age <- Advert$Age
time <- Advert$Daily.Time.Spent.on.Site
cov(age, time)
```

```
## [1] -46.17415
```

There is a negative covariance(-46.17415) between age and the daily time Spent on Site which means that the older a person is, the less units they visit the site.

```
# covariance between income and the daily internet usage on the site
income <- Advert$Area.Income
cov(income, units)
```

```
## [1] 198762.5
```

There is a positive covariance(198762.5) between income and the daily internet usage on Site which means that the more the income the more the internet usage on the site.

## Correlation

```
# correlation between age and daily internet usage
cor(age, units)
```

```
## [1] -0.3672086
```

There is a negative linear relationship between age and the daily internet usage.

```
# correlation between age and time spent on site
cor(age, time)
```

```
## [1] -0.3315133
```

There is a negative linear relationship between age and the daily time spent on the site.

```
# correlation between income and internet usage on site
cor(income, units)
```

```
## [1] 0.3374955
```

There is a positive linear relationship between income and the daily internet usage on the site.

## Correlation Matrix

```
#correlation library
library(corrplot) # This library allows us to plot correlation.
```

```
## corrplot 0.92 loaded
```

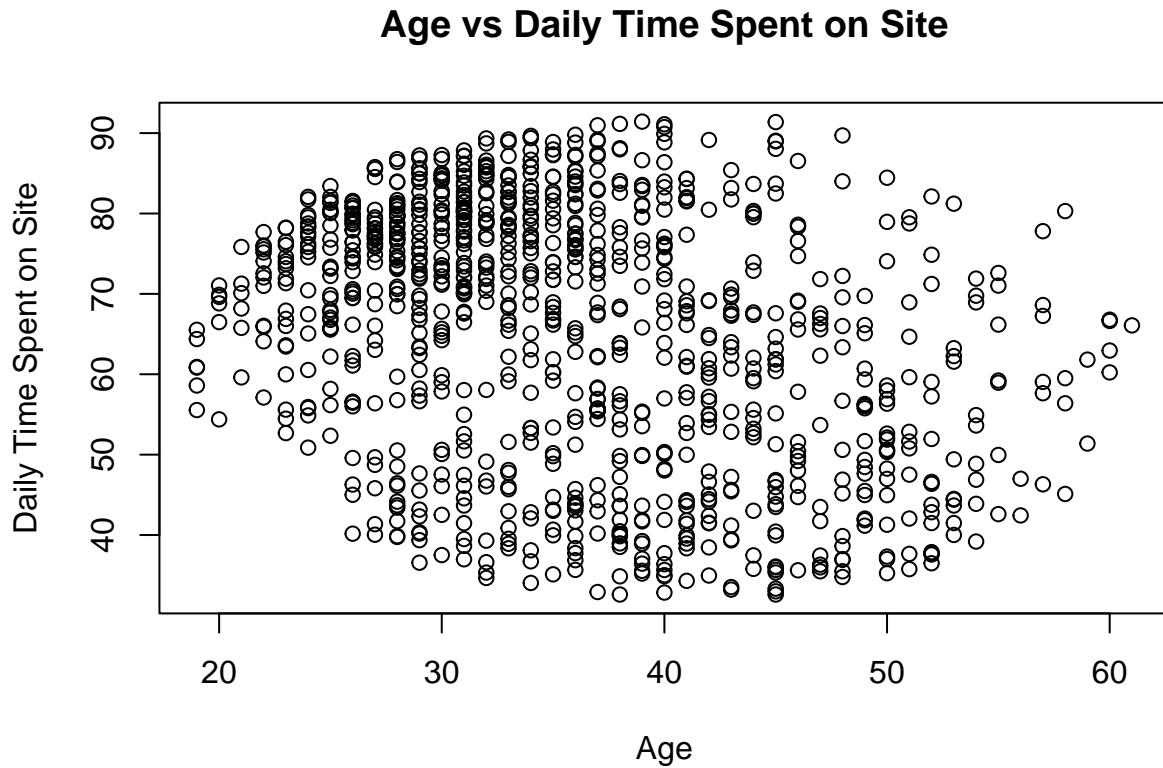
Plot a correlation matrix for the numerical variables in our dataset.

```
# correlation matrix
cor(numeric)
```

```
##           Daily.Time.Spent.on.Site      Age Area.Income
## Daily.Time.Spent.on.Site      1.0000000 -0.3315133  0.3109544
## Age                -0.3315133  1.0000000 -0.1826050
## Area.Income         0.3109544 -0.1826050  1.0000000
## Daily.Internet.Usage      0.5186585 -0.3672086  0.3374955
##           Daily.Internet.Usage
## Daily.Time.Spent.on.Site      0.5186585
## Age                -0.3672086
## Area.Income         0.3374955
## Daily.Internet.Usage      1.0000000
```

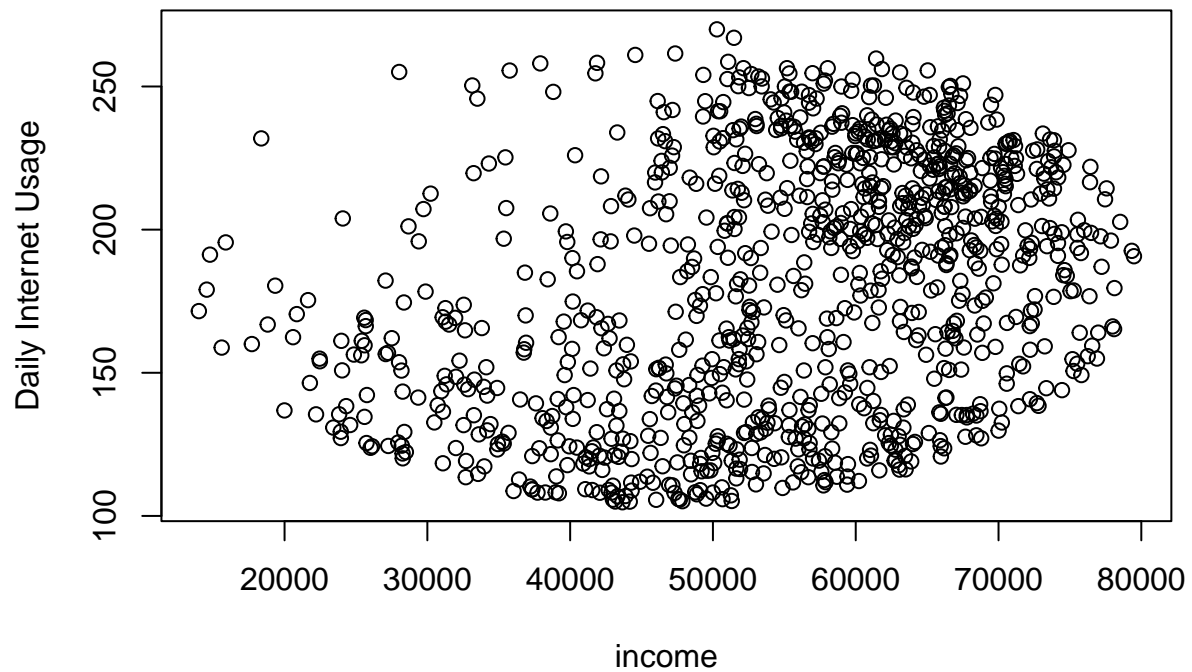
## Scatter Plots

```
#scatter plot
plot(age, time, xlab = 'Age', ylab = 'Daily Time Spent on Site', main = 'Age vs Daily Time Spent on Site')
```



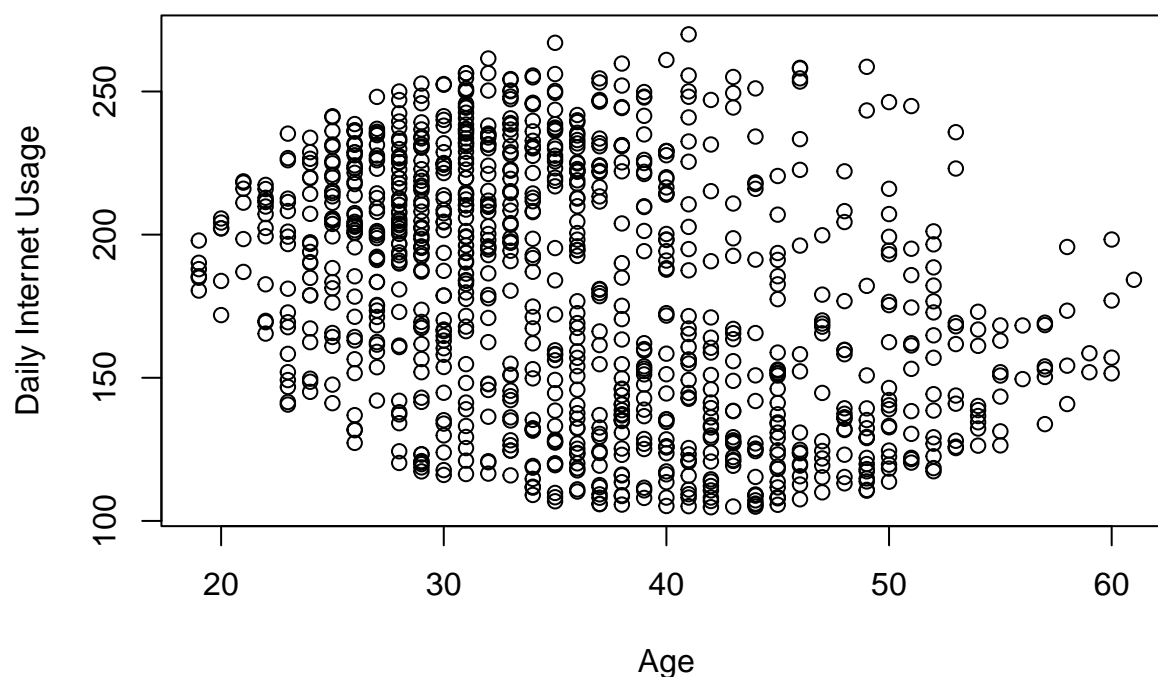
```
#scatter plot
plot(income, units, xlab = 'income', ylab = 'Daily Internet Usage', main = 'income vs Daily Internet Usage')
```

## income vs Daily Internet Usage



```
#scatter plot  
plot(age, units, xlab = 'Age', ylab = 'Daily Internet Usage', main = 'Age vs Daily Internet Usage')
```

## Age vs Daily Internet Usage



## IMPLEMENTING THE SOLUTION

```
# Import the library for label encoding
library(R6)
library(superml)
```

```
# Introduce the label encoder object
label <- LabelEncoder$new()
# Label encode the categorical columns i.e. City, Country
Advert$City <- label$fit_transform(Advert$City)
print(Advert$City)
```

```
##      [1]  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17
##    [19] 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
##   [37] 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
##   [55] 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71
##   [73] 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89
##   [91] 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107
##  [109] 108 35 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124
##  [127] 125 126 99 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141
##  [145] 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159
##  [163] 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177
```



```
## [181] 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195
## [199] 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213
## [217] 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231
## [235] 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249
## [253] 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267
## [271] 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285
## [289] 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303
## [307] 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321
## [325] 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339
## [343] 340 341 342 343 344 345 346 347 348 68 349 350 351 352 353 354 355 356
## [361] 357 358 0 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373
## [379] 110 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390
## [397] 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408
## [415] 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 134 425
## [433] 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443
## [451] 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461
## [469] 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479
## [487] 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497
## [505] 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515
## [523] 258 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532
## [541] 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550
## [559] 19 551 552 553 554 555 556 557 558 559 560 561 562 423 563 564 565 566
## [577] 567 568 569 570 571 572 573 574 220 575 576 577 578 579 580 581 293 582
## [595] 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600
## [613] 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618
## [631] 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636
## [649] 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 409 653
## [667] 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671
## [685] 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689
## [703] 690 23 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706
## [721] 707 708 709 710 711 712 713 714 715 716 717 718 719 264 720 721 722 723
## [739] 724 725 726 299 727 728 729 730 731 732 733 734 735 736 737 738 739 740
## [757] 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758
## [775] 759 760 507 233 761 762 763 764 765 766 767 768 176 769 770 545 771 772
## [793] 773 774 775 776 777 778 779 419 780 781 782 783 784 785 786 787 423 788
## [811] 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 758 804 805
## [829] 806 233 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822
## [847] 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 303
## [865] 840 841 842 843 844 845 846 847 848 849 850 851 852 853 145 854 855 856
## [883] 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874
## [901] 875 876 64 877 878 879 880 881 882 883 884 885 886 887 888 889 280 890
## [919] 891 892 893 867 894 895 896 897 898 899 900 901 902 903 904 905 906 907
## [937] 908 909 910 911 912 913 914 915 916 917 918 243 919 920 921 922 923 924
## [955] 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942
## [973] 943 944 945 946 947 948 949 950 951 952 953 954 955 956 190 957 958 959
## [991] 960 961 962 963 964 965 966 967 833 968
```

```
Advert$Country <- label$fit_transform(Advert$Country)
print(Advert$Country)
```

```
## [1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
## [19] 18 19 20 20 11 21 22 23 24 25 26 27 28 29 30 31 32 33
## [37] 34 35 36 37 19 0 38 36 39 38 10 40 41 3 26 42 43 44
## [55] 45 46 47 48 49 50 11 51 11 52 53 54 55 56 0 57 27 56
```

```

## [73] 58 45 59 60 61 10 62 35 63 64 65 66 27 67 68 69 7 70
## [91] 71 67 72 25 73 74 75 76 12 77 78 79 30 80 81 82 83 53
## [109] 84 44 85 86 87 88 41 71 89 90 91 83 25 92 93 94 95 12
## [127] 96 97 32 71 76 98 99 100 101 101 73 51 102 103 104 105 21 36
## [145] 56 80 106 107 32 95 108 109 110 111 66 112 101 99 113 114 21 35
## [163] 115 1 116 117 48 66 118 119 120 121 10 122 84 123 102 55 124 27
## [181] 125 59 28 126 72 122 127 128 54 129 130 110 131 27 132 31 133 37
## [199] 134 89 135 131 136 137 138 95 46 130 7 139 130 140 141 142 143 72
## [217] 52 144 80 145 146 147 38 148 130 45 123 149 150 151 152 79 153 7
## [235] 119 5 56 154 95 90 17 44 155 132 129 2 81 156 157 114 158 159
## [253] 63 154 160 69 99 28 45 74 155 93 114 103 161 162 129 53 163 164
## [271] 139 31 165 166 47 167 147 168 141 144 169 170 86 153 171 172 173 173
## [289] 155 79 174 152 175 176 133 177 70 145 178 178 105 143 126 179 112 135
## [307] 20 91 86 153 32 96 152 180 181 160 140 155 113 172 182 183 175 184
## [325] 101 185 95 122 154 90 20 186 174 13 122 97 13 162 187 80 87 188
## [343] 104 189 97 87 75 190 14 1 28 191 192 112 193 194 135 72 17 49
## [361] 132 115 74 96 61 80 48 17 55 195 72 100 25 60 142 185 140 28
## [379] 110 119 141 74 178 196 197 46 112 117 167 85 10 124 77 198 82 87
## [397] 54 199 200 24 191 85 77 171 148 63 185 77 61 152 201 47 202 128
## [415] 113 6 203 80 4 111 192 123 169 24 183 42 33 204 93 30 182 58
## [433] 183 31 6 196 149 67 145 202 79 161 147 164 41 103 132 181 17 115
## [451] 12 130 120 172 205 195 175 53 116 44 206 158 207 208 51 159 15 56
## [469] 187 58 7 154 142 62 87 160 172 201 78 37 196 173 208 175 166 187
## [487] 46 151 171 203 103 25 204 81 209 105 191 124 6 210 7 211 188 212
## [505] 60 213 127 214 215 190 129 67 57 45 84 63 25 171 167 117 216 216
## [523] 40 176 89 78 78 112 108 7 52 192 14 204 217 217 118 69 6 206
## [541] 127 149 129 24 136 112 134 82 187 91 101 79 7 134 53 93 128 218
## [559] 78 64 134 219 202 121 69 220 42 74 85 88 221 222 67 211 135 169
## [577] 135 38 167 143 140 153 146 152 60 44 37 138 220 9 50 108 192 40
## [595] 89 187 51 117 167 93 141 216 55 141 8 109 142 97 71 215 95 44
## [613] 157 202 20 158 182 43 44 128 223 204 138 160 11 148 176 69 111 209
## [631] 28 166 46 160 224 28 107 202 92 70 49 117 225 19 118 216 88 216
## [649] 162 212 226 98 203 25 85 31 200 80 208 203 10 227 114 124 125 157
## [667] 87 23 47 96 122 99 194 182 178 32 128 22 38 166 169 90 204 158
## [685] 67 89 200 33 127 73 124 78 86 75 219 219 59 164 226 36 86 206
## [703] 53 35 206 3 163 162 45 228 124 106 104 183 31 96 184 229 211 23
## [721] 120 45 179 57 181 35 219 100 230 186 66 155 154 51 31 11 128 186
## [739] 48 173 21 141 113 114 197 113 96 130 106 186 14 168 3 107 231 185
## [757] 156 98 179 138 164 69 37 213 13 151 231 80 191 22 160 178 52 200
## [775] 126 91 74 202 71 26 36 13 222 136 100 232 9 72 50 113 170 114
## [793] 8 146 110 50 166 228 140 163 197 227 33 140 45 75 106 211 233 78
## [811] 51 175 115 215 198 70 197 119 98 55 63 178 225 48 146 130 132 125
## [829] 71 187 16 148 206 17 172 44 188 145 99 107 121 17 33 95 220 15
## [847] 75 229 215 179 219 185 159 197 217 37 12 25 149 40 123 164 63 146
## [865] 185 68 188 109 230 64 87 54 46 159 221 22 230 116 14 171 180 129
## [883] 38 126 95 210 160 116 213 126 142 165 225 108 203 107 152 191 152 28
## [901] 37 11 210 69 33 3 2 85 57 219 0 168 177 201 216 191 39 66
## [919] 217 91 161 21 208 128 88 216 13 140 122 196 234 127 193 74 235 197
## [937] 136 118 226 16 8 9 151 76 30 236 80 4 132 215 189 150 33 89
## [955] 62 54 48 206 207 158 31 112 107 88 213 50 52 17 37 203 75 111
## [973] 121 217 140 188 39 160 163 57 52 94 188 151 160 221 170 146 149 153
## [991] 173 218 34 209 126 86 13 117 59 118

```

```
#previewing our dataset after label encoding
head(Advert)
```

```
##   Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1                68.95  35    61833.90             256.09
## 2                80.23  31    68441.85             193.77
## 3                69.47  26    59785.94             236.50
## 4                74.15  29    54806.18             245.89
## 5                68.37  35    73889.99             225.58
## 6                59.99  23    59761.56             226.74
##               Ad.Topic.Line City Male Country      Timestamp
## 1   Cloned 5thgeneration orchestration    0    0      0 2016-03-27 00:53:11
## 2   Monitored national standardization    1    1      1 2016-04-04 01:39:02
## 3   Organic bottom-line service-desk      2    0      2 2016-03-13 20:35:42
## 4 Triple-buffered reciprocal time-frame    3    1      3 2016-01-10 02:31:19
## 5   Robust logistical utilization          4    0      4 2016-06-03 03:36:18
## 6   Sharable client-driven software        5    1      5 2016-05-19 14:30:17
##   Clicked.on.Ad
## 1              0
## 2              0
## 3              0
## 4              0
## 5              0
## 6              0
```

```
#After label encoding, we decide to drop the Timestamp and Ad Topic Line columns since we will not use
Advert1 = subset(Advert, select = c("Daily.Time.Spent.on.Site", "Age", "Area.Income", "Daily.Internet.Usage"))
```

```
str(Advert1)
```

```
## 'data.frame': 1000 obs. of 8 variables:
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...
## $ Age : int 35 31 26 29 35 23 33 48 30 20 ...
## $ Area.Income : num 61834 68442 59786 54806 73890 ...
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...
## $ City : num 0 1 2 3 4 5 6 7 8 9 ...
## $ Male : Factor w/ 2 levels "0","1": 1 2 1 2 1 2 1 2 2 2 ...
## $ Country : num 0 1 2 3 4 5 6 7 8 9 ...
## $ Clicked.on.Ad : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 1 ...
```

```
#Normalizing the data
#df_norm <- as.data.frame(apply(Advert1, 2, function(x) (x - min(x))/(max(x)-min(x))))
#df_norm
```

## SVM

```
# Splitting the dataset into the Training set and Test set
library(caTools)
set.seed(123)
```

```
split = sample.split(Advert1$`Clicked.on.Ad`, SplitRatio = 0.7)
training = subset(Advert1, split == TRUE)
test = subset(Advert1, split == FALSE)
```

```
# Fitting SVM to the Training set
library(e1071)
classifier = svm(formula = `Clicked.on.Ad` ~ .,
                 data = training,
                 type = 'C-classification',
                 kernel = 'linear')
classifier
```

```
##
## Call:
## svm(formula = Clicked.on.Ad ~ ., data = training, type = "C-classification",
##      kernel = "linear")
##
##
## Parameters:
##   SVM-Type:  C-classification
## SVM-Kernel:  linear
##      cost:   1
##
## Number of Support Vectors:  64
```

```
# Predicting the Test set results
y_pred = predict(classifier, newdata = test[-8])
```

```
# Making the Confusion Matrix
library("RSNNS")
```

```
## Loading required package: Rcpp
```

```
confusionMatrix(y_pred, as.factor(test[,8]))
```

```
##      predictions
## targets   1    2
##      1 149    8
##      2   1 142
```

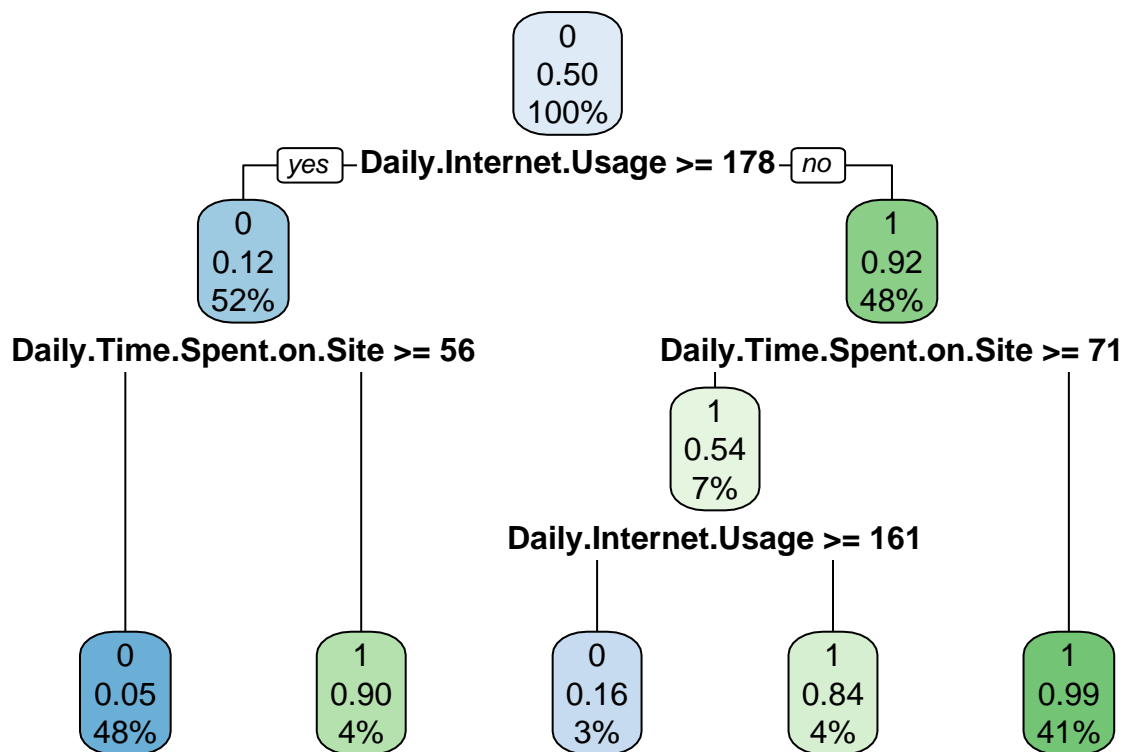
149 + 142 predicted correctly and 1+ 8 weren't predicted correctly 97 % accuracy

## CHALLENGING THE SOLUTION

### Decision Tree Classifier

```
# Using decision tree
# Fitting the model
# Specifying the target and predictor variables
library(rpart)
m <- rpart(`Clicked.on.Ad` ~ .,
  data = Advert1,
  method = "class")
```

```
# Plotting the decision tree model
library(rpart.plot)
rpart.plot(m)
```



```
# Making predictions
# Printing the confusion matrix

p <- predict(m, Advert1, type = "class")
table(p, Advert1$`Clicked.on.Ad`)
```

```
##
## p      0    1
##  0 485  28
##  1  15 472
```

485 + 472 were predicted correctly and 15 + 28 were not predicted correctly

```
# Printing the Accuracy
```

```
mean(Advert1$`Clicked.on.Ad` == p)
```

```
## [1] 0.957
```

The model accuracy is 95.7%

## Conclusion

SVM is the best model among the the two with an accuracy of 97%