Data Cleaning with r

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3/2/2020

Reading the Data

Loading the necessary packages

```
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
```

Loading the data from the CSV file

```
advertising <- read.csv("~/Downloads/advertising.csv")
adverts <- as.data.frame(advertising)
```

Previewing the first rows of the dataset

```
head(adverts)
```

```
##   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 last observations of the dataset

```
tail(adverts)
```

```
##      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
```

Next, we check the structure of the dataset to see the datatypes and shape of the dataset.

```
str(adverts)
```

```
## '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           : Factor w/ 1000 levels "Adaptive 24hour Graphic Interface",..: 92 465 567
##  $ City                    : Factor w/ 969 levels "Adamsbury","Adamside",..: 962 904 112 940 806 283
##  $ Male                    : int  0 1 0 1 0 1 0 1 1 1 ...
##  $ Country                 : Factor w/ 237 levels "Afghanistan",..: 216 148 185 104 97 159 146 13 83
##  $ Timestamp               : Factor w/ 1000 levels "2016-01-01 02:52:10",..: 440 475 368 57 768 690 1
##  $ Clicked.on.Ad           : int  0 0 0 0 0 0 0 1 0 0 ...
```

The output above showing the datatypes of the different columns. The dtype for the timestamp will be changed to datetime THe dtype for the City variable will be changed to string The dataset has 10 columns and 1000 rows

Data Cleaning

COMPLETENESS

Checking for missing values

```
is.na(adverts)
```

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##         Daily.Time.Spent.on.Site   Age Area.Income Daily.Internet.Usage
##    [1,]                    FALSE FALSE       FALSE                FALSE
##    [2,]                    FALSE FALSE       FALSE                FALSE
##    [3,]                    FALSE FALSE       FALSE                FALSE
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##  [876,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [877,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [878,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [879,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [880,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
```

```
##  [881,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [882,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [883,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [884,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [885,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [886,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [887,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [888,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [889,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [890,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [891,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [892,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [893,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [894,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [895,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [896,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [897,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [898,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [899,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [900,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [901,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [902,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [903,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [904,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [905,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [906,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [907,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [908,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [910,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [911,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [912,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [913,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [914,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [915,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [916,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [917,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [918,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [920,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [921,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [926,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [931,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [933,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [934,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
```

```
##  [935,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [936,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [939,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [941,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [957,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [960,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [962,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [963,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [964,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [965,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [967,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [969,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [970,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [971,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [972,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [973,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [974,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [975,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [976,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [977,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [979,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [981,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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```

```
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##  [990,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [992,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [993,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
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##  [995,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [996,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [997,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [998,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [999,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
## [1000,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
```

```
colSums(is.na(adverts))
```

```
## 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
```

This dataset has no missing values. It is complete.

CONSISTENCY

Duplicates

```
duplicated(adverts)
```

```
##    [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [49] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [61] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [73] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [97] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [109] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [145] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [157] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [169] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [181] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [193] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [205] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [217] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [229] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
##   [241] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [253] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [277] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [289] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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##   [397] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [409] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [421] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [433] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [445] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [469] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [481] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [493] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [505] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [517] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [529] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [541] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [553] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [565] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [577] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [589] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [601] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [613] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [625] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [637] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [649] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [661] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [673] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [685] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [697] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [709] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [721] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [733] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [745] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [757] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [769] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [781] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [793] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [805] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [817] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [829] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [841] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [853] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [865] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [877] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
##  [889] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [901] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [913] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [925] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [937] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [949] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [961] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [973] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [985] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [997] FALSE FALSE FALSE FALSE
```

This datset has no duplicates either! Seems like the dataset gods have been kind to us :-)

UNIQUE VALUES

```
unique(adverts)
```

```
##      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
## 7                       88.91  33    53852.85               208.36
## 8                       66.00  48    24593.33               131.76
## 9                       74.53  30    68862.00               221.51
## 10                      69.88  20    55642.32               183.82
## 11                      47.64  49    45632.51               122.02
## 12                      83.07  37    62491.01               230.87
## 13                      69.57  48    51636.92               113.12
## 14                      79.52  24    51739.63               214.23
## 15                      42.95  33    30976.00               143.56
## 16                      63.45  23    52182.23               140.64
## 17                      55.39  37    23936.86               129.41
## 18                      82.03  41    71511.08               187.53
## 19                      54.70  36    31087.54               118.39
## 20                      74.58  40    23821.72               135.51
## 21                      77.22  30    64802.33               224.44
## 22                      84.59  35    60015.57               226.54
## 23                      41.49  52    32635.70               164.83
## 24                      87.29  36    61628.72               209.93
## 25                      41.39  41    68962.32               167.22
## 26                      78.74  28    64828.00               204.79
## 27                      48.53  28    38067.08               134.14
## 28                      51.95  52    58295.82               129.23
## 29                      70.20  34    32708.94               119.20
## 30                      76.02  22    46179.97               209.82
## 31                      67.64  35    51473.28               267.01
## 32                      86.41  28    45593.93               207.48
## 33                      59.05  57    25583.29               169.23
## 34                      55.60  23    30227.98               212.58
## 35                      57.64  57    45580.92               133.81
## 36                      84.37  30    61389.50               201.58
```

```
## 37                62.26  53    56770.79              125.45
## 38                65.82  39    76435.30              221.94
## 39                50.43  46    57425.87              119.32
## 40                38.93  39    27508.41              162.08
## 41                84.98  29    57691.95              202.61
## 42                64.24  30    59784.18              252.36
## 43                82.52  32    66572.39              198.11
## 44                81.38  31    64929.61              212.30
## 45                80.47  25    57519.64              204.86
## 46                37.68  52    53575.48              172.83
## 47                69.62  20    50983.75              202.25
## 48                85.40  43    67058.72              198.72
## 49                44.33  37    52723.34              123.72
## 50                48.01  46    54286.10              119.93
## 51                73.18  23    61526.25              196.71
## 52                79.94  28    58526.04              225.29
## 53                33.33  45    53350.11              193.58
## 54                50.33  50    62657.53              133.20
## 55                62.31  47    62722.57              119.30
## 56                80.60  31    67479.62              177.55
## 57                65.19  36    75254.88              150.61
## 58                44.98  49    52336.64              129.31
## 59                77.63  29    56113.37              239.22
## 60                41.82  41    24852.90              156.36
## 61                85.61  27    47708.42              183.43
## 62                85.84  34    64654.66              192.93
## 63                72.08  29    71228.44              169.50
## 64                86.06  32    61601.05              178.92
## 65                45.96  45    66281.46              141.22
## 66                62.42  29    73910.90              198.50
## 67                63.89  40    51317.33              105.22
## 68                35.33  32    51510.18              200.22
## 69                75.74  25    61005.87              215.25
## 70                78.53  34    32536.98              131.72
## 71                46.13  31    60248.97              139.01
## 72                69.01  46    74543.81              222.63
## 73                55.35  39    75509.61              153.17
## 74                33.21  43    42650.32              167.07
## 75                38.46  42    58183.04              145.98
## 76                64.10  22    60465.72              215.93
## 77                49.81  35    57009.76              120.06
## 78                82.73  33    54541.56              238.99
## 79                56.14  38    32689.04              113.53
## 80                55.13  45    55605.92              111.71
## 81                78.11  27    63296.87              209.25
## 82                73.46  28    65653.47              222.75
## 83                56.64  38    61652.53              115.91
## 84                68.94  54    30726.26              138.71
## 85                70.79  31    74535.94              184.10
## 86                57.76  41    47861.93              105.15
## 87                77.51  36    73600.28              200.55
## 88                52.70  34    58543.94              118.60
## 89                57.70  34    42696.67              109.07
## 90                56.89  37    37334.78              109.29
```

```
## 91                69.90  43    71392.53              138.35
## 92                55.79  24    59550.05              149.67
## 93                70.03  26    64264.25              227.72
## 94                50.08  40    64147.86              125.85
## 95                43.67  31    25686.34              166.29
## 96                72.84  26    52968.22              238.63
## 97                45.72  36    22473.08              154.02
## 98                39.94  41    64927.19              156.30
## 99                35.61  46    51868.85              158.22
## 100               79.71  34    69456.83              211.65
## 101               41.49  53    31947.65              169.18
## 102               63.60  23    51864.77              235.28
## 103               89.91  40    59593.56              194.23
## 104               68.18  21    48376.14              218.17
## 105               66.49  20    56884.74              202.16
## 106               80.49  40    67186.54              229.12
## 107               72.23  25    46557.92              241.03
## 108               42.39  42    66541.05              150.99
## 109               47.53  30    33258.09              135.18
## 110               74.02  32    72272.90              210.54
## 111               66.63  60    60333.38              176.98
## 112               63.24  53    65229.13              235.78
## 113               71.00  22    56067.38              211.87
## 114               46.13  46    37838.72              123.64
## 115               69.00  32    72683.35              221.21
## 116               76.99  31    56729.78              244.34
## 117               72.60  55    66815.54              162.95
## 118               61.88  42    60223.52              112.19
## 119               84.45  50    29727.79              207.18
## 120               88.97  45    49269.98              152.49
## 121               86.19  31    57669.41              210.26
## 122               49.58  26    56791.75              231.94
## 123               77.65  27    63274.88              212.79
## 124               37.75  36    35466.80              225.24
## 125               62.33  43    68787.09              127.11
## 126               79.57  31    61227.59              230.93
## 127               80.31  44    56366.88              127.07
## 128               89.05  45    57868.44              206.98
## 129               70.41  27    66618.21              223.03
## 130               67.36  37    73104.47              233.56
## 131               46.98  50    21644.91              175.37
## 132               41.67  36    53817.02              132.55
## 133               51.24  36    76368.31              176.73
## 134               75.70  29    67633.44              215.44
## 135               43.49  47    50335.46              127.83
## 136               49.89  39    17709.98              160.03
## 137               38.37  36    41229.16              140.46
## 138               38.52  38    42581.23              137.28
## 139               71.89  23    61617.98              172.81
## 140               75.80  38    70575.60              146.19
## 141               83.86  31    64122.36              190.25
## 142               37.51  30    52097.32              163.00
## 143               55.60  44    65953.76              124.38
## 144               83.67  44    60192.72              234.26
```

```
## 145  69.08  41  77460.07  210.60
## 146  37.47  44  45716.48  141.89
## 147  56.04  49  65120.86  128.95
## 148  70.92  41  49995.63  108.16
## 149  49.78  46  71718.51  152.24
## 150  68.61  57  61770.34  150.29
## 151  58.18  25  69112.84  176.28
## 152  78.54  35  72524.86  172.10
## 153  37.00  48  36782.38  158.22
## 154  65.40  33  66699.12  247.31
## 155  79.52  27  64287.78  183.48
## 156  87.98  38  56637.59  222.11
## 157  44.64  36  55787.58  127.01
## 158  41.73  28  61142.33  202.18
## 159  80.46  27  61625.87  207.96
## 160  75.55  36  73234.87  159.24
## 161  76.32  35  74166.24  195.31
## 162  82.68  33  62669.59  222.77
## 163  72.01  31  57756.89  251.00
## 164  75.83  24  58019.64  162.44
## 165  41.28  50  50960.08  140.39
## 166  34.66  32  48246.60  194.83
## 167  66.18  55  28271.84  143.42
## 168  86.06  31  53767.12  219.72
## 169  59.59  42  43662.10  104.78
## 170  86.69  34  62238.58  198.56
## 171  43.77  52  49030.03  138.55
## 172  71.84  47  76003.47  199.79
## 173  80.23  31  68094.85  196.23
## 174  74.41  26  64395.85  163.05
## 175  63.36  48  70053.27  137.43
## 176  71.74  35  72423.97  227.56
## 177  60.72  44  42995.80  105.69
## 178  72.04  22  60309.58  199.43
## 179  44.57  31  38349.78  133.17
## 180  85.86  34  63115.34  208.23
## 181  39.85  38  31343.39  145.96
## 182  84.53  27  40763.13  168.34
## 183  62.95  60  36752.24  157.04
## 184  67.58  41  65044.59  255.61
## 185  85.56  29  53673.08  210.46
## 186  46.88  54  43444.86  136.64
## 187  46.31  57  44248.52  153.98
## 188  77.95  31  62572.88  233.65
## 189  84.73  30  39840.55  153.76
## 190  39.86  36  32593.59  145.85
## 191  50.08  30  41629.86  123.91
## 192  60.23  35  43313.73  106.86
## 193  60.70  49  42993.48  110.57
## 194  43.67  53  46004.31  143.79
## 195  77.20  33  49325.48  254.05
## 196  71.86  32  51633.34  116.53
## 197  44.78  45  63363.04  137.24
## 198  78.57  36  64045.93  239.32
```

```
## 199  73.41  31  73049.30  201.26
## 200  77.05  27  66624.60  191.14
## 201  66.40  40  77567.85  214.42
## 202  69.35  29  53431.35  252.77
## 203  35.65  40  31265.75  172.58
## 204  70.04  31  74780.74  183.85
## 205  69.78  29  70410.11  218.79
## 206  58.22  29  37345.24  120.90
## 207  76.90  28  66107.84  212.67
## 208  84.08  30  62336.39  187.36
## 209  59.51  58  39132.64  140.83
## 210  40.15  38  38745.29  134.88
## 211  76.81  28  65172.22  217.85
## 212  41.89  38  68519.96  163.38
## 213  76.87  27  54774.77  235.35
## 214  67.28  43  76246.96  155.80
## 215  81.98  40  65461.92  229.22
## 216  66.01  23  34127.21  151.95
## 217  61.57  53  35253.98  125.94
## 218  53.30  34  44893.71  111.94
## 219  34.87  40  59621.02  200.23
## 220  43.60  38  20856.54  170.49
## 221  77.88  37  55353.41  254.57
## 222  75.83  27  67516.07  200.59
## 223  49.95  39  68737.75  136.59
## 224  60.94  41  76893.84  154.97
## 225  89.15  42  59886.58  171.07
## 226  78.70  30  53441.69  133.99
## 227  57.35  29  41356.31  119.84
## 228  34.86  38  49942.66  154.75
## 229  70.68  31  74430.08  199.08
## 230  76.06  23  58633.63  201.04
## 231  66.67  33  72707.87  228.03
## 232  46.77  32  31092.93  136.40
## 233  62.42  38  74445.18  143.94
## 234  78.32  28  49309.14  239.52
## 235  37.32  50  56735.14  199.25
## 236  40.42  45  40183.75  133.90
## 237  76.77  36  58348.41  123.51
## 238  65.65  30  72209.99  158.05
## 239  74.32  33  62060.11  128.17
## 240  73.27  32  67113.46  234.75
## 241  80.03  44  24030.06  150.84
## 242  53.68  47  56180.93  115.26
## 243  85.84  32  62204.93  192.85
## 244  85.03  30  60372.64  204.52
## 245  70.44  24  65280.16  178.75
## 246  81.22  53  34309.24  223.09
## 247  39.96  45  59610.81  146.13
## 248  57.05  41  50278.89  269.96
## 249  42.44  56  43450.11  168.27
## 250  62.20  25  25408.21  161.16
## 251  76.70  36  71136.49  222.25
## 252  61.22  45  63883.81  119.03
```

```
## 253  84.54  33  64902.47  204.02
## 254  46.08  30  66784.81  164.63
## 255  56.70  48  62784.85  123.13
## 256  81.03  28  63727.50  201.15
## 257  80.91  32  61608.23  231.42
## 258  40.06  38  56782.18  138.68
## 259  83.47  39  64447.77  226.11
## 260  73.84  31  42042.95  121.05
## 261  74.65  28  67669.06  212.56
## 262  60.25  35  54875.95  109.77
## 263  59.21  35  73347.67  144.62
## 264  43.02  44  50199.77  125.22
## 265  84.04  38  50723.67  244.55
## 266  70.66  43  63450.96  120.95
## 267  70.58  26  56694.12  136.94
## 268  72.44  34  70547.16  230.14
## 269  40.17  26  47391.95  171.31
## 270  79.15  26  62312.23  203.23
## 271  44.49  53  63100.13  168.00
## 272  73.04  37  73687.50  221.79
## 273  76.28  33  52686.47  254.34
## 274  68.88  37  78119.50  179.58
## 275  73.10  28  57014.84  242.37
## 276  47.66  29  27086.40  156.54
## 277  87.30  35  58337.18  216.87
## 278  89.34  32  50216.01  177.78
## 279  81.37  26  53049.44  156.48
## 280  81.67  28  62927.96  196.76
## 281  46.37  52  32847.53  144.27
## 282  54.88  24  32006.82  148.61
## 283  40.67  35  48913.07  133.18
## 284  71.76  35  69285.69  237.39
## 285  47.51  51  53700.57  130.41
## 286  75.15  22  52011.00  212.87
## 287  56.01  26  46339.25  127.26
## 288  82.87  37  67938.77  213.36
## 289  45.05  42  66348.95  141.36
## 290  60.53  24  66873.90  167.22
## 291  50.52  31  72270.88  171.62
## 292  84.71  32  61610.05  210.23
## 293  55.20  39  76560.59  159.46
## 294  81.61  33  62667.51  228.76
## 295  71.55  36  75687.46  163.99
## 296  82.40  36  66744.65  218.97
## 297  73.95  35  67714.82  238.58
## 298  72.07  31  69710.51  226.45
## 299  80.39  31  66269.49  214.74
## 300  65.80  25  60843.32  231.49
## 301  69.97  28  55041.60  250.00
## 302  52.62  50  73863.25  176.52
## 303  39.25  39  62378.05  152.36
## 304  77.56  38  63336.85  130.83
## 305  33.52  43  42191.61  165.56
## 306  79.81  24  56194.56  178.85
```

```
## 307  84.79  33  61771.90  214.53
## 308  82.70  35  61383.79  231.07
## 309  84.88  32  63924.82  186.48
## 310  54.92  54  23975.35  161.16
## 311  76.56  34  70179.11  221.53
## 312  69.74  49  66524.80  243.37
## 313  75.55  22  41851.38  169.40
## 314  72.19  33  61275.18  250.35
## 315  84.29  41  60638.38  232.54
## 316  73.89  39  47160.53  110.68
## 317  75.84  21  48537.18  186.98
## 318  73.38  25  53058.91  236.19
## 319  80.72  31  68614.98  186.37
## 320  62.06  44  44174.25  105.00
## 321  51.50  34  67050.16  135.31
## 322  90.97  37  54520.14  180.77
## 323  86.78  30  54952.42  170.13
## 324  66.18  35  69476.42  243.61
## 325  84.33  41  54989.93  240.95
## 326  36.87  36  29398.61  195.91
## 327  34.78  48  42861.42  208.21
## 328  76.84  32  65883.39  231.59
## 329  67.05  25  65421.39  220.92
## 330  41.47  31  60953.93  219.79
## 331  80.71  26  58476.57  200.58
## 332  80.09  31  66636.84  214.08
## 333  56.30  49  67430.96  135.24
## 334  79.36  34  57260.41  245.78
## 335  86.38  40  66359.32  188.27
## 336  38.94  41  57587.00  142.67
## 337  87.26  35  63060.55  184.03
## 338  75.32  28  59998.50  233.60
## 339  74.38  40  74024.61  220.05
## 340  65.90  22  60550.66  211.39
## 341  36.31  47  57983.30  168.92
## 342  72.23  48  52736.33  115.35
## 343  88.12  38  46653.75  230.91
## 344  83.97  28  56986.73  205.50
## 345  61.09  26  55336.18  131.68
## 346  65.77  21  42162.90  218.61
## 347  81.58  25  39699.13  199.39
## 348  37.87  52  56394.82  188.56
## 349  76.20  37  75044.35  178.51
## 350  60.91  19  53309.61  184.94
## 351  74.49  28  58996.12  237.34
## 352  73.71  23  56605.12  211.38
## 353  78.19  30  62475.99  228.81
## 354  79.54  44  70492.60  217.68
## 355  74.87  52  43698.53  126.97
## 356  87.09  36  57737.51  221.98
## 357  37.45  47  31281.01  167.86
## 358  49.84  39  45800.48  111.59
## 359  51.38  59  42362.49  158.56
## 360  83.40  34  66691.23  207.87
```

```
## 361                38.91  33    56369.74              150.80
## 362                62.14  41    59397.89              110.93
## 363                79.72  28    66025.11              193.80
## 364                73.30  36    68211.35              135.72
## 365                69.11  42    73608.99              231.48
## 366                71.90  54    61228.96              140.15
## 367                72.45  29    72325.91              195.36
## 368                77.07  40    44559.43              261.02
## 369                74.62  36    73207.15              217.79
## 370                82.07  25    46722.07              205.38
## 371                58.60  50    45400.50              113.70
## 372                36.08  45    41417.27              151.47
## 373                79.44  26    60845.55              206.79
## 374                41.73  47    60812.77              144.71
## 375                73.19  25    64267.88              203.74
## 376                77.60  24    58151.87              197.33
## 377                89.00  37    52079.18              222.26
## 378                69.20  42    26023.99              123.80
## 379                67.56  31    62318.38              125.45
## 380                81.11  39    56216.57              248.19
## 381                80.22  30    61806.31              224.58
## 382                43.63  41    51662.24              123.25
## 383                77.66  29    67080.94              168.15
## 384                74.63  26    51975.41              235.99
## 385                49.67  27    28019.09              153.69
## 386                80.59  37    67744.56              224.23
## 387                83.49  33    66574.00              190.75
## 388                44.46  42    30487.48              132.66
## 389                68.10  40    74903.41              227.73
## 390                63.88  38    19991.72              136.85
## 391                78.83  36    66050.63              234.64
## 392                79.97  44    70449.04              216.00
## 393                80.51  28    64008.55              200.28
## 394                62.26  26    70203.74              202.77
## 395                66.99  47    27262.51              124.44
## 396                71.05  20    49544.41              204.22
## 397                42.05  51    28357.27              174.55
## 398                50.52  28    66929.03              219.69
## 399                76.24  40    75524.78              198.32
## 400                77.29  27    66265.34              201.24
## 401                35.98  47    55993.68              165.52
## 402                84.95  34    56379.30              230.36
## 403                39.34  43    31215.88              148.93
## 404                87.23  29    51015.11              202.12
## 405                57.24  52    46473.14              117.35
## 406                81.58  41    55479.62              248.16
## 407                56.34  50    68713.70              139.02
## 408                48.73  27    34191.23              142.04
## 409                51.68  49    51067.54              258.62
## 410                35.34  45    46693.76              152.86
## 411                48.09  33    19345.36              180.42
## 412                78.68  29    66225.72              208.05
## 413                68.82  20    38609.20              205.64
## 414                56.99  40    37713.23              108.15
```

```
## 415  86.63  39  63764.28  209.64
## 416  41.18  43  41866.55  129.25
## 417  71.03  32  57846.68  120.85
## 418  72.92  29  69428.73  217.10
## 419  77.14  24  60283.98  184.88
## 420  60.70  43  79332.33  192.60
## 421  34.30  41  53167.68  160.74
## 422  83.71  45  64564.07  220.48
## 423  53.38  35  60803.37  120.06
## 424  58.03  31  28387.42  129.33
## 425  43.59  36  58849.77  132.31
## 426  60.07  42  65963.37  120.75
## 427  54.43  37  75180.20  154.74
## 428  81.99  33  61270.14  230.90
## 429  60.53  29  56759.48  123.28
## 430  84.69  31  46160.63  231.85
## 431  88.72  32  43870.51  211.87
## 432  88.89  35  50439.49  218.80
## 433  69.58  43  28028.74  255.07
## 434  85.23  36  64238.71  212.92
## 435  83.55  39  65816.38  221.18
## 436  56.66  42  72684.44  139.42
## 437  56.39  27  38817.40  248.12
## 438  76.24  27  63976.44  214.42
## 439  57.64  36  37212.54  110.25
## 440  78.18  23  52691.79  167.67
## 441  46.04  32  65499.93  147.92
## 442  79.40  35  63966.72  236.87
## 443  36.44  39  52400.88  147.64
## 444  53.14  38  49111.47  109.00
## 445  32.84  40  41232.89  171.72
## 446  73.72  32  52140.04  256.40
## 447  38.10  34  60641.09  214.38
## 448  73.93  44  74180.05  218.22
## 449  51.87  50  51869.87  119.65
## 450  77.69  22  48852.58  169.88
## 451  43.41  28  59144.02  160.73
## 452  55.92  24  33951.63  145.08
## 453  80.67  34  58909.36  239.76
## 454  83.42  25  49850.52  183.42
## 455  82.12  52  28679.93  201.15
## 456  66.17  33  69869.66  238.45
## 457  43.01  35  48347.64  127.37
## 458  80.05  25  45959.86  219.94
## 459  64.88  42  70005.51  129.80
## 460  79.82  26  51512.66  223.28
## 461  48.03  40  25598.75  134.60
## 462  32.99  45  49282.87  177.46
## 463  74.88  27  67240.25  175.17
## 464  36.49  52  42136.33  196.61
## 465  88.04  45  62589.84  191.17
## 466  45.70  33  67384.31  151.12
## 467  82.38  35  25603.93  159.60
## 468  52.68  23  39616.00  149.20
```

```
## 469                65.59  47    28265.81              121.81
## 470                65.65  25    63879.72              224.92
## 471                43.84  36    70592.81              167.42
## 472                67.69  37    76408.19              216.57
## 473                78.37  24    55015.08              207.27
## 474                81.46  29    51636.12              231.54
## 475                47.48  31    29359.20              141.34
## 476                75.15  33    71296.67              219.49
## 477                78.76  24    46422.76              219.98
## 478                44.96  50    52802.00              132.71
## 479                39.56  41    59243.46              143.13
## 480                39.76  28    35350.55              196.83
## 481                57.11  22    59677.64              207.17
## 482                83.26  40    70225.60              187.76
## 483                69.42  25    65791.17              213.38
## 484                50.60  30    34191.13              129.88
## 485                46.20  37    51315.38              119.30
## 486                66.88  35    62790.96              119.47
## 487                83.97  40    66291.67              158.42
## 488                76.56  30    68030.18              213.75
## 489                35.49  48    43974.49              159.77
## 490                80.29  31    49457.48              244.87
## 491                50.19  40    33987.27              117.30
## 492                59.12  33    28210.03              124.54
## 493                59.88  30    75535.14              193.63
## 494                59.70  28    49158.50              120.25
## 495                67.80  30    39809.69              117.75
## 496                81.59  35    65826.53              223.16
## 497                81.10  29    61172.07              216.49
## 498                41.70  39    42898.21              126.95
## 499                73.94  27    68333.01              173.49
## 500                58.35  37    70232.95              132.63
## 501                51.56  46    63102.19              124.85
## 502                79.81  37    51847.26              253.17
## 503                66.17  26    63580.22              228.70
## 504                58.21  37    47575.44              105.94
## 505                66.12  49    39031.89              113.80
## 506                80.47  42    70505.06              215.18
## 507                77.05  31    62161.26              236.64
## 508                49.99  41    61068.26              121.07
## 509                80.30  58    49090.51              173.43
## 510                79.36  33    62330.75              234.72
## 511                57.86  30    18819.34              166.86
## 512                70.29  26    62053.37              231.37
## 513                84.53  33    61922.06              215.18
## 514                59.13  44    49525.37              106.04
## 515                81.51  41    53412.32              250.03
## 516                42.94  37    56681.65              130.40
## 517                84.81  32    43299.63              233.93
## 518                82.79  34    47997.75              132.08
## 519                59.22  55    39131.53              126.39
## 520                35.00  40    46033.73              151.25
## 521                46.61  42    65856.74              136.18
## 522                63.26  29    54787.37              120.46
```

```
## 523                79.16  32    69562.46              202.90
## 524                67.94  43    68447.17              128.16
## 525                79.91  32    62772.42              230.18
## 526                66.14  41    78092.95              165.27
## 527                43.65  39    63649.04              138.87
## 528                59.61  21    60637.62              198.45
## 529                46.61  52    27241.11              156.99
## 530                89.37  34    42760.22              162.03
## 531                65.10  49    59457.52              118.10
## 532                53.44  42    42907.89              108.17
## 533                79.53  51    46132.18              244.91
## 534                91.43  39    46964.11              209.91
## 535                73.57  30    70377.23              212.38
## 536                78.76  32    70012.83              208.02
## 537                76.49  23    56457.01              181.11
## 538                61.72  26    67279.06              218.49
## 539                84.53  35    54773.99              236.29
## 540                72.03  34    70783.94              230.95
## 541                77.47  36    70510.59              222.91
## 542                75.65  39    64021.55              247.90
## 543                78.15  33    72042.85              194.37
## 544                63.80  38    36037.33              108.70
## 545                76.59  29    67526.92              211.64
## 546                42.60  55    55121.65              168.29
## 547                78.77  28    63497.62              211.83
## 548                83.40  39    60879.48              235.01
## 549                79.53  33    61467.33              236.72
## 550                73.89  35    70495.64              229.99
## 551                75.80  36    71222.40              224.90
## 552                81.95  31    64698.58              208.76
## 553                56.39  58    32252.38              154.23
## 554                44.73  35    55316.97              127.56
## 555                38.35  33    47447.89              145.48
## 556                72.53  37    73474.82              223.93
## 557                56.20  49    53549.94              114.85
## 558                79.67  28    58576.12              226.79
## 559                75.42  26    63373.70              164.25
## 560                78.64  31    60283.47              235.28
## 561                67.69  44    37345.34              109.22
## 562                38.35  41    34886.01              144.69
## 563                59.52  44    67511.86              251.08
## 564                62.26  37    77988.71              166.19
## 565                64.75  36    63001.03              117.66
## 566                79.97  26    61747.98              185.45
## 567                47.90  42    48467.68              114.53
## 568                80.38  30    55130.96              238.06
## 569                64.51  42    79484.80              190.71
## 570                71.28  37    67307.43              246.72
## 571                50.32  40    27964.60              125.65
## 572                72.76  33    66431.87              240.63
## 573                72.80  35    63551.67              249.54
## 574                74.59  23    40135.06              158.35
## 575                46.66  45    49101.67              118.16
## 576                48.86  54    53188.69              134.46
```

```
## 577  37.05  39  49742.83  142.81
## 578  81.21  36  63394.41  233.04
## 579  66.89  23  64433.99  208.24
## 580  68.11  38  73884.48  231.21
## 581  69.15  46  36424.94  112.72
## 582  65.72  36  28275.48  120.12
## 583  40.04  27  48098.86  161.58
## 584  68.60  33  68448.94  135.08
## 585  56.16  25  66429.84  164.25
## 586  78.60  46  41768.13  254.59
## 587  78.29  38  57844.96  252.07
## 588  43.83  45  35684.82  129.01
## 589  77.31  32  62792.43  238.10
## 590  39.86  28  51171.23  161.24
## 591  66.77  25  58847.07  141.13
## 592  57.20  42  57739.03  110.66
## 593  73.15  25  64631.22  211.12
## 594  82.07  24  50337.93  193.97
## 595  49.84  38  67781.31  135.24
## 596  43.97  36  68863.95  156.97
## 597  77.25  27  55901.12  231.38
## 598  74.84  37  64775.10  246.44
## 599  83.53  36  67686.16  204.56
## 600  38.63  48  57777.11  222.11
## 601  84.00  48  46868.53  136.21
## 602  52.13  50  40926.93  118.27
## 603  71.83  40  22205.74  135.48
## 604  78.36  24  58920.44  196.77
## 605  50.18  35  63006.14  127.82
## 606  64.67  51  24316.61  138.35
## 607  69.50  26  68348.99  203.84
## 608  65.22  30  66263.37  240.09
## 609  62.06  40  63493.60  116.27
## 610  84.29  30  56984.09  160.33
## 611  32.91  37  51691.55  181.02
## 612  39.50  31  49911.25  148.19
## 613  75.19  31  33502.57  245.76
## 614  76.21  31  65834.97  228.94
## 615  67.76  31  66176.97  242.59
## 616  40.01  53  51463.17  161.77
## 617  52.70  41  41059.64  109.34
## 618  68.41  38  61428.18  259.76
## 619  35.55  39  51593.46  151.18
## 620  74.54  24  57518.73  219.75
## 621  81.75  24  52656.13  190.08
## 622  87.85  31  52178.98  210.27
## 623  60.23  60  46239.14  151.54
## 624  87.97  35  48918.55  149.25
## 625  78.17  27  65227.79  192.27
## 626  67.91  23  55002.05  146.80
## 627  85.77  27  52261.73  191.78
## 628  41.16  49  59448.44  150.83
## 629  53.54  39  47314.45  108.03
## 630  73.94  26  55411.06  236.15
```

```
## 631                63.43  29    66504.16              236.75
## 632                84.59  36    47169.14              241.80
## 633                70.13  31    70889.68              224.98
## 634                40.19  37    55358.88              136.99
## 635                58.95  55    56242.70              131.29
## 636                35.76  51    45522.44              195.07
## 637                59.36  49    46931.03              110.84
## 638                91.10  40    55499.69              198.13
## 639                61.04  41    75805.12              149.21
## 640                74.06  23    40345.49              225.99
## 641                64.63  45    15598.29              158.80
## 642                81.29  28    33239.20              219.72
## 643                76.07  36    68033.54              235.56
## 644                75.92  22    38427.66              182.65
## 645                78.35  46    53185.34              253.48
## 646                46.14  28    39723.97              137.97
## 647                44.33  41    43386.07              120.63
## 648                46.43  28    53922.43              137.20
## 649                66.04  27    71881.84              199.76
## 650                84.31  29    47139.21              225.87
## 651                83.66  38    68877.02              175.14
## 652                81.25  33    65186.58              222.35
## 653                85.26  32    55424.24              224.07
## 654                86.53  46    46500.11              233.36
## 655                76.44  26    58820.16              224.20
## 656                52.84  43    28495.21              122.31
## 657                85.24  31    61840.26              182.84
## 658                74.71  46    37908.29              258.06
## 659                82.95  39    69805.70              201.29
## 660                76.42  26    60315.19              223.16
## 661                42.04  49    67323.00              182.11
## 662                46.28  26    50055.33              228.78
## 663                48.26  50    43573.66              122.45
## 664                71.03  55    28186.65              150.77
## 665                81.37  33    66412.04              215.04
## 666                58.05  32    15879.10              195.54
## 667                75.00  29    63965.16              230.36
## 668                79.61  31    58342.63              235.97
## 669                52.56  31    33147.19              250.36
## 670                62.18  33    65899.68              126.44
## 671                77.89  26    64188.50              201.54
## 672                66.08  61    58966.22              184.23
## 673                89.21  33    44078.24              210.53
## 674                49.96  55    60968.62              151.94
## 675                77.44  28    65620.25              210.39
## 676                82.58  38    65496.78              225.23
## 677                39.36  29    52462.04              161.79
## 678                47.23  38    70582.55              149.80
## 679                87.85  34    51816.27              153.01
## 680                65.57  46    23410.75              130.86
## 681                78.01  26    62729.40              200.71
## 682                44.15  28    48867.67              141.96
## 683                43.57  36    50971.73              125.20
## 684                76.83  28    67990.84              192.81
```

```
## 685                42.06  34    43241.19              131.55
## 686                76.27  27    60082.66              226.69
## 687                74.27  37    65180.97              247.05
## 688                73.27  28    67301.39              216.24
## 689                74.58  36    70701.31              230.52
## 690                77.50  28    60997.84              225.34
## 691                87.16  33    60805.93              197.15
## 692                87.16  37    50711.68              231.95
## 693                66.26  47    14548.06              179.04
## 694                65.15  29    41335.84              117.30
## 695                68.25  33    76480.16              198.86
## 696                73.49  38    67132.46              244.23
## 697                39.19  54    52581.16              173.05
## 698                80.15  25    55195.61              214.49
## 699                86.76  28    48679.54              189.91
## 700                73.88  29    63109.74              233.61
## 701                58.60  19    44490.09              197.93
## 702                69.77  54    57667.99              132.27
## 703                87.27  30    51824.01              204.27
## 704                77.65  28    66198.66              208.01
## 705                76.02  40    73174.19              219.55
## 706                78.84  26    56593.80              217.66
## 707                71.33  23    31072.44              169.40
## 708                81.90  41    66773.83              225.47
## 709                46.89  48    72553.94              176.78
## 710                77.80  57    43708.88              152.94
## 711                45.44  43    48453.55              119.27
## 712                69.96  31    73413.87              214.06
## 713                87.35  35    58114.30              158.29
## 714                49.42  53    45465.25              128.00
## 715                71.27  21    50147.72              216.03
## 716                49.19  38    61004.51              123.08
## 717                39.96  35    53898.89              138.52
## 718                85.01  29    59797.64              192.50
## 719                68.95  51    74623.27              185.85
## 720                67.59  45    58677.69              113.69
## 721                75.71  34    62109.80              246.06
## 722                43.07  36    60583.02              137.63
## 723                39.47  43    65576.05              163.48
## 724                48.22  40    73882.91              214.33
## 725                76.76  25    50468.36              230.77
## 726                78.74  27    51409.45              234.75
## 727                67.47  24    60514.05              225.05
## 728                81.17  30    57195.96              231.91
## 729                89.66  34    52802.58              171.23
## 730                79.60  28    56570.06              227.37
## 731                65.53  19    51049.47              190.17
## 732                61.87  35    66629.61              250.20
## 733                83.16  41    70185.06              194.95
## 734                44.11  41    43111.41              121.24
## 735                56.57  26    56435.60              131.98
## 736                83.91  29    53223.58              222.87
## 737                79.80  28    57179.91              229.88
## 738                71.23  52    41521.28              122.59
```

```
## 739                47.23  43    73538.09             210.87
## 740                82.37  30    63664.32             207.44
## 741                43.63  38    61757.12             135.25
## 742                70.90  28    71727.51             190.95
## 743                71.90  29    72203.96             193.29
## 744                62.12  37    50671.60             105.86
## 745                67.35  29    47510.42             118.69
## 746                57.99  50    62466.10             124.58
## 747                66.80  29    59683.16             248.51
## 748                49.13  32    41097.17             120.49
## 749                45.11  58    39799.73             195.69
## 750                54.35  42    76984.21             164.02
## 751                61.82  59    57877.15             151.93
## 752                77.75  31    59047.91             240.64
## 753                70.61  28    72154.68             190.12
## 754                82.72  31    65704.79             179.82
## 755                76.87  36    72948.76             212.59
## 756                65.07  34    73941.91             227.53
## 757                56.93  37    57887.64             111.80
## 758                48.86  35    62463.70             128.37
## 759                36.56  29    42838.29             195.89
## 760                85.73  32    43778.88             147.75
## 761                75.81  40    71157.05             229.19
## 762                72.94  31    74159.69             190.84
## 763                53.63  54    50333.72             126.29
## 764                52.35  25    33293.78             147.61
## 765                52.84  51    38641.20             121.57
## 766                51.58  33    49822.78             115.91
## 767                42.32  29    63891.29             187.09
## 768                55.04  42    43881.73             106.96
## 769                68.58  41    13996.50             171.54
## 770                85.54  27    48761.14             175.43
## 771                71.14  30    69758.31             224.82
## 772                64.38  19    52530.10             180.47
## 773                88.85  40    58363.12             213.96
## 774                66.79  60    60575.99             198.30
## 775                32.60  45    48206.04             185.47
## 776                43.88  54    31523.09             166.85
## 777                56.46  26    66187.58             151.63
## 778                72.18  30    69438.04             225.02
## 779                52.67  44    14775.50             191.26
## 780                80.55  35    68016.90             219.91
## 781                67.85  41    78520.99             202.70
## 782                75.55  36    31998.72             123.71
## 783                80.46  29    56909.30             230.78
## 784                82.69  29    61161.29             167.41
## 785                35.21  39    52340.10             154.00
## 786                36.37  40    47338.94             144.53
## 787                74.07  22    50950.24             165.43
## 788                59.96  33    77143.61             197.66
## 789                85.62  29    57032.36             195.68
## 790                40.88  33    48554.45             136.18
## 791                36.98  31    39552.49             167.87
## 792                35.49  47    36884.23             170.04
```

```
## 793                56.56  26    68783.45              204.47
## 794                36.62  32    51119.93              162.44
## 795                49.35  49    44304.13              119.86
## 796                75.64  29    69718.19              204.82
## 797                79.22  27    63429.18              198.79
## 798                77.05  34    65756.36              236.08
## 799                66.83  46    77871.75              196.17
## 800                76.20  24    47258.59              228.81
## 801                56.64  29    55984.89              123.24
## 802                53.33  34    44275.13              111.63
## 803                50.63  50    25767.16              142.23
## 804                41.84  49    37605.11              139.32
## 805                53.92  41    25739.09              125.46
## 806                83.89  28    60188.38              180.88
## 807                55.32  43    67682.32              127.65
## 808                53.22  44    44307.18              108.85
## 809                43.16  35    25371.52              156.11
## 810                67.51  43    23942.61              127.20
## 811                43.16  29    50666.50              143.04
## 812                79.89  30    50356.06              241.38
## 813                84.25  32    63936.50              170.90
## 814                74.18  28    69874.18              203.87
## 815                85.78  34    50038.65              232.78
## 816                80.96  39    67866.95              225.00
## 817                36.91  48    54645.20              159.69
## 818                54.47  23    46780.09              141.52
## 819                81.98  34    67432.49              212.88
## 820                79.60  39    73392.28              194.23
## 821                57.51  38    47682.28              105.71
## 822                82.30  31    56735.83              232.21
## 823                73.21  30    51013.37              252.60
## 824                79.09  32    69481.85              209.72
## 825                68.47  28    67033.34              226.64
## 826                83.69  36    68717.00              192.57
## 827                83.48  31    59340.99              222.72
## 828                43.49  45    47968.32              124.67
## 829                66.69  35    48758.92              108.27
## 830                48.46  49    61230.03              132.38
## 831                42.51  30    54755.71              144.77
## 832                42.83  34    54324.73              132.38
## 833                41.46  42    52177.40              128.98
## 834                45.99  33    51163.14              124.61
## 835                68.72  27    66861.67              225.97
## 836                63.11  34    63107.88              254.94
## 837                49.21  46    49206.40              115.60
## 838                55.77  49    55942.04              117.33
## 839                44.13  40    33601.84              128.48
## 840                57.82  46    48867.36              107.56
## 841                72.46  40    56683.32              113.53
## 842                61.88  45    38260.89              108.18
## 843                78.24  23    54106.21              199.29
## 844                74.61  38    71055.22              231.28
## 845                89.18  37    46403.18              224.01
## 846                44.16  42    61690.93              133.42
```

```
## 847  55.74  37  26130.93  124.34
## 848  88.82  36  58638.75  169.10
## 849  70.39  32  47357.39  261.52
## 850  59.05  52  50086.17  118.45
## 851  78.58  33  51772.58  250.11
## 852  35.11  35  47638.30  158.03
## 853  60.39  45  38987.42  108.25
## 854  81.56  26  51363.16  213.70
## 855  75.03  34  35764.49  255.57
## 856  50.87  24  62939.50  190.41
## 857  82.80  30  58776.67  223.20
## 858  78.51  25  59106.12  205.71
## 859  37.65  51  50457.01  161.29
## 860  83.17  43  54251.78  244.40
## 861  91.37  45  51920.49  182.65
## 862  68.25  29  70324.80  220.08
## 863  81.32  25  52416.18  165.65
## 864  76.64  39  66217.31  241.50
## 865  74.06  50  60938.73  246.29
## 866  39.53  33  40243.82  142.21
## 867  86.58  32  60151.77  195.93
## 868  90.75  40  45945.88  216.50
## 869  67.71  25  63430.33  225.76
## 870  82.41  36  65882.81  222.08
## 871  45.82  27  64410.80  171.24
## 872  76.79  27  55677.12  235.94
## 873  70.05  33  75560.65  203.44
## 874  72.19  32  61067.58  250.32
## 875  77.35  34  72330.57  167.26
## 876  40.34  29  32549.95  173.75
## 877  67.39  44  51257.26  107.19
## 878  68.68  34  77220.42  187.03
## 879  81.75  43  52520.75  249.45
## 880  66.03  22  59422.47  217.37
## 881  47.74  33  22456.04  154.93
## 882  79.18  31  58443.99  236.96
## 883  86.81  29  50820.74  199.62
## 884  41.53  42  67575.12  158.81
## 885  70.92  39  66522.79  249.81
## 886  46.84  45  34903.67  123.22
## 887  44.40  53  43073.78  140.95
## 888  52.17  44  57594.70  115.37
## 889  81.45  31  66027.31  205.84
## 890  54.08  36  53012.94  111.02
## 891  76.65  31  61117.50  238.43
## 892  54.39  20  52563.22  171.90
## 893  37.74  40  65773.49  190.95
## 894  69.86  25  50506.44  241.36
## 895  85.37  36  66262.59  194.56
## 896  80.99  26  35521.88  207.53
## 897  78.84  32  62430.55  235.29
## 898  77.36  41  49597.08  115.79
## 899  55.46  37  42078.89  108.10
## 900  35.66  45  46197.59  151.72
```

```
## 901                50.78  51    49957.00              122.04
## 902                40.47  38    24078.93              203.90
## 903                45.62  43    53647.81              121.28
## 904                84.76  30    61039.13              178.69
## 905                80.64  26    46974.15              221.59
## 906                75.94  27    53042.51              236.96
## 907                37.01  50    48826.14              216.01
## 908                87.18  31    58287.86              193.60
## 909                56.91  50    21773.22              146.44
## 910                75.24  24    52252.91              226.49
## 911                42.84  52    27073.27              182.20
## 912                67.56  47    50628.31              109.98
## 913                34.96  42    36913.51              160.49
## 914                87.46  37    61009.10              211.56
## 915                41.86  39    53041.77              128.62
## 916                34.04  34    40182.84              174.88
## 917                54.96  42    59419.78              113.75
## 918                87.14  31    58235.21              199.40
## 919                78.79  32    68324.48              215.29
## 920                65.56  25    69646.35              181.25
## 921                81.05  34    54045.39              245.50
## 922                55.71  37    57806.03              112.52
## 923                45.48  49    53336.76              129.16
## 924                47.00  56    50491.45              149.53
## 925                59.64  51    71455.62              153.12
## 926                35.98  45    43241.88              150.79
## 927                72.55  22    58953.01              202.34
## 928                91.15  38    36834.04              184.98
## 929                80.53  29    66345.10              187.64
## 930                82.49  45    38645.40              130.84
## 931                80.94  36    60803.00              239.94
## 932                61.76  34    33553.90              114.69
## 933                63.30  38    63071.34              116.19
## 934                36.73  34    46737.34              149.79
## 935                78.41  33    55368.67              248.23
## 936                83.98  36    68305.91              194.62
## 937                63.18  45    39211.49              107.92
## 938                50.60  48    65956.71              135.67
## 939                32.60  38    40159.20              190.05
## 940                60.83  19    40478.83              185.46
## 941                44.72  46    40468.53              123.86
## 942                78.76  51    66980.27              162.05
## 943                79.51  39    34942.26              125.11
## 944                39.30  32    48335.20              145.73
## 945                64.79  30    42251.59              116.07
## 946                89.80  36    57330.43              198.24
## 947                72.82  34    75769.82              191.82
## 948                38.65  31    51812.71              154.77
## 949                59.01  30    75265.96              178.75
## 950                78.96  50    69868.48              193.15
## 951                63.99  43    72802.42              138.46
## 952                41.35  27    39193.45              162.46
## 953                62.79  36    18368.57              231.87
## 954                45.53  29    56129.89              141.58
```

```
## 955                    51.65  31    58996.56              249.99
## 956                    54.55  44    41547.62              109.04
## 957                    35.66  36    59240.24              172.57
## 958                    69.95  28    56725.47              247.01
## 959                    79.83  29    55764.43              234.23
## 960                    85.35  37    64235.51              161.42
## 961                    56.78  28    39939.39              124.32
## 962                    78.67  26    63319.99              195.56
## 963                    70.09  21    54725.87              211.17
## 964                    60.75  42    69775.75              247.05
## 965                    65.07  24    57545.56              233.85
## 966                    35.25  50    47051.02              194.44
## 967                    37.58  52    51600.47              176.70
## 968                    68.01  25    68357.96              188.32
## 969                    45.08  38    35349.26              125.27
## 970                    63.04  27    69784.85              159.05
## 971                    40.18  29    50760.23              151.96
## 972                    45.17  48    34418.09              132.07
## 973                    50.48  50    20592.99              162.43
## 974                    80.87  28    63528.80              203.30
## 975                    41.88  40    44217.68              126.11
## 976                    39.87  48    47929.83              139.34
## 977                    61.84  45    46024.29              105.63
## 978                    54.97  31    51900.03              116.38
## 979                    71.40  30    72188.90              166.31
## 980                    70.29  31    56974.51              254.65
## 981                    67.26  57    25682.65              168.41
## 982                    76.58  46    41884.64              258.26
## 983                    54.37  38    72196.29              140.77
## 984                    82.79  32    54429.17              234.81
## 985                    66.47  31    58037.66              256.39
## 986                    72.88  44    64011.26              125.12
## 987                    76.44  28    59967.19              232.68
## 988                    63.37  43    43155.19              105.04
## 989                    89.71  48    51501.38              204.40
## 990                    70.96  31    55187.85              256.40
## 991                    35.79  44    33813.08              165.62
## 992                    38.96  38    36497.22              140.67
## 993                    69.17  40    66193.81              123.62
## 994                    64.20  27    66200.96              227.63
## 995                    43.70  28    63126.96              173.01
## 996                    72.97  30    71384.57              208.58
## 997                    51.30  45    67782.17              134.42
## 998                    51.63  51    42415.72              120.37
## 999                    55.55  19    41920.79              187.95
## 1000                   45.01  26    29875.80              178.35
##                                                 Ad.Topic.Line
## 1                        Cloned 5thgeneration orchestration
## 2                        Monitored national standardization
## 3                          Organic bottom-line service-desk
## 4                     Triple-buffered reciprocal time-frame
## 5                             Robust logistical utilization
## 6                           Sharable client-driven software
## 7                                Enhanced dedicated support
```

```
## 8                                 Reactive local challenge
## 9                            Configurable coherent function
## 10                        Mandatory homogeneous architecture
## 11                            Centralized neutral neural-net
## 12               Team-oriented grid-enabled Local Area Network
## 13                      Centralized content-based focus group
## 14                           Synergistic fresh-thinking array
## 15                              Grass-roots coherent extranet
## 16                         Persistent demand-driven interface
## 17                         Customizable multi-tasking website
## 18                                 Intuitive dynamic attitude
## 19               Grass-roots solution-oriented conglomeration
## 20                              Advanced 24/7 productivity
## 21                      Object-based reciprocal knowledgebase
## 22                          Streamlined non-volatile analyzer
## 23                      Mandatory disintermediate utilization
## 24                         Future-proofed methodical protocol
## 25                              Exclusive neutral parallelism
## 26                            Public-key foreground groupware
## 27                         Ameliorated client-driven forecast
## 28                            Monitored systematic hierarchy
## 29                    Open-architected impactful productivity
## 30                    Business-focused value-added definition
## 31                     Programmable asymmetric data-warehouse
## 32                              Digitized static capability
## 33                              Digitized global capability
## 34                Multi-layered 4thgeneration knowledge user
## 35                      Synchronized dedicated service-desk
## 36                          Synchronized systemic hierarchy
## 37                                  Profound stable product
## 38                         Reactive demand-driven capacity
## 39                  Persevering needs-based open architecture
## 40                           Intuitive exuding service-desk
## 41                          Innovative user-facing extranet
## 42                        Front-line intermediate database
## 43                       Persevering exuding system engine
## 44                            Balanced dynamic application
## 45                                  Reduced global support
## 46                         Organic leadingedge secured line
## 47                  Business-focused encompassing neural-net
## 48                    Triple-buffered demand-driven alliance
## 49                  Visionary maximized process improvement
## 50                           Centralized 24/7 installation
## 51                            Organized static focus group
## 52                            Visionary reciprocal circuit
## 53                         Pre-emptive value-added workforce
## 54                               Sharable analyzing alliance
## 55                         Team-oriented encompassing portal
## 56                            Sharable bottom-line solution
## 57                            Cross-group regional website
## 58                                  Organized global model
## 59                          Upgradable asynchronous circuit
## 60                        Phased transitional instruction set
## 61                        Customer-focused empowering ability
```

```
## 62                      Front-line heuristic data-warehouse
## 63                            Stand-alone national attitude
## 64                             Focused upward-trending core
## 65                      Streamlined cohesive conglomeration
## 66                            Upgradable optimizing toolset
## 67                            Synchronized user-facing core
## 68                         Organized client-driven alliance
## 69                          Ergonomic multi-state structure
## 70                          Synergized multimedia emulation
## 71                   Customer-focused optimizing moderator
## 72                           Advanced full-range migration
## 73                 De-engineered object-oriented protocol
## 74              Polarized clear-thinking budgetary management
## 75                  Customizable 6thgeneration knowledge user
## 76                   Seamless object-oriented structure
## 77                              Seamless real-time array
## 78                   Grass-roots impactful system engine
## 79                            Devolved tangible approach
## 80                       Customizable executive software
## 81                        Progressive analyzing attitude
## 82                          Innovative executive encoding
## 83                       Down-sized uniform info-mediaries
## 84                 Streamlined next generation implementation
## 85                        Distributed tertiary system engine
## 86                        Triple-buffered scalable groupware
## 87                             Total 5thgeneration encoding
## 88                       Integrated human-resource encoding
## 89                          Phased dynamic customer loyalty
## 90                              Open-source coherent policy
## 91                              Down-sized modular intranet
## 92                    Pre-emptive content-based focus group
## 93                    Versatile 4thgeneration system engine
## 94                          Ergonomic full-range time-frame
## 95                           Automated directional function
## 96                          Progressive empowering alliance
## 97                           Versatile homogeneous capacity
## 98                        Function-based optimizing protocol
## 99                              Up-sized secondary software
## 100                           Seamless holistic time-frame
## 101                         Persevering reciprocal firmware
## 102                    Centralized logistical secured line
## 103                   Innovative background conglomeration
## 104                           Switchable 3rdgeneration hub
## 105                 Polarized 6thgeneration info-mediaries
## 106                           Balanced heuristic approach
## 107                         Focused 24hour implementation
## 108                    De-engineered mobile infrastructure
## 109             Customer-focused upward-trending contingency
## 110                      Operative system-worthy protocol
## 111                 User-friendly upward-trending intranet
## 112                 Future-proofed holistic superstructure
## 113                              Extended systemic policy
## 114                           Horizontal hybrid challenge
## 115                               Virtual composite model
```

```
## 116                            Switchable mobile framework
## 117                           Focused intangible moderator
## 118                           Balanced actuating moderator
## 119                  Customer-focused transitional strategy
## 120                    Advanced web-enabled standardization
## 121                     Pre-emptive executive knowledgebase
## 122               Self-enabling holistic process improvement
## 123                       Horizontal client-driven hierarchy
## 124                             Polarized dynamic throughput
## 125                   Devolved zero administration intranet
## 126                 User-friendly asymmetric info-mediaries
## 127                       Cross-platform regional task-force
## 128                Polarized bandwidth-monitored moratorium
## 129                     Centralized systematic knowledgebase
## 130              Future-proofed grid-enabled implementation
## 131                       Down-sized well-modulated archive
## 132                      Realigned zero tolerance emulation
## 133                       Versatile transitional monitoring
## 134            Profound zero administration instruction set
## 135                      User-centric intangible task-force
## 136                      Enhanced system-worthy application
## 137                      Multi-layered user-facing paradigm
## 138                           Customer-focused 24/7 concept
## 139                 Function-based transitional complexity
## 140           Progressive clear-thinking open architecture
## 141                           Up-sized executive moderator
## 142                 Re-contextualized optimal service-desk
## 143                 Fully-configurable neutral open system
## 144                         Upgradable system-worthy array
## 145                    Ergonomic client-driven application
## 146                       Realigned content-based leverage
## 147                        Decentralized real-time circuit
## 148                             Polarized modular function
## 149                 Enterprise-wide client-driven contingency
## 150                              Diverse modular interface
## 151                            Polarized analyzing concept
## 152                Multi-channeled asynchronous open system
## 153           Function-based context-sensitive secured line
## 154                       Adaptive 24hour Graphic Interface
## 155                          Automated coherent flexibility
## 156                             Focused scalable complexity
## 157                          Up-sized incremental encryption
## 158                     Sharable dedicated Graphic Interface
## 159                   Digitized zero administration paradigm
## 160                     Managed grid-enabled standardization
## 161                          Networked foreground definition
## 162                              Re-engineered exuding frame
## 163                         Horizontal multi-state interface
## 164                                   Diverse stable circuit
## 165                           Universal 24/7 implementation
## 166          Customer-focused multi-tasking Internet solution
## 167               Vision-oriented contextually-based extranet
## 168                               Extended local methodology
## 169                     Re-engineered demand-driven capacity
```

```
## 170       Customer-focused attitude-oriented instruction set
## 171                           Synergized hybrid time-frame
## 172                         Advanced exuding conglomeration
## 173                       Secured clear-thinking middleware
## 174                      Right-sized value-added initiative
## 175                  Centralized tertiary pricing structure
## 176       Multi-channeled reciprocal artificial intelligence
## 177                   Synergized context-sensitive database
## 178                           Realigned systematic function
## 179                  Adaptive context-sensitive application
## 180                          Networked high-level structure
## 181                    Profit-focused dedicated utilization
## 182                          Stand-alone tangible moderator
## 183                        Polarized tangible collaboration
## 184                       Focused high-level conglomeration
## 185                     Advanced modular Local Area Network
## 186                           Virtual scalable secured line
## 187                      Front-line fault-tolerant intranet
## 188                      Inverse asymmetric instruction set
## 189                      Synchronized leadingedge help-desk
## 190                     Total 5thgeneration standardization
## 191                           Sharable grid-enabled matrix
## 192                        Balanced asynchronous hierarchy
## 193              Monitored object-oriented Graphic Interface
## 194                 Cloned analyzing artificial intelligence
## 195                         Persistent homogeneous framework
## 196                        Face-to-face even-keeled website
## 197                  Extended context-sensitive monitoring
## 198                           Exclusive client-driven model
## 199                         Profound executive flexibility
## 200                        Reduced bi-directional strategy
## 201                           Digitized heuristic solution
## 202                      Seamless 4thgeneration contingency
## 203                        Seamless intangible secured line
## 204                              Intuitive radical forecast
## 205      Multi-layered non-volatile Graphical User Interface
## 206              User-friendly client-server instruction set
## 207                           Synchronized multimedia model
## 208                      Face-to-face intermediate approach
## 209                          Assimilated fault-tolerant hub
## 210                   Exclusive disintermediate task-force
## 211                         Managed zero tolerance concept
## 212                           Compatible systemic function
## 213                  Configurable fault-tolerant monitoring
## 214                        Future-proofed coherent hardware
## 215                  Ameliorated upward-trending definition
## 216                           Front-line tangible alliance
## 217                            Progressive 24hour forecast
## 218                        Self-enabling optimal initiative
## 219         Configurable logistical Graphical User Interface
## 220                  Virtual bandwidth-monitored initiative
## 221                   Multi-tiered human-resource structure
## 222                Managed upward-trending instruction set
## 223                         Cloned object-oriented benchmark
```

```
## 224                   Fundamental fault-tolerant neural-net
## 225                      Phased zero administration success
## 226                  Compatible intangible customer loyalty
## 227                    Distributed 3rdgeneration definition
## 228                Pre-emptive cohesive budgetary management
## 229                     Configurable multi-state utilization
## 230                        Diverse multi-tasking parallelism
## 231                       Horizontal content-based synergy
## 232                         Multi-tiered maximized archive
## 233                            Diverse executive groupware
## 234                              Synergized cohesive array
## 235                           Versatile dedicated software
## 236                         Stand-alone reciprocal synergy
## 237                         Universal even-keeled analyzer
## 238                          Up-sized tertiary contingency
## 239                      Monitored real-time superstructure
## 240                        Streamlined analyzing initiative
## 241                                Automated static concept
## 242                             Operative stable moderator
## 243                      Up-sized 6thgeneration moratorium
## 244                           Expanded clear-thinking core
## 245               Polarized attitude-oriented superstructure
## 246                           Networked coherent interface
## 247                         Enhanced homogeneous moderator
## 248                            Seamless full-range website
## 249               Profit-focused attitude-oriented task-force
## 250                      Cross-platform multimedia algorithm
## 251                          Open-source coherent monitoring
## 252                      Streamlined logistical secured line
## 253                           Synchronized stable complexity
## 254                         Synergistic value-added extranet
## 255                      Progressive non-volatile neural-net
## 256                          Persevering tertiary capability
## 257               Enterprise-wide bi-directional secured line
## 258             Organized contextually-based customer loyalty
## 259                              Total directional approach
## 260                    Programmable uniform productivity
## 261                           Robust transitional ability
## 262                 De-engineered fault-tolerant database
## 263                      Managed disintermediate matrices
## 264                    Configurable bottom-line application
## 265                  Self-enabling didactic pricing structure
## 266                        Versatile scalable encryption
## 267                Proactive next generation knowledge user
## 268                         Customizable tangible hierarchy
## 269                        Visionary asymmetric encryption
## 270                      Intuitive explicit conglomeration
## 271                     Business-focused real-time toolset
## 272                   Organic contextually-based focus group
## 273                         Right-sized asynchronous website
## 274                       Advanced 5thgeneration capability
## 275                           Universal asymmetric archive
## 276                          Devolved responsive structure
## 277                        Triple-buffered regional toolset
```

```
## 278                      Object-based executive productivity
## 279                      Business-focused responsive website
## 280                            Visionary analyzing structure
## 281        De-engineered solution-oriented open architecture
## 282                   Customizable modular Internet solution
## 283                      Stand-alone encompassing throughput
## 284                          Customizable zero-defect matrix
## 285                     Managed well-modulated collaboration
## 286                                Universal global intranet
## 287                           Re-engineered real-time success
## 288                     Front-line fresh-thinking open system
## 289                     Digitized contextually-based product
## 290                              Organic interactive support
## 291                            Function-based stable alliance
## 292                             Reactive responsive emulation
## 293                        Exclusive zero tolerance alliance
## 294                           Enterprise-wide local matrices
## 295                       Inverse next generation moratorium
## 296                         Implemented bifurcated workforce
## 297                        Persevering even-keeled help-desk
## 298                  Grass-roots eco-centric instruction set
## 299  Fully-configurable incremental Graphical User Interface
## 300                                Expanded radical software
## 301                          Mandatory 3rdgeneration moderator
## 302                      Enterprise-wide foreground emulation
## 303               Customer-focused incremental system engine
## 304                        Right-sized multi-tasking solution
## 305                     Vision-oriented optimizing middleware
## 306                       Proactive context-sensitive project
## 307                              Managed eco-centric encoding
## 308                         Visionary multi-tasking alliance
## 309                           Ameliorated tangible hierarchy
## 310                               Extended interactive model
## 311                         Universal bi-directional extranet
## 312                                Enhanced maximized access
## 313                          Upgradable even-keeled challenge
## 314                      Synchronized national infrastructure
## 315                     Re-contextualized systemic time-frame
## 316                           Horizontal national architecture
## 317                         Reactive bi-directional workforce
## 318                         Horizontal transitional challenge
## 319                            Re-engineered neutral success
## 320                  Adaptive contextually-based methodology
## 321                              Configurable dynamic adapter
## 322                         Multi-lateral empowering throughput
## 323                         Fundamental zero tolerance solution
## 324                            Proactive asymmetric definition
## 325            Pre-emptive zero tolerance Local Area Network
## 326                  Self-enabling incremental collaboration
## 327                         Exclusive even-keeled moratorium
## 328                         Reduced incremental productivity
## 329                       Realigned scalable standardization
## 330                 Secured scalable Graphical User Interface
## 331              Team-oriented context-sensitive installation
```

```
## 332              Pre-emptive systematic budgetary management
## 333            Fully-configurable high-level implementation
## 334                           Profound maximized workforce
## 335                Cross-platform 4thgeneration focus group
## 336               Optional mission-critical functionalities
## 337                           Multi-layered tangible portal
## 338                                Reduced mobile structure
## 339               Enhanced zero tolerance Graphic Interface
## 340                     De-engineered tertiary secured line
## 341            Reverse-engineered well-modulated capability
## 342                   Integrated coherent pricing structure
## 343                    Realigned next generation projection
## 344                    Reactive needs-based instruction set
## 345                   User-friendly well-modulated leverage
## 346                     Function-based fault-tolerant model
## 347                      Decentralized needs-based analyzer
## 348                               Phased analyzing emulation
## 349         Multi-layered fresh-thinking process improvement
## 350                   Upgradable directional system engine
## 351                    Persevering eco-centric flexibility
## 352                                       Inverse local hub
## 353           Triple-buffered needs-based Local Area Network
## 354                      Centralized multi-state hierarchy
## 355                Public-key non-volatile implementation
## 356                           Synergized coherent interface
## 357                           Horizontal high-level concept
## 358                              Reduced multimedia project
## 359                   Object-based modular functionalities
## 360                     Polarized multimedia system engine
## 361                          Versatile reciprocal structure
## 362                    Upgradable multi-tasking initiative
## 363               Configurable tertiary budgetary management
## 364                           Adaptive asynchronous attitude
## 365              Face-to-face mission-critical definition
## 366               Inverse zero tolerance customer loyalty
## 367                                Centralized 24hour synergy
## 368                     Face-to-face analyzing encryption
## 369                  Self-enabling even-keeled methodology
## 370                     Function-based optimizing extranet
## 371                          Organic asynchronous hierarchy
## 372                  Automated client-driven orchestration
## 373                        Public-key zero-defect analyzer
## 374                   Proactive client-server productivity
## 375                             Cloned incremental matrices
## 376               Open-architected system-worthy task-force
## 377                           Devolved regional moderator
## 378                         Balanced value-added database
## 379                  Seamless composite budgetary management
## 380                              Total cohesive moratorium
## 381                         Integrated motivating neural-net
## 382                        Exclusive zero tolerance frame
## 383                          Operative scalable emulation
## 384                        Enhanced asymmetric installation
## 385                      Face-to-face reciprocal methodology
```

```
## 386                         Robust responsive collaboration
## 387                                Polarized logistical hub
## 388                         Intuitive zero-defect framework
## 389                              Reactive composite project
## 390                         Upgradable even-keeled hardware
## 391                        Future-proofed responsive matrix
## 392                      Programmable empowering middleware
## 393                          Robust dedicated system engine
## 394                        Public-key mission-critical core
## 395                        Operative actuating installation
## 396              Self-enabling asynchronous knowledge user
## 397                                Configurable 24/7 hub
## 398                     Versatile responsive knowledge user
## 399                           Managed impactful definition
## 400                     Grass-roots 4thgeneration forecast
## 401                  Focused 3rdgeneration pricing structure
## 402                       Mandatory dedicated data-warehouse
## 403                                Proactive radical support
## 404                     Re-engineered responsive definition
## 405                         Profound optimizing utilization
## 406                              Cloned explicit middleware
## 407                  Multi-channeled mission-critical success
## 408                        Versatile content-based protocol
## 409                        Seamless cohesive conglomeration
## 410                      De-engineered actuating hierarchy
## 411                          Balanced motivating help-desk
## 412                          Inverse high-level capability
## 413                  Cross-platform client-server hierarchy
## 414                               Sharable optimal capacity
## 415                         Face-to-face multimedia success
## 416           Enterprise-wide incremental Internet solution
## 417                          Advanced systemic productivity
## 418                  Customizable mission-critical adapter
## 419                           Horizontal heuristic synergy
## 420                     Multi-tiered multi-state moderator
## 421                   Re-contextualized reciprocal interface
## 422                   Organized demand-driven knowledgebase
## 423                                   Total local synergy
## 424              User-friendly bandwidth-monitored attitude
## 425          Re-engineered context-sensitive knowledge user
## 426                           Total user-facing hierarchy
## 427           Balanced contextually-based pricing structure
## 428                   Inverse bi-directional knowledge user
## 429                         Networked even-keeled workforce
## 430                   Right-sized transitional parallelism
## 431           Customer-focused system-worthy superstructure
## 432                         Balanced 4thgeneration success
## 433                         Cross-group value-added success
## 434                    Visionary client-driven installation
## 435                 Switchable well-modulated infrastructure
## 436                         Upgradable asymmetric emulation
## 437                        Configurable tertiary capability
## 438                       Monitored dynamic instruction set
## 439                             Robust web-enabled attitude
```

```
## 440                 Customer-focused full-range neural-net
## 441          Universal transitional Graphical User Interface
## 442                    User-centric intangible contingency
## 443                 Configurable disintermediate throughput
## 444                         Automated web-enabled migration
## 445                 Triple-buffered 3rdgeneration migration
## 446              Universal contextually-based system engine
## 447                               Optional secondary access
## 448                    Quality-focused scalable utilization
## 449                          Team-oriented dynamic forecast
## 450                            Horizontal heuristic support
## 451         Customer-focused zero-defect process improvement
## 452                               Focused systemic benchmark
## 453                      Seamless impactful info-mediaries
## 454                            Advanced heuristic firmware
## 455        Fully-configurable client-driven customer loyalty
## 456                            Cross-group neutral synergy
## 457                              Organized 24/7 middleware
## 458                      Networked stable open architecture
## 459                    Customizable systematic service-desk
## 460                 Function-based directional productivity
## 461                                  Networked stable array
## 462                               Phased full-range hardware
## 463                            Organized empowering policy
## 464              Object-based system-worthy superstructure
## 465                               Profound explicit hardware
## 466                  Self-enabling multimedia system engine
## 467                             Polarized analyzing intranet
## 468      Vision-oriented attitude-oriented Internet solution
## 469                       Digitized disintermediate ability
## 470                            Intuitive explicit firmware
## 471                         Public-key real-time definition
## 472                  Monitored content-based implementation
## 473         Quality-focused zero-defect budgetary management
## 474                       Intuitive fresh-thinking moderator
## 475                       Reverse-engineered 24hour hardware
## 476                     Synchronized zero tolerance product
## 477                            Reactive interactive protocol
## 478                Focused fresh-thinking Graphic Interface
## 479                             Ameliorated exuding solution
## 480                          Integrated maximized service-desk
## 481                           Self-enabling tertiary challenge
## 482                 Decentralized foreground infrastructure
## 483                               Quality-focused hybrid frame
## 484                            Realigned reciprocal framework
## 485                             Distributed maximized ability
## 486                                Polarized bifurcated array
## 487                          Progressive asynchronous adapter
## 488                       Business-focused high-level hardware
## 489                  Fully-configurable holistic throughput
## 490              Ameliorated contextually-based collaboration
## 491                  Progressive uniform budgetary management
## 492                         Synergistic stable infrastructure
## 493                Reverse-engineered content-based intranet
```

```
## 494                    Expanded zero administration attitude
## 495                     Team-oriented 6thgeneration extranet
## 496                       Managed disintermediate capability
## 497                                  Front-line dynamic model
## 498                              Innovative regional structure
## 499                 Function-based incremental standardization
## 500                           Universal asymmetric workforce
## 501                   Business-focused client-driven forecast
## 502                               Realigned global initiative
## 503                     Business-focused maximized complexity
## 504                               Open-source global strategy
## 505                          Stand-alone motivating moratorium
## 506                              Grass-roots multimedia policy
## 507                                 Upgradable local migration
## 508                       Profound bottom-line standardization
## 509                               Managed client-server access
## 510                      Cross-platform directional intranet
## 511                               Horizontal modular success
## 512                     Vision-oriented multi-tasking success
## 513                               Optional multi-state hardware
## 514                        Upgradable heuristic system engine
## 515                        Future-proofed modular utilization
## 516                         Synergistic dynamic orchestration
## 517                              Multi-layered stable encoding
## 518                       Team-oriented zero-defect initiative
## 519                             Polarized 5thgeneration matrix
## 520   Fully-configurable context-sensitive Graphic Interface
## 521                       Progressive intermediate throughput
## 522                             Customizable holistic archive
## 523                          Compatible intermediate concept
## 524                      Assimilated next generation firmware
## 525                        Total zero administration software
## 526                          Re-engineered impactful software
## 527                       Business-focused background synergy
## 528              Future-proofed coherent budgetary management
## 529                             Ergonomic methodical encoding
## 530                        Compatible dedicated productivity
## 531                           Up-sized real-time methodology
## 532                     Up-sized next generation architecture
## 533                           Managed 6thgeneration hierarchy
## 534                                  Organic motivating model
## 535                        Pre-emptive transitional protocol
## 536               Managed attitude-oriented Internet solution
## 537                             Public-key asynchronous matrix
## 538                          Grass-roots systematic hardware
## 539                        User-centric composite contingency
## 540                     Up-sized bi-directional infrastructure
## 541                               Assimilated actuating policy
## 542                     Organized upward-trending contingency
## 543                                  Ergonomic neutral portal
## 544                       Adaptive demand-driven knowledgebase
## 545                  Reverse-engineered maximized focus group
## 546                           Switchable analyzing encryption
## 547            Public-key intangible Graphical User Interface
```

```
## 548                              Advanced local task-force
## 549                            Profound well-modulated array
## 550                  Multi-channeled asymmetric installation
## 551                  Multi-layered fresh-thinking neural-net
## 552                           Distributed cohesive migration
## 553                             Programmable uniform website
## 554                              Object-based neutral policy
## 555                               Horizontal global leverage
## 556                     Synchronized grid-enabled moratorium
## 557                               Adaptive uniform capability
## 558                            Total grid-enabled application
## 559                             Optional regional throughput
## 560                      Integrated client-server definition
## 561                           Fundamental methodical support
## 562                         Synergistic reciprocal attitude
## 563                        Managed 5thgeneration time-frame
## 564                    Vision-oriented uniform knowledgebase
## 565                             Multi-tiered stable leverage
## 566                 Down-sized explicit budgetary management
## 567                    Cross-group human-resource time-frame
## 568                      Business-focused holistic benchmark
## 569                         Virtual 5thgeneration neural-net
## 570                       Distributed scalable orchestration
## 571                           Realigned intangible benchmark
## 572                              Virtual impactful algorithm
## 573                 Public-key solution-oriented focus group
## 574                           Phased clear-thinking encoding
## 575                    Grass-roots mission-critical emulation
## 576                          Proactive encompassing paradigm
## 577                       Automated object-oriented firmware
## 578            User-friendly content-based customer loyalty
## 579                              Universal incremental array
## 580                                Reactive national success
## 581                             Automated multi-state toolset
## 582                              Managed didactic flexibility
## 583                     Cross-platform neutral system engine
## 584                                  Focused high-level frame
## 585                             Seamless motivating approach
## 586                              Enhanced systematic adapter
## 587                    Networked regional Local Area Network
## 588                         Total human-resource flexibility
## 589                     Assimilated homogeneous service-desk
## 590                        Ergonomic zero tolerance encoding
## 591                     Cross-platform zero-defect structure
## 592                           Innovative maximized groupware
## 593                        Face-to-face executive encryption
## 594                        Monitored local Internet solution
## 595                             Phased hybrid superstructure
## 596                      User-friendly grid-enabled analyzer
## 597                          Pre-emptive neutral contingency
## 598                       User-friendly impactful time-frame
## 599          Customizable methodical Graphical User Interface
## 600               Cross-platform logistical pricing structure
## 601                                Inverse discrete extranet
```

```
## 602                       Open-source even-keeled database
## 603                            Diverse background ability
## 604               Multi-tiered foreground Graphic Interface
## 605                       Customizable hybrid system engine
## 606                          Horizontal incremental website
## 607                          Front-line systemic capability
## 608                  Fully-configurable foreground solution
## 609                                Digitized radical array
## 610                Team-oriented transitional methodology
## 611           Future-proofed fresh-thinking conglomeration
## 612              Operative multi-tasking Graphic Interface
## 613                               Implemented discrete frame
## 614                           Ameliorated exuding encryption
## 615                        Programmable high-level benchmark
## 616                      Sharable multimedia conglomeration
## 617                  Team-oriented high-level orchestration
## 618                         Grass-roots empowering paradigm
## 619                Robust object-oriented Graphic Interface
## 620                             Switchable secondary ability
## 621                  Open-architected web-enabled benchmark
## 622                           Compatible scalable emulation
## 623                            Seamless optimal contingency
## 624                        Secured secondary superstructure
## 625                                 Automated mobile model
## 626                  Re-engineered non-volatile neural-net
## 627                   Implemented disintermediate attitude
## 628                   Configurable interactive contingency
## 629                           Optimized systemic capability
## 630                  Front-line non-volatile implementation
## 631                                Ergonomic 24/7 solution
## 632           Integrated grid-enabled budgetary management
## 633                           Profit-focused systemic support
## 634                       Right-sized system-worthy project
## 635           Proactive actuating Graphical User Interface
## 636                           Versatile optimizing projection
## 637                     Universal multi-state system engine
## 638                            Secured intermediate approach
## 639                   Operative didactic Local Area Network
## 640                         Phased content-based middleware
## 641          Triple-buffered high-level Internet solution
## 642      Synergized well-modulated Graphical User Interface
## 643                  Implemented bottom-line implementation
## 644                  Monitored context-sensitive initiative
## 645                   Pre-emptive client-server open system
## 646            Seamless bandwidth-monitored knowledge user
## 647                              Ergonomic empowering frame
## 648         Reverse-engineered background Graphic Interface
## 649                         Synergistic non-volatile analyzer
## 650                             Object-based optimal solution
## 651                                Profound dynamic attitude
## 652                           Enhanced system-worthy toolset
## 653                       Reverse-engineered dynamic function
## 654                          Networked responsive application
## 655                           Distributed intangible database
```

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## 656                          Multi-tiered mobile encoding
## 657                Optional contextually-based flexibility
## 658                            Proactive local focus group
## 659                     Customer-focused impactful success
## 660                     Open-source optimizing parallelism
## 661                              Organic logistical adapter
## 662                  Stand-alone eco-centric system engine
## 663                User-centric intermediate knowledge user
## 664                        Programmable didactic capacity
## 665                      Enhanced regional conglomeration
## 666                       Total asynchronous architecture
## 667                     Secured upward-trending benchmark
## 668                      Customizable value-added project
## 669                        Integrated interactive support
## 670                          Reactive impactful challenge
## 671                       Switchable multi-state success
## 672                    Synchronized multi-tasking ability
## 673                Fundamental clear-thinking knowledgebase
## 674                   Multi-layered user-facing parallelism
## 675                            Front-line incremental access
## 676       Open-architected zero administration secured line
## 677                Mandatory disintermediate info-mediaries
## 678        Implemented context-sensitive Local Area Network
## 679                        Digitized interactive initiative
## 680                  Implemented asynchronous application
## 681                         Focused multi-state workforce
## 682                       Proactive secondary monitoring
## 683                  Front-line upward-trending groupware
## 684             Quality-focused 5thgeneration orchestration
## 685                        Multi-layered secondary software
## 686                           Total coherent superstructure
## 687                        Monitored executive architecture
## 688                              Front-line multi-state hub
## 689                 Configurable mission-critical algorithm
## 690                        Face-to-face responsive alliance
## 691                              Reduced holistic help-desk
## 692                       Pre-emptive content-based frame
## 693                        Optional full-range projection
## 694                        Expanded value-added emulation
## 695                       Organic well-modulated database
## 696                       Organic 3rdgeneration encryption
## 697                       Stand-alone empowering benchmark
## 698                          Monitored intermediate circuit
## 699                     Object-based leadingedge complexity
## 700                    Digitized zero-defect implementation
## 701                         Configurable impactful firmware
## 702                       Face-to-face dedicated flexibility
## 703                Fully-configurable 5thgeneration circuit
## 704                         Configurable impactful capacity
## 705                   Distributed leadingedge orchestration
## 706                      Persistent even-keeled application
## 707                  Optimized attitude-oriented initiative
## 708                     Multi-channeled 3rdgeneration model
## 709                    Polarized mission-critical structure
```

```
## 710                       Virtual executive implementation
## 711                  Enhanced intermediate standardization
## 712                       Realigned tangible collaboration
## 713                              Cloned dedicated analyzer
## 714                  Ameliorated well-modulated complexity
## 715               Quality-focused bi-directional throughput
## 716                Versatile solution-oriented secured line
## 717                 Phased leadingedge budgetary management
## 718                     Devolved exuding Local Area Network
## 719                 Front-line bandwidth-monitored capacity
## 720                User-centric solution-oriented emulation
## 721                               Phased hybrid intranet
## 722             Monitored zero administration collaboration
## 723                   Team-oriented systematic installation
## 724                                Inverse national core
## 725                       Secured uniform instruction set
## 726                  Quality-focused zero tolerance matrices
## 727                          Multi-tiered heuristic strategy
## 728                                 Optimized static archive
## 729                        Advanced didactic conglomeration
## 730                        Synergistic discrete middleware
## 731                   Pre-emptive client-server installation
## 732                Multi-channeled attitude-oriented toolset
## 733                          Decentralized 24hour approach
## 734                         Organic next generation matrix
## 735                   Multi-channeled non-volatile website
## 736                        Distributed bifurcated challenge
## 737              Customizable zero-defect Internet solution
## 738            Self-enabling zero administration neural-net
## 739                  Optimized upward-trending productivity
## 740                  Open-architected system-worthy ability
## 741                      Quality-focused maximized extranet
## 742                   Centralized client-driven workforce
## 743                  De-engineered intangible flexibility
## 744                     Re-engineered intangible software
## 745              Sharable secondary Graphical User Interface
## 746                      Innovative homogeneous alliance
## 747                          Diverse leadingedge website
## 748                      Optimized intermediate help-desk
## 749                           Sharable reciprocal project
## 750                    Proactive interactive service-desk
## 751          Open-architected needs-based customer loyalty
## 752                      Multi-lateral motivating circuit
## 753                       Assimilated encompassing portal
## 754                      Cross-group global orchestration
## 755                   Down-sized bandwidth-monitored core
## 756                          Monitored explicit hierarchy
## 757                       Reactive demand-driven strategy
## 758                          Universal empowering adapter
## 759                Team-oriented bi-directional secured line
## 760                        Stand-alone radical throughput
## 761                        Inverse zero-defect capability
## 762                   Multi-tiered real-time implementation
## 763                           Front-line zero-defect array
```

```
## 764                     Mandatory 4thgeneration structure
## 765                Synergistic asynchronous superstructure
## 766                 Vision-oriented system-worthy forecast
## 767                         Digitized radical architecture
## 768                 Quality-focused optimizing parallelism
## 769                            Exclusive discrete firmware
## 770                Right-sized solution-oriented benchmark
## 771                          Assimilated stable encryption
## 772                      Configurable dynamic secured line
## 773                                 Cloned optimal leverage
## 774            Decentralized client-driven data-warehouse
## 775                  Multi-tiered interactive neural-net
## 776                          Enhanced methodical database
## 777                     Ameliorated leadingedge help-desk
## 778            De-engineered attitude-oriented projection
## 779              Persevering 5thgeneration knowledge user
## 780                       Extended grid-enabled hierarchy
## 781                         Reactive tangible contingency
## 782             Decentralized attitude-oriented interface
## 783                          Mandatory coherent groupware
## 784                   Fully-configurable eco-centric frame
## 785                Advanced disintermediate data-warehouse
## 786            Quality-focused zero-defect data-warehouse
## 787                 Cross-group non-volatile secured line
## 788                          Expanded modular application
## 789             Triple-buffered systematic info-mediaries
## 790                        Networked non-volatile synergy
## 791           Fully-configurable clear-thinking throughput
## 792                  Front-line actuating functionalities
## 793                          Compatible composite project
## 794           Customer-focused solution-oriented software
## 795                               Inverse stable synergy
## 796                  Pre-emptive well-modulated moderator
## 797                       Intuitive modular system engine
## 798                     Centralized value-added hierarchy
## 799                         Assimilated hybrid initiative
## 800                  Optimized coherent Internet solution
## 801                   Versatile 6thgeneration parallelism
## 802                   Configurable impactful productivity
## 803                         Operative full-range forecast
## 804                   Operative secondary functionalities
## 805                Business-focused transitional solution
## 806       Ameliorated intermediate Graphical User Interface
## 807                               Managed 24hour analyzer
## 808                    Horizontal client-server database
## 809                         Implemented didactic support
## 810                           Digitized homogeneous core
## 811                          Robust holistic application
## 812                         Synergized uniform hierarchy
## 813                 Pre-emptive client-driven secured line
## 814                         Front-line even-keeled website
## 815                Persistent fault-tolerant service-desk
## 816                          Integrated leadingedge frame
## 817                Ameliorated coherent open architecture
```

```
## 818                  Vision-oriented bifurcated contingency
## 819                               Up-sized maximized model
## 820                            Organized global flexibility
## 821              Re-engineered zero-defect open architecture
## 822                            Balanced executive definition
## 823                      Networked logistical info-mediaries
## 824                             Optimized multimedia website
## 825                                 Focused coherent success
## 826                     Robust context-sensitive neural-net
## 827                   Intuitive zero administration adapter
## 828                          Synchronized full-range portal
## 829                         Integrated encompassing support
## 830                         Devolved human-resource circuit
## 831                    Grass-roots transitional flexibility
## 832                      Vision-oriented methodical support
## 833                          Integrated impactful groupware
## 834                       Face-to-face methodical intranet
## 835                       Fundamental tangible moratorium
## 836                     Balanced mobile Local Area Network
## 837                                   Realigned 24/7 core
## 838                  Fully-configurable high-level groupware
## 839                           Ameliorated discrete extranet
## 840                         Centralized asynchronous portal
## 841                           Enhanced tertiary utilization
## 842                  Balanced disintermediate conglomeration
## 843                           Sharable value-added solution
## 844                           Networked impactful framework
## 845                         Public-key impactful neural-net
## 846                           Innovative interactive portal
## 847                      Networked asymmetric infrastructure
## 848                           Assimilated discrete strategy
## 849                       Phased 5thgeneration open system
## 850                      Upgradable logistical flexibility
## 851                    Centralized user-facing service-desk
## 852                            Extended analyzing emulation
## 853                       Front-line methodical utilization
## 854                           Open-source scalable protocol
## 855                            Networked local secured line
## 856                   Programmable empowering orchestration
## 857                             Enhanced systemic benchmark
## 858             Focused web-enabled Graphical User Interface
## 859                           Automated stable help-desk
## 860                            Managed national hardware
## 861                      Re-engineered composite moratorium
## 862                        Phased fault-tolerant definition
## 863             Pre-emptive next generation Internet solution
## 864                    Reverse-engineered web-enabled support
## 865                        Horizontal intermediate monitoring
## 866            Intuitive transitional artificial intelligence
## 867       Business-focused asynchronous budgetary management
## 868                      Decentralized methodical capability
## 869                        Synergized intangible open system
## 870                      Stand-alone logistical service-desk
## 871                              Expanded full-range synergy
```

```
## 872                    Open-architected intangible strategy
## 873                            Diverse directional hardware
## 874                              Balanced discrete approach
## 875                            Total bi-directional success
## 876                  Object-based motivating instruction set
## 877                       Realigned intermediate application
## 878                           Sharable encompassing database
## 879                              Progressive 24/7 definition
## 880                     Pre-emptive next generation strategy
## 881                       Open-source 5thgeneration leverage
## 882                        Open-source holistic productivity
## 883                      Multi-channeled scalable moratorium
## 884                           Optional tangible productivity
## 885                              Up-sized intangible circuit
## 886                  Virtual homogeneous budgetary management
## 887                                Phased zero-defect portal
## 888                              Optional modular throughput
## 889                 Triple-buffered human-resource complexity
## 890                     Innovative cohesive pricing structure
## 891                        Function-based executive moderator
## 892                           Digitized content-based circuit
## 893                                Balanced uniform algorithm
## 894                    Triple-buffered foreground encryption
## 895                     Front-line system-worthy flexibility
## 896              Centralized clear-thinking Graphic Interface
## 897                       Optimized 5thgeneration moratorium
## 898                  Fully-configurable asynchronous firmware
## 899                            Exclusive systematic algorithm
## 900                              Exclusive cohesive intranet
## 901           Vision-oriented asynchronous Internet solution
## 902                            Sharable 5thgeneration access
## 903            Monitored homogeneous artificial intelligence
## 904                                Monitored 24/7 moratorium
## 905                      Vision-oriented real-time framework
## 906                           Future-proofed stable function
## 907            Secured encompassing Graphical User Interface
## 908                        Right-sized logistical middleware
## 909                             Team-oriented executive core
## 910                  Vision-oriented next generation solution
## 911                              Enhanced optimizing website
## 912                        Reduced background data-warehouse
## 913                            Right-sized mobile initiative
## 914                        Synergized grid-enabled framework
## 915                              Open-source stable paradigm
## 916           Reverse-engineered context-sensitive emulation
## 917                      Public-key disintermediate emulation
## 918                           Up-sized bifurcated capability
## 919                        Stand-alone background open system
## 920                        Stand-alone explicit orchestration
## 921                     Configurable asynchronous application
## 922                           Upgradable 4thgeneration portal
## 923                         Networked client-server solution
## 924       Public-key bi-directional Graphical User Interface
## 925                  Re-contextualized human-resource success
```

```
## 926                  Front-line fresh-thinking installation
## 927                              Balanced empowering success
## 928                                 Robust uniform framework
## 929                        Sharable upward-trending support
## 930                        Assimilated multi-state paradigm
## 931                            Self-enabling local strategy
## 932                              Open-source local approach
## 933                           Polarized intangible encoding
## 934                 Multi-lateral attitude-oriented adapter
## 935                    Multi-lateral 24/7 Internet solution
## 936                         Profit-focused secondary portal
## 937                      Reactive upward-trending migration
## 938           Customer-focused fault-tolerant implementation
## 939                    Customizable homogeneous contingency
## 940              Versatile next generation pricing structure
## 941                    Cross-group systemic customer loyalty
## 942                Face-to-face modular budgetary management
## 943                         Proactive non-volatile encryption
## 944                     Decentralized bottom-line help-desk
## 945                   Visionary mission-critical application
## 946                   User-centric attitude-oriented adapter
## 947                            User-centric discrete success
## 948                          Total even-keeled architecture
## 949                        Focused multimedia implementation
## 950                      Stand-alone well-modulated product
## 951              Ameliorated bandwidth-monitored contingency
## 952                       Streamlined homogeneous analyzer
## 953                                 Total coherent archive
## 954                            Front-line neutral alliance
## 955                        Virtual context-sensitive support
## 956                             Re-engineered optimal policy
## 957                              Implemented uniform synergy
## 958                        Horizontal even-keeled challenge
## 959                           Innovative regional groupware
## 960                   Exclusive multi-state Internet solution
## 961                          Mandatory empowering focus group
## 962                           Proactive 5thgeneration frame
## 963                 Automated full-range Internet solution
## 964               Fully-configurable systemic productivity
## 965                   Multi-lateral multi-state encryption
## 966                                Intuitive global website
## 967              Exclusive disintermediate Internet solution
## 968                     Ameliorated actuating workforce
## 969                   Synergized clear-thinking protocol
## 970                Triple-buffered multi-state complexity
## 971                           Enhanced intangible portal
## 972                        Down-sized background groupware
## 973                           Switchable real-time product
## 974                            Ameliorated local workforce
## 975                           Streamlined exuding adapter
## 976                Business-focused user-facing benchmark
## 977                Reactive bi-directional standardization
## 978                              Virtual bifurcated portal
## 979                     Integrated 3rdgeneration monitoring
```

```
## 980                          Balanced responsive open system
## 981                   Focused incremental Graphic Interface
## 982                                  Secured 24hour policy
## 983                             Up-sized asymmetric firmware
## 984                 Distributed fault-tolerant service-desk
## 985                  Vision-oriented human-resource synergy
## 986                     Customer-focused explicit challenge
## 987                   Synchronized human-resource moderator
## 988                  Open-architected full-range projection
## 989                                Versatile local forecast
## 990                      Ameliorated user-facing help-desk
## 991                         Enterprise-wide tangible model
## 992                 Versatile mission-critical application
## 993                           Extended leadingedge solution
## 994                          Phased zero tolerance extranet
## 995                           Front-line bifurcated ability
## 996                           Fundamental modular algorithm
## 997                         Grass-roots cohesive monitoring
## 998                            Expanded intangible solution
## 999                   Proactive bandwidth-monitored policy
## 1000                       Virtual 5thgeneration emulation
##                         City Male
## 1                 Wrightburgh    0
## 2                   West Jodi    1
## 3                    Davidton    0
## 4              West Terrifurt    1
## 5                South Manuel    0
## 6                   Jamieberg    1
## 7                Brandonstad    0
## 8            Port Jefferybury    1
## 9                  West Colin    1
## 10                 Ramirezton    1
## 11            West Brandonton    0
## 12          East Theresashire    1
## 13             West Katiefurt    1
## 14                 North Tara    0
## 15               West William    0
## 16             New Travistown    1
## 17             West Dylanberg    0
## 18                Pruittmouth    0
## 19                Jessicastad    1
## 20                 Millertown    1
## 21            Port Jacqueline    1
## 22                Lake Nicole    1
## 23                 South John    0
## 24                Pamelamouth    1
## 25              Harperborough    0
## 26          Port Danielleberg    1
## 27            West Jeremyside    1
## 28            South Cathyfurt    0
## 29                 Palmerside    0
## 30              West Guybury    0
## 31             Phelpschester    1
## 32          Lake Melindamouth    1
```

```
## 33        North Richardburgh    1
## 34                Port Cassie    0
## 35                New Thomas    1
## 36                   Johnstad    0
## 37            West Aprilport    1
## 38                 Kellytown    0
## 39               Charlesport    1
## 40             Millerchester    0
## 41            Mackenziemouth    0
## 42               Zacharystad    0
## 43              North Joshua    1
## 44                 Bowenview    0
## 45                 Jamesberg    0
## 46        Lake Cassandraport    1
## 47                New Sharon    1
## 48                   Johnport    0
## 49              Hamiltonfort    1
## 50          West Christopher    0
## 51               Hollandberg    1
## 52                 Odomville    0
## 53        East Samanthashire    1
## 54            South Lauraton    1
## 55               Amandahaven    0
## 56                Thomasview    0
## 57                Garciaside    0
## 58           Port Sarahshire    0
## 59              Port Gregory    0
## 60             Brendachester    0
## 61                   Lake Amy    0
## 62            Lake Annashire    1
## 63                Smithburgh    0
## 64           North Leonmouth    1
## 65                Robertfurt    0
## 66               Jasminefort    1
## 67             Jensenborough    0
## 68              Bradleyburgh    0
## 69                New Sheila    1
## 70              North Regina    0
## 71                Davidmouth    0
## 72           New Michaeltown    0
## 73                East Tammie    1
## 74                Wilcoxport    1
## 75         East Michaelmouth    1
## 76          East Tiffanyport    0
## 77              Ramirezhaven    1
## 78                Cranemouth    1
## 79               Lake Edward    1
## 80           Lake Conniefurt    0
## 81         East Shawnchester    1
## 82                West Joseph    1
## 83      Lake Christopherfurt    0
## 84           East Tylershire    0
## 85                 Sharpberg    0
## 86               Lake Dustin    0
```

```
## 87            North Kristine    0
## 88                Grahamberg    1
## 89                  New Tina    0
## 90                Nelsonfurt    1
## 91           Christopherport    0
## 92           Port Sarahhaven    0
## 93            Bradleyborough    1
## 94                 Whiteport    1
## 95               New Theresa    1
## 96                  Wongland    0
## 97              Williammouth    1
## 98           Williamsborough    0
## 99             North Michael    0
## 100          Benjaminchester    1
## 101           Hernandezville    0
## 102               Youngburgh    1
## 103           Wallacechester    0
## 104             Sanchezmouth    1
## 105          Bradshawborough    0
## 106                 Amyhaven    1
## 107              Marcushaven    1
## 108                  Erinton    0
## 109               Hughesport    0
## 110                 Johnstad    0
## 111           New Lucasburgh    0
## 112             Michelleside    1
## 113              Andersonton    0
## 114                New Rachel    1
## 115                Port Susan    1
## 116          West Angelabury    1
## 117  Port Christopherborough    0
## 118              Phillipsbury    1
## 119                Millerside    0
## 120              Lake Jessica    0
## 121                Lopezmouth    1
## 122                 Johnsport    0
## 123              South Ronald    0
## 124              South Daniel    0
## 125               Suzannetown    0
## 126                  Lisaberg    0
## 127                 Brianfurt    0
## 128               Stewartbury    0
## 129          Benjaminchester    0
## 130      North Wesleychester    0
## 131        East Michelleberg    0
## 132                 Port Eric    0
## 133              Timothyfurt    0
## 134              Port Jeffrey    0
## 135                Guzmanland    0
## 136              East Michele    1
## 137                 East John    0
## 138              Lesliebury    1
## 139            Patriciahaven    1
## 140            Ashleychester    1
```

```
## 141            Lake Josetown    0
## 142               Debraburgh    1
## 143           New Debbiestad    1
## 144               West Shaun    1
## 145            Kimberlyhaven    0
## 146            Port Lawrence    1
## 147             West Ricardo    1
## 148                Lake Jose    1
## 149              Heatherberg    0
## 150             South George    0
## 151              Tinachester    1
## 152                Port Jodi    0
## 153             Jonathantown    1
## 154               Sylviaview    0
## 155         East Timothyport    1
## 156             West Roytown    1
## 157                Codyburgh    0
## 158           Port Erikhaven    1
## 159          Port Chasemouth    1
## 160             Ramirezside    0
## 161         East Michaeltown    1
## 162            West Courtney    1
## 163        West Michaelhaven    0
## 164               Walshhaven    0
## 165          East Rachelview    0
## 166               Curtisport    0
## 167                Frankbury    0
## 168              Timothytown    1
## 169            Samanthaland    1
## 170            South Jennifer    0
## 171              Kyleborough    1
## 172              North Randy    1
## 173       South Daniellefort    0
## 174              Dianashire    0
## 175                East Eric    0
## 176              Hammondport    0
## 177                Jacobstad    0
## 178            Hernandezfort    0
## 179                 Joneston    1
## 180       New Jeffreychester    0
## 181              East Stephen    0
## 182            Turnerchester    0
## 183                Youngfort    0
## 184              Ingramberg    1
## 185         South Denisefurt    0
## 186         Port Melissaberg    0
## 187               Bernardton    1
## 188              Port Mathew    1
## 189              Aliciatown    0
## 190              Josephstad    0
## 191            West Ericfurt    0
## 192           New Brendafurt    0
## 193               Port Julie    1
## 194         South Tiffanyton    1
```

```
## 195          North Elizabeth    1
## 196                Kentmouth    0
## 197              West Casey     1
## 198              East Henry     1
## 199               Hollyfurt     1
## 200              North Anna     0
## 201            Port Destiny     0
## 202                Ianmouth     1
## 203          North Johntown     1
## 204              Hannahside     1
## 205            Wilsonburgh      0
## 206     North Russellborough    0
## 207             Murphymouth     0
## 208            Carterburgh      1
## 209                Penatown     0
## 210              Joechester     1
## 211               East Paul     1
## 212          Hartmanchester     0
## 213            Mcdonaldfort     1
## 214          North Mercedes     1
## 215              Taylorberg     0
## 216             Hansenmouth     0
## 217               Bradyfurt     1
## 218        West Jessicahaven    0
## 219            Davilachester    0
## 220        North Ricardotown    0
## 221              Melissafurt    0
## 222           East Brianberg    0
## 223              Millerbury     0
## 224              Garciaview     0
## 225            Townsendfurt     0
## 226             Williamstad     0
## 227             West Connor     0
## 228             West Justin     0
## 229              Robertbury     0
## 230            New Tinamouth    0
## 231               Turnerview    1
## 232             Reneechester     1
## 233          West Tinashire     0
## 234               Jamesfurt     0
## 235               New Nancy     1
## 236               Lisamouth     1
## 237              Harveyport     0
## 238               Ramosstad     0
## 239          North Kevinside    0
## 240                Haleview     1
## 241            Christinetown    0
## 242              New Michael    1
## 243                Jonesland    1
## 244            North Shannon    0
## 245            New Sonialand    1
## 246               Port Jason    1
## 247             East Barbara    1
## 248            Port Erinberg    1
```

```
## 249            Petersonfurt    0
## 250          New Lindaberg    0
## 251           West Russell    0
## 252             South Adam    1
## 253         North Tracyport    1
## 254              Brownport    1
## 255           Port Crystal    0
## 256             Masonhaven    0
## 257           Derrickhaven    0
## 258              Olsonstad    1
## 259             New Brandy    0
## 260       South Jasminebury    0
## 261            East Timothy    0
## 262          Charlottefort    0
## 263         Lake Beckyburgh    1
## 264        West Lindseybury    0
## 265            West Alyssa    0
## 266          Lake Craigview    1
## 267              Lake David    0
## 268              Bruceburgh    0
## 269         South Lauratown    1
## 270              Port Robin    0
## 271           Jacksonburgh    1
## 272              Erinmouth    1
## 273         Port Aliciabury    0
## 274       Port Whitneyhaven    0
## 275            Jeffreyshire    0
## 276                 Tinaton    0
## 277         North Loriburgh    0
## 278                Wendyton    1
## 279         Lake Jacqueline    1
## 280       North Christopher    1
## 281           Alexanderfurt    0
## 282             West Pamela    0
## 283             West Amanda    0
## 284           South Tomside    0
## 285                Bethburgh    1
## 286              Jamiefort    1
## 287            Garciamouth    0
## 288             West Brenda    0
## 289              South Kyle    0
## 290              Combsstad    0
## 291         Lake Allenville    0
## 292           Greenechester    0
## 293              Jordantown    1
## 294              Gravesport    0
## 295              South Troy    1
## 296            Lake Patrick    1
## 297              Millerland    0
## 298       Port Jessicamouth    0
## 299                Paulport    0
## 300              Clineshire    1
## 301            Cynthiaside    0
## 302              Port Juan    0
```

```
## 303            Michellefort    0
## 304       Port Angelamouth    1
## 305           Jessicahaven    0
## 306           North Daniel    1
## 307               New Juan    0
## 308                Amyfurt    0
## 309            Harrishaven    0
## 310             Roberttown    0
## 311            Jeremyshire    1
## 312              Birdshire    0
## 313            New Amanda    0
## 314            Curtisview    1
## 315           Jacksonmouth    0
## 316            North April    0
## 317            Hayesmouth    0
## 318            South Corey    1
## 319              Juliaport    0
## 320          Port Paultown    0
## 321       East Vincentstad    0
## 322           Kimberlytown    0
## 323              New Steve    1
## 324           New Johnberg    0
## 325               Shawstad    0
## 326            New Rebecca    0
## 327           Jeffreyburgh    1
## 328              Faithview    0
## 329         Richardsontown    0
## 330       Port Brookeland    0
## 331    East Christopherbury    0
## 332     Port Christinemouth    0
## 333            South Meghan    1
## 334               Hessstad    1
## 335          Rhondaborough    1
## 336             Lewismouth    1
## 337               New Paul    0
## 338            Lake Angela    1
## 339         East Graceland    1
## 340               Hartport    0
## 341      East Yvonnechester    0
## 342             Burgessside    0
## 343          Hurleyborough    0
## 344            Garychester    1
## 345         East Kevinbury    1
## 346         Contrerasshire    1
## 347              Erikville    0
## 348         Robertsonburgh    1
## 349               Karenton    0
## 350       Port Kathleenfort    0
## 351             Lake Adrian    0
## 352              New Sheila    1
## 353              Mollyport    0
## 354             Sandraland    1
## 355           Charlenetown    0
## 356            Luischester    1
```

```
## 357        South Johnnymouth    0
## 358                Hannaport    0
## 359             East Anthony    0
## 360         West Daleborough    0
## 361              Morrismouth    1
## 362         North Andrewstad    1
## 363              Wrightburgh    1
## 364               West Tanya    1
## 365                Novaktown    1
## 366             Timothymouth    1
## 367                Robertmouth    1
## 368            Stephenborough    0
## 369            Lake Kurtmouth    0
## 370                Lauraburgh    1
## 371                Rogerburgh    0
## 372                Davidside    1
## 373               West Thomas    0
## 374          Andersonchester    0
## 375        North Ronaldshire    1
## 376                Greghaven    1
## 377              Jordanmouth    1
## 378               Meyersstad    0
## 379             Michelleside    0
## 380             South Robert    1
## 381                New Tyler    0
## 382              Jordanshire    1
## 383                Reyesland    0
## 384            New Traceystad    1
## 385                Port Brian    0
## 386             Lake Courtney    0
## 387             Samuelborough    1
## 388            Christinehaven    1
## 389                Thomasstad    1
## 390               Kristintown    0
## 391                New Wanda    1
## 392                Mariebury    0
## 393         Christopherville    1
## 394              New Jasmine    0
## 395                Lopezberg    1
## 396             Jenniferstad    1
## 397         West Eduardotown    1
## 398                Davisfurt    0
## 399               Bakerhaven    1
## 400                Paulshire    1
## 401                West Jane    1
## 402               Lake Brian    0
## 403             Alvaradoport    0
## 404                Lake Kevin    0
## 405            Richardsonland    1
## 406          East Sheriville    0
## 407        Port Michealburgh    1
## 408                Monicaview    0
## 409                Katieport    0
## 410       East Brittanyville    0
```

```
## 411         West Travismouth    0
## 412              Leonchester    0
## 413              Ramirezland    1
## 414                 Brownton    0
## 415          New Jessicaport    1
## 416           New Denisebury    1
## 417                Keithtown    0
## 418         Port Melissastad    1
## 419               Janiceview    1
## 420                 Mataberg    1
## 421         West Melaniefurt    1
## 422               Millerfort    1
## 423            Alexanderview    1
## 424                South Jade    0
## 425                Lake Susan    1
## 426     South Vincentchester    1
## 427            Williamsmouth    1
## 428               Taylorport    0
## 429             Williamsport    0
## 430                Emilyfurt    1
## 431                East John    1
## 432        East Deborahhaven    1
## 433         Port Katelynview    0
## 434                Paulhaven    1
## 435           Elizabethmouth    1
## 436               Lake Jesus    0
## 437          North Tylerland    1
## 438                Munozberg    0
## 439           North Maryland    1
## 440             West Barbara    0
## 441            Andrewborough    0
## 442              New Gabriel    0
## 443          Port Patrickton    1
## 444               West Julia    1
## 445           New Keithburgh    0
## 446             Richardsland    1
## 447       North Aaronchester    1
## 448         Lake Matthewland    0
## 449                Kevinberg    0
## 450               Morganfort    1
## 451                Lovemouth    0
## 452              Taylorhaven    0
## 453                Jamesville    0
## 454            East Toddfort    1
## 455                East Dana    1
## 456               West Lucas    0
## 457               Butlerfort    0
## 458                Lindaside    1
## 459        West Chloeborough    1
## 460                 Jayville    1
## 461             East Lindsey    1
## 462             Masseyshire    0
## 463                Sarahton    1
## 464               Ryanhaven    1
```

```
## 465        Lake Deborahburgh    1
## 466         New Williammouth    1
## 467               Port Blake    0
## 468             West Richard    1
## 469              Brandymouth    0
## 470              Sandraville    1
## 471             Port Jessica    0
## 472       Lake Jasonchester    0
## 473              Pearsonfort    0
## 474              Sellerstown    0
## 475                    Yuton    0
## 476                Smithtown    1
## 477                Joanntown    1
## 478              South Peter    1
## 479            Port Mitchell    1
## 480              Pottermouth    1
## 481       Lake Jonathanview    1
## 482                 Alanview    1
## 483               Carterport    0
## 484         New Daniellefort    1
## 485               Welchshire    0
## 486             Russellville    1
## 487                West Lisa    1
## 488                Greentown    0
## 489              Timothyport    0
## 490              Teresahaven    1
## 491     Lake Stephenborough    0
## 492                 Silvaton    0
## 493        West Michaelstad    1
## 494               Florestown    0
## 495                  New Jay    1
## 496       North Lisachester    0
## 497               Port Stacy    1
## 498                Jensenton    0
## 499          North Alexandra    0
## 500                Rivasland    0
## 501             Helenborough    0
## 502                Garnerberg    0
## 503            North Anaport    0
## 504              Pattymouth    0
## 505     South Alexisborough    0
## 506            East Jennifer    1
## 507                 Hallfort    0
## 508       New Charleschester    0
## 509         East Breannafurt    0
## 510           East Susanland    1
## 511                Estesfurt    0
## 512              Shirleyfort    1
## 513              Douglasview    1
## 514               South Lisa    1
## 515                Kingshire    0
## 516             Rebeccamouth    1
## 517                Brownbury    1
## 518              South Aaron    0
```

```
## 519            North Andrew    1
## 520            South Walter    1
## 521           Catherinefort    0
## 522              East Donna    1
## 523            East Timothy    1
## 524          North Kimberly    0
## 525      South Stephanieport    1
## 526      North Isabellaville    0
## 527         North Aaronburgh    0
## 528              Port James    1
## 529              Danielview    0
## 530             Port Stacey    1
## 531          West Kevinfurt    1
## 532           Lake Jennifer    1
## 533               Reyesfurt    0
## 534         West Carmenfurt    1
## 535      North Stephanieberg    0
## 536            East Valerie    1
## 537             Sherrishire    0
## 538             Port Daniel    0
## 539               Brownview    0
## 540                Greerton    1
## 541           Hatfieldshire    1
## 542              Brianabury    1
## 543               New Maria    0
## 544                Colebury    1
## 545               Calebberg    0
## 546                Lake Ian    0
## 547               Gomezport    0
## 548               Shaneland    0
## 549              East Aaron    0
## 550           Dustinborough    1
## 551        East Michaelland    0
## 552              East Connie    1
## 553           West Shannon    0
## 554         North Lauraland    1
## 555        Port Christopher    1
## 556       South Patrickfort    0
## 557         East Georgeside    1
## 558              Charlesbury    0
## 559               Millertown    1
## 560              South Renee    1
## 561        South Jackieberg    0
## 562               Loriville    1
## 563              Amandaland    1
## 564         West Robertside    0
## 565         North Sarashire    0
## 566              Port Maria    1
## 567          East Jessefort    0
## 568            Port Anthony    0
## 569             Edwardmouth    1
## 570          Dustinchester    1
## 571               Rochabury    0
## 572           Williamsport    1
```

```
## 573              Austinland    0
## 574             Lake Gerald    1
## 575              Wrightview    0
## 576              Perryburgh    0
## 577              Tracyhaven    1
## 578         South Jaimeview    0
## 579             Sandersland    1
## 580     South Meredithmouth    0
## 581         Richardsonshire    0
## 582           Kimberlymouth    0
## 583           Meghanchester    0
## 584              Tammyshire    0
## 585              Millerbury    1
## 586      Lake Elizabethside    1
## 587           Villanuevaton    0
## 588               Greerport    0
## 589         North Garyhaven    0
## 590              East Sharon    0
## 591           Johnstonmouth    0
## 592        East Heatherside    0
## 593             Lake Patrick    1
## 594         Richardsonmouth    0
## 595           Jenniferhaven    1
## 596               Boyerberg    1
## 597             Port Elijah    1
## 598              Knappburgh    1
## 599             New Dawnland    0
## 600             Chapmanmouth    0
## 601              Robertside    1
## 602       West Raymondmouth    1
## 603              Costaburgh    1
## 604            Kristineberg    1
## 605             Sandrashire    1
## 606            Andersonfurt    1
## 607                Tranland    0
## 608            Michaelland    1
## 609        East Rachaelfurt    1
## 610           Lake Johnbury    1
## 611           Elizabethstad    0
## 612               West Brad    1
## 613           Johnstonshire    1
## 614            Lake Timothy    1
## 615            Anthonyfurt    0
## 616           East Brettton    0
## 617            New Matthew    1
## 618      Christopherchester    0
## 619               Westshire    0
## 620              Alexisland    0
## 621            Kevinchester    1
## 622       New Patriciashire    1
## 623             Port Brenda    1
## 624          Port Brianfort    1
## 625             Portermouth    1
## 626            Hubbardmouth    1
```

```
## 627             South Brian    1
## 628           Hendrixmouth    1
## 629              Julietown    0
## 630               Lukeport    1
## 631              New Shane    1
## 632          Lake Jillville    1
## 633             Johnsonfort    0
## 634              Adamsbury    0
## 635           East Maureen    1
## 636       North Angelastad    0
## 637             Amandafort    0
## 638           Michaelmouth    1
## 639             Ronaldport    0
## 640          Port Davidland    0
## 641            Isaacborough    1
## 642            Lake Michael    0
## 643       West Michaelshire    0
## 644         Port Calvintown    0
## 645             Parkerhaven    0
## 646              Markhaven    1
## 647           Estradashire    0
## 648              Brianland    1
## 649           Cassandratown    0
## 650          West Dannyberg    0
## 651       East Debraborough    0
## 652            Frankchester    1
## 653                Lisafort    1
## 654           Colemanshire    0
## 655              Troyville    1
## 656              Hobbsbury    0
## 657          Harrisonmouth    1
## 658        Port Eugeneport    1
## 659             Karenmouth    0
## 660           Brendaburgh    1
## 661       New Christinatown    0
## 662             Jacksonstad    1
## 663          South Margaret    1
## 664        Port Georgebury    0
## 665        New Jessicaport    0
## 666            Sanderstown    1
## 667              Perezland    1
## 668               Luisfurt    0
## 669          New Karenberg    1
## 670           West Leahton    0
## 671           West Sharon    0
## 672              Klineside    1
## 673           Lake Cynthia    0
## 674      South Cynthiashire    1
## 675             Lake Jacob    0
## 676          West Samantha    1
## 677             Jeremybury    1
## 678           Blevinstown    1
## 679          Meyerchester    0
## 680            Reginamouth    0
```

```
## 681              Donaldshire    1
## 682              Salazarbury    1
## 683          Lake Joshuafurt    1
## 684              Wintersfort    0
## 685               Jamesmouth    0
## 686               Laurieside    1
## 687              Andrewmouth    1
## 688              West Angela    1
## 689              East Carlos    0
## 690              Kennedyfurt    1
## 691               Blairville    0
## 692           East Donnatown    1
## 693              Matthewtown    1
## 694              Brandonbury    0
## 695            New Jamestown    1
## 696              Mosleyburgh    0
## 697                 Leahside    0
## 698           West Wendyland    0
## 699          Lawrenceborough    0
## 700              Kennethview    0
## 701           West Mariafort    1
## 702          Port Sherrystad    0
## 703        West Melissashire    1
## 704              Pamelamouth    0
## 705               Lesliefort    0
## 706                Shawnside    1
## 707              Josephmouth    0
## 708               Garciatown    0
## 709               Chaseshire    1
## 710              Destinyfurt    0
## 711                  Mezaton    0
## 712                New Kayla    1
## 713              Carsonshire    1
## 714          Jacquelineshire    1
## 715          South Blakestad    1
## 716               North Mark    0
## 717              Kingchester    1
## 718                Evansfurt    0
## 719          South Adamhaven    1
## 720          Brittanyborough    0
## 721              Barbershire    0
## 722            East Ericport    1
## 723             Crawfordfurt    1
## 724              Turnerville    0
## 725                Kylieview    1
## 726      West Zacharyborough    0
## 727               Watsonfort    1
## 728                   Dayton    1
## 729             Nicholasport    1
## 730              Whitneyfort    1
## 731              Coffeytown    1
## 732           North Johnside    1
## 733             Robinsonland    0
## 734               Lake David    1
```

```
## 735           West Ericaport    0
## 736                  Haleberg    0
## 737         West Michaelport    1
## 738            Ericksonmouth    0
## 739                 Yangside    1
## 740              Estradafurt    0
## 741                Frankport    1
## 742                Port Juan    0
## 743             Williamsside    1
## 744              Johnsonview    1
## 745                East Heidi    0
## 746             New Angelview    0
## 747         Lake Brandonview    0
## 748                Morganport    0
## 749                Browntown    0
## 750              Lake Hailey    0
## 751                Olsonside    1
## 752                 Coxhaven    1
## 753                Meaganfort    0
## 754        North Monicaville    0
## 755                Mullenside    0
## 756                Princebury    1
## 757              Bradleyside    0
## 758            Elizabethbury    1
## 759                 West Ryan    0
## 760                 New Tammy    1
## 761              Sanchezland    0
## 762                Rogerland    0
## 763              Vanessaview    1
## 764             Jessicashire    1
## 765           Melissachester    1
## 766              Johnsontown    0
## 767           New Joshuaport    1
## 768            Hernandezside    1
## 769         New Williamville    1
## 770             Gilbertville    1
## 771                Newmanberg    0
## 772                West Alice    1
## 773                Cannonbury    0
## 774                Shelbyport    1
## 775                 New Henry    0
## 776              Dustinmouth    1
## 777                South Lisa    0
## 778                Lisamouth    0
## 779             New Hollyberg    0
## 780       Port Brittanyville    0
## 781                East Ronald    1
## 782         South Davidmouth    1
## 783                Carterton    0
## 784              Rachelhaven    1
## 785              New Timothy    1
## 786       North Jessicaville    1
## 787                 Joneston    1
## 788              Staceyfort    0
```

```
## 789         South Dianeshire    0
## 790             West Shannon    1
## 791              Micheletown    1
## 792      North Brittanyburgh    0
## 793             Port Jasmine    1
## 794              New Sabrina    1
## 795       Lake Charlottestad    0
## 796         West Rhondamouth    1
## 797              North Debra    1
## 798          Villanuevastad    0
## 799         North Jeremyport    1
## 800               Lake Susan    1
## 801                Lake John    1
## 802             Courtneyfort    1
## 803                Tammymouth    0
## 804             Lake Vanessa    0
## 805              Lake Amanda    1
## 806              Mariemouth    1
## 807      Port Douglasborough    0
## 808          Port Aprilville    0
## 809             Williamsport    1
## 810                Lake Faith    0
## 811                Wendyville    1
## 812                Angelhaven    1
## 813                  New Sean    1
## 814                Lake Lisa    0
## 815              Valerieland    0
## 816              New Travis    1
## 817           North Samantha    0
## 818              Holderville    0
## 819             Patrickmouth    0
## 820       Lake Deannaborough    0
## 821             Jeffreymouth    0
## 822              Davieshaven    0
## 823        Lake Jessicaville    1
## 824         Hernandezchester    1
## 825        North Kennethside    0
## 826               Shelbyport    0
## 827              Williamport    1
## 828                Smithside    0
## 829              Vanessastad    0
## 830                Lisamouth    1
## 831         Lake Rhondaburgh    1
## 832          Cunninghamhaven    1
## 833              Robertstown    1
## 834               South Mark    1
## 835          New Taylorburgh    0
## 836           Port Karenfurt    1
## 837              Carterland    0
## 838              East Shawn    1
## 839          West Derekmouth    1
## 840              Brandiland    1
## 841           Cervantesshire    0
## 842         North Debrashire    0
```

```
## 843             Deannaville    0
## 844        East Christopher    1
## 845              Rickymouth    1
## 846             Port Dennis    1
## 847           Lake Michelle    1
## 848           East Johnport    0
## 849             Sabrinaview    1
## 850             Kristinfurt    1
## 851             Chapmanland    1
## 852          North Jonathan    1
## 853          Port Christina    1
## 854                Juanport    1
## 855               East Mike    0
## 856        North Angelatown    0
## 857              West Steven    1
## 858               Riggsstad    1
## 859               Davidview    1
## 860       Port Kevinborough    1
## 861             Lawsonshire    1
## 862          Wagnerchester    0
## 863             Daisymouth    0
## 864            North Daniel    1
## 865     Port Jacquelinestad    1
## 866              New Teresa    1
## 867               Henryfort    1
## 868             Lake Joseph    0
## 869           Daviesborough    1
## 870           North Brandon    0
## 871                Adamside    1
## 872             Wademouth    0
## 873           North Raymond    0
## 874            Randolphport    1
## 875          East Troyhaven    0
## 876            Clarkborough    0
## 877              Josephberg    0
## 878        Lake Jenniferton    1
## 879               Lake Jose    0
## 880            Ashleymouth    0
## 881              Henryland    1
## 882           Lake Danielle    0
## 883            Joshuaburgh    1
## 884        South Jeanneport    0
## 885              New Nathan    1
## 886              Jonesshire    0
## 887              Mariahview    1
## 888          New Julianberg    1
## 889              Randyshire    1
## 890              Philipberg    1
## 891            West Dennis    0
## 892           Richardshire    1
## 893             Lake James    0
## 894          Austinborough    0
## 895          Alexandrafort    1
## 896            Melissastad    1
```

```
## 897            Gonzalezburgh    1
## 898            Port Jennifer    0
## 899               Chrismouth    0
## 900                Port Beth    0
## 901               West David    0
## 902             Fraziershire    0
## 903               Robertfurt    0
## 904             South Pamela    0
## 905         North Laurenview    0
## 906             Campbellstad    1
## 907           Port Derekberg    0
## 908              West Andrew    0
## 909               West Randy    0
## 910        South Christopher    0
## 911        Lake Michellebury    1
## 912                Zacharyton    0
## 913               West James    1
## 914               Millerview    1
## 915              Hawkinsbury    1
## 916            Elizabethport    1
## 917              West Amanda    1
## 918                 Wadestad    1
## 919            Mauriceshire    1
## 920           West Arielstad    1
## 921                Adamsstad    0
## 922              Lake James    1
## 923            Blairborough    1
## 924           New Marcusbury    0
## 925              Evansville    1
## 926           Huffmanchester    0
## 927              New Cynthia    0
## 928              Joshuamouth    0
## 929            West Benjamin    0
## 930             Williamsfort    0
## 931            North Tiffany    0
## 932              Edwardsport    0
## 933            Lake Evantown    0
## 934              South Henry    1
## 935              Harmonhaven    1
## 936           West Gregburgh    0
## 937              Hansenland    0
## 938       Port Michaelmouth    0
## 939                Tylerport    0
## 940               West Lacey    1
## 941     North Jenniferburgh    1
## 942        South Davidhaven    0
## 943       North Charlesbury    1
## 944             Jonathanland    0
## 945           North Virginia    0
## 946              West Tanner    0
## 947              Jonesmouth    1
## 948              Port Jason    1
## 949            West Annefort    1
## 950               East Jason    0
```

```
## 951             North Cassie    0
## 952               Hintonport    1
## 953                New James    1
## 954            North Destiny    0
## 955           Mclaughlinbury    0
## 956      West Gabriellamouth    0
## 957              Alvarezland    0
## 958                New Julie    0
## 959          North Frankstad    1
## 960              Claytonside    1
## 961               Melanieton    0
## 962         Lake Michaelport    0
## 963       East Benjaminville    0
## 964           Garrettborough    1
## 965         Port Raymondfort    0
## 966               Waltertown    0
## 967              Cameronberg    1
## 968               Kaylashire    1
## 969               Fosterside    0
## 970                Davidstad    0
## 971               Lake Tracy    0
## 972              Taylormouth    1
## 973               Dianaville    0
## 974            Collinsburgh    0
## 975               Port Rachel    1
## 976            South Rebecca    1
## 977          Port Joshuafort    1
## 978             Robinsontown    1
## 979                  Beckton    0
## 980           New Frankshire    1
## 981         North Derekville    1
## 982               West Sydney    0
## 983             Lake Matthew    0
## 984         Lake Zacharyfurt    1
## 985             Lindsaymouth    1
## 986                Sarahland    0
## 987               Port Julie    1
## 988             Michaelshire    1
## 989                 Sarafurt    1
## 990             South Denise    0
## 991              North Katie    1
## 992              Mauricefurt    1
## 993              New Patrick    0
## 994             Edwardsmouth    1
## 995             Nicholasland    0
## 996                Duffystad    1
## 997              New Darlene    1
## 998            South Jessica    1
## 999              West Steven    0
## 1000             Ronniemouth    0
##                                          Country           Timestamp
## 1                                        Tunisia 2016-03-27 00:53:11
## 2                                          Nauru 2016-04-04 01:39:02
## 3                                    San Marino 2016-03-13 20:35:42
```

```
## 4                                                 Italy 2016-01-10 02:31:19
## 5                                               Iceland 2016-06-03 03:36:18
## 6                                                Norway 2016-05-19 14:30:17
## 7                                               Myanmar 2016-01-28 20:59:32
## 8                                             Australia 2016-03-07 01:40:15
## 9                                               Grenada 2016-04-18 09:33:42
## 10                                                Ghana 2016-07-11 01:42:51
## 11                                                Qatar 2016-03-16 20:19:01
## 12                                              Burundi 2016-05-08 08:10:10
## 13                                                Egypt 2016-06-03 01:14:41
## 14                                Bosnia and Herzegovina 2016-04-20 21:49:22
## 15                                             Barbados 2016-03-24 09:31:49
## 16                                                Spain 2016-03-09 03:41:30
## 17                              Palestinian Territory 2016-01-30 19:20:41
## 18                                          Afghanistan 2016-05-02 07:00:58
## 19   British Indian Ocean Territory (Chagos Archipelago) 2016-02-13 07:53:55
## 20                                 Russian Federation 2016-02-27 04:43:07
## 21                                           Cameroon 2016-01-05 07:52:48
## 22                                           Cameroon 2016-03-18 13:22:35
## 23                                            Burundi 2016-05-20 08:49:33
## 24                                              Korea 2016-03-23 09:43:43
## 25                                             Tokelau 2016-06-13 17:27:09
## 26                                              Monaco 2016-05-27 15:25:52
## 27                                              Tuvalu 2016-02-08 10:46:14
## 28                                              Greece 2016-07-19 08:32:10
## 29                             British Virgin Islands 2016-04-14 05:08:35
## 30                          Bouvet Island (Bouvetoya) 2016-01-27 12:38:16
## 31                                                Peru 2016-07-02 20:23:15
## 32                                               Aruba 2016-03-01 22:13:37
## 33                                            Maldives 2016-07-15 05:05:14
## 34                                             Senegal 2016-01-14 14:00:09
## 35                                            Dominica 2016-03-15 03:12:25
## 36                                          Luxembourg 2016-04-12 03:26:39
## 37                                          Montenegro 2016-04-07 15:18:10
## 38                                             Ukraine 2016-02-09 05:28:18
## 39                                          Saint Helena 2016-05-07 17:11:49
## 40                                             Liberia 2016-03-11 06:49:10
## 41                                 Russian Federation 2016-04-27 09:27:58
## 42                                             Tunisia 2016-04-16 11:53:43
## 43                                        Turkmenistan 2016-05-08 15:38:46
## 44                                          Saint Helena 2016-02-08 00:23:38
## 45                                               Niger 2016-02-11 13:26:22
## 46                                        Turkmenistan 2016-02-17 13:16:33
## 47                                               Qatar 2016-02-26 22:46:43
## 48                                           Sri Lanka 2016-06-08 18:54:01
## 49                              Trinidad and Tobago 2016-01-08 09:32:26
## 50                                                Italy 2016-04-25 11:01:54
## 51                             British Virgin Islands 2016-04-04 07:07:46
## 52                                     United Kingdom 2016-05-03 21:19:58
## 53                                      Guinea-Bissau 2016-01-17 09:31:36
## 54                                         Micronesia 2016-03-02 04:57:51
## 55                                             Turkey 2016-02-14 07:36:58
## 56                                            Croatia 2016-04-07 03:56:16
## 57                                             Israel 2016-02-17 11:42:00
```

```
## 58                          Svalbard & Jan Mayen Islands 2016-04-10 00:13:47
## 59                                            Azerbaijan 2016-02-14 17:05:15
## 60                                                  Iran 2016-05-26 22:49:47
## 61                                               Burundi 2016-04-30 08:07:13
## 62                     Saint Vincent and the Grenadines 2016-06-15 05:30:13
## 63                                               Burundi 2016-03-09 14:45:33
## 64                                              Bulgaria 2016-03-31 20:55:22
## 65                                     Christmas Island 2016-06-03 00:55:23
## 66                                               Canada 2016-03-10 23:36:03
## 67                                               Rwanda 2016-01-08 00:17:27
## 68                           Turks and Caicos Islands 2016-06-05 22:11:34
## 69                                              Tunisia 2016-01-16 11:35:01
## 70                                       Norfolk Island 2016-04-22 20:10:22
## 71                          Bouvet Island (Bouvetoya) 2016-02-01 09:00:55
## 72                           Turks and Caicos Islands 2016-07-07 13:37:34
## 73                                       Cook Islands 2016-03-08 00:37:54
## 74                                             Turkey 2016-05-10 17:39:06
## 75                                          Guatemala 2016-04-06 11:24:21
## 76                                      Cote d'Ivoire 2016-04-01 16:21:05
## 77                                      Faroe Islands 2016-01-05 04:18:46
## 78                                              Qatar 2016-05-20 21:31:24
## 79                                            Ireland 2016-02-03 07:59:16
## 80                                            Ukraine 2016-02-17 21:55:29
## 81                                            Moldova 2016-01-30 16:10:04
## 82                                          Nicaragua 2016-05-15 14:41:49
## 83                                         Montserrat 2016-01-05 17:56:52
## 84                                        Timor-Leste 2016-04-19 07:34:28
## 85                          Bouvet Island (Bouvetoya) 2016-03-15 15:49:14
## 86                                        Puerto Rico 2016-06-12 15:25:44
## 87                         Central African Republic 2016-07-01 04:41:57
## 88                                          Venezuela 2016-05-08 12:12:04
## 89                                          Australia 2016-03-14 23:13:11
## 90                                  Wallis and Futuna 2016-05-25 00:19:57
## 91                                             Jersey 2016-05-13 11:51:10
## 92                                        Puerto Rico 2016-02-20 20:47:05
## 93                                              Samoa 2016-05-22 20:49:37
## 94                                             Greece 2016-04-10 02:02:36
## 95  Antarctica (the territory South of 60 deg S) 2016-02-28 06:41:44
## 96                                            Albania 2016-07-08 21:18:32
## 97                                          Hong Kong 2016-04-19 15:14:58
## 98                                          Lithuania 2016-01-08 22:47:10
## 99                                              Egypt 2016-03-28 08:46:26
## 100                                        Bangladesh 2016-07-02 14:57:53
## 101                                    Western Sahara 2016-07-03 09:22:30
## 102                                            Serbia 2016-06-01 09:27:34
## 103                                           Maldives 2016-07-09 14:55:36
## 104                                    Czech Republic 2016-02-09 22:04:54
## 105                                           Guernsey 2016-06-10 11:31:33
## 106                                           Tanzania 2016-02-14 03:50:52
## 107                                             Bhutan 2016-07-05 17:17:49
## 108                                    Christmas Island 2016-04-28 05:50:25
## 109                                             Guinea 2016-04-03 05:10:31
## 110                                         Micronesia 2016-03-09 14:57:11
## 111                                         Madagascar 2016-01-16 23:37:51
```

```
## 112                                          Lebanon 2016-07-03 04:33:41
## 113                                          Eritrea 2016-03-14 06:46:14
## 114                                           Guyana 2016-01-09 05:44:56
## 115                                Trinidad and Tobago 2016-02-11 04:37:34
## 116                                           Jersey 2016-06-22 07:33:21
## 117                                United Arab Emirates 2016-07-13 16:12:24
## 118                                         Martinique 2016-07-23 11:46:28
## 119                                            Somalia 2016-07-13 04:10:53
## 120                                             Bhutan 2016-06-11 18:32:12
## 121                                             Greece 2016-05-08 12:51:00
## 122                                              Benin 2016-04-07 16:02:02
## 123                                   Papua New Guinea 2016-02-04 13:30:32
## 124                                         Uzbekistan 2016-02-26 19:48:23
## 125                                       South Africa 2016-06-21 13:15:21
## 126                                              Egypt 2016-05-17 04:27:31
## 127                                            Hungary 2016-04-18 15:54:33
## 128                        Falkland Islands (Malvinas) 2016-04-03 10:07:56
## 129                                           Dominica 2016-04-04 21:30:46
## 130                                             Jersey 2016-07-06 16:00:33
## 131                                          Lithuania 2016-05-04 09:00:24
## 132                                        Saint Martin 2016-06-13 18:50:00
## 133                                               Cuba 2016-01-03 16:01:40
## 134               United States Minor Outlying Islands 2016-01-14 00:23:10
## 135                                             Belize 2016-01-12 10:07:29
## 136                                             Belize 2016-04-16 12:09:25
## 137        Antarctica (the territory South of 60 deg S) 2016-05-13 06:09:28
## 138                    Saint Vincent and the Grenadines 2016-03-27 23:59:06
## 139                                             Kuwait 2016-02-03 23:47:56
## 140                                           Thailand 2016-04-18 11:23:05
## 141                                          Gibraltar 2016-02-05 19:06:01
## 142                       Holy See (Vatican City State) 2016-03-21 18:46:41
## 143                                              Korea 2016-06-14 11:59:58
## 144                                        Saint Helena 2016-02-06 23:08:57
## 145                           Turks and Caicos Islands 2016-03-12 01:39:19
## 146                                     Czech Republic 2016-01-26 03:56:18
## 147                                        Netherlands 2016-02-07 08:02:31
## 148                                            Belarus 2016-05-05 07:58:22
## 149                                           Dominica 2016-06-29 02:43:29
## 150                                       South Africa 2016-04-10 19:48:01
## 151                                        New Zealand 2016-02-10 06:37:56
## 152                                               Togo 2016-05-28 20:41:50
## 153                                              Kenya 2016-03-24 06:36:52
## 154                                              Palau 2016-02-12 22:51:08
## 155                                        Timor-Leste 2016-06-10 10:11:00
## 156                                           Cambodia 2016-03-31 10:44:46
## 157                                             Belize 2016-02-14 06:51:43
## 158                                               Cuba 2016-01-07 19:16:05
## 159                                         Costa Rica 2016-02-04 02:13:52
## 160                                      Liechtenstein 2016-05-09 02:58:58
## 161                                              Korea 2016-06-23 00:16:02
## 162                                            Ukraine 2016-06-20 09:35:02
## 163                                             Angola 2016-02-29 12:31:57
## 164                                              Nauru 2016-01-17 15:10:31
## 165                                  Equatorial Guinea 2016-01-29 03:54:19
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## 166                                  Mongolia 2016-07-14 12:07:10
## 167 Svalbard & Jan Mayen Islands 2016-01-10 23:14:30
## 168                              Timor-Leste 2016-04-28 18:34:56
## 169                                   Brazil 2016-07-06 18:36:01
## 170                                     Chad 2016-05-27 06:19:27
## 171                                 Portugal 2016-01-25 07:39:41
## 172                                   Malawi 2016-05-08 22:47:18
## 173                                    Qatar 2016-03-19 14:23:45
## 174                                Singapore 2016-07-23 04:37:05
## 175                                   Guinea 2016-06-23 01:22:43
## 176                               Kazakhstan 2016-07-19 18:06:22
## 177                                   Kuwait 2016-02-28 18:52:44
## 178                                   Rwanda 2016-02-10 06:52:07
## 179                                    China 2016-03-27 09:11:10
## 180       Bouvet Island (Bouvetoya) 2016-05-23 02:15:04
## 181                                  Vietnam 2016-01-03 03:22:15
## 182                                Guatemala 2016-01-04 21:48:38
## 183                                     Peru 2016-05-24 13:30:38
## 184                                  Mayotte 2016-02-01 19:42:40
## 185                                    Samoa 2016-06-05 13:16:24
## 186                                Singapore 2016-02-04 08:53:37
## 187                                  Jamaica 2016-03-24 13:37:53
## 188                                  Bahamas 2016-06-02 21:02:22
## 189                                   Canada 2016-02-21 07:42:48
## 190                                  Algeria 2016-06-26 17:16:26
## 191                                     Fiji 2016-01-03 05:34:33
## 192                                    Kenya 2016-03-08 18:00:43
## 193                                Argentina 2016-06-19 03:19:44
## 194       Bouvet Island (Bouvetoya) 2016-07-21 21:16:35
## 195                              Philippines 2016-02-12 20:36:40
## 196                                  Senegal 2016-05-17 06:14:20
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## 198                                  Liberia 2016-03-27 02:35:29
## 199                                     Guam 2016-01-16 08:01:40
## 200                     United Arab Emirates 2016-01-21 23:48:29
## 201                      Antigua and Barbuda 2016-06-05 00:29:13
## 202                                Argentina 2016-02-13 15:37:36
## 203                                  Georgia 2016-05-10 07:22:37
## 204                                   Jordan 2016-03-27 03:59:26
## 205                             Saudi Arabia 2016-05-24 18:35:58
## 206                             South Africa 2016-02-11 02:40:02
## 207                                  Croatia 2016-04-22 08:31:24
## 208                                     Fiji 2016-01-13 02:58:27
## 209                                Australia 2016-06-16 02:01:24
## 210                 Sao Tome and Principe 2016-06-27 18:37:04
## 211                                     Fiji 2016-07-03 12:57:03
## 212                                   Cyprus 2016-02-03 04:21:14
## 213                           Kyrgyz Republic 2016-05-29 21:17:10
## 214                                 Pakistan 2016-04-03 21:13:46
## 215                               Seychelles 2016-04-15 11:51:14
## 216                                    Samoa 2016-06-21 03:14:41
## 217                                 Bulgaria 2016-03-14 14:13:05
## 218                               Mauritania 2016-05-06 21:07:31
## 219                           Czech Republic 2016-06-12 17:52:43
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## 220                                    Chile 2016-01-11 07:36:22
## 221                                   Poland 2016-07-02 00:24:22
## 222                                  Estonia 2016-03-04 10:13:48
## 223                             Turkmenistan 2016-03-24 09:12:52
## 224                                   Latvia 2016-02-14 07:30:24
## 225                                     Fiji 2016-04-25 07:30:21
## 226                                   Turkey 2016-02-10 19:20:51
## 227                               Kazakhstan 2016-04-23 14:34:38
## 228                                  Bahrain 2016-06-18 17:56:32
## 229                                 Colombia 2016-07-17 01:58:53
## 230                       Brunei Darussalam 2016-04-27 04:28:17
## 231                                   Taiwan 2016-04-21 20:29:35
## 232                                   Serbia 2016-03-23 06:00:15
## 233           Saint Pierre and Miquelon 2016-07-19 07:59:18
## 234                             Australia 2016-06-26 11:52:18
## 235                                  Chad 2016-03-30 23:40:52
## 236                                Norway 2016-03-16 07:59:37
## 237           Turks and Caicos Islands 2016-05-04 00:01:33
## 238                               Finland 2016-07-02 21:22:23
## 239                          South Africa 2016-05-23 21:14:38
## 240                             Martinique 2016-01-29 20:16:54
## 241                           Afghanistan 2016-07-23 14:47:23
## 242                             Micronesia 2016-02-16 09:11:27
## 243          French Southern Territories 2016-06-09 21:43:05
## 244                           Philippines 2016-06-19 09:24:35
## 245                               Algeria 2016-06-06 21:26:51
## 246                            San Marino 2016-01-07 13:25:21
## 247                              Guernsey 2016-04-15 06:08:35
## 248                          Sierra Leone 2016-01-09 03:45:19
## 249                            Tajikistan 2016-02-10 15:23:17
## 250                         Liechtenstein 2016-04-24 13:42:15
## 251                               Ecuador 2016-06-12 05:31:19
## 252                           Switzerland 2016-01-05 09:42:22
## 253                               Moldova 2016-03-02 10:07:43
## 254                               Finland 2016-07-21 10:54:35
## 255                                France 2016-01-09 04:53:22
## 256                             Venezuela 2016-01-06 13:20:01
## 257                                  Cuba 2016-01-31 04:10:20
## 258                                  Peru 2016-06-11 08:38:16
## 259                                Turkey 2016-05-15 20:48:40
## 260                               Albania 2016-06-18 17:23:26
## 261          French Southern Territories 2016-03-17 05:00:12
## 262                     Papua New Guinea 2016-06-29 13:35:05
## 263                        Liechtenstein 2016-02-02 08:55:26
## 264                              Thailand 2016-04-13 05:42:52
## 265                             Malaysia 2016-07-20 09:27:24
## 266                            Mauritius 2016-02-26 04:57:14
## 267                              Algeria 2016-02-26 09:18:48
## 268                       Christmas Island 2016-04-15 14:45:48
## 269                                Japan 2016-02-01 14:37:34
## 270                            Greenland 2016-01-20 19:09:37
## 271                 Sao Tome and Principe 2016-04-23 06:28:43
## 272                              Senegal 2016-06-19 22:26:16
## 273                            Guadeloupe 2016-02-15 07:55:10
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## 274                                    Belgium 2016-02-09 19:37:52
## 275                                     Israel 2016-01-25 07:52:53
## 276                                   Honduras 2016-07-18 11:33:31
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## 278                                   Paraguay 2016-03-21 21:15:54
## 279                             Kyrgyz Republic 2016-02-15 12:25:28
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## 281                               French Guiana 2016-01-05 00:02:53
## 282                  Northern Mariana Islands 2016-05-15 01:03:06
## 283                                    Lebanon 2016-05-05 09:28:36
## 284                Saint Pierre and Miquelon 2016-05-26 13:18:30
## 285                             American Samoa 2016-05-21 01:36:16
## 286                                    Austria 2016-05-04 12:06:18
## 287                                      Tonga 2016-07-05 18:59:45
## 288                                      Tonga 2016-06-28 20:13:41
## 289              French Southern Territories 2016-05-05 11:09:29
## 290                                    Serbia 2016-03-25 15:17:39
## 291                             New Caledonia 2016-01-23 15:02:13
## 292                                    Taiwan 2016-05-29 07:29:27
## 293               United States of America 2016-05-30 07:36:31
## 294                                   Morocco 2016-04-17 15:46:03
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## 297                           Wallis and Futuna 2016-04-10 14:48:35
## 298                                     Chile 2016-04-16 16:38:35
## 299                                     Gabon 2016-05-03 08:21:23
## 300                                     Gabon 2016-03-18 16:04:59
## 301          Holy See (Vatican City State) 2016-05-22 00:01:58
## 302                               Seychelles 2016-02-01 20:30:35
## 303                                   Mayotte 2016-01-23 17:39:06
## 304                                    Uganda 2016-05-19 03:52:24
## 305                                  Cambodia 2016-05-09 21:54:38
## 306                        Antigua and Barbuda 2016-05-31 11:44:45
## 307                                  Cameroon 2016-03-30 19:09:50
## 308                                   Somalia 2016-01-09 15:49:28
## 309                                    Lebanon 2016-04-18 03:41:56
## 310                Saint Pierre and Miquelon 2016-06-13 13:59:51
## 311                                  Dominica 2016-04-23 08:15:31
## 312                                   Hungary 2016-03-27 16:41:29
## 313                                    Taiwan 2016-02-19 07:29:30
## 314                                Saint Lucia 2016-05-19 11:16:59
## 315                                       Niue 2016-01-27 20:47:57
## 316                                    France 2016-04-20 00:41:53
## 317                                    Cyprus 2016-02-07 07:41:06
## 318              French Southern Territories 2016-04-21 09:30:35
## 319                               Costa Rica 2016-04-19 05:15:28
## 320                                   Austria 2016-04-12 14:01:08
## 321                                    Zambia 2016-03-15 11:25:48
## 322                                     Congo 2016-02-16 18:21:36
## 323               United States of America 2016-02-18 23:08:59
## 324                           Pitcairn Islands 2016-03-25 08:40:15
## 325                                    Belize 2016-03-16 00:28:10
## 326                                  Anguilla 2016-01-28 11:50:40
## 327                              South Africa 2016-03-24 02:01:55
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## 328                                      Singapore 2016-03-03 22:31:16
## 329                                        Finland 2016-02-26 09:54:33
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## 332                                         Sweden 2016-05-23 21:00:45
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## 334                        Bosnia and Herzegovina 2016-04-28 22:54:37
## 335                                      Singapore 2016-03-19 14:57:00
## 336                  Falkland Islands (Malvinas) 2016-07-15 09:08:42
## 337                        Bosnia and Herzegovina 2016-05-12 04:35:59
## 338                                     Mauritius 2016-01-01 21:58:55
## 339                                     Indonesia 2016-03-13 13:50:25
## 340                                Czech Republic 2016-07-16 14:13:54
## 341                                       Eritrea 2016-04-18 00:49:33
## 342                                        Mexico 2016-07-17 01:13:56
## 343                                     Gibraltar 2016-02-17 07:05:57
## 344                                         Haiti 2016-06-16 02:33:22
## 345                  Falkland Islands (Malvinas) 2016-04-09 16:31:15
## 346                                       Eritrea 2016-03-18 17:35:40
## 347                                     Hong Kong 2016-05-11 22:02:17
## 348                                        Gambia 2016-05-25 20:10:02
## 349                                      Barbados 2016-02-29 19:26:35
## 350                                         Nauru 2016-06-09 14:24:06
## 351                                          Peru 2016-01-30 16:15:29
## 352                                   El Salvador 2016-02-15 05:35:54
## 353                        Libyan Arab Jamahiriya 2016-01-31 06:14:10
## 354                                      Cambodia 2016-01-05 16:34:31
## 355                             Saint Barthelemy 2016-05-31 02:17:18
## 356                                      Reunion 2016-04-21 16:10:50
## 357                          Antigua and Barbuda 2016-04-10 03:30:16
## 358                                        Samoa 2016-02-09 07:21:25
## 359                                  Afghanistan 2016-06-17 17:11:16
## 360                                   Azerbaijan 2016-05-22 21:54:23
## 361                                  Philippines 2016-07-13 07:41:42
## 362                                       Angola 2016-01-23 18:59:21
## 363                                      Albania 2016-05-20 12:17:59
## 364                                      Hungary 2016-01-30 04:38:41
## 365                                Faroe Islands 2016-04-21 12:34:28
## 366                                Czech Republic 2016-04-22 20:32:17
## 367                  Svalbard & Jan Mayen Islands 2016-01-11 06:02:27
## 368                                  Afghanistan 2016-03-01 10:01:35
## 369                                       Rwanda 2016-04-04 08:19:54
## 370                                       Panama 2016-06-20 06:30:06
## 371                                        Samoa 2016-01-28 07:10:29
## 372 United States Minor Outlying Islands 2016-07-03 04:11:40
## 373                                       Greece 2016-05-15 13:18:34
## 374                                Cote d'Ivoire 2016-04-08 22:48:25
## 375                                     Pakistan 2016-01-19 12:18:13
## 376                                     Anguilla 2016-05-26 15:40:26
## 377                                       Cyprus 2016-01-26 15:56:55
## 378                                         Peru 2016-06-17 09:58:46
## 379                                        Kenya 2016-04-25 21:15:39
## 380                                         Chad 2016-07-13 11:41:29
## 381                                Kyrgyz Republic 2016-07-05 15:14:10
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## 382                                      Albania 2016-03-15 14:06:17
## 383                                        Gabon 2016-06-19 22:08:15
## 384                           Dominican Republic 2016-07-05 20:16:13
## 385                                     Zimbabwe 2016-05-09 08:44:55
## 386                                      Croatia 2016-07-21 23:14:35
## 387                                     Cambodia 2016-06-03 17:32:47
## 388                                     Mongolia 2016-01-15 19:40:47
## 389                                     Honduras 2016-02-05 16:50:58
## 390                                   Madagascar 2016-02-29 23:56:06
## 391                                        Qatar 2016-05-08 12:08:26
## 392                                        China 2016-07-13 01:48:46
## 393                                   Bangladesh 2016-01-08 02:34:06
## 394                                    Swaziland 2016-06-08 12:25:49
## 395                                     Tanzania 2016-06-15 11:56:41
## 396                                      Eritrea 2016-06-13 22:41:45
## 397                                       Canada 2016-06-20 14:20:52
## 398                       Saint Kitts and Nevis 2016-04-03 06:17:22
## 399                                 Burkina Faso 2016-05-31 23:42:26
## 400                                       Tuvalu 2016-02-15 03:43:55
## 401                                  El Salvador 2016-03-10 23:26:54
## 402                                   Madagascar 2016-02-26 17:01:01
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## 405                                       Latvia 2016-06-29 21:39:42
## 406                                      Moldova 2016-01-27 17:55:44
## 407                                     Anguilla 2016-03-17 23:39:28
## 408                                   Bangladesh 2016-07-09 16:23:33
## 409                                Faroe Islands 2016-06-28 12:51:02
## 410                                       Taiwan 2016-06-18 16:32:58
## 411 Heard Island and McDonald Islands 2016-05-28 12:38:37
## 412                                       Israel 2016-01-16 16:40:30
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## 415                                   Costa Rica 2016-04-06 21:20:07
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## 417                         Netherlands Antilles 2016-02-17 23:47:00
## 418                               Czech Republic 2016-03-15 17:33:15
## 419                                      Iceland 2016-01-21 18:51:01
## 420                                        Palau 2016-06-06 22:41:24
## 421                       Libyan Arab Jamahiriya 2016-05-16 14:50:22
## 422                                   Kazakhstan 2016-04-17 19:10:56
## 423                                French Guiana 2016-03-30 01:05:34
## 424                                       Tuvalu 2016-06-29 09:04:31
## 425                                        Congo 2016-05-26 13:43:05
## 426                               United Kingdom 2016-04-15 10:16:49
## 427                                   Luxembourg 2016-05-31 09:06:29
## 428                              French Polynesia 2016-02-15 14:13:47
## 429                              Papua New Guinea 2016-05-09 10:21:48
## 430                                      Maldives 2016-07-07 23:32:38
## 431                                        Zambia 2016-01-03 17:10:05
## 432                                  Cook Islands 2016-07-17 18:55:38
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## 434                                       Senegal 2016-02-27 12:34:19
## 435                                      Myanmar 2016-06-08 20:13:27
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## 436                                Dominican Republic 2016-02-20 10:52:51
## 437                                           Bahrain 2016-03-23 21:06:51
## 438                                       Puerto Rico 2016-06-07 01:29:06
## 439                                             Chile 2016-01-18 15:18:01
## 440                                           Bolivia 2016-06-09 19:32:27
## 441                                            Serbia 2016-05-30 20:07:59
## 442                                          Malaysia 2016-04-01 09:21:14
## 443                                           Estonia 2016-05-31 06:21:02
## 444                                         Greenland 2016-07-03 22:13:19
## 445                               Trinidad and Tobago 2016-03-10 01:36:19
## 446                                          Thailand 2016-03-18 02:39:26
## 447                                       Philippines 2016-05-30 18:08:19
## 448                                              Niue 2016-02-20 00:06:20
## 449                                       Afghanistan 2016-03-10 22:28:52
## 450                                            Angola 2016-06-21 14:32:32
## 451                                             Egypt 2016-02-05 15:26:37
## 452                                              Fiji 2016-05-31 21:41:46
## 453                                          Portugal 2016-01-01 02:52:10
## 454                                           Austria 2016-03-04 14:10:12
## 455                                           Germany 2016-02-03 10:40:27
## 456                                            Panama 2016-01-20 00:26:15
## 457                          United States of America 2016-06-11 09:37:52
## 458                                  Christmas Island 2016-03-08 05:48:20
## 459                                 Equatorial Guinea 2016-02-14 22:23:30
## 460                                        Micronesia 2016-07-17 22:04:54
## 461                                             Malta 2016-06-02 22:16:08
## 462                                           Ecuador 2016-04-30 19:42:04
## 463                                             Sudan 2016-04-17 06:58:18
## 464                       Lao People's Democratic Republic 2016-03-09 00:41:46
## 465                       Saint Vincent and the Grenadines 2016-03-07 20:02:51
## 466                                       Switzerland 2016-05-26 10:33:00
## 467                                             Spain 2016-07-18 01:36:37
## 468                          Turks and Caicos Islands 2016-07-16 05:56:42
## 469                                         Indonesia 2016-03-22 06:41:38
## 470                                      Cook Islands 2016-06-03 06:34:44
## 471                                         Australia 2016-06-28 09:19:06
## 472                                           Finland 2016-07-18 18:33:05
## 473                                          Pakistan 2016-01-23 04:47:37
## 474                                           Ireland 2016-02-29 11:00:06
## 475                                           Eritrea 2016-06-30 00:19:33
## 476                                            France 2016-06-19 18:19:38
## 477                                           Austria 2016-01-08 08:08:47
## 478                      Heard Island and McDonald Islands 2016-01-02 12:25:36
## 479                                    Western Sahara 2016-05-13 11:57:12
## 480                                           Liberia 2016-02-08 14:02:22
## 481                                Dominican Republic 2016-06-07 23:46:51
## 482                                             Tonga 2016-01-02 14:36:03
## 483                       Lao People's Democratic Republic 2016-02-13 04:16:08
## 484                          United States of America 2016-05-03 12:57:19
## 485                                           Belgium 2016-04-03 11:38:36
## 486                                         Indonesia 2016-03-23 19:58:15
## 487                                           Croatia 2016-02-02 11:49:18
## 488                                Brunei Darussalam 2016-03-08 10:39:16
## 489                                   American Samoa 2016-04-08 14:35:44
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## 490                          Netherlands Antilles 2016-06-30 00:40:31
## 491                                      Thailand 2016-03-25 19:02:35
## 492                                        Greece 2016-05-12 21:32:06
## 493                             French Polynesia 2016-03-02 05:11:01
## 494                                      Guernsey 2016-05-10 14:12:31
## 495                                   Isle of Man 2016-03-03 02:59:37
## 496                 Holy See (Vatican City State) 2016-07-04 11:03:49
## 497                                   El Salvador 2016-07-08 03:47:41
## 498                                         China 2016-05-27 05:35:27
## 499                                       Myanmar 2016-02-10 13:46:35
## 500                                         Macao 2016-06-12 21:21:53
## 501                                     Australia 2016-01-07 13:58:51
## 502          United States Virgin Islands 2016-05-13 14:12:39
## 503                                        Mexico 2016-05-02 00:01:56
## 504                                      Djibouti 2016-02-07 17:06:35
## 505                                 Cote d'Ivoire 2016-02-15 07:27:41
## 506                                          Mali 2016-02-21 05:23:28
## 507                                       Jamaica 2016-03-20 22:27:25
## 508                                       Romania 2016-03-24 09:34:00
## 509                                 Cayman Islands 2016-04-04 20:01:12
## 510                                        Gambia 2016-01-02 04:50:44
## 511                                       Algeria 2016-07-08 17:14:01
## 512                                   Puerto Rico 2016-03-28 19:48:37
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## 514                                        Turkey 2016-06-09 17:11:02
## 515                                        Guinea 2016-05-19 09:30:12
## 516                                       Moldova 2016-04-12 12:35:39
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## 520                                      Mongolia 2016-06-18 16:02:34
## 521                                      Ethiopia 2016-01-01 20:17:49
## 522                                      Ethiopia 2016-03-02 04:02:45
## 523                                     Sri Lanka 2016-03-30 20:23:48
## 524                                       Morocco 2016-05-01 00:23:13
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## 526                                Western Sahara 2016-03-23 08:52:31
## 527                                Western Sahara 2016-05-08 22:24:27
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## 531                                      Bulgaria 2016-06-01 03:44:42
## 532                        Libyan Arab Jamahiriya 2016-04-04 22:00:15
## 533                                      Barbados 2016-06-26 04:22:26
## 534                             French Polynesia 2016-07-07 03:55:01
## 535                                       Uruguay 2016-03-20 08:22:50
## 536                                       Uruguay 2016-04-20 10:04:29
## 537                                        Brazil 2016-03-25 05:05:27
## 538                                     Venezuela 2016-02-14 07:15:37
## 539                                       Myanmar 2016-03-26 00:32:02
## 540                                         Malta 2016-07-05 22:33:48
## 541                                       Jamaica 2016-03-14 03:29:12
## 542                                       Bahrain 2016-05-30 02:34:25
## 543                                       Algeria 2016-03-07 22:32:15
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## 544                                        Tuvalu 2016-03-19 00:27:58
## 545                                       Georgia 2016-06-18 05:17:33
## 546                                      Cambodia 2016-07-11 18:12:43
## 547                                          Guam 2016-01-01 08:27:06
## 548                                      Tanzania 2016-04-07 01:57:38
## 549                                     Indonesia 2016-02-28 22:02:14
## 550                                       Somalia 2016-06-26 17:25:55
## 551                                        Belize 2016-01-21 04:30:43
## 552                                        Serbia 2016-05-01 21:46:37
## 553                                     Australia 2016-02-14 10:06:49
## 554                                          Guam 2016-01-27 18:25:42
## 555                             Christmas Island 2016-06-16 20:24:33
## 556                             Papua New Guinea 2016-07-21 10:01:50
## 557                                      Bahamas 2016-04-21 18:31:27
## 558                                      Comoros 2016-07-20 01:56:33
## 559                               Western Sahara 2016-02-26 17:14:14
## 560                                    Nicaragua 2016-01-16 17:56:05
## 561                                          Guam 2016-04-01 01:57:12
## 562                                      Vanuatu 2016-06-24 08:42:20
## 563                                      Bolivia 2016-05-27 18:45:35
## 564                                       Malawi 2016-05-26 15:40:12
## 565                                    Venezuela 2016-04-06 01:19:08
## 566                                        Nepal 2016-01-08 19:38:45
## 567                                United Kingdom 2016-02-24 19:08:11
## 568                                      Albania 2016-03-10 07:07:31
## 569                                   Madagascar 2016-04-29 07:49:01
## 570                                       Guyana 2016-04-10 16:08:09
## 571                                        Yemen 2016-04-27 18:25:30
## 572                                        India 2016-05-10 04:28:55
## 573                                  Puerto Rico 2016-01-03 23:21:26
## 574                United States Virgin Islands 2016-02-15 16:52:04
## 575                          Antigua and Barbuda 2016-03-09 02:07:17
## 576                                French Guiana 2016-01-09 17:33:03
## 577                          Antigua and Barbuda 2016-02-03 05:47:09
## 578                                 Turkmenistan 2016-01-02 09:30:11
## 579                                     Honduras 2016-01-04 07:28:43
## 580                                   Seychelles 2016-01-07 21:21:50
## 581                                       Cyprus 2016-07-24 00:22:16
## 582                 Saint Pierre and Miquelon 2016-02-13 13:57:53
## 583                                       Poland 2016-05-08 10:25:08
## 584                                       Taiwan 2016-02-17 18:50:57
## 585                                Cote d'Ivoire 2016-01-22 19:43:53
## 586                                   Micronesia 2016-07-20 13:21:37
## 587                                      Liberia 2016-01-05 20:58:42
## 588                                 Saudi Arabia 2016-01-29 05:39:16
## 589                                        Nepal 2016-06-17 20:18:27
## 590                                        Ghana 2016-02-23 13:55:48
## 591                                         Iran 2016-07-09 11:18:02
## 592                                  New Zealand 2016-03-19 11:09:36
## 593                     Libyan Arab Jamahiriya 2016-01-29 07:14:04
## 594                                    Sri Lanka 2016-06-14 07:02:09
## 595                          United Arab Emirates 2016-05-18 03:19:03
## 596                                   Indonesia 2016-01-30 09:54:03
## 597                 Saint Vincent and the Grenadines 2016-04-25 16:58:50
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## 598                                    Mongolia 2016-01-14 16:30:38
## 599                                   Honduras 2016-07-06 05:34:52
## 600                             Papua New Guinea 2016-04-07 10:51:05
## 601                              Kyrgyz Republic 2016-04-17 05:08:52
## 602                                   Ethiopia 2016-01-28 17:03:54
## 603                                     Rwanda 2016-02-18 22:42:33
## 604                              Kyrgyz Republic 2016-06-24 21:09:58
## 605                                   Grenada 2016-06-20 04:24:41
## 606                                      Togo 2016-02-14 16:33:29
## 607                                  Pakistan 2016-02-27 13:51:44
## 608 Falkland Islands (Malvinas) 2016-05-07 15:16:07
## 609                                    Jersey 2016-03-16 20:10:53
## 610                             Cayman Islands 2016-06-26 02:06:59
## 611                               South Africa 2016-07-17 14:26:04
## 612                                 Micronesia 2016-01-28 16:42:36
## 613                                 Tajikistan 2016-06-16 18:04:51
## 614                                    Bolivia 2016-06-19 23:21:38
## 615                                   Cameroon 2016-05-24 17:42:58
## 616                                    Ecuador 2016-03-01 22:06:37
## 617                                     Zambia 2016-01-31 08:50:38
## 618                              Guinea-Bissau 2016-04-30 15:27:22
## 619                                 Micronesia 2016-01-13 20:38:35
## 620                                    Bahamas 2016-03-30 16:15:59
## 621                                 Cape Verde 2016-04-29 18:53:43
## 622                           French Polynesia 2016-06-14 19:48:34
## 623                               Saudi Arabia 2016-07-15 15:43:36
## 624                                     France 2016-03-24 05:38:01
## 625                                    Burundi 2016-04-26 20:57:48
## 626                                     Latvia 2016-01-12 03:28:31
## 627                                    Morocco 2016-04-09 23:26:42
## 628                                  Venezuela 2016-03-28 09:15:58
## 629                                      Palau 2016-06-23 11:05:01
## 630                                Isle of Man 2016-01-24 01:53:14
## 631                                       Peru 2016-04-15 10:18:55
## 632                                    Belgium 2016-04-26 13:13:20
## 633                                    Croatia 2016-05-16 23:21:06
## 634                                     France 2016-01-18 02:51:13
## 635                                   Slovenia 2016-06-20 08:34:46
## 636                                       Peru 2016-07-18 04:53:22
## 637                                    Belarus 2016-07-01 01:12:04
## 638                                    Bolivia 2016-03-07 22:51:00
## 639                                      Benin 2016-05-02 15:31:28
## 640                           Wallis and Futuna 2016-07-23 06:18:51
## 641                                 Azerbaijan 2016-06-12 03:11:04
## 642                                   Mongolia 2016-02-15 20:41:05
## 643                                    Denmark 2016-01-23 01:42:28
## 644                         Russian Federation 2016-02-26 01:18:44
## 645                                     Brazil 2016-01-11 02:07:14
## 646                                   Ethiopia 2016-04-04 13:56:14
## 647                                     Guyana 2016-01-14 09:27:59
## 648                                   Ethiopia 2016-04-25 03:18:45
## 649                                  Mauritius 2016-03-05 23:02:11
## 650                                   Djibouti 2016-01-06 21:43:22
## 651                        Syrian Arab Republic 2016-02-18 03:58:36
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## 652                                        Saint Martin 2016-04-16 14:15:55
## 653                                Netherlands Antilles 2016-02-24 06:18:11
## 654                                              Greece 2016-06-29 01:19:21
## 655                                          Madagascar 2016-01-05 06:34:20
## 656                                             Senegal 2016-07-16 10:14:04
## 657                                        Burkina Faso 2016-06-17 03:23:13
## 658                                      Czech Republic 2016-06-13 11:06:40
## 659                       Lao People's Democratic Republic 2016-04-05 08:18:45
## 660                                Netherlands Antilles 2016-04-17 18:38:14
## 661                                               Qatar 2016-02-03 16:54:33
## 662                                             Andorra 2016-04-18 21:07:28
## 663                                       Liechtenstein 2016-06-18 22:31:22
## 664                                               China 2016-03-12 07:18:36
## 665                                             Vietnam 2016-01-15 01:20:05
## 666                                          Tajikistan 2016-02-12 10:39:10
## 667                                             Eritrea 2016-02-16 02:29:03
## 668                                              Monaco 2016-04-04 21:23:13
## 669                                              Israel 2016-04-24 01:48:21
## 670                                             Hungary 2016-05-20 00:00:48
## 671                                           Singapore 2016-05-15 03:10:50
## 672                                                Cuba 2016-01-07 23:02:43
## 673                                             Reunion 2016-07-19 12:05:58
## 674                                              Zambia 2016-04-04 00:02:20
## 675                                               Gabon 2016-06-10 04:21:57
## 676                                            Dominica 2016-03-11 14:50:56
## 677                                             Bahamas 2016-01-14 20:58:10
## 678                                             Tokelau 2016-06-22 05:22:58
## 679                                        Turkmenistan 2016-03-19 08:00:58
## 680                                             Belgium 2016-04-15 15:07:17
## 681                                        French Guiana 2016-03-28 02:29:19
## 682                                           Martinique 2016-01-22 15:03:25
## 683                                     French Polynesia 2016-06-25 17:33:35
## 684                                              Ecuador 2016-03-04 14:33:38
## 685                                          Puerto Rico 2016-06-29 02:48:44
## 686                                United Arab Emirates 2016-06-18 01:42:37
## 687                                        Burkina Faso 2016-01-31 09:57:34
## 688                                          Luxembourg 2016-05-22 15:17:25
## 689                                             Jamaica 2016-07-22 11:05:10
## 690 Antarctica (the territory South of 60 deg S) 2016-07-13 14:05:22
## 691                                               China 2016-02-11 11:50:26
## 692                                      Western Sahara 2016-03-16 20:33:10
## 693                                             Lebanon 2016-04-25 19:31:39
## 694                                           Hong Kong 2016-07-14 22:43:29
## 695                                             Vanuatu 2016-05-30 08:02:35
## 696                                             Vanuatu 2016-02-14 11:36:08
## 697                                           Guatemala 2016-01-23 21:15:57
## 698                                           Greenland 2016-07-18 02:51:19
## 699                                Syrian Arab Republic 2016-02-10 08:21:13
## 700                                        Saint Helena 2016-01-04 06:37:15
## 701                                             Lebanon 2016-06-05 21:38:22
## 702                                               Malta 2016-06-01 03:17:50
## 703                                   Christmas Island 2016-03-06 06:51:23
## 704                                             Ukraine 2016-02-26 19:35:54
## 705                                               Malta 2016-07-13 14:30:14
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## 706                                          Italy 2016-06-29 07:20:46
## 707                                          Japan 2016-03-15 06:54:21
## 708                                      Mauritius 2016-06-11 06:47:55
## 709                                         Turkey 2016-07-17 13:22:43
## 710                                        Namibia 2016-02-14 14:38:01
## 711                                          China 2016-05-04 05:01:37
## 712                                    Netherlands 2016-05-20 12:17:28
## 713                                      Gibraltar 2016-01-26 02:47:17
## 714                                          Congo 2016-07-07 18:07:19
## 715                                        Senegal 2016-01-11 12:46:31
## 716                                        Hungary 2016-05-12 12:11:12
## 717                                Pitcairn Islands 2016-02-28 23:21:22
## 718                  Slovakia (Slovak Republic) 2016-05-03 16:02:50
## 719              United States Virgin Islands 2016-03-15 20:19:20
## 720                                         Monaco 2016-07-23 05:21:39
## 721                                       Portugal 2016-03-11 10:01:23
## 722                                         Turkey 2016-02-11 20:45:46
## 723                                         Uganda 2016-07-06 23:09:07
## 724                                 Norfolk Island 2016-03-22 19:14:47
## 725                                           Niue 2016-05-26 13:28:36
## 726                                        Ukraine 2016-06-18 19:10:14
## 727                                        Vanuatu 2016-03-20 07:12:52
## 728          United States Minor Outlying Islands 2016-06-03 07:00:36
## 729                                        Armenia 2016-02-03 15:15:42
## 730                                         Sweden 2016-05-03 16:55:02
## 731                                    Timor-Leste 2016-06-20 02:25:12
## 732                  French Southern Territories 2016-07-10 19:15:52
## 733                                        Finland 2016-01-04 04:00:35
## 734              Saint Vincent and the Grenadines 2016-04-20 16:49:15
## 735                                        Senegal 2016-01-23 13:14:18
## 736                                        Burundi 2016-01-04 22:27:25
## 737                                        Bahamas 2016-04-08 22:40:55
## 738                                         Sweden 2016-01-05 11:53:17
## 739                  Svalbard & Jan Mayen Islands 2016-03-17 22:24:02
## 740                                          Tonga 2016-06-29 04:23:10
## 741                                          Korea 2016-05-25 19:45:16
## 742                                Kyrgyz Republic 2016-06-17 23:19:38
## 743                                     Costa Rica 2016-04-24 07:20:16
## 744                                  Liechtenstein 2016-03-18 13:00:12
## 745                                       Zimbabwe 2016-04-28 21:58:25
## 746                                     Costa Rica 2016-02-12 08:46:15
## 747                                        Hungary 2016-07-11 13:23:37
## 748                                           Fiji 2016-01-29 00:45:19
## 749                                    Netherlands 2016-01-05 16:26:44
## 750                                         Sweden 2016-06-20 08:22:09
## 751                                       Barbados 2016-02-06 17:48:28
## 752                                       Paraguay 2016-06-22 17:19:09
## 753                                          Italy 2016-04-16 05:24:33
## 754                                        Belarus 2016-01-17 05:07:11
## 755 South Georgia and the South Sandwich Islands 2016-07-08 22:30:10
## 756                                       Anguilla 2016-03-11 00:05:48
## 757                                   Sierra Leone 2016-06-10 00:35:15
## 758                                    Saint Martin 2016-01-04 00:44:57
## 759                                         Uganda 2016-01-01 15:14:24
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## 760                                      Saudi Arabia 2016-07-10 17:24:51
## 761                                         Greenland 2016-03-27 19:50:11
## 762                                         Venezuela 2016-04-29 13:38:19
## 763                                           Liberia 2016-01-08 18:13:43
## 764                                              Mali 2016-06-05 07:54:30
## 765                              Bosnia and Herzegovina 2016-06-29 10:50:45
## 766                                   Brunei Darussalam 2016-04-24 13:46:10
## 767 South Georgia and the South Sandwich Islands 2016-02-14 04:14:13
## 768                                    Czech Republic 2016-06-15 05:43:02
## 769                                       El Salvador 2016-07-06 12:04:29
## 770                                           Tokelau 2016-03-31 13:54:51
## 771                                            France 2016-06-21 00:52:47
## 772                                             Gabon 2016-05-27 05:23:26
## 773                                          Bulgaria 2016-01-17 18:45:55
## 774                                      Burkina Faso 2016-04-07 20:34:42
## 775                                           Mayotte 2016-05-02 18:37:01
## 776                                           Somalia 2016-06-04 17:24:07
## 777                                           Albania 2016-04-07 18:52:57
## 778                                           Bolivia 2016-06-10 22:21:10
## 779                                            Jersey 2016-05-19 06:37:38
## 780                              British Virgin Islands 2016-03-28 23:01:24
## 781                                        Saint Helena 2016-01-21 22:51:34
## 782                              Bosnia and Herzegovina 2016-03-12 06:05:12
## 783                                             India 2016-06-04 09:13:29
## 784                                           Georgia 2016-05-24 10:16:38
## 785          United States Minor Outlying Islands 2016-03-25 06:36:53
## 786                                         Kiribati 2016-04-22 00:28:18
## 787                                            Ghana 2016-03-22 04:13:35
## 788                                            Samoa 2016-01-14 08:27:04
## 789                                             Iran 2016-04-14 21:37:49
## 790                                       Costa Rica 2016-05-31 17:50:15
## 791                           Northern Mariana Islands 2016-03-17 06:25:47
## 792                                      Liechtenstein 2016-04-13 07:07:36
## 793                                          Grenada 2016-02-03 22:11:13
## 794                                           Poland 2016-02-02 19:59:17
## 795                                            Kenya 2016-04-07 20:38:02
## 796                                             Iran 2016-03-15 19:35:19
## 797                                          Belgium 2016-03-11 12:39:19
## 798                                          Namibia 2016-05-17 18:06:46
## 799                                           Cyprus 2016-02-28 23:10:32
## 800                                            Japan 2016-03-02 06:35:08
## 801                                         Zimbabwe 2016-02-27 08:52:50
## 802                                          Andorra 2016-03-14 04:34:35
## 803                                       Luxembourg 2016-03-10 15:07:44
## 804                                           Cyprus 2016-05-01 08:27:12
## 805                                           Turkey 2016-06-12 11:17:25
## 806                                        Hong Kong 2016-05-28 12:20:15
## 807                                      Netherlands 2016-03-18 09:08:39
## 808                      United States Virgin Islands 2016-05-26 06:03:57
## 809                                  Marshall Islands 2016-07-06 03:40:17
## 810                                   Western Sahara 2016-04-29 14:10:00
## 811                  Saint Vincent and the Grenadines 2016-03-05 20:53:19
## 812                          United States of America 2016-05-30 08:35:54
## 813                                            Angola 2016-04-10 06:32:11
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## 814                                 Cayman Islands 2016-01-20 02:31:36
## 815                                      Swaziland 2016-07-20 21:53:42
## 816                                Wallis and Futuna 2016-01-17 04:12:30
## 817                                       Zimbabwe 2016-02-24 07:13:00
## 818                                           Chad 2016-03-26 19:37:46
## 819                                    Saint Martin 2016-06-04 09:25:27
## 820                                         Rwanda 2016-04-22 07:48:33
## 821                                        Moldova 2016-03-31 08:53:43
## 822                                          Gabon 2016-04-16 08:36:08
## 823                                        Denmark 2016-05-12 20:57:10
## 824                 Svalbard & Jan Mayen Islands 2016-05-07 21:32:51
## 825                                         Poland 2016-06-25 00:33:23
## 826                                           Fiji 2016-03-23 05:27:35
## 827                                    Philippines 2016-03-04 13:47:47
## 828                                        Vietnam 2016-06-14 12:08:10
## 829                                         Jersey 2016-05-11 19:13:42
## 830                                      Indonesia 2016-01-21 23:33:22
## 831                        Palestinian Territory 2016-01-15 19:45:33
## 832                                         Latvia 2016-04-23 09:42:08
## 833                                          Malta 2016-05-23 08:06:24
## 834                                    Afghanistan 2016-02-27 15:04:52
## 835                                        Austria 2016-02-23 17:37:46
## 836                                     Micronesia 2016-03-17 22:59:46
## 837                                         Mexico 2016-02-28 03:34:35
## 838                                          Chile 2016-03-15 14:33:12
## 839                                           Cuba 2016-03-03 20:20:32
## 840                                        Belarus 2016-04-06 14:16:52
## 841                                         Malawi 2016-05-01 09:23:25
## 842                                    Afghanistan 2016-05-30 08:02:27
## 843                                     Luxembourg 2016-04-04 11:39:51
## 844                                   South Africa 2016-04-06 23:10:40
## 845                                          Nepal 2016-04-26 21:45:50
## 846                                          Spain 2016-05-25 00:34:59
## 847                                      Hong Kong 2016-02-11 16:45:41
## 848                  Slovakia (Slovak Republic) 2016-01-30 00:05:37
## 849                                 Cayman Islands 2016-07-12 10:56:21
## 850                                         Uganda 2016-04-23 03:46:34
## 851                                        Vanuatu 2016-04-16 10:36:49
## 852                                       Anguilla 2016-03-11 13:07:30
## 853                                    Switzerland 2016-03-02 15:39:02
## 854                                       Zimbabwe 2016-07-13 21:31:14
## 855                                        Uruguay 2016-05-29 18:12:00
## 856                                        Liberia 2016-05-10 17:13:47
## 857                                          Egypt 2016-05-07 08:39:47
## 858                                         Greece 2016-01-17 13:27:13
## 859                                        Bahrain 2016-03-09 06:22:03
## 860                                      Sri Lanka 2016-04-05 18:02:49
## 861                                     Kazakhstan 2016-04-01 07:37:18
## 862                                      Greenland 2016-02-15 16:18:49
## 863                                        Moldova 2016-03-08 05:12:57
## 864                                         Poland 2016-02-09 23:38:30
## 865                                       Anguilla 2016-06-17 09:38:22
## 866                  Central African Republic 2016-06-01 12:27:17
## 867                                         Mexico 2016-02-26 23:44:44
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## 868                                        Togo 2016-03-11 09:58:32
## 869                                     Armenia 2016-04-28 02:55:10
## 870                                   Nicaragua 2016-04-12 04:22:42
## 871                                     Eritrea 2016-02-10 20:43:38
## 872                                      Canada 2016-05-01 23:21:53
## 873                                     Croatia 2016-03-24 17:48:31
## 874                                 Switzerland 2016-04-22 19:45:19
## 875                                       Yemen 2016-03-09 12:10:08
## 876                                     Tokelau 2016-03-30 05:29:38
## 877                                     Armenia 2016-01-24 13:41:38
## 878                           Equatorial Guinea 2016-07-15 09:42:19
## 879                                    Barbados 2016-06-07 05:41:16
## 880                              American Samoa 2016-05-31 23:32:00
## 881                                 Saint Lucia 2016-05-14 14:49:05
## 882                                     Algeria 2016-01-10 20:18:21
## 883                                Turkmenistan 2016-02-21 16:57:59
## 884                                     Mayotte 2016-05-23 00:32:54
## 885                                South Africa 2016-07-21 20:30:06
## 886                                       Macao 2016-05-15 18:44:50
## 887                                      France 2016-06-30 00:43:40
## 888                           Equatorial Guinea 2016-02-24 06:17:18
## 889                                        Mali 2016-05-30 21:22:22
## 890                                     Mayotte 2016-06-02 04:14:37
## 891                                    Pakistan 2016-04-18 07:00:38
## 892                                  Guadeloupe 2016-02-29 18:06:21
## 893                                     Denmark 2016-05-27 12:45:37
## 894                                 New Zealand 2016-01-12 21:17:15
## 895                         Netherlands Antilles 2016-01-27 17:08:19
## 896                                     Belarus 2016-06-10 03:56:41
## 897                                      Taiwan 2016-04-09 09:26:39
## 898                                 El Salvador 2016-02-26 06:00:16
## 899                                      Taiwan 2016-02-21 23:07:11
## 900                                        Peru 2016-04-29 14:08:26
## 901                                     Liberia 2016-02-11 17:02:07
## 902                                     Burundi 2016-07-22 07:44:43
## 903                                       Macao 2016-06-26 02:34:15
## 904                                   Venezuela 2016-05-14 23:08:14
## 905                                  Luxembourg 2016-05-24 10:04:39
## 906                                       Italy 2016-02-16 12:05:45
## 907                                  San Marino 2016-03-20 02:44:13
## 908                                  Madagascar 2016-01-31 05:12:44
## 909                              Norfolk Island 2016-04-01 05:17:28
## 910                                     Vanuatu 2016-02-25 16:33:24
## 911                                     Tunisia 2016-03-21 11:02:49
## 912                                    Paraguay 2016-02-12 05:20:19
## 913                                   Macedonia 2016-06-01 16:10:30
## 914 Heard Island and McDonald Islands 2016-06-16 03:17:45
## 915                                    Ethiopia 2016-03-26 15:28:07
## 916                                 El Salvador 2016-02-16 07:37:28
## 917                                       Niger 2016-02-28 09:31:31
## 918                                  Timor-Leste 2016-05-18 01:00:52
## 919                                     Uruguay 2016-02-21 13:11:08
## 920                                     Somalia 2016-01-05 12:59:07
## 921                                    Malaysia 2016-05-18 00:07:43
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## 922                                      Korea 2016-03-06 23:26:44
## 923          Lao People's Democratic Republic 2016-05-19 04:23:41
## 924                                    Bahamas 2016-04-29 20:40:21
## 925                                     Guyana 2016-05-03 01:09:01
## 926                                   Ethiopia 2016-06-27 21:51:47
## 927                    Bosnia and Herzegovina 2016-02-08 07:33:22
## 928                                     Cyprus 2016-02-22 07:04:05
## 929                                  Singapore 2016-03-21 08:13:24
## 930                         Dominican Republic 2016-05-31 00:58:37
## 931                                    Bermuda 2016-01-01 05:31:22
## 932                                    Jamaica 2016-05-27 08:53:51
## 933                          Saint Barthelemy 2016-05-09 07:13:27
## 934                                    Albania 2016-06-27 01:56:36
## 935                                 Mozambique 2016-06-03 04:51:46
## 936                                   Zimbabwe 2016-02-24 00:44:44
## 937                                    Georgia 2016-03-05 12:03:41
## 938                                     Brazil 2016-01-15 22:49:45
## 939                       Syrian Arab Republic 2016-02-12 03:39:09
## 940                       Palestinian Territory 2016-02-19 20:49:27
## 941                                    Grenada 2016-03-12 02:48:18
## 942                                      Ghana 2016-07-23 04:04:42
## 943                          Brunei Darussalam 2016-03-06 09:33:46
## 944                                  Lithuania 2016-02-24 04:11:37
## 945                                   Maldives 2016-02-17 20:22:49
## 946                                    Lesotho 2016-02-02 04:57:50
## 947                             Czech Republic 2016-01-27 16:06:05
## 948                                    Iceland 2016-05-24 09:50:41
## 949                                Philippines 2016-02-08 22:45:26
## 950                             Cayman Islands 2016-02-12 01:55:38
## 951                                      Haiti 2016-01-11 08:18:12
## 952                                   Colombia 2016-03-03 03:51:27
## 953                                 Luxembourg 2016-05-30 20:08:51
## 954                       United Arab Emirates 2016-04-22 22:01:21
## 955                                    Ireland 2016-05-25 10:39:28
## 956                                     Canada 2016-02-04 03:10:17
## 957          Svalbard & Jan Mayen Islands 2016-02-21 20:09:12
## 958                                      Malta 2016-04-28 01:24:34
## 959                                      Sudan 2016-05-18 19:33:51
## 960                                    Ecuador 2016-02-17 11:15:31
## 961                                    Senegal 2016-06-19 23:04:45
## 962                                   Cambodia 2016-02-20 09:54:06
## 963                                    Belarus 2016-01-22 12:58:14
## 964                                     Guyana 2016-02-19 13:26:24
## 965                                       Mali 2016-01-03 07:13:53
## 966                                       Iran 2016-01-03 04:39:47
## 967                                   Bulgaria 2016-04-13 13:04:47
## 968                                Afghanistan 2016-01-01 03:35:35
## 969                                    Liberia 2016-03-27 08:32:37
## 970                       Netherlands Antilles 2016-07-10 16:25:56
## 971                                  Hong Kong 2016-06-25 04:21:33
## 972                                      Palau 2016-01-27 14:41:10
## 973                                     Malawi 2016-05-16 18:51:59
## 974                                    Uruguay 2016-02-27 20:20:25
## 975                                     Cyprus 2016-02-28 23:54:44
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## 976                                                 Mexico 2016-06-13 06:11:33
## 977                                                  Niger 2016-05-05 11:07:13
## 978                                                 France 2016-07-07 12:17:33
## 979                                                  Japan 2016-05-24 17:07:08
## 980                                         Norfolk Island 2016-03-30 14:36:55
## 981                                               Bulgaria 2016-05-27 05:54:03
## 982                                             Uzbekistan 2016-01-03 16:30:51
## 983                                                 Mexico 2016-06-25 18:17:53
## 984                                       Brunei Darussalam 2016-02-24 10:36:43
## 985                                                 France 2016-03-03 03:13:48
## 986                                                  Yemen 2016-04-21 19:56:24
## 987                                 Northern Mariana Islands 2016-04-06 17:26:37
## 988                                                 Poland 2016-03-23 12:53:23
## 989                                                Bahrain 2016-02-17 07:00:38
## 990                               Saint Pierre and Miquelon 2016-06-26 07:01:47
## 991                                                  Tonga 2016-04-20 13:36:42
## 992                                                Comoros 2016-07-21 16:02:40
## 993                                             Montenegro 2016-03-06 11:36:06
## 994                                               Isle of Man 2016-02-11 23:45:01
## 995                                                  Mayotte 2016-04-04 03:57:48
## 996                                                Lebanon 2016-02-11 21:49:00
## 997                             Bosnia and Herzegovina 2016-04-22 02:07:01
## 998                                               Mongolia 2016-02-01 17:24:57
## 999                                              Guatemala 2016-03-24 02:35:54
## 1000                                                Brazil 2016-06-03 21:43:21
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```

OUTLIERS Let us first remind ourselves of the columns in our dataset.

```
colnames(adverts, do.NULL = TRUE, prefix = "col")
```

```
##  [1] "Daily.Time.Spent.on.Site" "Age"
##  [3] "Area.Income"              "Daily.Internet.Usage"
##  [5] "Ad.Topic.Line"            "City"
##  [7] "Male"                     "Country"
##  [9] "Timestamp"                "Clicked.on.Ad"
```

BOXPLOT We use boxplots to visualize the outliers

```
num_cols <- adverts[, c("Daily.Time.Spent.on.Site", "Age", "Area.Income", "Daily.Internet.Usage")]
num_cols
```

```
##      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
## 7                       88.91  33    53852.85               208.36
## 8                       66.00  48    24593.33               131.76
## 9                       74.53  30    68862.00               221.51
## 10                      69.88  20    55642.32               183.82
## 11                      47.64  49    45632.51               122.02
## 12                      83.07  37    62491.01               230.87
## 13                      69.57  48    51636.92               113.12
## 14                      79.52  24    51739.63               214.23
## 15                      42.95  33    30976.00               143.56
## 16                      63.45  23    52182.23               140.64
## 17                      55.39  37    23936.86               129.41
## 18                      82.03  41    71511.08               187.53
## 19                      54.70  36    31087.54               118.39
## 20                      74.58  40    23821.72               135.51
## 21                      77.22  30    64802.33               224.44
## 22                      84.59  35    60015.57               226.54
## 23                      41.49  52    32635.70               164.83
## 24                      87.29  36    61628.72               209.93
## 25                      41.39  41    68962.32               167.22
## 26                      78.74  28    64828.00               204.79
## 27                      48.53  28    38067.08               134.14
## 28                      51.95  52    58295.82               129.23
## 29                      70.20  34    32708.94               119.20
## 30                      76.02  22    46179.97               209.82
## 31                      67.64  35    51473.28               267.01
## 32                      86.41  28    45593.93               207.48
## 33                      59.05  57    25583.29               169.23
## 34                      55.60  23    30227.98               212.58
## 35                      57.64  57    45580.92               133.81
## 36                      84.37  30    61389.50               201.58
## 37                      62.26  53    56770.79               125.45
```

```
## 38                  65.82  39    76435.30              221.94
## 39                  50.43  46    57425.87              119.32
## 40                  38.93  39    27508.41              162.08
## 41                  84.98  29    57691.95              202.61
## 42                  64.24  30    59784.18              252.36
## 43                  82.52  32    66572.39              198.11
## 44                  81.38  31    64929.61              212.30
## 45                  80.47  25    57519.64              204.86
## 46                  37.68  52    53575.48              172.83
## 47                  69.62  20    50983.75              202.25
## 48                  85.40  43    67058.72              198.72
## 49                  44.33  37    52723.34              123.72
## 50                  48.01  46    54286.10              119.93
## 51                  73.18  23    61526.25              196.71
## 52                  79.94  28    58526.04              225.29
## 53                  33.33  45    53350.11              193.58
## 54                  50.33  50    62657.53              133.20
## 55                  62.31  47    62722.57              119.30
## 56                  80.60  31    67479.62              177.55
## 57                  65.19  36    75254.88              150.61
## 58                  44.98  49    52336.64              129.31
## 59                  77.63  29    56113.37              239.22
## 60                  41.82  41    24852.90              156.36
## 61                  85.61  27    47708.42              183.43
## 62                  85.84  34    64654.66              192.93
## 63                  72.08  29    71228.44              169.50
## 64                  86.06  32    61601.05              178.92
## 65                  45.96  45    66281.46              141.22
## 66                  62.42  29    73910.90              198.50
## 67                  63.89  40    51317.33              105.22
## 68                  35.33  32    51510.18              200.22
## 69                  75.74  25    61005.87              215.25
## 70                  78.53  34    32536.98              131.72
## 71                  46.13  31    60248.97              139.01
## 72                  69.01  46    74543.81              222.63
## 73                  55.35  39    75509.61              153.17
## 74                  33.21  43    42650.32              167.07
## 75                  38.46  42    58183.04              145.98
## 76                  64.10  22    60465.72              215.93
## 77                  49.81  35    57009.76              120.06
## 78                  82.73  33    54541.56              238.99
## 79                  56.14  38    32689.04              113.53
## 80                  55.13  45    55605.92              111.71
## 81                  78.11  27    63296.87              209.25
## 82                  73.46  28    65653.47              222.75
## 83                  56.64  38    61652.53              115.91
## 84                  68.94  54    30726.26              138.71
## 85                  70.79  31    74535.94              184.10
## 86                  57.76  41    47861.93              105.15
## 87                  77.51  36    73600.28              200.55
## 88                  52.70  34    58543.94              118.60
## 89                  57.70  34    42696.67              109.07
## 90                  56.89  37    37334.78              109.29
## 91                  69.90  43    71392.53              138.35
```

```
## 92                    55.79  24    59550.05              149.67
## 93                    70.03  26    64264.25              227.72
## 94                    50.08  40    64147.86              125.85
## 95                    43.67  31    25686.34              166.29
## 96                    72.84  26    52968.22              238.63
## 97                    45.72  36    22473.08              154.02
## 98                    39.94  41    64927.19              156.30
## 99                    35.61  46    51868.85              158.22
## 100                   79.71  34    69456.83              211.65
## 101                   41.49  53    31947.65              169.18
## 102                   63.60  23    51864.77              235.28
## 103                   89.91  40    59593.56              194.23
## 104                   68.18  21    48376.14              218.17
## 105                   66.49  20    56884.74              202.16
## 106                   80.49  40    67186.54              229.12
## 107                   72.23  25    46557.92              241.03
## 108                   42.39  42    66541.05              150.99
## 109                   47.53  30    33258.09              135.18
## 110                   74.02  32    72272.90              210.54
## 111                   66.63  60    60333.38              176.98
## 112                   63.24  53    65229.13              235.78
## 113                   71.00  22    56067.38              211.87
## 114                   46.13  46    37838.72              123.64
## 115                   69.00  32    72683.35              221.21
## 116                   76.99  31    56729.78              244.34
## 117                   72.60  55    66815.54              162.95
## 118                   61.88  42    60223.52              112.19
## 119                   84.45  50    29727.79              207.18
## 120                   88.97  45    49269.98              152.49
## 121                   86.19  31    57669.41              210.26
## 122                   49.58  26    56791.75              231.94
## 123                   77.65  27    63274.88              212.79
## 124                   37.75  36    35466.80              225.24
## 125                   62.33  43    68787.09              127.11
## 126                   79.57  31    61227.59              230.93
## 127                   80.31  44    56366.88              127.07
## 128                   89.05  45    57868.44              206.98
## 129                   70.41  27    66618.21              223.03
## 130                   67.36  37    73104.47              233.56
## 131                   46.98  50    21644.91              175.37
## 132                   41.67  36    53817.02              132.55
## 133                   51.24  36    76368.31              176.73
## 134                   75.70  29    67633.44              215.44
## 135                   43.49  47    50335.46              127.83
## 136                   49.89  39    17709.98              160.03
## 137                   38.37  36    41229.16              140.46
## 138                   38.52  38    42581.23              137.28
## 139                   71.89  23    61617.98              172.81
## 140                   75.80  38    70575.60              146.19
## 141                   83.86  31    64122.36              190.25
## 142                   37.51  30    52097.32              163.00
## 143                   55.60  44    65953.76              124.38
## 144                   83.67  44    60192.72              234.26
## 145                   69.08  41    77460.07              210.60
```

```
## 146                37.47  44    45716.48            141.89
## 147                56.04  49    65120.86            128.95
## 148                70.92  41    49995.63            108.16
## 149                49.78  46    71718.51            152.24
## 150                68.61  57    61770.34            150.29
## 151                58.18  25    69112.84            176.28
## 152                78.54  35    72524.86            172.10
## 153                37.00  48    36782.38            158.22
## 154                65.40  33    66699.12            247.31
## 155                79.52  27    64287.78            183.48
## 156                87.98  38    56637.59            222.11
## 157                44.64  36    55787.58            127.01
## 158                41.73  28    61142.33            202.18
## 159                80.46  27    61625.87            207.96
## 160                75.55  36    73234.87            159.24
## 161                76.32  35    74166.24            195.31
## 162                82.68  33    62669.59            222.77
## 163                72.01  31    57756.89            251.00
## 164                75.83  24    58019.64            162.44
## 165                41.28  50    50960.08            140.39
## 166                34.66  32    48246.60            194.83
## 167                66.18  55    28271.84            143.42
## 168                86.06  31    53767.12            219.72
## 169                59.59  42    43662.10            104.78
## 170                86.69  34    62238.58            198.56
## 171                43.77  52    49030.03            138.55
## 172                71.84  47    76003.47            199.79
## 173                80.23  31    68094.85            196.23
## 174                74.41  26    64395.85            163.05
## 175                63.36  48    70053.27            137.43
## 176                71.74  35    72423.97            227.56
## 177                60.72  44    42995.80            105.69
## 178                72.04  22    60309.58            199.43
## 179                44.57  31    38349.78            133.17
## 180                85.86  34    63115.34            208.23
## 181                39.85  38    31343.39            145.96
## 182                84.53  27    40763.13            168.34
## 183                62.95  60    36752.24            157.04
## 184                67.58  41    65044.59            255.61
## 185                85.56  29    53673.08            210.46
## 186                46.88  54    43444.86            136.64
## 187                46.31  57    44248.52            153.98
## 188                77.95  31    62572.88            233.65
## 189                84.73  30    39840.55            153.76
## 190                39.86  36    32593.59            145.85
## 191                50.08  30    41629.86            123.91
## 192                60.23  35    43313.73            106.86
## 193                60.70  49    42993.48            110.57
## 194                43.67  53    46004.31            143.79
## 195                77.20  33    49325.48            254.05
## 196                71.86  32    51633.34            116.53
## 197                44.78  45    63363.04            137.24
## 198                78.57  36    64045.93            239.32
## 199                73.41  31    73049.30            201.26
```

```
## 200                77.05  27    66624.60              191.14
## 201                66.40  40    77567.85              214.42
## 202                69.35  29    53431.35              252.77
## 203                35.65  40    31265.75              172.58
## 204                70.04  31    74780.74              183.85
## 205                69.78  29    70410.11              218.79
## 206                58.22  29    37345.24              120.90
## 207                76.90  28    66107.84              212.67
## 208                84.08  30    62336.39              187.36
## 209                59.51  58    39132.64              140.83
## 210                40.15  38    38745.29              134.88
## 211                76.81  28    65172.22              217.85
## 212                41.89  38    68519.96              163.38
## 213                76.87  27    54774.77              235.35
## 214                67.28  43    76246.96              155.80
## 215                81.98  40    65461.92              229.22
## 216                66.01  23    34127.21              151.95
## 217                61.57  53    35253.98              125.94
## 218                53.30  34    44893.71              111.94
## 219                34.87  40    59621.02              200.23
## 220                43.60  38    20856.54              170.49
## 221                77.88  37    55353.41              254.57
## 222                75.83  27    67516.07              200.59
## 223                49.95  39    68737.75              136.59
## 224                60.94  41    76893.84              154.97
## 225                89.15  42    59886.58              171.07
## 226                78.70  30    53441.69              133.99
## 227                57.35  29    41356.31              119.84
## 228                34.86  38    49942.66              154.75
## 229                70.68  31    74430.08              199.08
## 230                76.06  23    58633.63              201.04
## 231                66.67  33    72707.87              228.03
## 232                46.77  32    31092.93              136.40
## 233                62.42  38    74445.18              143.94
## 234                78.32  28    49309.14              239.52
## 235                37.32  50    56735.14              199.25
## 236                40.42  45    40183.75              133.90
## 237                76.77  36    58348.41              123.51
## 238                65.65  30    72209.99              158.05
## 239                74.32  33    62060.11              128.17
## 240                73.27  32    67113.46              234.75
## 241                80.03  44    24030.06              150.84
## 242                53.68  47    56180.93              115.26
## 243                85.84  32    62204.93              192.85
## 244                85.03  30    60372.64              204.52
## 245                70.44  24    65280.16              178.75
## 246                81.22  53    34309.24              223.09
## 247                39.96  45    59610.81              146.13
## 248                57.05  41    50278.89              269.96
## 249                42.44  56    43450.11              168.27
## 250                62.20  25    25408.21              161.16
## 251                76.70  36    71136.49              222.25
## 252                61.22  45    63883.81              119.03
## 253                84.54  33    64902.47              204.02
```

```
## 254                46.08  30    66784.81              164.63
## 255                56.70  48    62784.85              123.13
## 256                81.03  28    63727.50              201.15
## 257                80.91  32    61608.23              231.42
## 258                40.06  38    56782.18              138.68
## 259                83.47  39    64447.77              226.11
## 260                73.84  31    42042.95              121.05
## 261                74.65  28    67669.06              212.56
## 262                60.25  35    54875.95              109.77
## 263                59.21  35    73347.67              144.62
## 264                43.02  44    50199.77              125.22
## 265                84.04  38    50723.67              244.55
## 266                70.66  43    63450.96              120.95
## 267                70.58  26    56694.12              136.94
## 268                72.44  34    70547.16              230.14
## 269                40.17  26    47391.95              171.31
## 270                79.15  26    62312.23              203.23
## 271                44.49  53    63100.13              168.00
## 272                73.04  37    73687.50              221.79
## 273                76.28  33    52686.47              254.34
## 274                68.88  37    78119.50              179.58
## 275                73.10  28    57014.84              242.37
## 276                47.66  29    27086.40              156.54
## 277                87.30  35    58337.18              216.87
## 278                89.34  32    50216.01              177.78
## 279                81.37  26    53049.44              156.48
## 280                81.67  28    62927.96              196.76
## 281                46.37  52    32847.53              144.27
## 282                54.88  24    32006.82              148.61
## 283                40.67  35    48913.07              133.18
## 284                71.76  35    69285.69              237.39
## 285                47.51  51    53700.57              130.41
## 286                75.15  22    52011.00              212.87
## 287                56.01  26    46339.25              127.26
## 288                82.87  37    67938.77              213.36
## 289                45.05  42    66348.95              141.36
## 290                60.53  24    66873.90              167.22
## 291                50.52  31    72270.88              171.62
## 292                84.71  32    61610.05              210.23
## 293                55.20  39    76560.59              159.46
## 294                81.61  33    62667.51              228.76
## 295                71.55  36    75687.46              163.99
## 296                82.40  36    66744.65              218.97
## 297                73.95  35    67714.82              238.58
## 298                72.07  31    69710.51              226.45
## 299                80.39  31    66269.49              214.74
## 300                65.80  25    60843.32              231.49
## 301                69.97  28    55041.60              250.00
## 302                52.62  50    73863.25              176.52
## 303                39.25  39    62378.05              152.36
## 304                77.56  38    63336.85              130.83
## 305                33.52  43    42191.61              165.56
## 306                79.81  24    56194.56              178.85
## 307                84.79  33    61771.90              214.53
```

```
## 308                82.70  35    61383.79             231.07
## 309                84.88  32    63924.82             186.48
## 310                54.92  54    23975.35             161.16
## 311                76.56  34    70179.11             221.53
## 312                69.74  49    66524.80             243.37
## 313                75.55  22    41851.38             169.40
## 314                72.19  33    61275.18             250.35
## 315                84.29  41    60638.38             232.54
## 316                73.89  39    47160.53             110.68
## 317                75.84  21    48537.18             186.98
## 318                73.38  25    53058.91             236.19
## 319                80.72  31    68614.98             186.37
## 320                62.06  44    44174.25             105.00
## 321                51.50  34    67050.16             135.31
## 322                90.97  37    54520.14             180.77
## 323                86.78  30    54952.42             170.13
## 324                66.18  35    69476.42             243.61
## 325                84.33  41    54989.93             240.95
## 326                36.87  36    29398.61             195.91
## 327                34.78  48    42861.42             208.21
## 328                76.84  32    65883.39             231.59
## 329                67.05  25    65421.39             220.92
## 330                41.47  31    60953.93             219.79
## 331                80.71  26    58476.57             200.58
## 332                80.09  31    66636.84             214.08
## 333                56.30  49    67430.96             135.24
## 334                79.36  34    57260.41             245.78
## 335                86.38  40    66359.32             188.27
## 336                38.94  41    57587.00             142.67
## 337                87.26  35    63060.55             184.03
## 338                75.32  28    59998.50             233.60
## 339                74.38  40    74024.61             220.05
## 340                65.90  22    60550.66             211.39
## 341                36.31  47    57983.30             168.92
## 342                72.23  48    52736.33             115.35
## 343                88.12  38    46653.75             230.91
## 344                83.97  28    56986.73             205.50
## 345                61.09  26    55336.18             131.68
## 346                65.77  21    42162.90             218.61
## 347                81.58  25    39699.13             199.39
## 348                37.87  52    56394.82             188.56
## 349                76.20  37    75044.35             178.51
## 350                60.91  19    53309.61             184.94
## 351                74.49  28    58996.12             237.34
## 352                73.71  23    56605.12             211.38
## 353                78.19  30    62475.99             228.81
## 354                79.54  44    70492.60             217.68
## 355                74.87  52    43698.53             126.97
## 356                87.09  36    57737.51             221.98
## 357                37.45  47    31281.01             167.86
## 358                49.84  39    45800.48             111.59
## 359                51.38  59    42362.49             158.56
## 360                83.40  34    66691.23             207.87
## 361                38.91  33    56369.74             150.80
```

```
## 362  62.14  41  59397.89  110.93
## 363  79.72  28  66025.11  193.80
## 364  73.30  36  68211.35  135.72
## 365  69.11  42  73608.99  231.48
## 366  71.90  54  61228.96  140.15
## 367  72.45  29  72325.91  195.36
## 368  77.07  40  44559.43  261.02
## 369  74.62  36  73207.15  217.79
## 370  82.07  25  46722.07  205.38
## 371  58.60  50  45400.50  113.70
## 372  36.08  45  41417.27  151.47
## 373  79.44  26  60845.55  206.79
## 374  41.73  47  60812.77  144.71
## 375  73.19  25  64267.88  203.74
## 376  77.60  24  58151.87  197.33
## 377  89.00  37  52079.18  222.26
## 378  69.20  42  26023.99  123.80
## 379  67.56  31  62318.38  125.45
## 380  81.11  39  56216.57  248.19
## 381  80.22  30  61806.31  224.58
## 382  43.63  41  51662.24  123.25
## 383  77.66  29  67080.94  168.15
## 384  74.63  26  51975.41  235.99
## 385  49.67  27  28019.09  153.69
## 386  80.59  37  67744.56  224.23
## 387  83.49  33  66574.00  190.75
## 388  44.46  42  30487.48  132.66
## 389  68.10  40  74903.41  227.73
## 390  63.88  38  19991.72  136.85
## 391  78.83  36  66050.63  234.64
## 392  79.97  44  70449.04  216.00
## 393  80.51  28  64008.55  200.28
## 394  62.26  26  70203.74  202.77
## 395  66.99  47  27262.51  124.44
## 396  71.05  20  49544.41  204.22
## 397  42.05  51  28357.27  174.55
## 398  50.52  28  66929.03  219.69
## 399  76.24  40  75524.78  198.32
## 400  77.29  27  66265.34  201.24
## 401  35.98  47  55993.68  165.52
## 402  84.95  34  56379.30  230.36
## 403  39.34  43  31215.88  148.93
## 404  87.23  29  51015.11  202.12
## 405  57.24  52  46473.14  117.35
## 406  81.58  41  55479.62  248.16
## 407  56.34  50  68713.70  139.02
## 408  48.73  27  34191.23  142.04
## 409  51.68  49  51067.54  258.62
## 410  35.34  45  46693.76  152.86
## 411  48.09  33  19345.36  180.42
## 412  78.68  29  66225.72  208.05
## 413  68.82  20  38609.20  205.64
## 414  56.99  40  37713.23  108.15
## 415  86.63  39  63764.28  209.64
```

```
## 416                41.18  43    41866.55             129.25
## 417                71.03  32    57846.68             120.85
## 418                72.92  29    69428.73             217.10
## 419                77.14  24    60283.98             184.88
## 420                60.70  43    79332.33             192.60
## 421                34.30  41    53167.68             160.74
## 422                83.71  45    64564.07             220.48
## 423                53.38  35    60803.37             120.06
## 424                58.03  31    28387.42             129.33
## 425                43.59  36    58849.77             132.31
## 426                60.07  42    65963.37             120.75
## 427                54.43  37    75180.20             154.74
## 428                81.99  33    61270.14             230.90
## 429                60.53  29    56759.48             123.28
## 430                84.69  31    46160.63             231.85
## 431                88.72  32    43870.51             211.87
## 432                88.89  35    50439.49             218.80
## 433                69.58  43    28028.74             255.07
## 434                85.23  36    64238.71             212.92
## 435                83.55  39    65816.38             221.18
## 436                56.66  42    72684.44             139.42
## 437                56.39  27    38817.40             248.12
## 438                76.24  27    63976.44             214.42
## 439                57.64  36    37212.54             110.25
## 440                78.18  23    52691.79             167.67
## 441                46.04  32    65499.93             147.92
## 442                79.40  35    63966.72             236.87
## 443                36.44  39    52400.88             147.64
## 444                53.14  38    49111.47             109.00
## 445                32.84  40    41232.89             171.72
## 446                73.72  32    52140.04             256.40
## 447                38.10  34    60641.09             214.38
## 448                73.93  44    74180.05             218.22
## 449                51.87  50    51869.87             119.65
## 450                77.69  22    48852.58             169.88
## 451                43.41  28    59144.02             160.73
## 452                55.92  24    33951.63             145.08
## 453                80.67  34    58909.36             239.76
## 454                83.42  25    49850.52             183.42
## 455                82.12  52    28679.93             201.15
## 456                66.17  33    69869.66             238.45
## 457                43.01  35    48347.64             127.37
## 458                80.05  25    45959.86             219.94
## 459                64.88  42    70005.51             129.80
## 460                79.82  26    51512.66             223.28
## 461                48.03  40    25598.75             134.60
## 462                32.99  45    49282.87             177.46
## 463                74.88  27    67240.25             175.17
## 464                36.49  52    42136.33             196.61
## 465                88.04  45    62589.84             191.17
## 466                45.70  33    67384.31             151.12
## 467                82.38  35    25603.93             159.60
## 468                52.68  23    39616.00             149.20
## 469                65.59  47    28265.81             121.81
```

```
## 470  65.65  25  63879.72  224.92
## 471  43.84  36  70592.81  167.42
## 472  67.69  37  76408.19  216.57
## 473  78.37  24  55015.08  207.27
## 474  81.46  29  51636.12  231.54
## 475  47.48  31  29359.20  141.34
## 476  75.15  33  71296.67  219.49
## 477  78.76  24  46422.76  219.98
## 478  44.96  50  52802.00  132.71
## 479  39.56  41  59243.46  143.13
## 480  39.76  28  35350.55  196.83
## 481  57.11  22  59677.64  207.17
## 482  83.26  40  70225.60  187.76
## 483  69.42  25  65791.17  213.38
## 484  50.60  30  34191.13  129.88
## 485  46.20  37  51315.38  119.30
## 486  66.88  35  62790.96  119.47
## 487  83.97  40  66291.67  158.42
## 488  76.56  30  68030.18  213.75
## 489  35.49  48  43974.49  159.77
## 490  80.29  31  49457.48  244.87
## 491  50.19  40  33987.27  117.30
## 492  59.12  33  28210.03  124.54
## 493  59.88  30  75535.14  193.63
## 494  59.70  28  49158.50  120.25
## 495  67.80  30  39809.69  117.75
## 496  81.59  35  65826.53  223.16
## 497  81.10  29  61172.07  216.49
## 498  41.70  39  42898.21  126.95
## 499  73.94  27  68333.01  173.49
## 500  58.35  37  70232.95  132.63
## 501  51.56  46  63102.19  124.85
## 502  79.81  37  51847.26  253.17
## 503  66.17  26  63580.22  228.70
## 504  58.21  37  47575.44  105.94
## 505  66.12  49  39031.89  113.80
## 506  80.47  42  70505.06  215.18
## 507  77.05  31  62161.26  236.64
## 508  49.99  41  61068.26  121.07
## 509  80.30  58  49090.51  173.43
## 510  79.36  33  62330.75  234.72
## 511  57.86  30  18819.34  166.86
## 512  70.29  26  62053.37  231.37
## 513  84.53  33  61922.06  215.18
## 514  59.13  44  49525.37  106.04
## 515  81.51  41  53412.32  250.03
## 516  42.94  37  56681.65  130.40
## 517  84.81  32  43299.63  233.93
## 518  82.79  34  47997.75  132.08
## 519  59.22  55  39131.53  126.39
## 520  35.00  40  46033.73  151.25
## 521  46.61  42  65856.74  136.18
## 522  63.26  29  54787.37  120.46
## 523  79.16  32  69562.46  202.90
```

```
## 524                67.94  43    68447.17              128.16
## 525                79.91  32    62772.42              230.18
## 526                66.14  41    78092.95              165.27
## 527                43.65  39    63649.04              138.87
## 528                59.61  21    60637.62              198.45
## 529                46.61  52    27241.11              156.99
## 530                89.37  34    42760.22              162.03
## 531                65.10  49    59457.52              118.10
## 532                53.44  42    42907.89              108.17
## 533                79.53  51    46132.18              244.91
## 534                91.43  39    46964.11              209.91
## 535                73.57  30    70377.23              212.38
## 536                78.76  32    70012.83              208.02
## 537                76.49  23    56457.01              181.11
## 538                61.72  26    67279.06              218.49
## 539                84.53  35    54773.99              236.29
## 540                72.03  34    70783.94              230.95
## 541                77.47  36    70510.59              222.91
## 542                75.65  39    64021.55              247.90
## 543                78.15  33    72042.85              194.37
## 544                63.80  38    36037.33              108.70
## 545                76.59  29    67526.92              211.64
## 546                42.60  55    55121.65              168.29
## 547                78.77  28    63497.62              211.83
## 548                83.40  39    60879.48              235.01
## 549                79.53  33    61467.33              236.72
## 550                73.89  35    70495.64              229.99
## 551                75.80  36    71222.40              224.90
## 552                81.95  31    64698.58              208.76
## 553                56.39  58    32252.38              154.23
## 554                44.73  35    55316.97              127.56
## 555                38.35  33    47447.89              145.48
## 556                72.53  37    73474.82              223.93
## 557                56.20  49    53549.94              114.85
## 558                79.67  28    58576.12              226.79
## 559                75.42  26    63373.70              164.25
## 560                78.64  31    60283.47              235.28
## 561                67.69  44    37345.34              109.22
## 562                38.35  41    34886.01              144.69
## 563                59.52  44    67511.86              251.08
## 564                62.26  37    77988.71              166.19
## 565                64.75  36    63001.03              117.66
## 566                79.97  26    61747.98              185.45
## 567                47.90  42    48467.68              114.53
## 568                80.38  30    55130.96              238.06
## 569                64.51  42    79484.80              190.71
## 570                71.28  37    67307.43              246.72
## 571                50.32  40    27964.60              125.65
## 572                72.76  33    66431.87              240.63
## 573                72.80  35    63551.67              249.54
## 574                74.59  23    40135.06              158.35
## 575                46.66  45    49101.67              118.16
## 576                48.86  54    53188.69              134.46
## 577                37.05  39    49742.83              142.81
```

```
## 578  81.21  36  63394.41  233.04
## 579  66.89  23  64433.99  208.24
## 580  68.11  38  73884.48  231.21
## 581  69.15  46  36424.94  112.72
## 582  65.72  36  28275.48  120.12
## 583  40.04  27  48098.86  161.58
## 584  68.60  33  68448.94  135.08
## 585  56.16  25  66429.84  164.25
## 586  78.60  46  41768.13  254.59
## 587  78.29  38  57844.96  252.07
## 588  43.83  45  35684.82  129.01
## 589  77.31  32  62792.43  238.10
## 590  39.86  28  51171.23  161.24
## 591  66.77  25  58847.07  141.13
## 592  57.20  42  57739.03  110.66
## 593  73.15  25  64631.22  211.12
## 594  82.07  24  50337.93  193.97
## 595  49.84  38  67781.31  135.24
## 596  43.97  36  68863.95  156.97
## 597  77.25  27  55901.12  231.38
## 598  74.84  37  64775.10  246.44
## 599  83.53  36  67686.16  204.56
## 600  38.63  48  57777.11  222.11
## 601  84.00  48  46868.53  136.21
## 602  52.13  50  40926.93  118.27
## 603  71.83  40  22205.74  135.48
## 604  78.36  24  58920.44  196.77
## 605  50.18  35  63006.14  127.82
## 606  64.67  51  24316.61  138.35
## 607  69.50  26  68348.99  203.84
## 608  65.22  30  66263.37  240.09
## 609  62.06  40  63493.60  116.27
## 610  84.29  30  56984.09  160.33
## 611  32.91  37  51691.55  181.02
## 612  39.50  31  49911.25  148.19
## 613  75.19  31  33502.57  245.76
## 614  76.21  31  65834.97  228.94
## 615  67.76  31  66176.97  242.59
## 616  40.01  53  51463.17  161.77
## 617  52.70  41  41059.64  109.34
## 618  68.41  38  61428.18  259.76
## 619  35.55  39  51593.46  151.18
## 620  74.54  24  57518.73  219.75
## 621  81.75  24  52656.13  190.08
## 622  87.85  31  52178.98  210.27
## 623  60.23  60  46239.14  151.54
## 624  87.97  35  48918.55  149.25
## 625  78.17  27  65227.79  192.27
## 626  67.91  23  55002.05  146.80
## 627  85.77  27  52261.73  191.78
## 628  41.16  49  59448.44  150.83
## 629  53.54  39  47314.45  108.03
## 630  73.94  26  55411.06  236.15
## 631  63.43  29  66504.16  236.75
```

```
## 632                84.59  36    47169.14              241.80
## 633                70.13  31    70889.68              224.98
## 634                40.19  37    55358.88              136.99
## 635                58.95  55    56242.70              131.29
## 636                35.76  51    45522.44              195.07
## 637                59.36  49    46931.03              110.84
## 638                91.10  40    55499.69              198.13
## 639                61.04  41    75805.12              149.21
## 640                74.06  23    40345.49              225.99
## 641                64.63  45    15598.29              158.80
## 642                81.29  28    33239.20              219.72
## 643                76.07  36    68033.54              235.56
## 644                75.92  22    38427.66              182.65
## 645                78.35  46    53185.34              253.48
## 646                46.14  28    39723.97              137.97
## 647                44.33  41    43386.07              120.63
## 648                46.43  28    53922.43              137.20
## 649                66.04  27    71881.84              199.76
## 650                84.31  29    47139.21              225.87
## 651                83.66  38    68877.02              175.14
## 652                81.25  33    65186.58              222.35
## 653                85.26  32    55424.24              224.07
## 654                86.53  46    46500.11              233.36
## 655                76.44  26    58820.16              224.20
## 656                52.84  43    28495.21              122.31
## 657                85.24  31    61840.26              182.84
## 658                74.71  46    37908.29              258.06
## 659                82.95  39    69805.70              201.29
## 660                76.42  26    60315.19              223.16
## 661                42.04  49    67323.00              182.11
## 662                46.28  26    50055.33              228.78
## 663                48.26  50    43573.66              122.45
## 664                71.03  55    28186.65              150.77
## 665                81.37  33    66412.04              215.04
## 666                58.05  32    15879.10              195.54
## 667                75.00  29    63965.16              230.36
## 668                79.61  31    58342.63              235.97
## 669                52.56  31    33147.19              250.36
## 670                62.18  33    65899.68              126.44
## 671                77.89  26    64188.50              201.54
## 672                66.08  61    58966.22              184.23
## 673                89.21  33    44078.24              210.53
## 674                49.96  55    60968.62              151.94
## 675                77.44  28    65620.25              210.39
## 676                82.58  38    65496.78              225.23
## 677                39.36  29    52462.04              161.79
## 678                47.23  38    70582.55              149.80
## 679                87.85  34    51816.27              153.01
## 680                65.57  46    23410.75              130.86
## 681                78.01  26    62729.40              200.71
## 682                44.15  28    48867.67              141.96
## 683                43.57  36    50971.73              125.20
## 684                76.83  28    67990.84              192.81
## 685                42.06  34    43241.19              131.55
```

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## 686                76.27  27    60082.66              226.69
## 687                74.27  37    65180.97              247.05
## 688                73.27  28    67301.39              216.24
## 689                74.58  36    70701.31              230.52
## 690                77.50  28    60997.84              225.34
## 691                87.16  33    60805.93              197.15
## 692                87.16  37    50711.68              231.95
## 693                66.26  47    14548.06              179.04
## 694                65.15  29    41335.84              117.30
## 695                68.25  33    76480.16              198.86
## 696                73.49  38    67132.46              244.23
## 697                39.19  54    52581.16              173.05
## 698                80.15  25    55195.61              214.49
## 699                86.76  28    48679.54              189.91
## 700                73.88  29    63109.74              233.61
## 701                58.60  19    44490.09              197.93
## 702                69.77  54    57667.99              132.27
## 703                87.27  30    51824.01              204.27
## 704                77.65  28    66198.66              208.01
## 705                76.02  40    73174.19              219.55
## 706                78.84  26    56593.80              217.66
## 707                71.33  23    31072.44              169.40
## 708                81.90  41    66773.83              225.47
## 709                46.89  48    72553.94              176.78
## 710                77.80  57    43708.88              152.94
## 711                45.44  43    48453.55              119.27
## 712                69.96  31    73413.87              214.06
## 713                87.35  35    58114.30              158.29
## 714                49.42  53    45465.25              128.00
## 715                71.27  21    50147.72              216.03
## 716                49.19  38    61004.51              123.08
## 717                39.96  35    53898.89              138.52
## 718                85.01  29    59797.64              192.50
## 719                68.95  51    74623.27              185.85
## 720                67.59  45    58677.69              113.69
## 721                75.71  34    62109.80              246.06
## 722                43.07  36    60583.02              137.63
## 723                39.47  43    65576.05              163.48
## 724                48.22  40    73882.91              214.33
## 725                76.76  25    50468.36              230.77
## 726                78.74  27    51409.45              234.75
## 727                67.47  24    60514.05              225.05
## 728                81.17  30    57195.96              231.91
## 729                89.66  34    52802.58              171.23
## 730                79.60  28    56570.06              227.37
## 731                65.53  19    51049.47              190.17
## 732                61.87  35    66629.61              250.20
## 733                83.16  41    70185.06              194.95
## 734                44.11  41    43111.41              121.24
## 735                56.57  26    56435.60              131.98
## 736                83.91  29    53223.58              222.87
## 737                79.80  28    57179.91              229.88
## 738                71.23  52    41521.28              122.59
## 739                47.23  43    73538.09              210.87
```

```
## 740                82.37  30    63664.32              207.44
## 741                43.63  38    61757.12              135.25
## 742                70.90  28    71727.51              190.95
## 743                71.90  29    72203.96              193.29
## 744                62.12  37    50671.60              105.86
## 745                67.35  29    47510.42              118.69
## 746                57.99  50    62466.10              124.58
## 747                66.80  29    59683.16              248.51
## 748                49.13  32    41097.17              120.49
## 749                45.11  58    39799.73              195.69
## 750                54.35  42    76984.21              164.02
## 751                61.82  59    57877.15              151.93
## 752                77.75  31    59047.91              240.64
## 753                70.61  28    72154.68              190.12
## 754                82.72  31    65704.79              179.82
## 755                76.87  36    72948.76              212.59
## 756                65.07  34    73941.91              227.53
## 757                56.93  37    57887.64              111.80
## 758                48.86  35    62463.70              128.37
## 759                36.56  29    42838.29              195.89
## 760                85.73  32    43778.88              147.75
## 761                75.81  40    71157.05              229.19
## 762                72.94  31    74159.69              190.84
## 763                53.63  54    50333.72              126.29
## 764                52.35  25    33293.78              147.61
## 765                52.84  51    38641.20              121.57
## 766                51.58  33    49822.78              115.91
## 767                42.32  29    63891.29              187.09
## 768                55.04  42    43881.73              106.96
## 769                68.58  41    13996.50              171.54
## 770                85.54  27    48761.14              175.43
## 771                71.14  30    69758.31              224.82
## 772                64.38  19    52530.10              180.47
## 773                88.85  40    58363.12              213.96
## 774                66.79  60    60575.99              198.30
## 775                32.60  45    48206.04              185.47
## 776                43.88  54    31523.09              166.85
## 777                56.46  26    66187.58              151.63
## 778                72.18  30    69438.04              225.02
## 779                52.67  44    14775.50              191.26
## 780                80.55  35    68016.90              219.91
## 781                67.85  41    78520.99              202.70
## 782                75.55  36    31998.72              123.71
## 783                80.46  29    56909.30              230.78
## 784                82.69  29    61161.29              167.41
## 785                35.21  39    52340.10              154.00
## 786                36.37  40    47338.94              144.53
## 787                74.07  22    50950.24              165.43
## 788                59.96  33    77143.61              197.66
## 789                85.62  29    57032.36              195.68
## 790                40.88  33    48554.45              136.18
## 791                36.98  31    39552.49              167.87
## 792                35.49  47    36884.23              170.04
## 793                56.56  26    68783.45              204.47
```

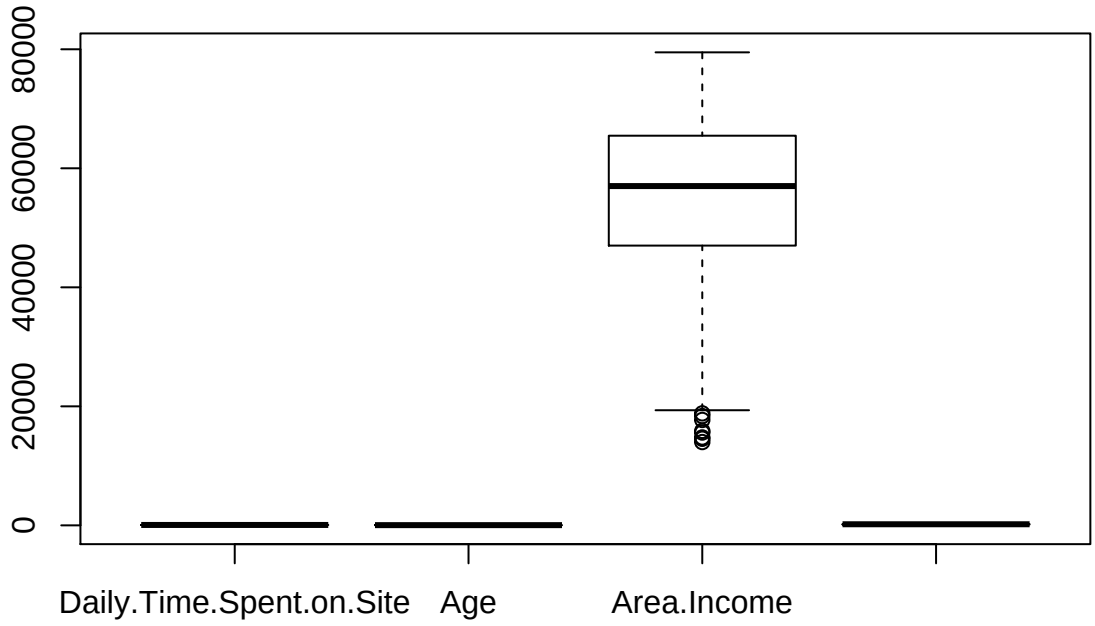
```
## 794                36.62  32    51119.93              162.44
## 795                49.35  49    44304.13              119.86
## 796                75.64  29    69718.19              204.82
## 797                79.22  27    63429.18              198.79
## 798                77.05  34    65756.36              236.08
## 799                66.83  46    77871.75              196.17
## 800                76.20  24    47258.59              228.81
## 801                56.64  29    55984.89              123.24
## 802                53.33  34    44275.13              111.63
## 803                50.63  50    25767.16              142.23
## 804                41.84  49    37605.11              139.32
## 805                53.92  41    25739.09              125.46
## 806                83.89  28    60188.38              180.88
## 807                55.32  43    67682.32              127.65
## 808                53.22  44    44307.18              108.85
## 809                43.16  35    25371.52              156.11
## 810                67.51  43    23942.61              127.20
## 811                43.16  29    50666.50              143.04
## 812                79.89  30    50356.06              241.38
## 813                84.25  32    63936.50              170.90
## 814                74.18  28    69874.18              203.87
## 815                85.78  34    50038.65              232.78
## 816                80.96  39    67866.95              225.00
## 817                36.91  48    54645.20              159.69
## 818                54.47  23    46780.09              141.52
## 819                81.98  34    67432.49              212.88
## 820                79.60  39    73392.28              194.23
## 821                57.51  38    47682.28              105.71
## 822                82.30  31    56735.83              232.21
## 823                73.21  30    51013.37              252.60
## 824                79.09  32    69481.85              209.72
## 825                68.47  28    67033.34              226.64
## 826                83.69  36    68717.00              192.57
## 827                83.48  31    59340.99              222.72
## 828                43.49  45    47968.32              124.67
## 829                66.69  35    48758.92              108.27
## 830                48.46  49    61230.03              132.38
## 831                42.51  30    54755.71              144.77
## 832                42.83  34    54324.73              132.38
## 833                41.46  42    52177.40              128.98
## 834                45.99  33    51163.14              124.61
## 835                68.72  27    66861.67              225.97
## 836                63.11  34    63107.88              254.94
## 837                49.21  46    49206.40              115.60
## 838                55.77  49    55942.04              117.33
## 839                44.13  40    33601.84              128.48
## 840                57.82  46    48867.36              107.56
## 841                72.46  40    56683.32              113.53
## 842                61.88  45    38260.89              108.18
## 843                78.24  23    54106.21              199.29
## 844                74.61  38    71055.22              231.28
## 845                89.18  37    46403.18              224.01
## 846                44.16  42    61690.93              133.42
## 847                55.74  37    26130.93              124.34
```

```
## 848  88.82  36  58638.75  169.10
## 849  70.39  32  47357.39  261.52
## 850  59.05  52  50086.17  118.45
## 851  78.58  33  51772.58  250.11
## 852  35.11  35  47638.30  158.03
## 853  60.39  45  38987.42  108.25
## 854  81.56  26  51363.16  213.70
## 855  75.03  34  35764.49  255.57
## 856  50.87  24  62939.50  190.41
## 857  82.80  30  58776.67  223.20
## 858  78.51  25  59106.12  205.71
## 859  37.65  51  50457.01  161.29
## 860  83.17  43  54251.78  244.40
## 861  91.37  45  51920.49  182.65
## 862  68.25  29  70324.80  220.08
## 863  81.32  25  52416.18  165.65
## 864  76.64  39  66217.31  241.50
## 865  74.06  50  60938.73  246.29
## 866  39.53  33  40243.82  142.21
## 867  86.58  32  60151.77  195.93
## 868  90.75  40  45945.88  216.50
## 869  67.71  25  63430.33  225.76
## 870  82.41  36  65882.81  222.08
## 871  45.82  27  64410.80  171.24
## 872  76.79  27  55677.12  235.94
## 873  70.05  33  75560.65  203.44
## 874  72.19  32  61067.58  250.32
## 875  77.35  34  72330.57  167.26
## 876  40.34  29  32549.95  173.75
## 877  67.39  44  51257.26  107.19
## 878  68.68  34  77220.42  187.03
## 879  81.75  43  52520.75  249.45
## 880  66.03  22  59422.47  217.37
## 881  47.74  33  22456.04  154.93
## 882  79.18  31  58443.99  236.96
## 883  86.81  29  50820.74  199.62
## 884  41.53  42  67575.12  158.81
## 885  70.92  39  66522.79  249.81
## 886  46.84  45  34903.67  123.22
## 887  44.40  53  43073.78  140.95
## 888  52.17  44  57594.70  115.37
## 889  81.45  31  66027.31  205.84
## 890  54.08  36  53012.94  111.02
## 891  76.65  31  61117.50  238.43
## 892  54.39  20  52563.22  171.90
## 893  37.74  40  65773.49  190.95
## 894  69.86  25  50506.44  241.36
## 895  85.37  36  66262.59  194.56
## 896  80.99  26  35521.88  207.53
## 897  78.84  32  62430.55  235.29
## 898  77.36  41  49597.08  115.79
## 899  55.46  37  42078.89  108.10
## 900  35.66  45  46197.59  151.72
## 901  50.78  51  49957.00  122.04
```

```
## 902                40.47  38    24078.93            203.90
## 903                45.62  43    53647.81            121.28
## 904                84.76  30    61039.13            178.69
## 905                80.64  26    46974.15            221.59
## 906                75.94  27    53042.51            236.96
## 907                37.01  50    48826.14            216.01
## 908                87.18  31    58287.86            193.60
## 909                56.91  50    21773.22            146.44
## 910                75.24  24    52252.91            226.49
## 911                42.84  52    27073.27            182.20
## 912                67.56  47    50628.31            109.98
## 913                34.96  42    36913.51            160.49
## 914                87.46  37    61009.10            211.56
## 915                41.86  39    53041.77            128.62
## 916                34.04  34    40182.84            174.88
## 917                54.96  42    59419.78            113.75
## 918                87.14  31    58235.21            199.40
## 919                78.79  32    68324.48            215.29
## 920                65.56  25    69646.35            181.25
## 921                81.05  34    54045.39            245.50
## 922                55.71  37    57806.03            112.52
## 923                45.48  49    53336.76            129.16
## 924                47.00  56    50491.45            149.53
## 925                59.64  51    71455.62            153.12
## 926                35.98  45    43241.88            150.79
## 927                72.55  22    58953.01            202.34
## 928                91.15  38    36834.04            184.98
## 929                80.53  29    66345.10            187.64
## 930                82.49  45    38645.40            130.84
## 931                80.94  36    60803.00            239.94
## 932                61.76  34    33553.90            114.69
## 933                63.30  38    63071.34            116.19
## 934                36.73  34    46737.34            149.79
## 935                78.41  33    55368.67            248.23
## 936                83.98  36    68305.91            194.62
## 937                63.18  45    39211.49            107.92
## 938                50.60  48    65956.71            135.67
## 939                32.60  38    40159.20            190.05
## 940                60.83  19    40478.83            185.46
## 941                44.72  46    40468.53            123.86
## 942                78.76  51    66980.27            162.05
## 943                79.51  39    34942.26            125.11
## 944                39.30  32    48335.20            145.73
## 945                64.79  30    42251.59            116.07
## 946                89.80  36    57330.43            198.24
## 947                72.82  34    75769.82            191.82
## 948                38.65  31    51812.71            154.77
## 949                59.01  30    75265.96            178.75
## 950                78.96  50    69868.48            193.15
## 951                63.99  43    72802.42            138.46
## 952                41.35  27    39193.45            162.46
## 953                62.79  36    18368.57            231.87
## 954                45.53  29    56129.89            141.58
## 955                51.65  31    58996.56            249.99
```

```
## 956                    54.55  44    41547.62             109.04
## 957                    35.66  36    59240.24             172.57
## 958                    69.95  28    56725.47             247.01
## 959                    79.83  29    55764.43             234.23
## 960                    85.35  37    64235.51             161.42
## 961                    56.78  28    39939.39             124.32
## 962                    78.67  26    63319.99             195.56
## 963                    70.09  21    54725.87             211.17
## 964                    60.75  42    69775.75             247.05
## 965                    65.07  24    57545.56             233.85
## 966                    35.25  50    47051.02             194.44
## 967                    37.58  52    51600.47             176.70
## 968                    68.01  25    68357.96             188.32
## 969                    45.08  38    35349.26             125.27
## 970                    63.04  27    69784.85             159.05
## 971                    40.18  29    50760.23             151.96
## 972                    45.17  48    34418.09             132.07
## 973                    50.48  50    20592.99             162.43
## 974                    80.87  28    63528.80             203.30
## 975                    41.88  40    44217.68             126.11
## 976                    39.87  48    47929.83             139.34
## 977                    61.84  45    46024.29             105.63
## 978                    54.97  31    51900.03             116.38
## 979                    71.40  30    72188.90             166.31
## 980                    70.29  31    56974.51             254.65
## 981                    67.26  57    25682.65             168.41
## 982                    76.58  46    41884.64             258.26
## 983                    54.37  38    72196.29             140.77
## 984                    82.79  32    54429.17             234.81
## 985                    66.47  31    58037.66             256.39
## 986                    72.88  44    64011.26             125.12
## 987                    76.44  28    59967.19             232.68
## 988                    63.37  43    43155.19             105.04
## 989                    89.71  48    51501.38             204.40
## 990                    70.96  31    55187.85             256.40
## 991                    35.79  44    33813.08             165.62
## 992                    38.96  38    36497.22             140.67
## 993                    69.17  40    66193.81             123.62
## 994                    64.20  27    66200.96             227.63
## 995                    43.70  28    63126.96             173.01
## 996                    72.97  30    71384.57             208.58
## 997                    51.30  45    67782.17             134.42
## 998                    51.63  51    42415.72             120.37
## 999                    55.55  19    41920.79             187.95
## 1000                   45.01  26    29875.80             178.35
```

```
boxplot(num_cols)
```



Outliers are present in the Area.Income. We can investigate further using the IQR test to see how to handle the outliers.

IQR

```
area_income <- adverts[, c("Area.Income")]
area_income
```

```
##    [1] 61833.90 68441.85 59785.94 54806.18 73889.99 59761.56 53852.85 24593.33
##    [9] 68862.00 55642.32 45632.51 62491.01 51636.92 51739.63 30976.00 52182.23
##   [17] 23936.86 71511.08 31087.54 23821.72 64802.33 60015.57 32635.70 61628.72
##   [25] 68962.32 64828.00 38067.08 58295.82 32708.94 46179.97 51473.28 45593.93
##   [33] 25583.29 30227.98 45580.92 61389.50 56770.79 76435.30 57425.87 27508.41
##   [41] 57691.95 59784.18 66572.39 64929.61 57519.64 53575.48 50983.75 67058.72
##   [49] 52723.34 54286.10 61526.25 58526.04 53350.11 62657.53 62722.57 67479.62
##   [57] 75254.88 52336.64 56113.37 24852.90 47708.42 64654.66 71228.44 61601.05
##   [65] 66281.46 73910.90 51317.33 51510.18 61005.87 32536.98 60248.97 74543.81
##   [73] 75509.61 42650.32 58183.04 60465.72 57009.76 54541.56 32689.04 55605.92
##   [81] 63296.87 65653.47 61652.53 30726.26 74535.94 47861.93 73600.28 58543.94
##   [89] 42696.67 37334.78 71392.53 59550.05 64264.25 64147.86 25686.34 52968.22
##   [97] 22473.08 64927.19 51868.85 69456.83 31947.65 51864.77 59593.56 48376.14
##  [105] 56884.74 67186.54 46557.92 66541.05 33258.09 72272.90 60333.38 65229.13
##  [113] 56067.38 37838.72 72683.35 56729.78 66815.54 60223.52 29727.79 49269.98
##  [121] 57669.41 56791.75 63274.88 35466.80 68787.09 61227.59 56366.88 57868.44
##  [129] 66618.21 73104.47 21644.91 53817.02 76368.31 67633.44 50335.46 17709.98
##  [137] 41229.16 42581.23 61617.98 70575.60 64122.36 52097.32 65953.76 60192.72
```

```
##  [145] 77460.07 45716.48 65120.86 49995.63 71718.51 61770.34 69112.84 72524.86
##  [153] 36782.38 66699.12 64287.78 56637.59 55787.58 61142.33 61625.87 73234.87
##  [161] 74166.24 62669.59 57756.89 58019.64 50960.08 48246.60 28271.84 53767.12
##  [169] 43662.10 62238.58 49030.03 76003.47 68094.85 64395.85 70053.27 72423.97
##  [177] 42995.80 60309.58 38349.78 63115.34 31343.39 40763.13 36752.24 65044.59
##  [185] 53673.08 43444.86 44248.52 62572.88 39840.55 32593.59 41629.86 43313.73
##  [193] 42993.48 46004.31 49325.48 51633.34 63363.04 64045.93 73049.30 66624.60
##  [201] 77567.85 53431.35 31265.75 74780.74 70410.11 37345.24 66107.84 62336.39
##  [209] 39132.64 38745.29 65172.22 68519.96 54774.77 76246.96 65461.92 34127.21
##  [217] 35253.98 44893.71 59621.02 20856.54 55353.41 67516.07 68737.75 76893.84
##  [225] 59886.58 53441.69 41356.31 49942.66 74430.08 58633.63 72707.87 31092.93
##  [233] 74445.18 49309.14 56735.14 40183.75 58348.41 72209.99 62060.11 67113.46
##  [241] 24030.06 56180.93 62204.93 60372.64 65280.16 34309.24 59610.81 50278.89
##  [249] 43450.11 25408.21 71136.49 63883.81 64902.47 66784.81 62784.85 63727.50
##  [257] 61608.23 56782.18 64447.77 42042.95 67669.06 54875.95 73347.67 50199.77
##  [265] 50723.67 63450.96 56694.12 70547.16 47391.95 62312.23 63100.13 73687.50
##  [273] 52686.47 78119.50 57014.84 27086.40 58337.18 50216.01 53049.44 62927.96
##  [281] 32847.53 32006.82 48913.07 69285.69 53700.57 52011.00 46339.25 67938.77
##  [289] 66348.95 66873.90 72270.88 61610.05 76560.59 62667.51 75687.46 66744.65
##  [297] 67714.82 69710.51 66269.49 60843.32 55041.60 73863.25 62378.05 63336.85
##  [305] 42191.61 56194.56 61771.90 61383.79 63924.82 23975.35 70179.11 66524.80
##  [313] 41851.38 61275.18 60638.38 47160.53 48537.18 53058.91 68614.98 44174.25
##  [321] 67050.16 54520.14 54952.42 69476.42 54989.93 29398.61 42861.42 65883.39
##  [329] 65421.39 60953.93 58476.57 66636.84 67430.96 57260.41 66359.32 57587.00
##  [337] 63060.55 59998.50 74024.61 60550.66 57983.30 52736.33 46653.75 56986.73
##  [345] 55336.18 42162.90 39699.13 56394.82 75044.35 53309.61 58996.12 56605.12
##  [353] 62475.99 70492.60 43698.53 57737.51 31281.01 45800.48 42362.49 66691.23
##  [361] 56369.74 59397.89 66025.11 68211.35 73608.99 61228.96 72325.91 44559.43
##  [369] 73207.15 46722.07 45400.50 41417.27 60845.55 60812.77 64267.88 58151.87
##  [377] 52079.18 26023.99 62318.38 56216.57 61806.31 51662.24 67080.94 51975.41
##  [385] 28019.09 67744.56 66574.00 30487.48 74903.41 19991.72 66050.63 70449.04
##  [393] 64008.55 70203.74 27262.51 49544.41 28357.27 66929.03 75524.78 66265.34
##  [401] 55993.68 56379.30 31215.88 51015.11 46473.14 55479.62 68713.70 34191.23
##  [409] 51067.54 46693.76 19345.36 66225.72 38609.20 37713.23 63764.28 41866.55
##  [417] 57846.68 69428.73 60283.98 79332.33 53167.68 64564.07 60803.37 28387.42
##  [425] 58849.77 65963.37 75180.20 61270.14 56759.48 46160.63 43870.51 50439.49
##  [433] 28028.74 64238.71 65816.38 72684.44 38817.40 63976.44 37212.54 52691.79
##  [441] 65499.93 63966.72 52400.88 49111.47 41232.89 52140.04 60641.09 74180.05
##  [449] 51869.87 48852.58 59144.02 33951.63 58909.36 49850.52 28679.93 69869.66
##  [457] 48347.64 45959.86 70005.51 51512.66 25598.75 49282.87 67240.25 42136.33
##  [465] 62589.84 67384.31 25603.93 39616.00 28265.81 63879.72 70592.81 76408.19
##  [473] 55015.08 51636.12 29359.20 71296.67 46422.76 52802.00 59243.46 35350.55
##  [481] 59677.64 70225.60 65791.17 34191.13 51315.38 62790.96 66291.67 68030.18
##  [489] 43974.49 49457.48 33987.27 28210.03 75535.14 49158.50 39809.69 65826.53
##  [497] 61172.07 42898.21 68333.01 70232.95 63102.19 51847.26 63580.22 47575.44
##  [505] 39031.89 70505.06 62161.26 61068.26 49090.51 62330.75 18819.34 62053.37
##  [513] 61922.06 49525.37 53412.32 56681.65 43299.63 47997.75 39131.53 46033.73
##  [521] 65856.74 54787.37 69562.46 68447.17 62772.42 78092.95 63649.04 60637.62
##  [529] 27241.11 42760.22 59457.52 42907.89 46132.18 46964.11 70377.23 70012.83
##  [537] 56457.01 67279.06 54773.99 70783.94 70510.59 64021.55 72042.85 36037.33
##  [545] 67526.92 55121.65 63497.62 60879.48 61467.33 70495.64 71222.40 64698.58
##  [553] 32252.38 55316.97 47447.89 73474.82 53549.94 58576.12 63373.70 60283.47
##  [561] 37345.34 34886.01 67511.86 77988.71 63001.03 61747.98 48467.68 55130.96
##  [569] 79484.80 67307.43 27964.60 66431.87 63551.67 40135.06 49101.67 53188.69
```

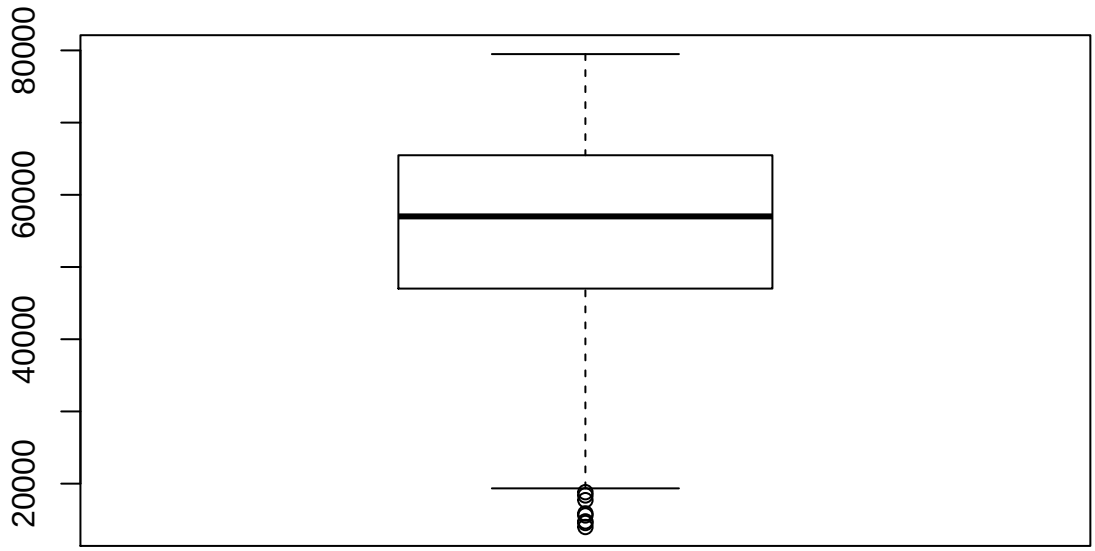
```
##  [577] 49742.83 63394.41 64433.99 73884.48 36424.94 28275.48 48098.86 68448.94
##  [585] 66429.84 41768.13 57844.96 35684.82 62792.43 51171.23 58847.07 57739.03
##  [593] 64631.22 50337.93 67781.31 68863.95 55901.12 64775.10 67686.16 57777.11
##  [601] 46868.53 40926.93 22205.74 58920.44 63006.14 24316.61 68348.99 66263.37
##  [609] 63493.60 56984.09 51691.55 49911.25 33502.57 65834.97 66176.97 51463.17
##  [617] 41059.64 61428.18 51593.46 57518.73 52656.13 52178.98 46239.14 48918.55
##  [625] 65227.79 55002.05 52261.73 59448.44 47314.45 55411.06 66504.16 47169.14
##  [633] 70889.68 55358.88 56242.70 45522.44 46931.03 55499.69 75805.12 40345.49
##  [641] 15598.29 33239.20 68033.54 38427.66 53185.34 39723.97 43386.07 53922.43
##  [649] 71881.84 47139.21 68877.02 65186.58 55424.24 46500.11 58820.16 28495.21
##  [657] 61840.26 37908.29 69805.70 60315.19 67323.00 50055.33 43573.66 28186.65
##  [665] 66412.04 15879.10 63965.16 58342.63 33147.19 65899.68 64188.50 58966.22
##  [673] 44078.24 60968.62 65620.25 65496.78 52462.04 70582.55 51816.27 23410.75
##  [681] 62729.40 48867.67 50971.73 67990.84 43241.19 60082.66 65180.97 67301.39
##  [689] 70701.31 60997.84 60805.93 50711.68 14548.06 41335.84 76480.16 67132.46
##  [697] 52581.16 55195.61 48679.54 63109.74 44490.09 57667.99 51824.01 66198.66
##  [705] 73174.19 56593.80 31072.44 66773.83 72553.94 43708.88 48453.55 73413.87
##  [713] 58114.30 45465.25 50147.72 61004.51 53898.89 59797.64 74623.27 58677.69
##  [721] 62109.80 60583.02 65576.05 73882.91 50468.36 51409.45 60514.05 57195.96
##  [729] 52802.58 56570.06 51049.47 66629.61 70185.06 43111.41 56435.60 53223.58
##  [737] 57179.91 41521.28 73538.09 63664.32 61757.12 71727.51 72203.96 50671.60
##  [745] 47510.42 62466.10 59683.16 41097.17 39799.73 76984.21 57877.15 59047.91
##  [753] 72154.68 65704.79 72948.76 73941.91 57887.64 62463.70 42838.29 43778.88
##  [761] 71157.05 74159.69 50333.72 33293.78 38641.20 49822.78 63891.29 43881.73
##  [769] 13996.50 48761.14 69758.31 52530.10 58363.12 60575.99 48206.04 31523.09
##  [777] 66187.58 69438.04 14775.50 68016.90 78520.99 31998.72 56909.30 61161.29
##  [785] 52340.10 47338.94 50950.24 77143.61 57032.36 48554.45 39552.49 36884.23
##  [793] 68783.45 51119.93 44304.13 69718.19 63429.18 65756.36 77871.75 47258.59
##  [801] 55984.89 44275.13 25767.16 37605.11 25739.09 60188.38 67682.32 44307.18
##  [809] 25371.52 23942.61 50666.50 50356.06 63936.50 69874.18 50038.65 67866.95
##  [817] 54645.20 46780.09 67432.49 73392.28 47682.28 56735.83 51013.37 69481.85
##  [825] 67033.34 68717.00 59340.99 47968.32 48758.92 61230.03 54755.71 54324.73
##  [833] 52177.40 51163.14 66861.67 63107.88 49206.40 55942.04 33601.84 48867.36
##  [841] 56683.32 38260.89 54106.21 71055.22 46403.18 61690.93 26130.93 58638.75
##  [849] 47357.39 50086.17 51772.58 47638.30 38987.42 51363.16 35764.49 62939.50
##  [857] 58776.67 59106.12 50457.01 54251.78 51920.49 70324.80 52416.18 66217.31
##  [865] 60938.73 40243.82 60151.77 45945.88 63430.33 65882.81 64410.80 55677.12
##  [873] 75560.65 61067.58 72330.57 32549.95 51257.26 77220.42 52520.75 59422.47
##  [881] 22456.04 58443.99 50820.74 67575.12 66522.79 34903.67 43073.78 57594.70
##  [889] 66027.31 53012.94 61117.50 52563.22 65773.49 50506.44 66262.59 35521.88
##  [897] 62430.55 49597.08 42078.89 46197.59 49957.00 24078.93 53647.81 61039.13
##  [905] 46974.15 53042.51 48826.14 58287.86 21773.22 52252.91 27073.27 50628.31
##  [913] 36913.51 61009.10 53041.77 40182.84 59419.78 58235.21 68324.48 69646.35
##  [921] 54045.39 57806.03 53336.76 50491.45 71455.62 43241.88 58953.01 36834.04
##  [929] 66345.10 38645.40 60803.00 33553.90 63071.34 46737.34 55368.67 68305.91
##  [937] 39211.49 65956.71 40159.20 40478.83 40468.53 66980.27 34942.26 48335.20
##  [945] 42251.59 57330.43 75769.82 51812.71 75265.96 69868.48 72802.42 39193.45
##  [953] 18368.57 56129.89 58996.56 41547.62 59240.24 56725.47 55764.43 64235.51
##  [961] 39939.39 63319.99 54725.87 69775.75 57545.56 47051.02 51600.47 68357.96
##  [969] 35349.26 69784.85 50760.23 34418.09 20592.99 63528.80 44217.68 47929.83
##  [977] 46024.29 51900.03 72188.90 56974.51 25682.65 41884.64 72196.29 54429.17
##  [985] 58037.66 64011.26 59967.19 43155.19 51501.38 55187.85 33813.08 36497.22
##  [993] 66193.81 66200.96 63126.96 71384.57 67782.17 42415.72 41920.79 29875.80
```

```
iqr_AI <- IQR(area_income)
iqr_AI
```

```
## [1] 18438.83
```

Visualizing the column using boxplot

```
boxplot(area_income)
```



Discarding the Outliers

```
summary(area_income)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   13996   47032   57012   55000   65471   79485
```

We will use the 1st quartile to set the benchmark for the minimum value.

```
benchmark <- 47032 - 1.5*18438.8325
benchmark
```

```
## [1] 19373.75
```

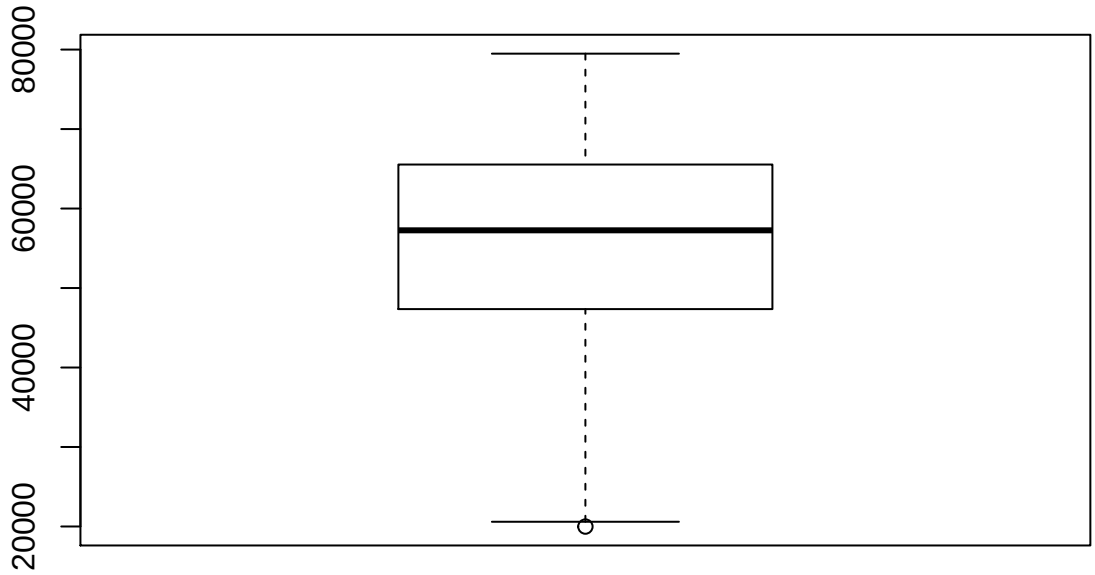
Our benchmark value is set. Any value below the value will be considered an outlier and so it will be discarded from the dataset.

```
area_income <- area_income[area_income > benchmark]

summary(area_income)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   19992   47348   57260   55349   65538   79485
```

```
boxplot(area_income)
```



The outliers have been effectively discarded.

UNIFORMITY

Changing TimeStamp variable to Date type. We first split the variable into two columns: DATE and TIME Then we apply the as.Date() function to change the datatypes to Date and as.Time() Let us remind ourselves of the dataset

```
head(adverts)
```

```
##   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
```

To load the package we need for the process of splitting the column and changing the data type.

```
library(tidyr)
```

TIMESTAMP

Splitting the column into Date and Time

```
adverts_2 <- separate(data = adverts, col = Timestamp, into = c("Date", "Time"), sep = " ")
head(adverts_2)
```

```
##   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
##         Date     Time 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
```

Let us check the datatypes of the new columns

```
str(adverts_2)
```

```
## 'data.frame':    1000 obs. of  11 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           : Factor w/ 1000 levels "Adaptive 24hour Graphic Interface",..: 92 465 567
##  $ City                    : Factor w/ 969 levels "Adamsbury","Adamside",..: 962 904 112 940 806 283
##  $ Male                    : int  0 1 0 1 0 1 0 1 1 1 ...
##  $ Country                 : Factor w/ 237 levels "Afghanistan",..: 216 148 185 104 97 159 146 13 83
##  $ Date                    : chr  "2016-03-27" "2016-04-04" "2016-03-13" "2016-01-10" ...
##  $ Time                    : chr  "00:53:11" "01:39:02" "20:35:42" "02:31:19" ...
##  $ Clicked.on.Ad           : int  0 0 0 0 0 0 0 1 0 0 ...
```

Changing the datatype to Date and Time

```
adverts_2$Date <- as.Date(adverts_2$Date, format = "%Y-%m-%d")

adverts_2$Time <- as.Date(adverts_2$Time, format = "%h-%m-$s")
```

MALE, CLICKED ON AD, CITY, COUNTRY AND AD TOPIC LINE

We change the first two variables into factor as they are categorical variables and the 3 into characters

```
#changing the datatypes into factors
adverts_2$Male <- as.factor(adverts_2$Male)
adverts_2$Clicked.on.Ad <- as.factor(adverts_2$Clicked.on.Ad)

#changing datatypes into characters
adverts_2$City <- as.character(adverts_2$City)
adverts_2$Country <- as.character(adverts_2$Country)
adverts_2$Ad.Topic.Line <- as.character(adverts_2$Ad.Topic.Line)

str(adverts_2)
```

```
## 'data.frame':    1000 obs. of  11 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" ...
##  $ Date                    : Date, format: "2016-03-27" "2016-04-04" ...
##  $ Time                    : Date, format: NA NA ...
##  $ Clicked.on.Ad           : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 1 ...
```

UNIVARIATE ANALYSIS

This is the analysis and visualization of individual variables of a dataset.

Daily.Time.Spent.on.Site

First, let us get the measures of dispersion and central tendencies

Measures of Central Tendencies

```
#getting the artithmetic mean of the variable
mean_1 <- mean(adverts_2$Daily.Time.Spent.on.Site)
mean_1
```

```
## [1] 65.0002
```

```
#getting the median of the variable
meadian_1 <- median(adverts_2$Daily.Time.Spent.on.Site)
meadian_1
```

```
## [1] 68.215
```

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

mode_1 <- getmode(adverts_2$Daily.Time.Spent.on.Site)
mode_1
```

```
## [1] 62.26
```

Measures of Dispersion

```
#Getting the minimum value of the variable
min_1 <- min(adverts_2$Daily.Time.Spent.on.Site)
min_1
```

```
## [1] 32.6
```

```
#getting the maximum value of the variable
max_1 <- max(adverts_2$Daily.Time.Spent.on.Site)
max_1
```

```
## [1] 91.43
```

```r
#Getting thw range of the variable
range_1 <- range(adverts_2$Daily.Time.Spent.on.Site)
range_1
```

```
## [1] 32.60 91.43
```

```r
#getting the quantiles of the variable
quantiles_1 <- quantile(adverts_2$Daily.Time.Spent.on.Site)
quantiles_1
```

```
##      0%     25%     50%     75%    100%
## 32.6000 51.3600 68.2150 78.5475 91.4300
```

```r
#getting the  variable of the varibale
var_1 <- var(adverts_2$Daily.Time.Spent.on.Site)
var_1
```

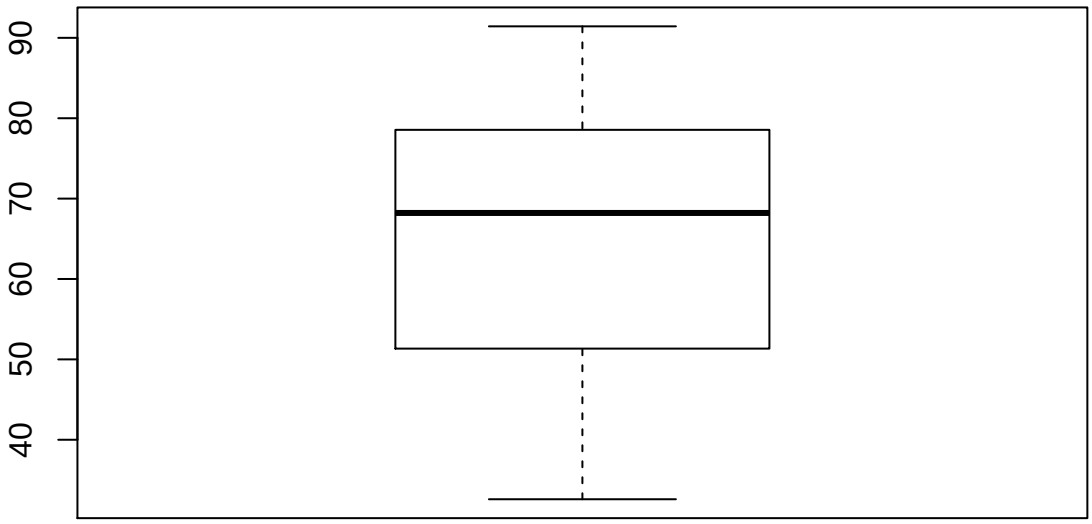
```
## [1] 251.3371
```

```r
#getting the standard deviation of the variable
std_1 <- sd(adverts_2$Daily.Time.Spent.on.Site)
std_1
```

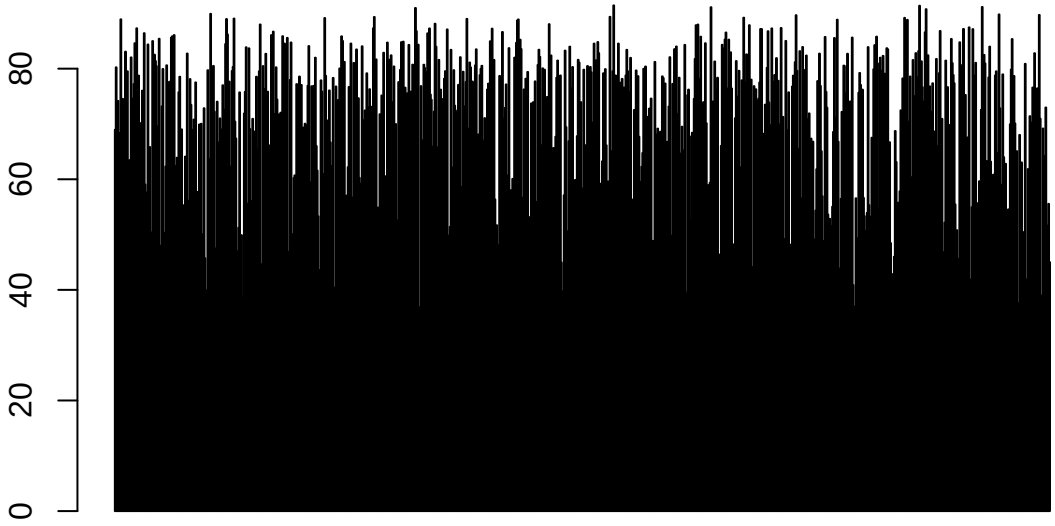
```
## [1] 15.85361
```

Visualizations

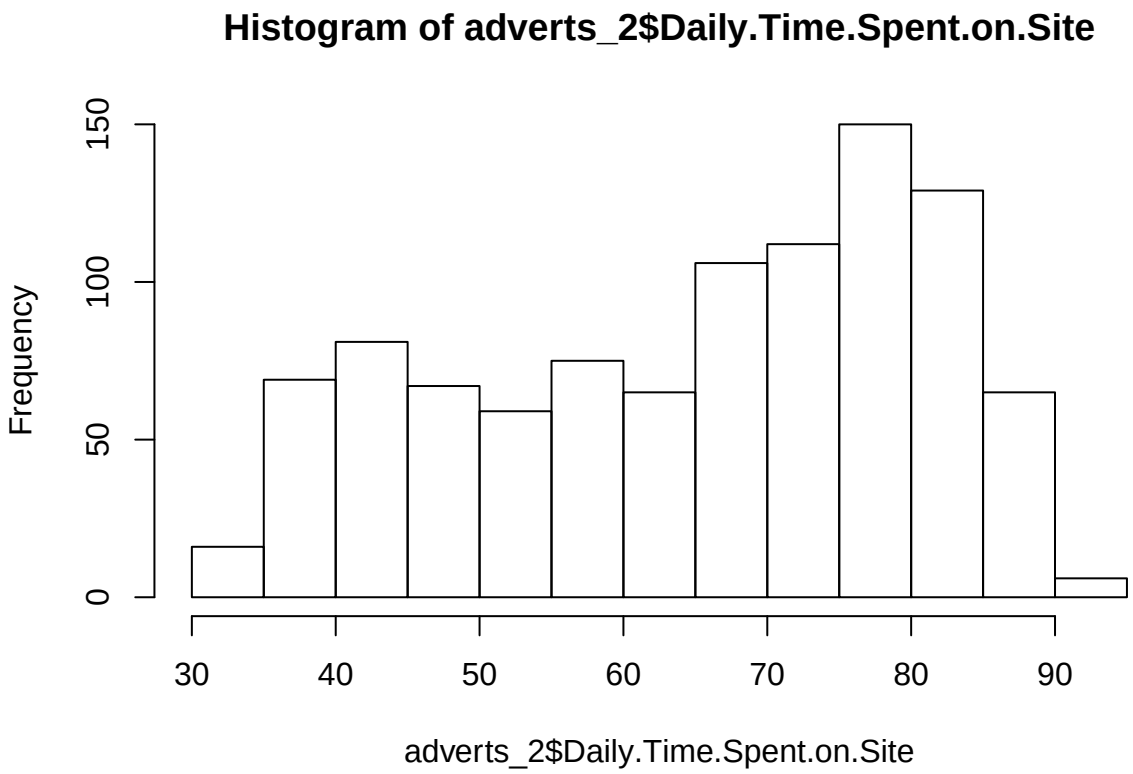
```r
#vizualization using boxplot
boxplot(adverts_2$Daily.Time.Spent.on.Site)
```




```
#visualization using the bar graphs approach
barplot(adverts_2$Daily.Time.Spent.on.Site)
```




```
#visualization using histograms
hist(adverts_2$Daily.Time.Spent.on.Site)
```



AGE

Measures of Central Tendencies

```
#getting the artithmetic mean of the variable
mean_2 <- mean(adverts_2$Age)
mean_2
```

```
## [1] 36.009
```

```
#getting the median of the variable
meadian_2 <- median(adverts_2$Age)
meadian_2
```

```
## [1] 35
```

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

mode_2 <- getmode(adverts_2$Age)
mode_2
```

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

Measures of Dispersion

```
#Getting the minimum value of the variable
min_2 <- min(adverts_2$Age)
min_2
```

```
## [1] 19
```

```
#getting the maximum value of the variable
max_2 <- max(adverts_2$Age)
max_2
```

```
## [1] 61
```

```
#Getting thw range of the variable
range_2 <- range(adverts_2$Age)
range_2
```

```
## [1] 19 61
```

```
#getting the quantiles of the variable
quantiles_2 <- quantile(adverts_2$Age)
quantiles_2
```

```
##   0%  25%  50%  75% 100%
##   19   29   35   42   61
```

```
#getting the  variable of the varibale
var_2 <- var(adverts_2$Age)
var_2
```

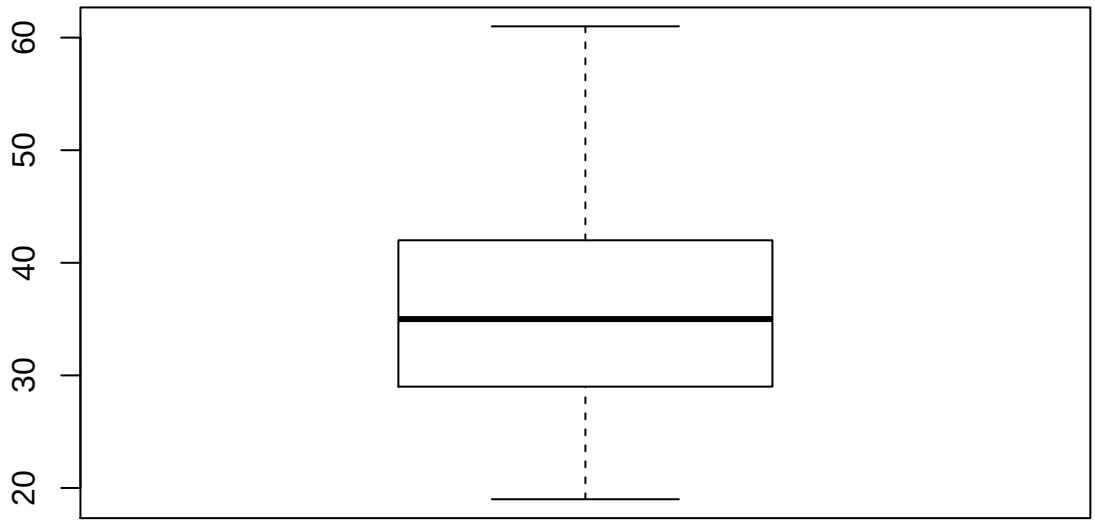
```
## [1] 77.18611
```

```
#getting the standard deviation of the variable
std_2 <- sd(adverts_2$Age)
std_2
```

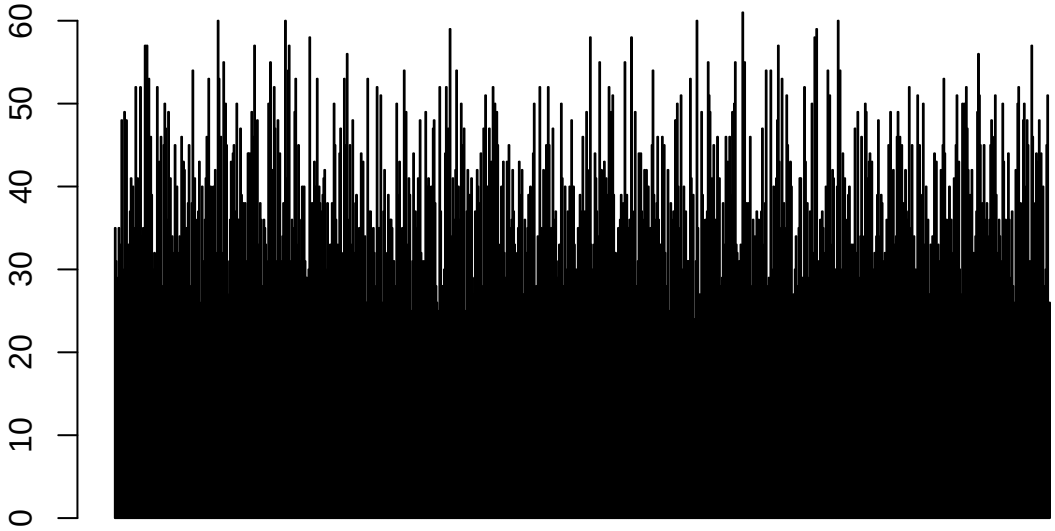
```
## [1] 8.785562
```

Visualizations

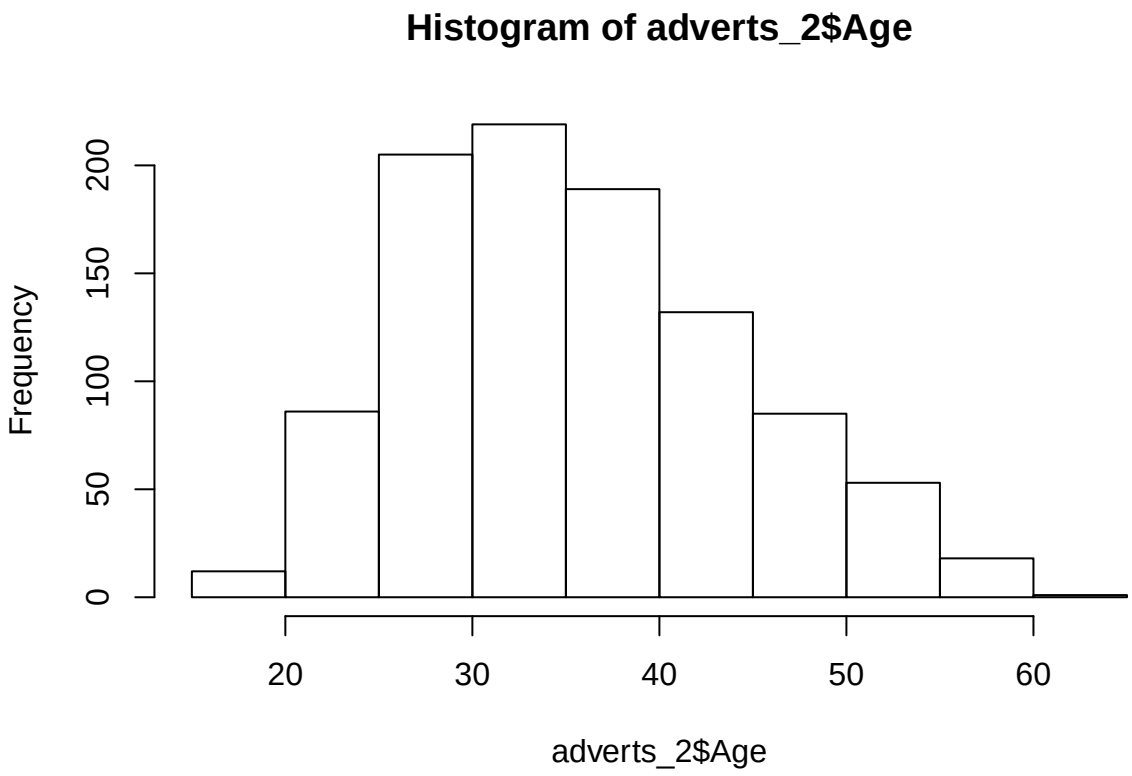
```
#vizualization using boxplot
boxplot(adverts_2$Age)
```




```
#visualization using the bar graphs approach
barplot(adverts_2$Age)
```




```
#visualization using histograms
hist(adverts_2$Age)
```



AREA.INCOME

Measures of Central Tendencies

```
#getting the artithmetic mean of the variable
mean_3 <- mean(adverts_2$Area.Income)
mean_3
```

```
## [1] 55000
```

```
#getting the median of the variable
meadian_3 <- median(adverts_2$Area.Income)
meadian_3
```

```
## [1] 57012.3
```

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

mode_3 <- getmode(adverts_2$Area.Income)
mode_3
```

```
## [1] 61833.9
```

Measures of Dispersion

```
#Getting the minimum value of the variable
min_3 <- min(adverts_2$Area.Income)
min_3
```

```
## [1] 13996.5
```

```
#getting the maximum value of the variable
max_3 <- max(adverts_2$Area.Income)
max_3
```

```
## [1] 79484.8
```

```
#Getting thw range of the variable
range_3 <- range(adverts_2$Area.Income)
range_3
```

```
## [1] 13996.5 79484.8
```

```
#getting the quantiles of the variable
quantiles_3 <- quantile(adverts_2$Area.Income)
quantiles_3
```

```
##       0%      25%      50%      75%     100%
## 13996.50 47031.80 57012.30 65470.64 79484.80
```

```
#getting the  variable of the varibale
var_3 <- var(adverts_2$Area.Income)
var_3
```

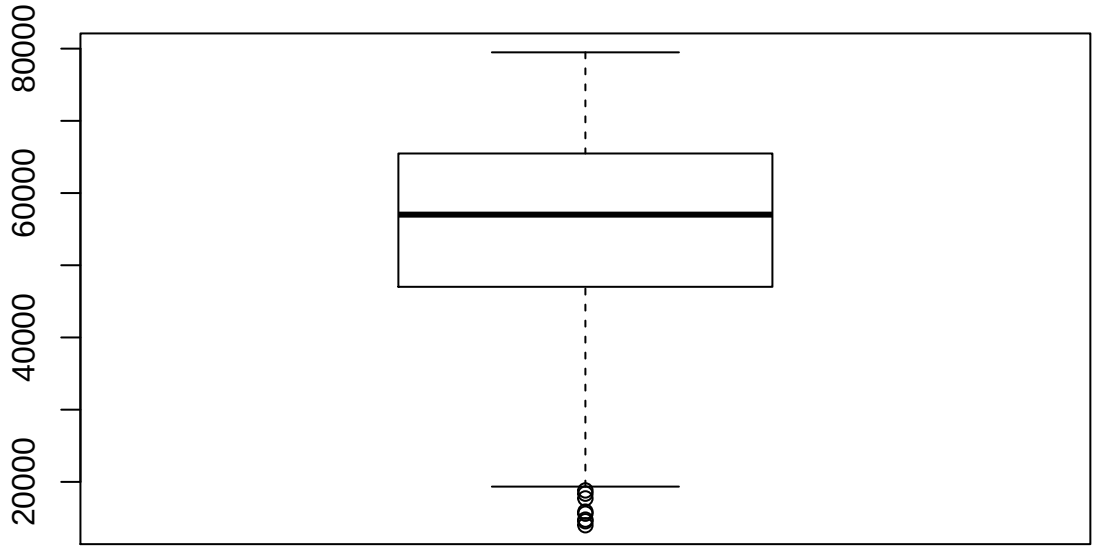
```
## [1] 179952406
```

```
#getting the standard deviation of the variable
std_3 <- sd(adverts_2$Area.Income)
std_3
```

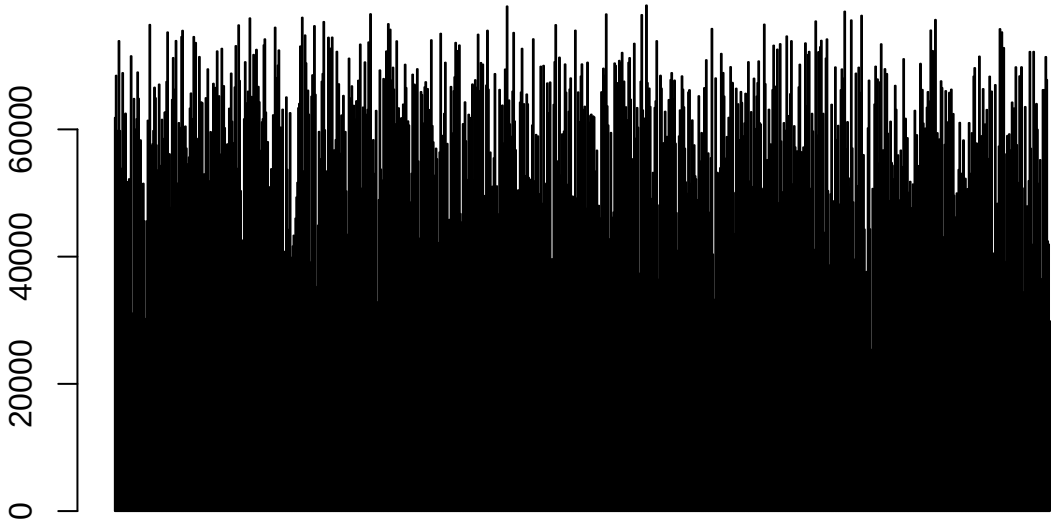
```
## [1] 13414.63
```

Visualizations

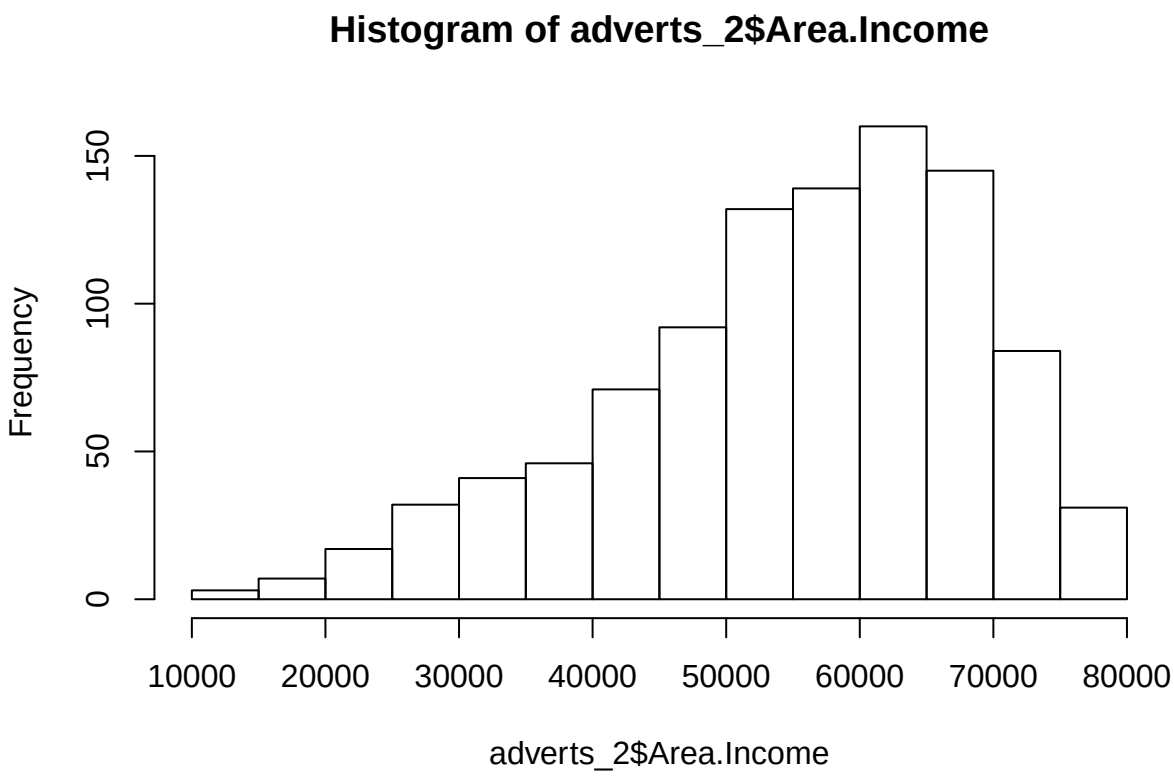
```
#vizualization using boxplot
boxplot(adverts_2$Area.Income)
```




```
#visualization using the bar graphs approach
barplot(adverts_2$Area.Income)
```




```
#visualization using histograms
hist(adverts_2$Area.Income)
```



Daily.Internet.Usage

Measures of Central Tendencies

```
#getting the artithmetic mean of the variable
mean_4 <- mean(adverts_2$Daily.Internet.Usage)
mean_4
```

```
## [1] 180.0001
```

```
#getting the median of the variable
meadian_4 <- median(adverts_2$Daily.Internet.Usage)
meadian_4
```

```
## [1] 183.13
```

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

mode_4 <- getmode(adverts_2$Daily.Internet.Usage)
mode_4
```

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

Measures of Dispersion

```
#Getting the minimum value of the variable
min_4 <- min(adverts_2$Daily.Internet.Usage)
min_4
```

```
## [1] 104.78
```

```
#getting the maximum value of the variable
max_4 <- max(adverts_2$Daily.Internet.Usage)
max_4
```

```
## [1] 269.96
```

```
#Getting thw range of the variable
range_4 <- range(adverts_2$Daily.Internet.Usage)
range_4
```

```
## [1] 104.78 269.96
```

```
#getting the quantiles of the variable
quantiles_4 <- quantile(adverts_2$Daily.Internet.Usage)
quantiles_4
```

```
##       0%      25%      50%      75%     100%
## 104.7800 138.8300 183.1300 218.7925 269.9600
```

```
#getting the  variable of the varibale
var_4 <- var(adverts_2$Daily.Internet.Usage)
var_4
```

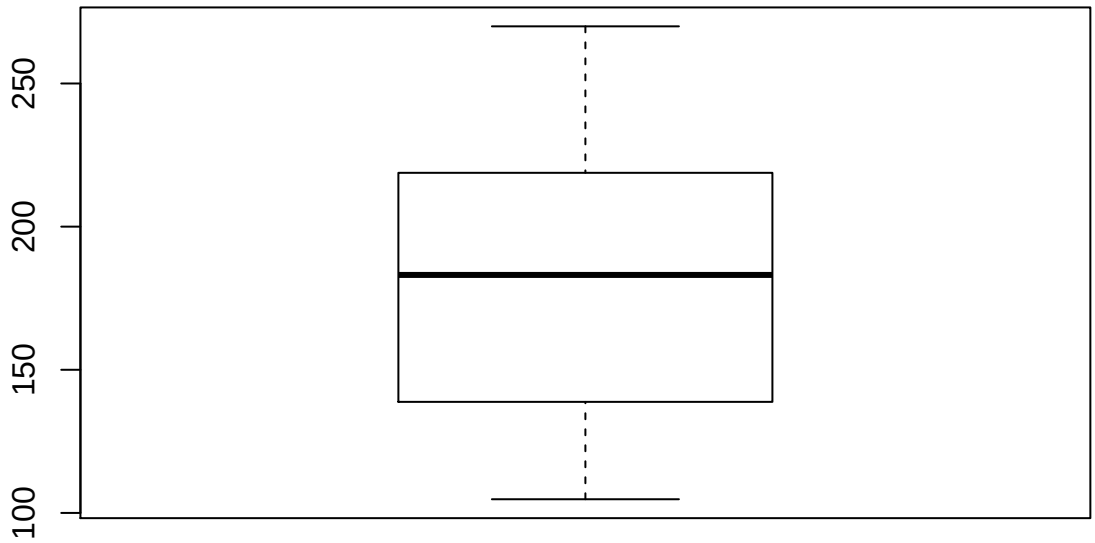
```
## [1] 1927.415
```

```
#getting the standard deviation of the variable
std_4 <- sd(adverts_2$Daily.Internet.Usage)
std_4
```

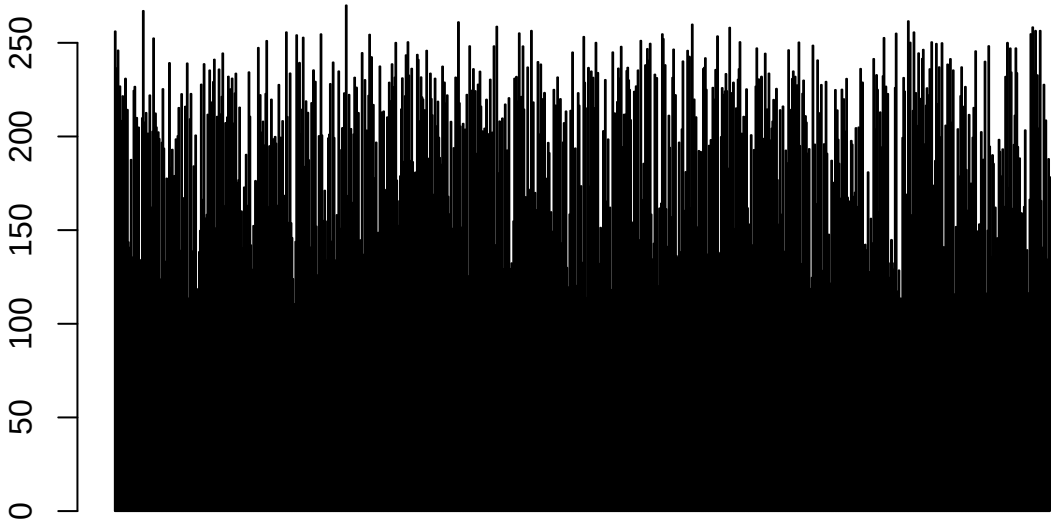
```
## [1] 43.90234
```

Visualizations

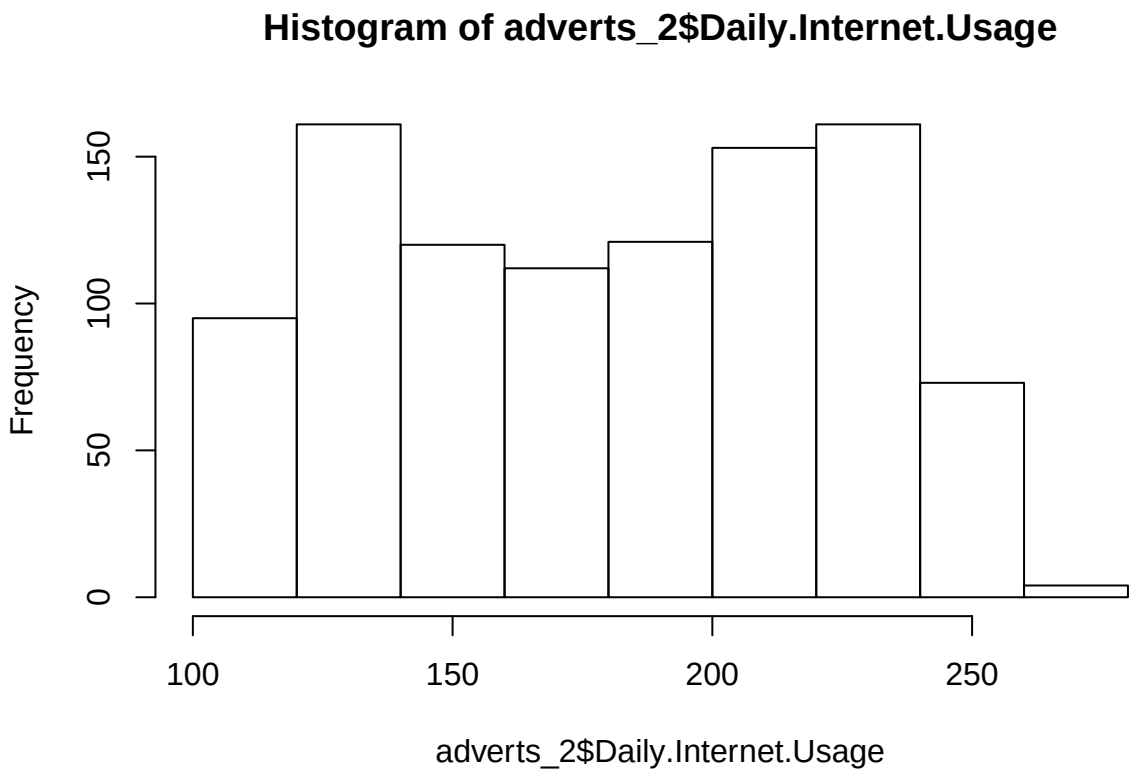
```
#vizualization using boxplot
boxplot(adverts_2$Daily.Internet.Usage)
```




```
#visualization using the bar graphs approach
barplot(adverts_2$Daily.Internet.Usage)
```

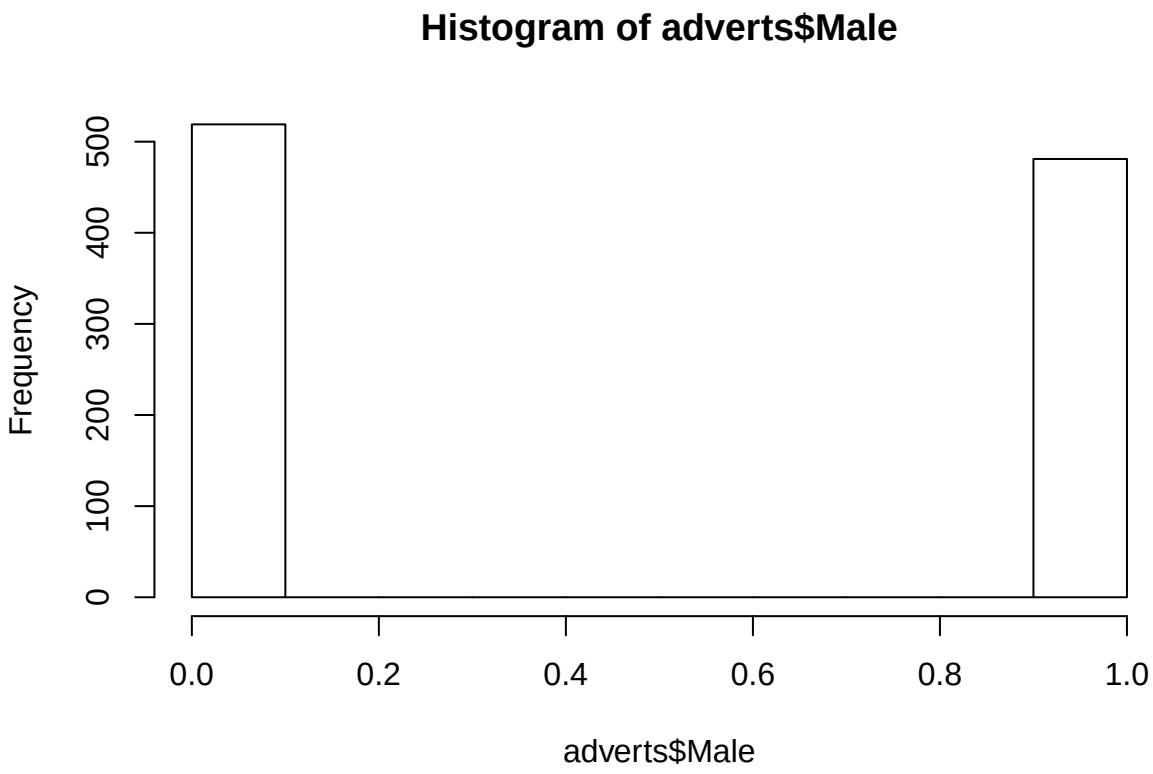



```
#visualization using histograms
hist(adverts_2$Daily.Internet.Usage)
```

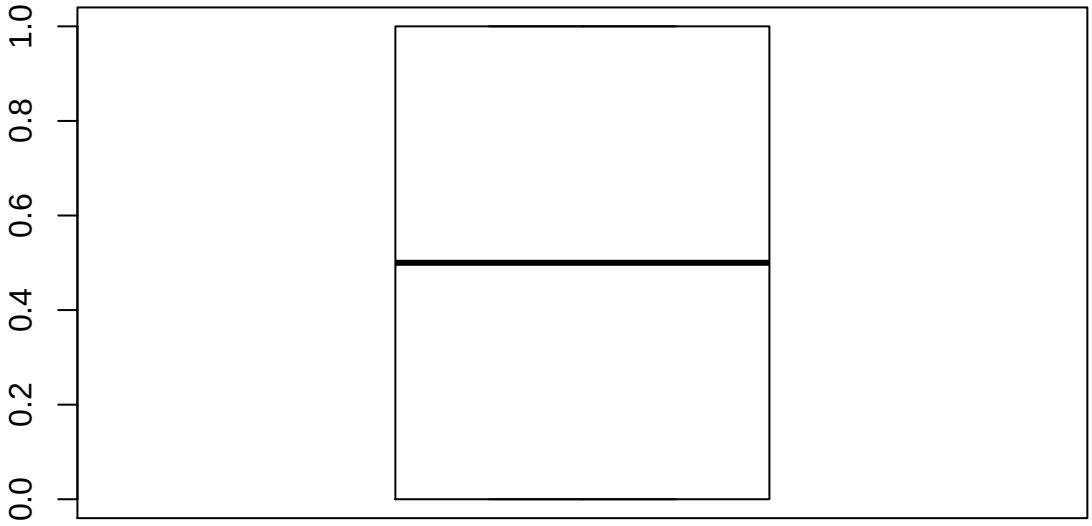


Visualizing the Male and Clicked on Ads variables.

```
#histogram of the Male variable
hist(adverts$Male)
```




```
#histogram of the Clicked on Ads variable
boxplot(adverts$Clicked.on.Ad)
```



BIVARIATE ANALYSIS

Daily.Time.Spent.on.Site AND Age

```
Time_s <- adverts_2$Daily.Time.Spent.on.Site
age <- adverts_2$Age

#getting the covariance between the two variables
cov(Time_s, age )
```

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

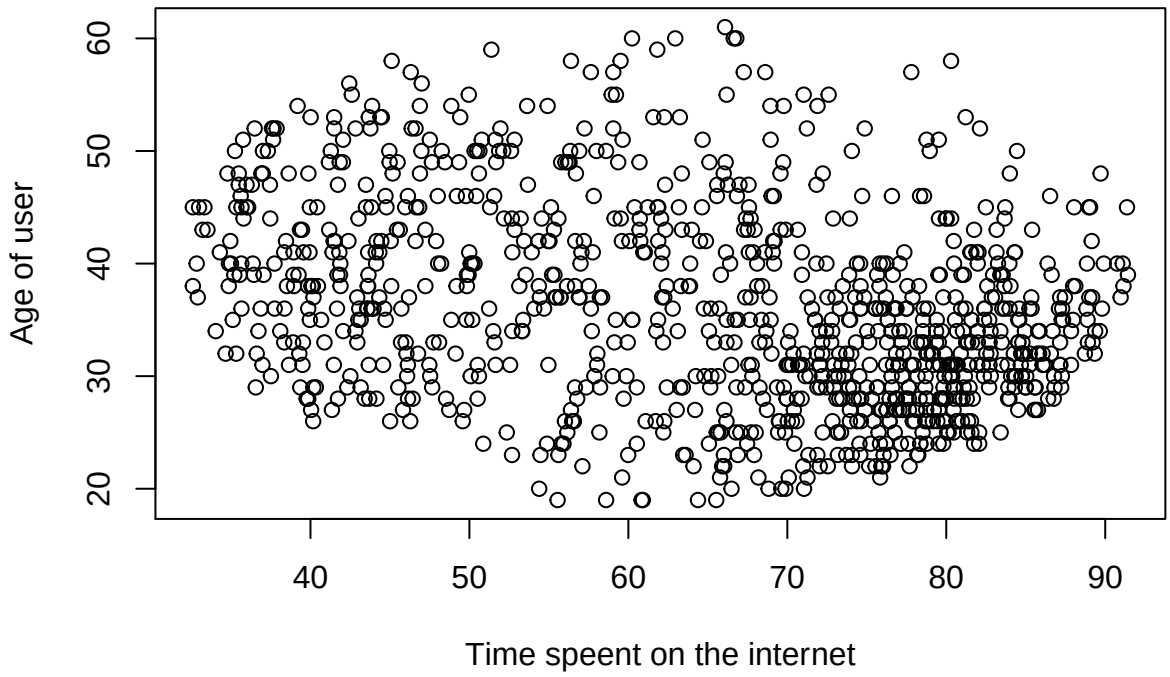
```
#getting the ccorrelation coefficient
cor(Time_s, age)
```

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

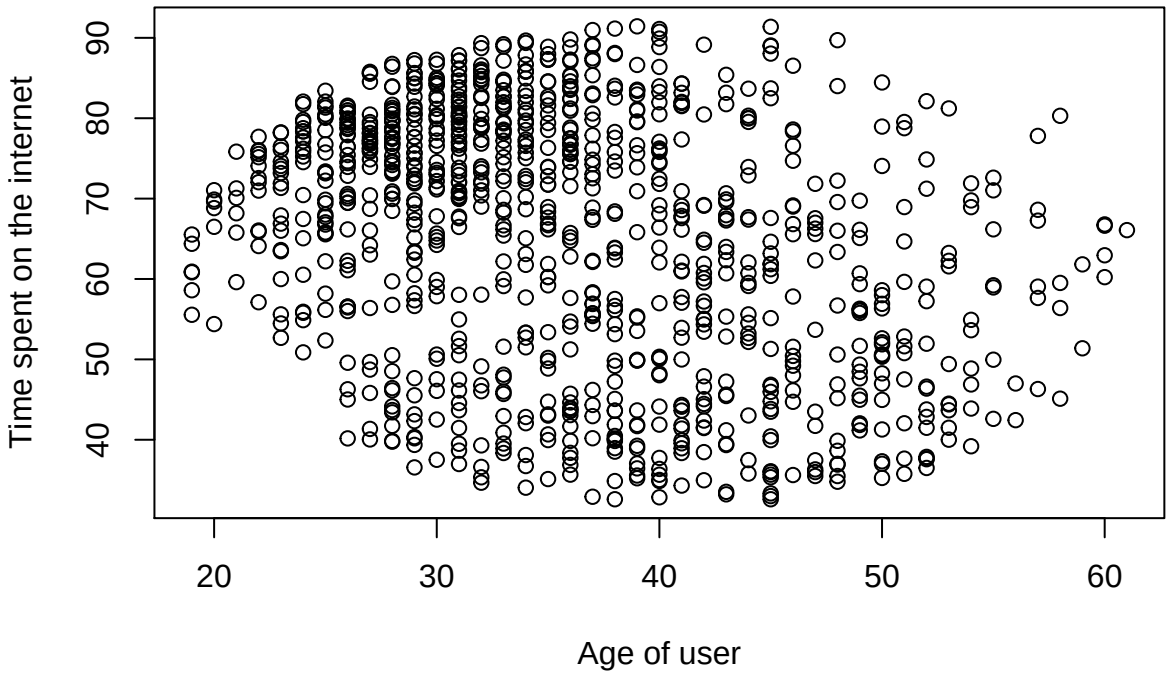
```
#The variables have a negative correlaton coefficient. This means that for an increase in age, there is
```

SCATTERPLOTS A scatter plot is a two-dimensional data visualization that uses dots to represent the values obtained for two different variables - one plotted along the x-axis and the other plotted along the y-axis. Scatter plots are used when you want to show the relationship between two variables. They are sometimes called correlation plots because they show how two variables are correlated.

```
plot(Time_s, age, xlab="Time speent on the internet", ylab="Age of user")
```




```
plot(age, Time_s, xlab="Age of user", ylab="Time spent on the internet")
```



AREA INCOME AND DAILY TIME SPENT ON THE SITE

```
Time_s <- adverts_2$Daily.Time.Spent.on.Site
income <- adverts_2$Area.Income

#getting the covariance between the two variables
cov(Time_s, income )
```

```
## [1] 66130.81
```

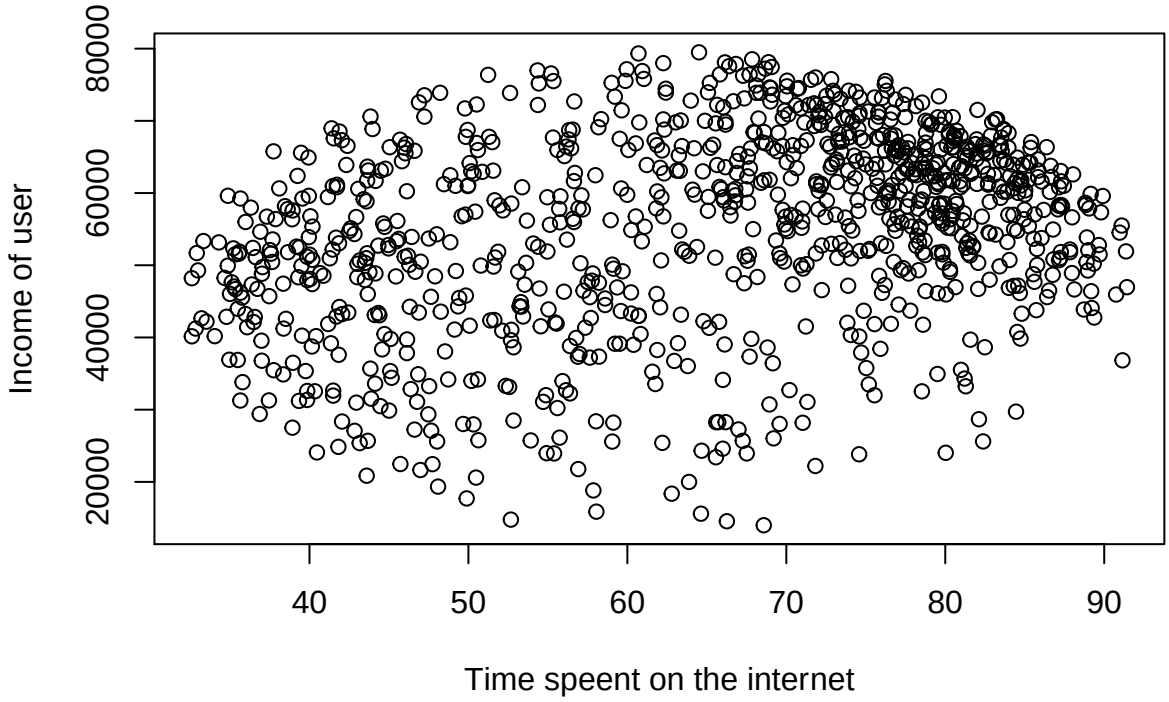
```
#getting the ccorrelation coefficient
cor(Time_s, income)
```

```
## [1] 0.3109544
```

```
#there is a positive correlation between the 2 variables. This means that for every unite increase of i
```

SCATTERPLOT

```
plot(Time_s, income, xlab="Time speent on the internet", ylab="Income of user")
```



AREA INCOME AND AGE

```
#getting the covariance between the two variables
cov(age, income )
```

```
## [1] -21520.93
```

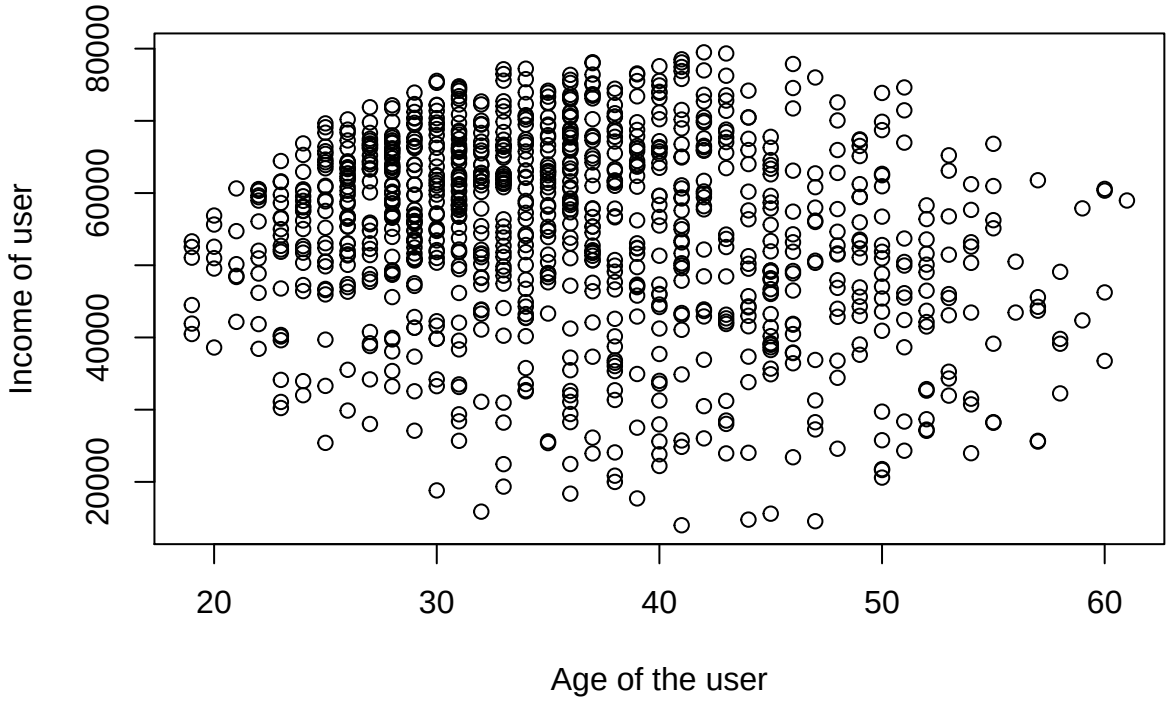
```
#getting the ccorrelation coefficient
cor(age, income)
```

```
## [1] -0.182605
```

```
#there is a very weak negative correlation between the two variables
```

SCATTERPLOT

```
plot(age, income, xlab="Age of the user", ylab="Income of user")
```



AGE AND DAILY INTERNET USAGE

```
Daily <- adverts_2$Daily.Internet.Usage

#getting the covaraiance between the 2 variables
cov(age, Daily)
```

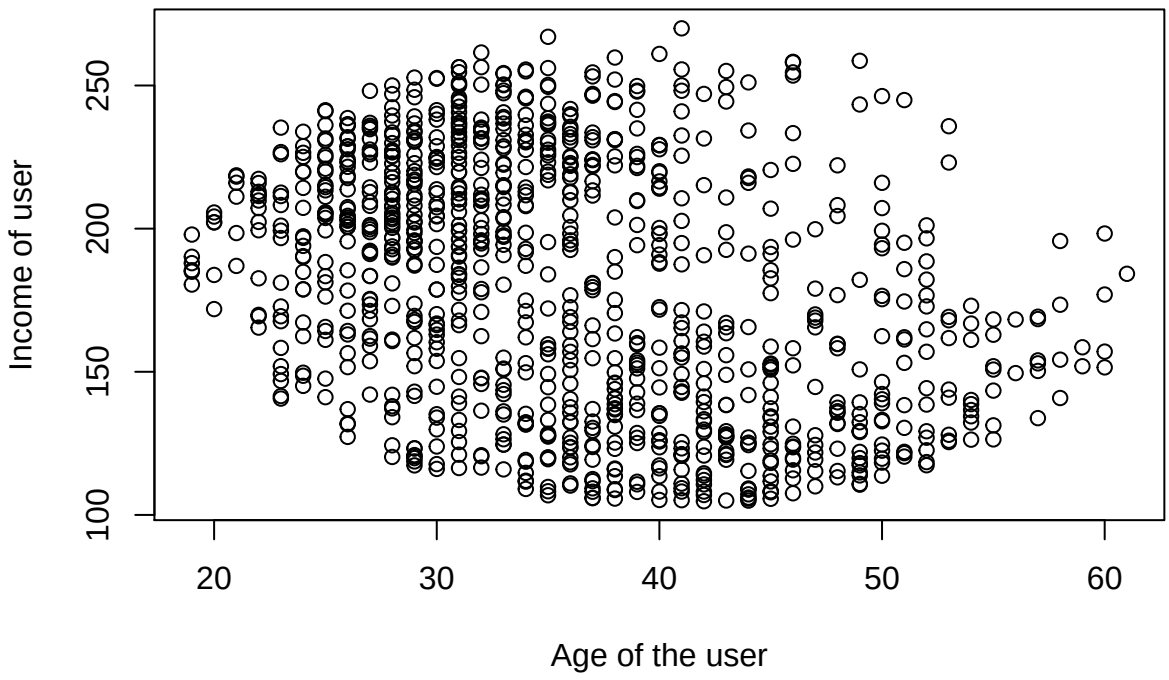
```
## [1] -141.6348
```

```
#getting the correlation coefficient
cor(age, Daily)
```

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

SCATTERPLOT

```
plot(age, Daily, xlab="Age of the user", ylab="Income of user")
```



INCOME AND DAILY INTERNET USAGE

```
#getting the covaraiance between the 2 variables
cov(income, Daily)
```

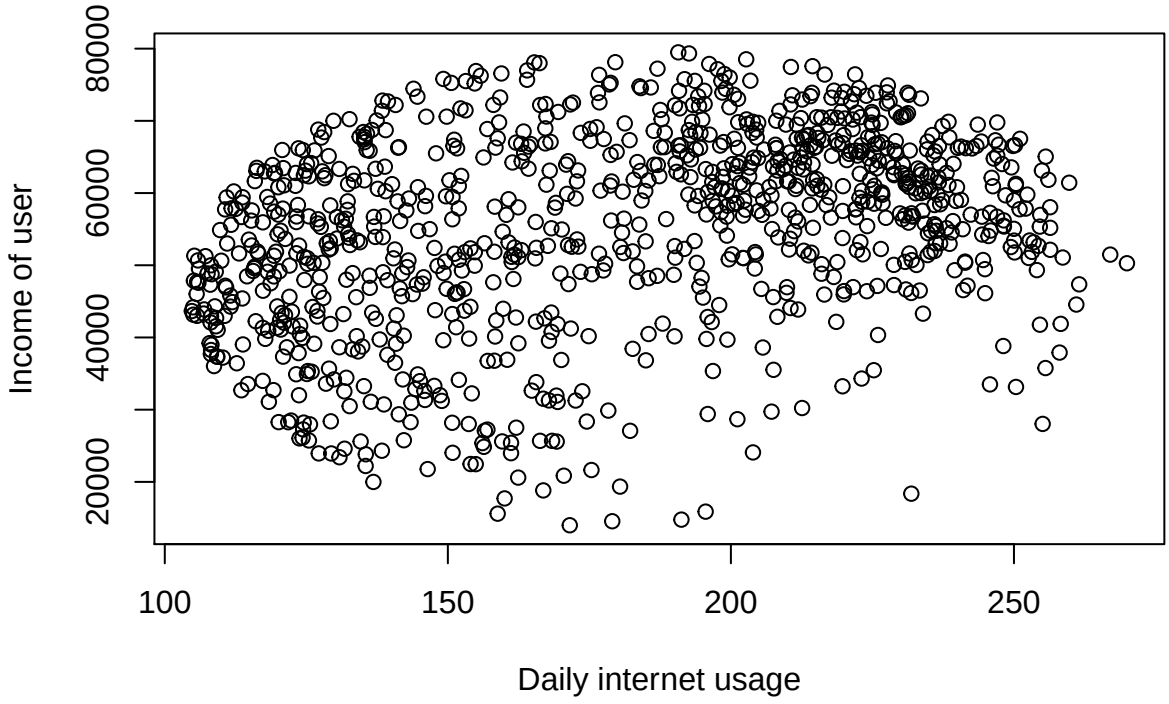
```
## [1] 198762.5
```

```
#getting the correlation coefficient
cor(income, Daily)
```

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

SCATTERPLOT

```
plot(Daily, income, xlab="Daily internet usage", ylab="Income of user")
```



DAILY TIME SPENT ON SITE AND DAILY INTERNET USAGE

```
#getting the covaraiance between the 2 variables
cov(Time_s, Daily)
```

```
## [1] 360.9919
```

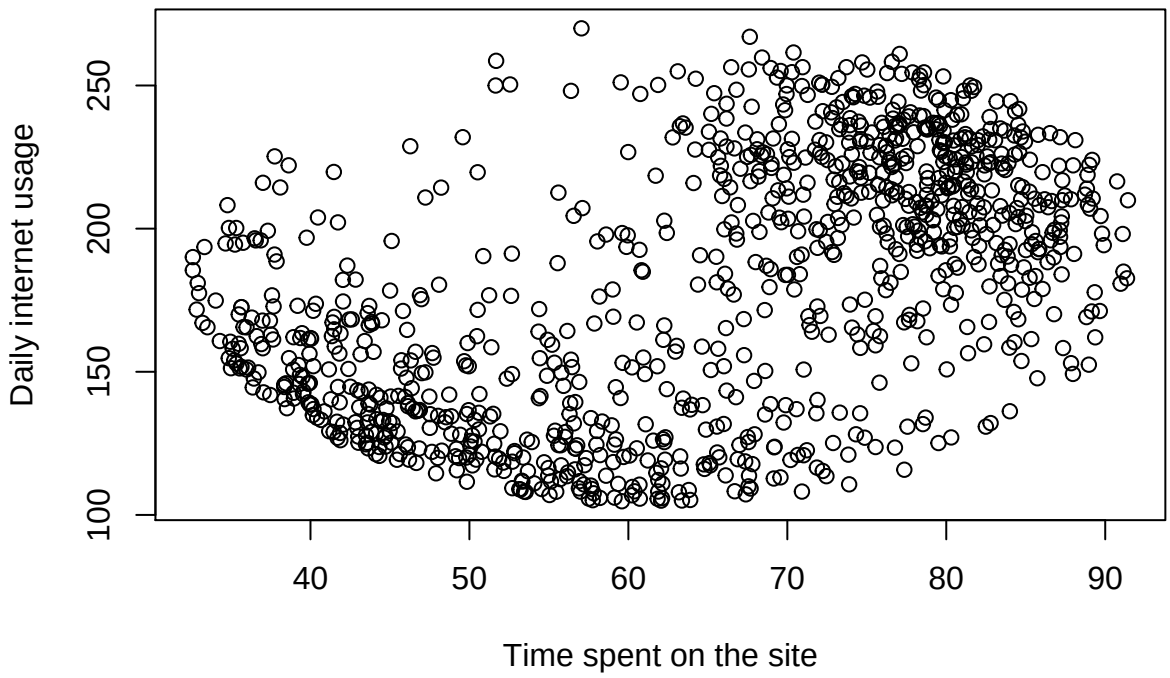
```
#getting the correlation coefficient
cor(Time_s, Daily)
```

```
## [1] 0.5186585
```

```
#There is a strong positive correlation between the 2 variables. Which means that for every unit increa
```

SCATTERPLOT

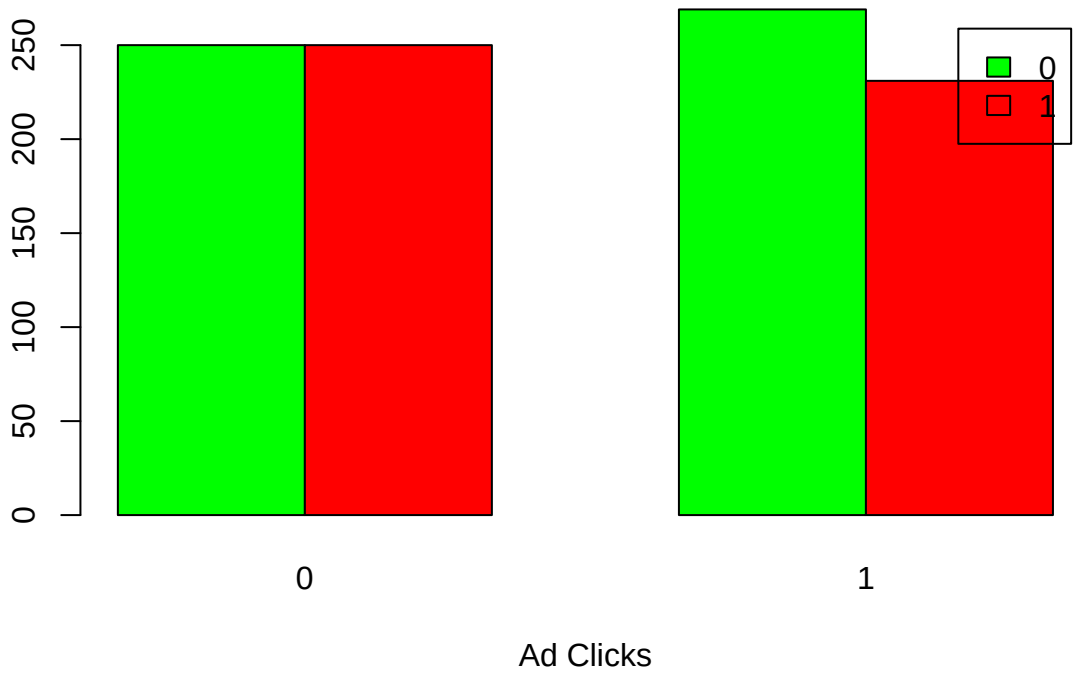
```
plot(Time_s, Daily, xlab="Time spent on the site", ylab="Daily internet usage")
```



CLICKED ON ADS VISUALIZATION

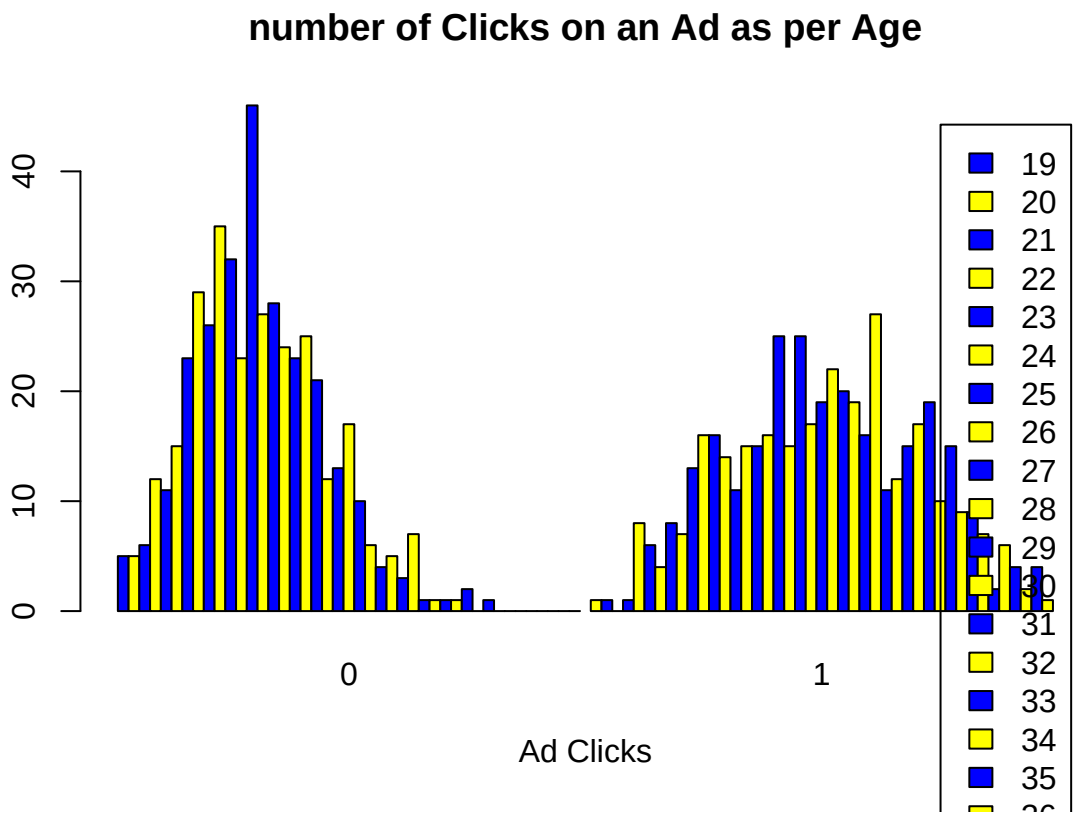
Grouped Bar Plot

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



Grouped Bar Plot

```
counts = table(adverts$Age, adverts$Clicked.on.Ad)
barplot(counts, main="number of Clicks on an Ad as per Age",
xlab="Ad Clicks", col=c("blue","yellow"),
legend = rownames(counts), beside=TRUE)
```



MULTIVARIATE ANALYSIS

Getting the correlation matrix Visualizing the correlation matrix Variable reduction using the PCA approach.

###CORRELATION MATRIX We first select all the numeric variables from the dataframe Then from the variables, we find the correlation matrix

```
adverts_2.cor <- cor(num_cols, method = c("spearman"))
adverts_2.cor
```

```
##                          Daily.Time.Spent.on.Site        Age Area.Income
## Daily.Time.Spent.on.Site                1.0000000 -0.3168616   0.2831344
## Age                                    -0.3168616  1.0000000  -0.1359540
## Area.Income                             0.2831344 -0.1359540   1.0000000
## Daily.Internet.Usage                    0.5141081 -0.3708639   0.3391602
##                          Daily.Internet.Usage
## Daily.Time.Spent.on.Site            0.5141081
## Age                                -0.3708639
## Area.Income                         0.3391602
## Daily.Internet.Usage                1.0000000
```

```
install.packages("Hmisc")
```

```
## Installing package into '/home/machocho/R/x86_64-pc-linux-gnu-library/3.4'
## (as 'lib' is unspecified)
```

```
## Warning: dependency 'latticeExtra' is not available
```

```
## Warning in install.packages("Hmisc"): installation of package 'Hmisc' had non-
## zero exit status
```

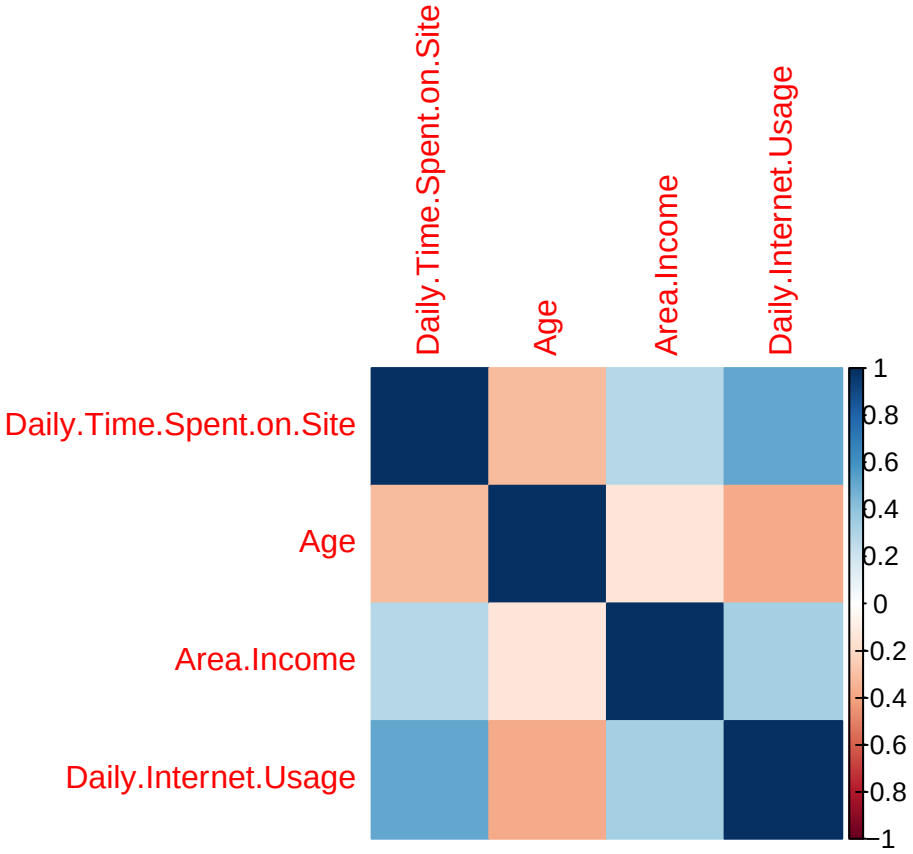
```
install.packages("corrplot")
```

```
## Installing package into '/home/machocho/R/x86_64-pc-linux-gnu-library/3.4'
## (as 'lib' is unspecified)
```

```
library("corrplot")
```

```
## corrplot 0.84 loaded
```

```
corrplot(adverts_2.cor, method="color")
```



VARIABLE REDUCTION USING THE PRINCIPAL COMPONENT ANALYSIS

We really do not need to reduce the variables for this dataset as we are not going to go further with modelling. We shall however cover that as a way of introducing ourselves to PCA in R

```
adverts.pca <- prcomp(num_cols, center = TRUE,scale. = TRUE)
adverts.pca
```

```
## Standard deviations (1, .., p=4):
## [1] 1.4301799 0.9047446 0.8114198 0.6911009
##
## Rotation (n x k) = (4 x 4):
##                                  PC1         PC2        PC3         PC4
## Daily.Time.Spent.on.Site -0.5484092  0.02789664 -0.5290308 -0.64698960
## Age                       0.4466724 -0.64437870 -0.6133591  0.09513391
## Area.Income              -0.4238013 -0.76334793  0.4827160 -0.06839365
## Daily.Internet.Usage     -0.5657947  0.03602522 -0.3330199  0.75344297
```

PUBLISHING THE WORK