Independent Projecrt

Define the question

Identifing which individuals are most likely to click on our clients ads.

The metric for success

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

The context

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

Experimental design taken

1. Define the question, the metric for success, the context, experimental design taken.
2. Read and explore the given dataset.
3. Define the appropriateness of the available data to answer the given question.
4. Find and deal with outliers, anomalies, and missing data within the dataset.
5. Perform univariate and bivariate analysis recording your observations.
6. From your insights provide a conclusion and recommendation.

The appropriateness of the available data

The data provided is sufficient to carry out our analysis.

Loading the dataset.

```
mydata = read.csv("http://bit.ly/IPAdvertisingData")
View(mydata)
```

Checking the data

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

```
##   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
```

```
# Checking for the first 6 rows
tail(mydata)
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 995                     43.70  28    63126.96               173.01
## 996                     72.97  30    71384.57               208.58
## 997                     51.30  45    67782.17               134.42
## 998                     51.63  51    42415.72               120.37
## 999                     55.55  19    41920.79               187.95
## 1000                    45.01  26    29875.80               178.35
##                            Ad.Topic.Line          City Male
## 995         Front-line bifurcated ability  Nicholasland    0
## 996         Fundamental modular algorithm     Duffystad    1
## 997       Grass-roots cohesive monitoring   New Darlene    1
## 998          Expanded intangible solution South Jessica    1
## 999  Proactive bandwidth-monitored policy   West Steven    0
## 1000      Virtual 5thgeneration emulation   Ronniemouth    0
##                      Country           Timestamp Clicked.on.Ad
## 995                  Mayotte 2016-04-04 03:57:48             1
## 996                  Lebanon 2016-02-11 21:49:00             1
## 997  Bosnia and Herzegovina 2016-04-22 02:07:01             1
## 998                 Mongolia 2016-02-01 17:24:57             1
## 999                Guatemala 2016-03-24 02:35:54             0
## 1000                  Brazil 2016-06-03 21:43:21             1
```

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

print("Daily.Time.Spent.on.Site data type")
```

```
## [1] "Daily.Time.Spent.on.Site data type"
```

```
class(mydata$Daily.Time.Spent.on.Site)
```

```
## [1] "numeric"
```

```
print("Age data type")
```

```
## [1] "Age data type"
```

```
class(mydata$Age)
```

```
## [1] "integer"
```

```r
print("Area.Income data type")
```

```
## [1] "Area.Income data type"
```

```r
class(mydata$Area.Income)
```

```
## [1] "numeric"
```

```r
print("Daily.Internet.Usage data type")
```

```
## [1] "Daily.Internet.Usage data type"
```

```r
class(mydata$Daily.Internet.Usage)
```

```
## [1] "numeric"
```

```r
print("Ad.Topic.Line  data type")
```

```
## [1] "Ad.Topic.Line  data type"
```

```r
class(mydata$Ad.Topic.Line )
```

```
## [1] "character"
```

```r
print("City data type")
```

```
## [1] "City data type"
```

```r
class(mydata$City)
```

```
## [1] "character"
```

```r
print("Male data type")
```

```
## [1] "Male data type"
```

```r
class(mydata$Male)
```

```
## [1] "integer"
```

```r
print("Country data type")
```

```
## [1] "Country data type"
```

```r
class(mydata$Country)
```

```
## [1] "character"
```

```r
print("Timestamp data type")
```

```
## [1] "Timestamp data type"
```

```r
class(mydata$Timestamp)
```

```
## [1] "character"
```

```r
print("Clicked.on.Ad data type")
```

```
## [1] "Clicked.on.Ad data type"
```

```r
class(mydata$Clicked.on.Ad)
```

```
## [1] "integer"
```

All the columns are in the correct data type

```r
# Checking the unique values of each column

print("Daily.Time.Spent.on.Site unique values are:")
```

```
## [1] "Daily.Time.Spent.on.Site unique values are:"
```

```r
unique(mydata$Daily.Time.Spent.on.Site)
```

```
##   [1] 68.95 80.23 69.47 74.15 68.37 59.99 88.91 66.00 74.53 69.88 47.64 83.07
##  [13] 69.57 79.52 42.95 63.45 55.39 82.03 54.70 74.58 77.22 84.59 41.49 87.29
##  [25] 41.39 78.74 48.53 51.95 70.20 76.02 67.64 86.41 59.05 55.60 57.64 84.37
##  [37] 62.26 65.82 50.43 38.93 84.98 64.24 82.52 81.38 80.47 37.68 69.62 85.40
##  [49] 44.33 48.01 73.18 79.94 33.33 50.33 62.31 80.60 65.19 44.98 77.63 41.82
##  [61] 85.61 85.84 72.08 86.06 45.96 62.42 63.89 35.33 75.74 78.53 46.13 69.01
##  [73] 55.35 33.21 38.46 64.10 49.81 82.73 56.14 55.13 78.11 73.46 56.64 68.94
##  [85] 70.79 57.76 77.51 52.70 57.70 56.89 69.90 55.79 70.03 50.08 43.67 72.84
##  [97] 45.72 39.94 35.61 79.71 63.60 89.91 68.18 66.49 80.49 72.23 42.39 47.53
## [109] 74.02 66.63 63.24 71.00 69.00 76.99 72.60 61.88 84.45 88.97 86.19 49.58
## [121] 77.65 37.75 62.33 79.57 80.31 89.05 70.41 67.36 46.98 41.67 51.24 75.70
## [133] 43.49 49.89 38.37 38.52 71.89 75.80 83.86 37.51 83.67 69.08 37.47 56.04
## [145] 70.92 49.78 68.61 58.18 78.54 37.00 65.40 87.98 44.64 41.73 80.46 75.55
## [157] 76.32 82.68 72.01 75.83 41.28 34.66 66.18 59.59 86.69 43.77 71.84 74.41
## [169] 63.36 71.74 60.72 72.04 44.57 85.86 39.85 84.53 62.95 67.58 85.56 46.88
## [181] 46.31 77.95 84.73 39.86 60.23 60.70 77.20 71.86 44.78 78.57 73.41 77.05
## [193] 66.40 69.35 35.65 70.04 69.78 58.22 76.90 84.08 59.51 40.15 76.81 41.89
## [205] 76.87 67.28 81.98 66.01 61.57 53.30 34.87 43.60 77.88 49.95 60.94 89.15
## [217] 78.70 57.35 34.86 70.68 76.06 66.67 46.77 78.32 37.32 40.42 76.77 65.65
## [229] 74.32 73.27 80.03 53.68 85.03 70.44 81.22 39.96 57.05 42.44 62.20 76.70
## [241] 61.22 84.54 46.08 56.70 81.03 80.91 40.06 83.47 73.84 74.65 60.25 59.21
## [253] 43.02 84.04 70.66 70.58 72.44 40.17 79.15 44.49 73.04 76.28 68.88 73.10
## [265] 47.66 87.30 89.34 81.37 81.67 46.37 54.88 40.67 71.76 47.51 75.15 56.01
## [277] 82.87 45.05 60.53 50.52 84.71 55.20 81.61 71.55 82.40 73.95 72.07 80.39
## [289] 65.80 69.97 52.62 39.25 77.56 33.52 79.81 84.79 82.70 84.88 54.92 76.56
## [301] 69.74 72.19 84.29 73.89 75.84 73.38 80.72 62.06 51.50 90.97 86.78 84.33
## [313] 36.87 34.78 76.84 67.05 41.47 80.71 80.09 56.30 79.36 86.38 38.94 87.26
## [325] 75.32 74.38 65.90 36.31 88.12 83.97 61.09 65.77 81.58 37.87 76.20 60.91
## [337] 74.49 73.71 78.19 79.54 74.87 87.09 37.45 49.84 51.38 83.40 38.91 62.14
## [349] 79.72 73.30 69.11 71.90 72.45 77.07 74.62 82.07 58.60 36.08 79.44 73.19
## [361] 77.60 89.00 69.20 67.56 81.11 80.22 43.63 77.66 74.63 49.67 80.59 83.49
## [373] 44.46 68.10 63.88 78.83 79.97 80.51 66.99 71.05 42.05 76.24 77.29 35.98
## [385] 84.95 39.34 87.23 57.24 56.34 48.73 51.68 35.34 48.09 78.68 68.82 56.99
## [397] 86.63 41.18 71.03 72.92 77.14 34.30 83.71 53.38 58.03 43.59 60.07 54.43
## [409] 81.99 84.69 88.72 88.89 69.58 85.23 83.55 56.66 56.39 78.18 46.04 79.40
## [421] 36.44 53.14 32.84 73.72 38.10 73.93 51.87 77.69 43.41 55.92 80.67 83.42
## [433] 82.12 66.17 43.01 80.05 64.88 79.82 48.03 32.99 74.88 36.49 88.04 45.70
## [445] 82.38 52.68 65.59 43.84 67.69 78.37 81.46 47.48 78.76 44.96 39.56 39.76
## [457] 57.11 83.26 69.42 50.60 46.20 66.88 35.49 80.29 50.19 59.12 59.88 59.70
## [469] 67.80 81.59 81.10 41.70 73.94 58.35 51.56 58.21 66.12 49.99 80.30 57.86
## [481] 70.29 59.13 81.51 42.94 84.81 82.79 59.22 35.00 46.61 63.26 79.16 67.94
## [493] 79.91 66.14 43.65 59.61 89.37 65.10 53.44 79.53 91.43 73.57 76.49 61.72
## [505] 72.03 77.47 75.65 78.15 63.80 76.59 42.60 78.77 81.95 44.73 38.35 72.53
## [517] 56.20 79.67 75.42 78.64 59.52 64.75 47.90 80.38 64.51 71.28 50.32 72.76
## [529] 72.80 74.59 46.66 48.86 37.05 81.21 66.89 68.11 69.15 65.72 40.04 68.60
## [541] 56.16 78.60 78.29 43.83 77.31 66.77 57.20 73.15 43.97 77.25 74.84 83.53
```

```
## [553] 38.63 84.00 52.13 71.83 78.36 50.18 64.67 69.50 65.22 32.91 39.50 75.19
## [565] 76.21 67.76 40.01 68.41 35.55 74.54 81.75 87.85 87.97 78.17 67.91 85.77
## [577] 41.16 53.54 63.43 70.13 40.19 58.95 35.76 59.36 91.10 61.04 74.06 64.63
## [589] 81.29 76.07 75.92 78.35 46.14 46.43 66.04 84.31 83.66 81.25 85.26 86.53
## [601] 76.44 52.84 85.24 74.71 82.95 76.42 42.04 46.28 48.26 58.05 75.00 79.61
## [613] 52.56 62.18 77.89 66.08 89.21 49.96 77.44 82.58 39.36 47.23 65.57 78.01
## [625] 44.15 43.57 76.83 42.06 76.27 74.27 77.50 87.16 66.26 65.15 68.25 73.49
## [637] 39.19 80.15 86.76 73.88 69.77 87.27 78.84 71.33 81.90 46.89 77.80 45.44
## [649] 69.96 87.35 49.42 71.27 49.19 85.01 67.59 75.71 43.07 39.47 48.22 76.76
## [661] 67.47 81.17 89.66 79.60 65.53 61.87 83.16 44.11 56.57 83.91 79.80 71.23
## [673] 82.37 70.90 62.12 67.35 57.99 66.80 49.13 45.11 54.35 61.82 77.75 70.61
## [685] 82.72 65.07 56.93 36.56 85.73 75.81 72.94 53.63 52.35 51.58 42.32 55.04
## [697] 68.58 85.54 71.14 64.38 88.85 66.79 32.60 43.88 56.46 72.18 52.67 80.55
## [709] 67.85 82.69 35.21 36.37 74.07 59.96 85.62 40.88 36.98 56.56 36.62 49.35
## [721] 75.64 79.22 66.83 53.33 50.63 41.84 53.92 83.89 55.32 53.22 43.16 67.51
## [733] 79.89 84.25 74.18 85.78 80.96 36.91 54.47 57.51 82.30 73.21 79.09 68.47
## [745] 83.69 83.48 66.69 48.46 42.51 42.83 41.46 45.99 68.72 63.11 49.21 55.77
## [757] 44.13 57.82 72.46 78.24 74.61 89.18 44.16 55.74 88.82 70.39 78.58 35.11
## [769] 60.39 81.56 75.03 50.87 82.80 78.51 37.65 83.17 91.37 81.32 76.64 39.53
## [781] 86.58 90.75 67.71 82.41 45.82 76.79 70.05 77.35 40.34 67.39 68.68 66.03
## [793] 47.74 79.18 86.81 41.53 46.84 44.40 52.17 81.45 54.08 76.65 54.39 37.74
## [805] 69.86 85.37 80.99 77.36 55.46 35.66 50.78 40.47 45.62 84.76 80.64 75.94
## [817] 37.01 87.18 56.91 75.24 42.84 34.96 87.46 41.86 34.04 54.96 87.14 78.79
## [829] 65.56 81.05 55.71 45.48 47.00 59.64 72.55 91.15 80.53 82.49 80.94 61.76
## [841] 63.30 36.73 78.41 83.98 63.18 60.83 44.72 79.51 39.30 64.79 89.80 72.82
## [853] 38.65 59.01 78.96 63.99 41.35 62.79 45.53 51.65 54.55 69.95 79.83 85.35
## [865] 56.78 78.67 70.09 60.75 35.25 37.58 68.01 45.08 63.04 40.18 45.17 50.48
## [877] 80.87 41.88 39.87 61.84 54.97 71.40 67.26 76.58 54.37 66.47 72.88 63.37
## [889] 89.71 70.96 35.79 38.96 69.17 64.20 43.70 72.97 51.30 51.63 55.55 45.01
```

```
print("Age unique values are:")
```

```
## [1] "Age unique values are:"
```

```
unique(mydata$Age)
```

```
##  [1] 35 31 26 29 23 33 48 30 20 49 37 24 41 36 40 52 28 34 22 57 53 39 46 32 25
## [26] 43 45 50 47 27 42 38 54 21 60 55 44 58 56 51 19 59 61
```

```
print("Area.Income unique values are:")
```

```
## [1] "Area.Income unique values are:"
```

```
unique(mydata$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
```

```
print("Daily.Internet.Usage unique values are:")
```

```
## [1] "Daily.Internet.Usage unique values are:"
```

```
unique(mydata$Daily.Internet.Usage)
```

```
##   [1] 256.09 193.77 236.50 245.89 225.58 226.74 208.36 131.76 221.51 183.82
##  [11] 122.02 230.87 113.12 214.23 143.56 140.64 129.41 187.53 118.39 135.51
##  [21] 224.44 226.54 164.83 209.93 167.22 204.79 134.14 129.23 119.20 209.82
##  [31] 267.01 207.48 169.23 212.58 133.81 201.58 125.45 221.94 119.32 162.08
##  [41] 202.61 252.36 198.11 212.30 204.86 172.83 202.25 198.72 123.72 119.93
##  [51] 196.71 225.29 193.58 133.20 119.30 177.55 150.61 129.31 239.22 156.36
##  [61] 183.43 192.93 169.50 178.92 141.22 198.50 105.22 200.22 215.25 131.72
##  [71] 139.01 222.63 153.17 167.07 145.98 215.93 120.06 238.99 113.53 111.71
##  [81] 209.25 222.75 115.91 138.71 184.10 105.15 200.55 118.60 109.07 109.29
##  [91] 138.35 149.67 227.72 125.85 166.29 238.63 154.02 156.30 158.22 211.65
## [101] 169.18 235.28 194.23 218.17 202.16 229.12 241.03 150.99 135.18 210.54
## [111] 176.98 235.78 211.87 123.64 221.21 244.34 162.95 112.19 207.18 152.49
## [121] 210.26 231.94 212.79 225.24 127.11 230.93 127.07 206.98 223.03 233.56
## [131] 175.37 132.55 176.73 215.44 127.83 160.03 140.46 137.28 172.81 146.19
## [141] 190.25 163.00 124.38 234.26 210.60 141.89 128.95 108.16 152.24 150.29
## [151] 176.28 172.10 247.31 183.48 222.11 127.01 202.18 207.96 159.24 195.31
## [161] 222.77 251.00 162.44 140.39 194.83 143.42 219.72 104.78 198.56 138.55
## [171] 199.79 196.23 163.05 137.43 227.56 105.69 199.43 133.17 208.23 145.96
## [181] 168.34 157.04 255.61 210.46 136.64 153.98 233.65 153.76 145.85 123.91
## [191] 106.86 110.57 143.79 254.05 116.53 137.24 239.32 201.26 191.14 214.42
## [201] 252.77 172.58 183.85 218.79 120.90 212.67 187.36 140.83 134.88 217.85
## [211] 163.38 235.35 155.80 229.22 151.95 125.94 111.94 200.23 170.49 254.57
## [221] 200.59 136.59 154.97 171.07 133.99 119.84 154.75 199.08 201.04 228.03
## [231] 136.40 143.94 239.52 199.25 133.90 123.51 158.05 128.17 234.75 150.84
## [241] 115.26 192.85 204.52 178.75 223.09 146.13 269.96 168.27 161.16 222.25
## [251] 119.03 204.02 164.63 123.13 201.15 231.42 138.68 226.11 121.05 212.56
## [261] 109.77 144.62 125.22 244.55 120.95 136.94 230.14 171.31 203.23 168.00
## [271] 221.79 254.34 179.58 242.37 156.54 216.87 177.78 156.48 196.76 144.27
## [281] 148.61 133.18 237.39 130.41 212.87 127.26 213.36 141.36 171.62 210.23
## [291] 159.46 228.76 163.99 218.97 238.58 226.45 214.74 231.49 250.00 176.52
## [301] 152.36 130.83 165.56 178.85 214.53 231.07 186.48 221.53 243.37 169.40
## [311] 250.35 232.54 110.68 186.98 236.19 186.37 105.00 135.31 180.77 170.13
## [321] 243.61 240.95 195.91 208.21 231.59 220.92 219.79 200.58 214.08 135.24
## [331] 245.78 188.27 142.67 184.03 233.60 220.05 211.39 168.92 115.35 230.91
## [341] 205.50 131.68 218.61 199.39 188.56 178.51 184.94 237.34 211.38 228.81
## [351] 217.68 126.97 221.98 167.86 111.59 158.56 207.87 150.80 110.93 193.80
## [361] 135.72 231.48 140.15 195.36 261.02 217.79 205.38 113.70 151.47 206.79
## [371] 144.71 203.74 197.33 222.26 123.80 248.19 224.58 123.25 168.15 235.99
## [381] 153.69 224.23 190.75 132.66 227.73 136.85 234.64 216.00 200.28 202.77
## [391] 124.44 204.22 174.55 219.69 198.32 201.24 165.52 230.36 148.93 202.12
## [401] 117.35 248.16 139.02 142.04 258.62 152.86 180.42 208.05 205.64 108.15
## [411] 209.64 129.25 120.85 217.10 184.88 192.60 160.74 220.48 129.33 132.31
## [421] 120.75 154.74 230.90 123.28 231.85 218.80 255.07 212.92 221.18 139.42
```

```
## [431] 248.12 110.25 167.67 147.92 236.87 147.64 109.00 171.72 256.40 214.38
## [441] 218.22 119.65 169.88 160.73 145.08 239.76 183.42 238.45 127.37 219.94
## [451] 129.80 223.28 134.60 177.46 175.17 196.61 191.17 151.12 159.60 149.20
## [461] 121.81 224.92 167.42 216.57 207.27 231.54 141.34 219.49 219.98 132.71
## [471] 143.13 196.83 207.17 187.76 213.38 129.88 119.47 158.42 213.75 159.77
## [481] 244.87 117.30 124.54 193.63 120.25 117.75 223.16 216.49 126.95 173.49
## [491] 132.63 124.85 253.17 228.70 105.94 113.80 215.18 236.64 121.07 173.43
## [501] 234.72 166.86 231.37 106.04 250.03 130.40 233.93 132.08 126.39 151.25
## [511] 136.18 120.46 202.90 128.16 230.18 165.27 138.87 198.45 156.99 162.03
## [521] 118.10 108.17 244.91 209.91 212.38 208.02 181.11 218.49 236.29 230.95
## [531] 222.91 247.90 194.37 108.70 211.64 168.29 211.83 235.01 236.72 229.99
## [541] 224.90 208.76 154.23 127.56 145.48 223.93 114.85 226.79 164.25 109.22
## [551] 144.69 251.08 166.19 117.66 185.45 114.53 238.06 190.71 246.72 125.65
## [561] 240.63 249.54 158.35 118.16 134.46 142.81 233.04 208.24 231.21 112.72
## [571] 120.12 161.58 135.08 254.59 252.07 129.01 238.10 161.24 141.13 110.66
## [581] 211.12 193.97 156.97 231.38 246.44 204.56 136.21 118.27 135.48 196.77
## [591] 127.82 203.84 240.09 116.27 160.33 181.02 148.19 245.76 228.94 242.59
## [601] 161.77 109.34 259.76 151.18 219.75 190.08 210.27 151.54 149.25 192.27
## [611] 146.80 191.78 150.83 108.03 236.15 236.75 241.80 224.98 136.99 131.29
## [621] 195.07 110.84 198.13 149.21 225.99 158.80 235.56 182.65 253.48 137.97
## [631] 120.63 137.20 199.76 225.87 175.14 222.35 224.07 233.36 224.20 122.31
## [641] 182.84 258.06 201.29 182.11 228.78 122.45 150.77 215.04 195.54 235.97
## [651] 250.36 126.44 201.54 184.23 210.53 151.94 210.39 225.23 161.79 149.80
## [661] 153.01 130.86 200.71 141.96 125.20 192.81 131.55 226.69 247.05 216.24
## [671] 230.52 225.34 197.15 231.95 179.04 198.86 244.23 173.05 214.49 189.91
## [681] 233.61 197.93 132.27 204.27 208.01 219.55 217.66 225.47 176.78 152.94
## [691] 119.27 214.06 158.29 128.00 216.03 123.08 138.52 192.50 185.85 113.69
## [701] 246.06 137.63 163.48 214.33 230.77 225.05 231.91 171.23 227.37 190.17
## [711] 250.20 194.95 121.24 131.98 222.87 229.88 122.59 210.87 207.44 135.25
## [721] 190.95 193.29 105.86 118.69 124.58 248.51 120.49 195.69 164.02 151.93
## [731] 240.64 190.12 179.82 212.59 227.53 111.80 128.37 195.89 147.75 229.19
## [741] 190.84 126.29 147.61 121.57 187.09 106.96 171.54 175.43 224.82 180.47
## [751] 213.96 198.30 185.47 166.85 151.63 225.02 191.26 219.91 202.70 123.71
## [761] 230.78 167.41 154.00 144.53 165.43 197.66 195.68 167.87 170.04 204.47
## [771] 119.86 204.82 198.79 236.08 196.17 123.24 111.63 142.23 139.32 125.46
## [781] 180.88 127.65 108.85 156.11 127.20 143.04 241.38 170.90 203.87 232.78
## [791] 225.00 159.69 141.52 212.88 105.71 232.21 252.60 209.72 226.64 192.57
## [801] 222.72 124.67 108.27 132.38 144.77 128.98 124.61 225.97 254.94 115.60
## [811] 117.33 128.48 107.56 108.18 199.29 231.28 224.01 133.42 124.34 169.10
## [821] 261.52 118.45 250.11 158.03 108.25 213.70 255.57 190.41 223.20 205.71
## [831] 161.29 244.40 220.08 165.65 241.50 246.29 142.21 195.93 216.50 225.76
## [841] 222.08 171.24 235.94 203.44 250.32 167.26 173.75 107.19 187.03 249.45
## [851] 217.37 154.93 236.96 199.62 158.81 249.81 123.22 140.95 115.37 205.84
## [861] 111.02 238.43 171.90 241.36 194.56 207.53 235.29 115.79 108.10 151.72
## [871] 122.04 203.90 121.28 178.69 221.59 216.01 193.60 146.44 226.49 182.20
## [881] 109.98 160.49 211.56 128.62 174.88 113.75 199.40 215.29 181.25 245.50
## [891] 112.52 129.16 149.53 153.12 150.79 202.34 184.98 187.64 130.84 239.94
## [901] 114.69 116.19 149.79 248.23 194.62 107.92 135.67 190.05 185.46 123.86
## [911] 162.05 125.11 145.73 116.07 198.24 191.82 154.77 193.15 138.46 162.46
## [921] 231.87 141.58 249.99 109.04 172.57 247.01 234.23 161.42 124.32 195.56
## [931] 211.17 233.85 194.44 176.70 188.32 125.27 159.05 151.96 132.07 162.43
## [941] 203.30 126.11 139.34 105.63 116.38 166.31 254.65 168.41 258.26 140.77
## [951] 234.81 256.39 125.12 232.68 105.04 204.40 165.62 140.67 123.62 227.63
## [961] 173.01 208.58 134.42 120.37 187.95 178.35
```

```r
print("Ad.Topic.Line unique values are:")
```

```
## [1] "Ad.Topic.Line unique values are:"
```

```r
unique(mydata$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"
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##  [693] "Optional full-range projection"
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```

```
print("City unique values are:")
```

```
## [1] "City unique values are:"
```

```
unique(mydata$City)
```

```
##   [1] "Wrightburgh"            "West Jodi"
##   [3] "Davidton"               "West Terrifurt"
##   [5] "South Manuel"           "Jamieberg"
##   [7] "Brandonstad"            "Port Jefferybury"
##   [9] "West Colin"             "Ramirezton"
##  [11] "West Brandonton"        "East Theresashire"
##  [13] "West Katiefurt"         "North Tara"
##  [15] "West William"           "New Travistown"
##  [17] "West Dylanberg"         "Pruittmouth"
##  [19] "Jessicastad"            "Millertown"
##  [21] "Port Jacqueline"        "Lake Nicole"
##  [23] "South John"             "Pamelamouth"
##  [25] "Harperborough"          "Port Danielleberg"
##  [27] "West Jeremyside"        "South Cathyfurt"
```

```
##  [29] "Palmerside"              "West Guybury"
##  [31] "Phelpschester"           "Lake Melindamouth"
##  [33] "North Richardburgh"      "Port Cassie"
##  [35] "New Thomas"              "Johnstad"
##  [37] "West Aprilport"          "Kellytown"
##  [39] "Charlesport"             "Millerchester"
##  [41] "Mackenziemouth"          "Zacharystad"
##  [43] "North Joshua"            "Bowenview"
##  [45] "Jamesberg"               "Lake Cassandraport"
##  [47] "New Sharon"              "Johnport"
##  [49] "Hamiltonfort"            "West Christopher"
##  [51] "Hollandberg"             "Odomville"
##  [53] "East Samanthashire"      "South Lauraton"
##  [55] "Amandahaven"             "Thomasview"
##  [57] "Garciaside"              "Port Sarahshire"
##  [59] "Port Gregory"            "Brendachester"
##  [61] "Lake Amy"                "Lake Annashire"
##  [63] "Smithburgh"              "North Leonmouth"
##  [65] "Robertfurt"              "Jasminefort"
##  [67] "Jensenborough"           "Bradleyburgh"
##  [69] "New Sheila"              "North Regina"
##  [71] "Davidmouth"              "New Michaeltown"
##  [73] "East Tammie"             "Wilcoxport"
##  [75] "East Michaelmouth"       "East Tiffanyport"
##  [77] "Ramirezhaven"            "Cranemouth"
##  [79] "Lake Edward"             "Lake Conniefurt"
##  [81] "East Shawnchester"       "West Joseph"
##  [83] "Lake Christopherfurt"    "East Tylershire"
##  [85] "Sharpberg"               "Lake Dustin"
##  [87] "North Kristine"          "Grahamberg"
##  [89] "New Tina"                "Nelsonfurt"
##  [91] "Christopherport"         "Port Sarahhaven"
##  [93] "Bradleyborough"          "Whiteport"
##  [95] "New Theresa"             "Wongland"
##  [97] "Williammouth"            "Williamsborough"
##  [99] "North Michael"           "Benjaminchester"
## [101] "Hernandezville"          "Youngburgh"
## [103] "Wallacechester"          "Sanchezmouth"
## [105] "Bradshawborough"         "Amyhaven"
## [107] "Marcushaven"             "Erinton"
## [109] "Hughesport"              "New Lucasburgh"
## [111] "Michelleside"            "Andersonton"
## [113] "New Rachel"              "Port Susan"
## [115] "West Angelabury"         "Port Christopherborough"
## [117] "Phillipsbury"            "Millerside"
## [119] "Lake Jessica"            "Lopezmouth"
## [121] "Johnsport"               "South Ronald"
## [123] "South Daniel"            "Suzannetown"
## [125] "Lisaberg"                "Brianfurt"
## [127] "Stewartbury"             "North Wesleychester"
## [129] "East Michelleberg"       "Port Eric"
## [131] "Timothyfurt"             "Port Jeffrey"
## [133] "Guzmanland"              "East Michele"
## [135] "East John"               "Lesliebury"
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## [137] "Patriciahaven"           "Ashleychester"
## [139] "Lake Josetown"           "Debraburgh"
## [141] "New Debbiestad"          "West Shaun"
## [143] "Kimberlyhaven"           "Port Lawrence"
## [145] "West Ricardo"            "Lake Jose"
## [147] "Heatherberg"             "South George"
## [149] "Tinachester"             "Port Jodi"
## [151] "Jonathantown"            "Sylviaview"
## [153] "East Timothyport"        "West Roytown"
## [155] "Codyburgh"               "Port Erikhaven"
## [157] "Port Chasemouth"         "Ramirezside"
## [159] "East Michaeltown"        "West Courtney"
## [161] "West Michaelhaven"       "Walshhaven"
## [163] "East Rachelview"         "Curtisport"
## [165] "Frankbury"               "Timothytown"
## [167] "Samanthaland"            "South Jennifer"
## [169] "Kyleborough"             "North Randy"
## [171] "South Daniellefort"      "Dianashire"
## [173] "East Eric"               "Hammondport"
## [175] "Jacobstad"               "Hernandezfort"
## [177] "Joneston"                "New Jeffreychester"
## [179] "East Stephen"            "Turnerchester"
## [181] "Youngfort"               "Ingramberg"
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## [185] "Bernardton"              "Port Mathew"
## [187] "Aliciatown"              "Josephstad"
## [189] "West Ericfurt"           "New Brendafurt"
## [191] "Port Julie"              "South Tiffanyton"
## [193] "North Elizabeth"         "Kentmouth"
## [195] "West Casey"              "East Henry"
## [197] "Hollyfurt"               "North Anna"
## [199] "Port Destiny"            "Ianmouth"
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## [211] "Mcdonaldfort"            "North Mercedes"
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## [223] "Townsendfurt"            "Williamstad"
## [225] "West Connor"             "West Justin"
## [227] "Robertbury"              "New Tinamouth"
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## [233] "New Nancy"               "Lisamouth"
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## [237] "North Kevinside"         "Haleview"
## [239] "Christinetown"           "New Michael"
## [241] "Jonesland"               "North Shannon"
## [243] "New Sonialand"           "Port Jason"
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## [251] "North Tracyport"         "Brownport"
## [253] "Port Crystal"            "Masonhaven"
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## [289] "Lake Allenville"         "Greenechester"
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## [293] "South Troy"              "Lake Patrick"
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## [313] "Jacksonmouth"            "North April"
## [315] "Hayesmouth"              "South Corey"
## [317] "Juliaport"               "Port Paultown"
## [319] "East Vincentstad"        "Kimberlytown"
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## [325] "Jeffreyburgh"            "Faithview"
## [327] "Richardsontown"          "Port Brookeland"
## [329] "East Christopherbury"    "Port Christinemouth"
## [331] "South Meghan"            "Hessstad"
## [333] "Rhondaborough"           "Lewismouth"
## [335] "New Paul"                "Lake Angela"
## [337] "East Graceland"          "Hartport"
## [339] "East Yvonnechester"      "Burgessside"
## [341] "Hurleyborough"           "Garychester"
## [343] "East Kevinbury"          "Contrerasshire"
## [345] "Erikville"               "Robertsonburgh"
## [347] "Karenton"                "Port Kathleenfort"
## [349] "Lake Adrian"             "Mollyport"
## [351] "Sandraland"              "Charlenetown"
```

```
## [353] "Luischester"             "South Johnnymouth"
## [355] "Hannaport"               "East Anthony"
## [357] "West Daleborough"        "Morrismouth"
## [359] "North Andrewstad"        "West Tanya"
## [361] "Novaktown"               "Timothymouth"
## [363] "Robertmouth"             "Stephenborough"
## [365] "Lake Kurtmouth"          "Lauraburgh"
## [367] "Rogerburgh"              "Davidside"
## [369] "West Thomas"             "Andersonchester"
## [371] "North Ronaldshire"       "Greghaven"
## [373] "Jordanmouth"             "Meyersstad"
## [375] "South Robert"            "New Tyler"
## [377] "Jordanshire"             "Reyesland"
## [379] "New Traceystad"          "Port Brian"
## [381] "Lake Courtney"           "Samuelborough"
## [383] "Christinehaven"          "Thomasstad"
## [385] "Kristintown"             "New Wanda"
## [387] "Mariebury"               "Christopherville"
## [389] "New Jasmine"             "Lopezberg"
## [391] "Jenniferstad"            "West Eduardotown"
## [393] "Davisfurt"               "Bakerhaven"
## [395] "Paulshire"               "West Jane"
## [397] "Lake Brian"              "Alvaradoport"
## [399] "Lake Kevin"              "Richardsonland"
## [401] "East Sheriville"         "Port Michealburgh"
## [403] "Monicaview"              "Katieport"
## [405] "East Brittanyville"      "West Travismouth"
## [407] "Leonchester"             "Ramirezland"
## [409] "Brownton"                "New Jessicaport"
## [411] "New Denisebury"          "Keithtown"
## [413] "Port Melissastad"        "Janiceview"
## [415] "Mataberg"                "West Melaniefurt"
## [417] "Millerfort"              "Alexanderview"
## [419] "South Jade"              "Lake Susan"
## [421] "South Vincentchester"    "Williamsmouth"
## [423] "Taylorport"              "Williamsport"
## [425] "Emilyfurt"               "East Deborahhaven"
## [427] "Port Katelynview"        "Paulhaven"
## [429] "Elizabethmouth"          "Lake Jesus"
## [431] "North Tylerland"         "Munozberg"
## [433] "North Maryland"          "West Barbara"
## [435] "Andrewborough"           "New Gabriel"
## [437] "Port Patrickton"         "West Julia"
## [439] "New Keithburgh"          "Richardsland"
## [441] "North Aaronchester"      "Lake Matthewland"
## [443] "Kevinberg"               "Morganfort"
## [445] "Lovemouth"               "Taylorhaven"
## [447] "Jamesville"              "East Toddfort"
## [449] "East Dana"               "West Lucas"
## [451] "Butlerfort"              "Lindaside"
## [453] "West Chloeborough"       "Jayville"
## [455] "East Lindsey"            "Masseyshire"
## [457] "Sarahton"                "Ryanhaven"
## [459] "Lake Deborahburgh"       "New Williammouth"
```

```
## [461] "Port Blake"              "West Richard"
## [463] "Brandymouth"             "Sandraville"
## [465] "Port Jessica"            "Lake Jasonchester"
## [467] "Pearsonfort"             "Sellerstown"
## [469] "Yuton"                   "Smithtown"
## [471] "Joanntown"               "South Peter"
## [473] "Port Mitchell"           "Pottermouth"
## [475] "Lake Jonathanview"       "Alanview"
## [477] "Carterport"              "New Daniellefort"
## [479] "Welchshire"              "Russellville"
## [481] "West Lisa"               "Greentown"
## [483] "Timothyport"             "Teresahaven"
## [485] "Lake Stephenborough"     "Silvaton"
## [487] "West Michaelstad"        "Florestown"
## [489] "New Jay"                 "North Lisachester"
## [491] "Port Stacy"              "Jensenton"
## [493] "North Alexandra"         "Rivasland"
## [495] "Helenborough"            "Garnerberg"
## [497] "North Anaport"           "Pattymouth"
## [499] "South Alexisborough"     "East Jennifer"
## [501] "Hallfort"                "New Charleschester"
## [503] "East Breannafurt"        "East Susanland"
## [505] "Estesfurt"               "Shirleyfort"
## [507] "Douglasview"             "South Lisa"
## [509] "Kingshire"               "Rebeccamouth"
## [511] "Brownbury"               "South Aaron"
## [513] "North Andrew"            "South Walter"
## [515] "Catherinefort"           "East Donna"
## [517] "North Kimberly"          "South Stephanieport"
## [519] "North Isabellaville"     "North Aaronburgh"
## [521] "Port James"              "Danielview"
## [523] "Port Stacey"             "West Kevinfurt"
## [525] "Lake Jennifer"           "Reyesfurt"
## [527] "West Carmenfurt"         "North Stephanieberg"
## [529] "East Valerie"            "Sherrishire"
## [531] "Port Daniel"             "Brownview"
## [533] "Greerton"                "Hatfieldshire"
## [535] "Brianabury"              "New Maria"
## [537] "Colebury"                "Calebberg"
## [539] "Lake Ian"                "Gomezport"
## [541] "Shaneland"               "East Aaron"
## [543] "Dustinborough"           "East Michaelland"
## [545] "East Connie"             "West Shannon"
## [547] "North Lauraland"         "Port Christopher"
## [549] "South Patrickfort"       "East Georgeside"
## [551] "Charlesbury"             "South Renee"
## [553] "South Jackieberg"        "Loriville"
## [555] "Amandaland"              "West Robertside"
## [557] "North Sarashire"         "Port Maria"
## [559] "East Jessefort"          "Port Anthony"
## [561] "Edwardmouth"             "Dustinchester"
## [563] "Rochabury"               "Austinland"
## [565] "Lake Gerald"             "Wrightview"
## [567] "Perryburgh"              "Tracyhaven"
```

```
## [569] "South Jaimeview"         "Sandersland"
## [571] "South Meredithmouth"     "Richardsonshire"
## [573] "Kimberlymouth"           "Meghanchester"
## [575] "Tammyshire"              "Lake Elizabethside"
## [577] "Villanuevaton"           "Greerport"
## [579] "North Garyhaven"         "East Sharon"
## [581] "Johnstonmouth"           "East Heatherside"
## [583] "Richardsonmouth"         "Jenniferhaven"
## [585] "Boyerberg"               "Port Elijah"
## [587] "Knappburgh"              "New Dawnland"
## [589] "Chapmanmouth"            "Robertside"
## [591] "West Raymondmouth"       "Costaburgh"
## [593] "Kristineberg"            "Sandrashire"
## [595] "Andersonfurt"            "Tranland"
## [597] "Michaelland"             "East Rachaelfurt"
## [599] "Lake Johnbury"           "Elizabethstad"
## [601] "West Brad"               "Johnstonshire"
## [603] "Lake Timothy"            "Anthonyfurt"
## [605] "East Brettton"           "New Matthew"
## [607] "Christopherchester"      "Westshire"
## [609] "Alexisland"              "Kevinchester"
## [611] "New Patriciashire"       "Port Brenda"
## [613] "Port Brianfort"          "Portermouth"
## [615] "Hubbardmouth"            "South Brian"
## [617] "Hendrixmouth"            "Julietown"
## [619] "Lukeport"                "New Shane"
## [621] "Lake Jillville"          "Johnsonfort"
## [623] "Adamsbury"               "East Maureen"
## [625] "North Angelastad"        "Amandafort"
## [627] "Michaelmouth"            "Ronaldport"
## [629] "Port Davidland"          "Isaacborough"
## [631] "Lake Michael"            "West Michaelshire"
## [633] "Port Calvintown"         "Parkerhaven"
## [635] "Markhaven"               "Estradashire"
## [637] "Brianland"               "Cassandratown"
## [639] "West Dannyberg"          "East Debraborough"
## [641] "Frankchester"            "Lisafort"
## [643] "Colemanshire"            "Troyville"
## [645] "Hobbsbury"               "Harrisonmouth"
## [647] "Port Eugeneport"         "Karenmouth"
## [649] "Brendaburgh"             "New Christinatown"
## [651] "Jacksonstad"             "South Margaret"
## [653] "Port Georgebury"         "Sanderstown"
## [655] "Perezland"               "Luisfurt"
## [657] "New Karenberg"           "West Leahton"
## [659] "West Sharon"             "Klineside"
## [661] "Lake Cynthia"            "South Cynthiashire"
## [663] "Lake Jacob"              "West Samantha"
## [665] "Jeremybury"              "Blevinstown"
## [667] "Meyerchester"            "Reginamouth"
## [669] "Donaldshire"             "Salazarbury"
## [671] "Lake Joshuafurt"         "Wintersfort"
## [673] "Jamesmouth"              "Laurieside"
## [675] "Andrewmouth"             "West Angela"
```

```
## [677] "East Carlos"             "Kennedyfurt"
## [679] "Blairville"              "East Donnatown"
## [681] "Matthewtown"             "Brandonbury"
## [683] "New Jamestown"           "Mosleyburgh"
## [685] "Leahside"                "West Wendyland"
## [687] "Lawrenceborough"         "Kennethview"
## [689] "West Mariafort"          "Port Sherrystad"
## [691] "West Melissashire"       "Lesliefort"
## [693] "Shawnside"               "Josephmouth"
## [695] "Garciatown"              "Chaseshire"
## [697] "Destinyfurt"             "Mezaton"
## [699] "New Kayla"               "Carsonshire"
## [701] "Jacquelineshire"         "South Blakestad"
## [703] "North Mark"              "Kingchester"
## [705] "Evansfurt"               "South Adamhaven"
## [707] "Brittanyborough"         "Barbershire"
## [709] "East Ericport"           "Crawfordfurt"
## [711] "Turnerville"             "Kylieview"
## [713] "West Zacharyborough"     "Watsonfort"
## [715] "Dayton"                  "Nicholasport"
## [717] "Whitneyfort"             "Coffeytown"
## [719] "North Johnside"          "Robinsonland"
## [721] "West Ericaport"          "Haleberg"
## [723] "West Michaelport"        "Ericksonmouth"
## [725] "Yangside"                "Estradafurt"
## [727] "Frankport"               "Williamsside"
## [729] "Johnsonview"             "East Heidi"
## [731] "New Angelview"           "Lake Brandonview"
## [733] "Morganport"              "Browntown"
## [735] "Lake Hailey"             "Olsonside"
## [737] "Coxhaven"                "Meaganfort"
## [739] "North Monicaville"       "Mullenside"
## [741] "Princebury"              "Bradleyside"
## [743] "Elizabethbury"           "West Ryan"
## [745] "New Tammy"               "Sanchezland"
## [747] "Rogerland"               "Vanessaview"
## [749] "Jessicashire"            "Melissachester"
## [751] "Johnsontown"             "New Joshuaport"
## [753] "Hernandezside"           "New Williamville"
## [755] "Gilbertville"            "Newmanberg"
## [757] "West Alice"              "Cannonbury"
## [759] "Shelbyport"              "New Henry"
## [761] "Dustinmouth"             "New Hollyberg"
## [763] "Port Brittanyville"      "East Ronald"
## [765] "South Davidmouth"        "Carterton"
## [767] "Rachelhaven"             "New Timothy"
## [769] "North Jessicaville"      "Staceyfort"
## [771] "South Dianeshire"        "Micheletown"
## [773] "North Brittanyburgh"     "Port Jasmine"
## [775] "New Sabrina"             "Lake Charlottestad"
## [777] "West Rhondamouth"        "North Debra"
## [779] "Villanuevastad"          "North Jeremyport"
## [781] "Lake John"               "Courtneyfort"
## [783] "Tammymouth"              "Lake Vanessa"
```

```
## [785] "Lake Amanda"             "Mariemouth"
## [787] "Port Douglasborough"     "Port Aprilville"
## [789] "Lake Faith"              "Wendyville"
## [791] "Angelhaven"              "New Sean"
## [793] "Lake Lisa"               "Valerieland"
## [795] "New Travis"              "North Samantha"
## [797] "Holderville"             "Patrickmouth"
## [799] "Lake Deannaborough"      "Jeffreymouth"
## [801] "Davieshaven"             "Lake Jessicaville"
## [803] "Hernandezchester"        "North Kennethside"
## [805] "Williamport"             "Smithside"
## [807] "Vanessastad"             "Lake Rhondaburgh"
## [809] "Cunninghamhaven"         "Robertstown"
## [811] "South Mark"              "New Taylorburgh"
## [813] "Port Karenfurt"          "Carterland"
## [815] "East Shawn"              "West Derekmouth"
## [817] "Brandiland"              "Cervantesshire"
## [819] "North Debrashire"        "Deannaville"
## [821] "East Christopher"        "Rickymouth"
## [823] "Port Dennis"             "Lake Michelle"
## [825] "East Johnport"           "Sabrinaview"
## [827] "Kristinfurt"             "Chapmanland"
## [829] "North Jonathan"          "Port Christina"
## [831] "Juanport"                "East Mike"
## [833] "North Angelatown"        "West Steven"
## [835] "Riggsstad"               "Davidview"
## [837] "Port Kevinborough"       "Lawsonshire"
## [839] "Wagnerchester"           "Daisymouth"
## [841] "Port Jacquelinestad"     "New Teresa"
## [843] "Henryfort"               "Lake Joseph"
## [845] "Daviesborough"           "North Brandon"
## [847] "Adamside"                "Wademouth"
## [849] "North Raymond"           "Randolphport"
## [851] "East Troyhaven"          "Clarkborough"
## [853] "Josephberg"              "Lake Jenniferton"
## [855] "Ashleymouth"             "Henryland"
## [857] "Lake Danielle"           "Joshuaburgh"
## [859] "South Jeanneport"        "New Nathan"
## [861] "Jonesshire"              "Mariahview"
## [863] "New Julianberg"          "Randyshire"
## [865] "Philipberg"              "West Dennis"
## [867] "Richardshire"            "Lake James"
## [869] "Austinborough"           "Alexandrafort"
## [871] "Melissastad"             "Gonzalezburgh"
## [873] "Port Jennifer"           "Chrismouth"
## [875] "Port Beth"               "West David"
## [877] "Fraziershire"            "South Pamela"
## [879] "North Laurenview"        "Campbellstad"
## [881] "Port Derekberg"          "West Andrew"
## [883] "West Randy"              "South Christopher"
## [885] "Lake Michellebury"       "Zacharyton"
## [887] "West James"              "Millerview"
## [889] "Hawkinsbury"             "Elizabethport"
## [891] "Wadestad"                "Mauriceshire"
```

```
## [893] "West Arielstad"          "Adamsstad"
## [895] "Blairborough"            "New Marcusbury"
## [897] "Evansville"              "Huffmanchester"
## [899] "New Cynthia"             "Joshuamouth"
## [901] "West Benjamin"           "Williamsfort"
## [903] "North Tiffany"           "Edwardsport"
## [905] "Lake Evantown"           "South Henry"
## [907] "Harmonhaven"             "West Gregburgh"
## [909] "Hansenland"              "Port Michaelmouth"
## [911] "Tylerport"               "West Lacey"
## [913] "North Jenniferburgh"     "South Davidhaven"
## [915] "North Charlesbury"       "Jonathanland"
## [917] "North Virginia"          "West Tanner"
## [919] "Jonesmouth"              "West Annefort"
## [921] "East Jason"              "North Cassie"
## [923] "Hintonport"              "New James"
## [925] "North Destiny"           "Mclaughlinbury"
## [927] "West Gabriellamouth"     "Alvarezland"
## [929] "New Julie"               "North Frankstad"
## [931] "Claytonside"             "Melanieton"
## [933] "Lake Michaelport"        "East Benjaminville"
## [935] "Garrettborough"          "Port Raymondfort"
## [937] "Waltertown"              "Cameronberg"
## [939] "Kaylashire"              "Fosterside"
## [941] "Davidstad"               "Lake Tracy"
## [943] "Taylormouth"             "Dianaville"
## [945] "Collinsburgh"            "Port Rachel"
## [947] "South Rebecca"           "Port Joshuafort"
## [949] "Robinsontown"            "Beckton"
## [951] "New Frankshire"          "North Derekville"
## [953] "West Sydney"             "Lake Matthew"
## [955] "Lake Zacharyfurt"        "Lindsaymouth"
## [957] "Sarahland"               "Michaelshire"
## [959] "Sarafurt"                "South Denise"
## [961] "North Katie"             "Mauricefurt"
## [963] "New Patrick"             "Edwardsmouth"
## [965] "Nicholasland"            "Duffystad"
## [967] "New Darlene"             "South Jessica"
## [969] "Ronniemouth"
```

```
print("Male unique values are:")
```

```
## [1] "Male unique values are:"
```

```
unique(mydata$Male)
```

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

```
print("Country unique values are:")
```

```
## [1] "Country unique values are:"
```

```
unique(mydata$Country)
```

```
##   [1] "Tunisia"
##   [2] "Nauru"
##   [3] "San Marino"
```

```
##   [4] "Italy"
##   [5] "Iceland"
##   [6] "Norway"
##   [7] "Myanmar"
##   [8] "Australia"
##   [9] "Grenada"
##  [10] "Ghana"
##  [11] "Qatar"
##  [12] "Burundi"
##  [13] "Egypt"
##  [14] "Bosnia and Herzegovina"
##  [15] "Barbados"
##  [16] "Spain"
##  [17] "Palestinian Territory"
##  [18] "Afghanistan"
##  [19] "British Indian Ocean Territory (Chagos Archipelago)"
##  [20] "Russian Federation"
##  [21] "Cameroon"
##  [22] "Korea"
##  [23] "Tokelau"
##  [24] "Monaco"
##  [25] "Tuvalu"
##  [26] "Greece"
##  [27] "British Virgin Islands"
##  [28] "Bouvet Island (Bouvetoya)"
##  [29] "Peru"
##  [30] "Aruba"
##  [31] "Maldives"
##  [32] "Senegal"
##  [33] "Dominica"
##  [34] "Luxembourg"
##  [35] "Montenegro"
##  [36] "Ukraine"
##  [37] "Saint Helena"
##  [38] "Liberia"
##  [39] "Turkmenistan"
##  [40] "Niger"
##  [41] "Sri Lanka"
##  [42] "Trinidad and Tobago"
##  [43] "United Kingdom"
##  [44] "Guinea-Bissau"
##  [45] "Micronesia"
##  [46] "Turkey"
##  [47] "Croatia"
##  [48] "Israel"
##  [49] "Svalbard & Jan Mayen Islands"
##  [50] "Azerbaijan"
##  [51] "Iran"
##  [52] "Saint Vincent and the Grenadines"
##  [53] "Bulgaria"
##  [54] "Christmas Island"
##  [55] "Canada"
##  [56] "Rwanda"
##  [57] "Turks and Caicos Islands"
```

```
##  [58] "Norfolk Island"
##  [59] "Cook Islands"
##  [60] "Guatemala"
##  [61] "Cote d'Ivoire"
##  [62] "Faroe Islands"
##  [63] "Ireland"
##  [64] "Moldova"
##  [65] "Nicaragua"
##  [66] "Montserrat"
##  [67] "Timor-Leste"
##  [68] "Puerto Rico"
##  [69] "Central African Republic"
##  [70] "Venezuela"
##  [71] "Wallis and Futuna"
##  [72] "Jersey"
##  [73] "Samoa"
##  [74] "Antarctica (the territory South of 60 deg S)"
##  [75] "Albania"
##  [76] "Hong Kong"
##  [77] "Lithuania"
##  [78] "Bangladesh"
##  [79] "Western Sahara"
##  [80] "Serbia"
##  [81] "Czech Republic"
##  [82] "Guernsey"
##  [83] "Tanzania"
##  [84] "Bhutan"
##  [85] "Guinea"
##  [86] "Madagascar"
##  [87] "Lebanon"
##  [88] "Eritrea"
##  [89] "Guyana"
##  [90] "United Arab Emirates"
##  [91] "Martinique"
##  [92] "Somalia"
##  [93] "Benin"
##  [94] "Papua New Guinea"
##  [95] "Uzbekistan"
##  [96] "South Africa"
##  [97] "Hungary"
##  [98] "Falkland Islands (Malvinas)"
##  [99] "Saint Martin"
## [100] "Cuba"
## [101] "United States Minor Outlying Islands"
## [102] "Belize"
## [103] "Kuwait"
## [104] "Thailand"
## [105] "Gibraltar"
## [106] "Holy See (Vatican City State)"
## [107] "Netherlands"
## [108] "Belarus"
## [109] "New Zealand"
## [110] "Togo"
## [111] "Kenya"
```

```
## [112] "Palau"
## [113] "Cambodia"
## [114] "Costa Rica"
## [115] "Liechtenstein"
## [116] "Angola"
## [117] "Equatorial Guinea"
## [118] "Mongolia"
## [119] "Brazil"
## [120] "Chad"
## [121] "Portugal"
## [122] "Malawi"
## [123] "Singapore"
## [124] "Kazakhstan"
## [125] "China"
## [126] "Vietnam"
## [127] "Mayotte"
## [128] "Jamaica"
## [129] "Bahamas"
## [130] "Algeria"
## [131] "Fiji"
## [132] "Argentina"
## [133] "Philippines"
## [134] "Suriname"
## [135] "Guam"
## [136] "Antigua and Barbuda"
## [137] "Georgia"
## [138] "Jordan"
## [139] "Saudi Arabia"
## [140] "Sao Tome and Principe"
## [141] "Cyprus"
## [142] "Kyrgyz Republic"
## [143] "Pakistan"
## [144] "Seychelles"
## [145] "Mauritania"
## [146] "Chile"
## [147] "Poland"
## [148] "Estonia"
## [149] "Latvia"
## [150] "Bahrain"
## [151] "Colombia"
## [152] "Brunei Darussalam"
## [153] "Taiwan"
## [154] "Saint Pierre and Miquelon"
## [155] "Finland"
## [156] "French Southern Territories"
## [157] "Sierra Leone"
## [158] "Tajikistan"
## [159] "Ecuador"
## [160] "Switzerland"
## [161] "France"
## [162] "Malaysia"
## [163] "Mauritius"
## [164] "Japan"
## [165] "Greenland"
```

```
## [166] "Guadeloupe"
## [167] "Belgium"
## [168] "Honduras"
## [169] "Paraguay"
## [170] "French Guiana"
## [171] "Northern Mariana Islands"
## [172] "American Samoa"
## [173] "Austria"
## [174] "Tonga"
## [175] "New Caledonia"
## [176] "United States of America"
## [177] "Morocco"
## [178] "Macedonia"
## [179] "Gabon"
## [180] "Uganda"
## [181] "Saint Lucia"
## [182] "Niue"
## [183] "Zambia"
## [184] "Congo"
## [185] "Pitcairn Islands"
## [186] "Anguilla"
## [187] "Sweden"
## [188] "Indonesia"
## [189] "Mexico"
## [190] "Haiti"
## [191] "Gambia"
## [192] "El Salvador"
## [193] "Libyan Arab Jamahiriya"
## [194] "Saint Barthelemy"
## [195] "Reunion"
## [196] "Panama"
## [197] "Dominican Republic"
## [198] "Zimbabwe"
## [199] "Swaziland"
## [200] "Saint Kitts and Nevis"
## [201] "Burkina Faso"
## [202] "Heard Island and McDonald Islands"
## [203] "Bolivia"
## [204] "Netherlands Antilles"
## [205] "French Polynesia"
## [206] "Germany"
## [207] "Malta"
## [208] "Sudan"
## [209] "Lao People's Democratic Republic"
## [210] "Isle of Man"
## [211] "Macao"
## [212] "United States Virgin Islands"
## [213] "Djibouti"
## [214] "Mali"
## [215] "Romania"
## [216] "Cayman Islands"
## [217] "Ethiopia"
## [218] "Uruguay"
## [219] "Comoros"
```

```
## [220] "Vanuatu"
## [221] "Nepal"
## [222] "Yemen"
## [223] "India"
## [224] "Cape Verde"
## [225] "Slovenia"
## [226] "Denmark"
## [227] "Syrian Arab Republic"
## [228] "Andorra"
## [229] "Namibia"
## [230] "Slovakia (Slovak Republic)"
## [231] "Armenia"
## [232] "South Georgia and the South Sandwich Islands"
## [233] "Kiribati"
## [234] "Marshall Islands"
## [235] "Bermuda"
## [236] "Mozambique"
## [237] "Lesotho"
```

```
print("Clicked.on.Ad unique values are:")
```

```
## [1] "Clicked.on.Ad unique values are:"
```

```
unique(mydata$Clicked.on.Ad)
```

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

All the columns had the right data type but we will change the data type for male and Clicked.on.Ad from integer to factor because they are binary class therefore the categorical type will suit best.

```
# Checking for the descriptive summary
summary(mydata)
```

```
##  Daily.Time.Spent.on.Site      Age         Area.Income    Daily.Internet.Usage
##  Min.   :32.60            Min.   :19.00   Min.   :13996   Min.   :104.8
##  1st Qu.:51.36            1st Qu.:29.00   1st Qu.:47032   1st Qu.:138.8
##  Median :68.22            Median :35.00   Median :57012   Median :183.1
##  Mean   :65.00            Mean   :36.01   Mean   :55000   Mean   :180.0
##  3rd Qu.:78.55            3rd Qu.:42.00   3rd Qu.:65471   3rd Qu.:218.8
##  Max.   :91.43            Max.   :61.00   Max.   :79485   Max.   :270.0
##  Ad.Topic.Line          City                Male         Country
##  Length:1000        Length:1000        Min.   :0.000   Length:1000
##  Class :character   Class :character   1st Qu.:0.000   Class :character
##  Mode  :character   Mode  :character   Median :0.000   Mode  :character
##                                        Mean   :0.481
##                                        3rd Qu.:1.000
##                                        Max.   :1.000
##   Timestamp         Clicked.on.Ad
##  Length:1000        Min.   :0.0
##  Class :character   1st Qu.:0.0
##  Mode  :character   Median :0.5
##                     Mean   :0.5
##                     3rd Qu.:1.0
##                     Max.   :1.0
```

Tidying the Dataset

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

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

```
sum(is.na(mydata))
```

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

There are no missing values

Changing the male and Clicked.on.Ad datatype

```
# Changing to factor
mydata$Male = as.factor(mydata$Male)
mydata$Clicked.on.Ad = as.factor(mydata$Clicked.on.Ad)

# Checkingclass changed
class(mydata$Male)
```

```
## [1] "factor"
```

```
class(mydata$Clicked.on.Ad)
```

```
## [1] "factor"
```

```
# The class changed from integer to factor

print("Summary after")
```

```
## [1] "Summary after"
```

```
summary(mydata)
```

```
##  Daily.Time.Spent.on.Site      Age          Area.Income    Daily.Internet.Usage
##  Min.   :32.60            Min.   :19.00   Min.   :13996   Min.   :104.8
##  1st Qu.:51.36            1st Qu.:29.00   1st Qu.:47032   1st Qu.:138.8
##  Median :68.22            Median :35.00   Median :57012   Median :183.1
##  Mean   :65.00            Mean   :36.01   Mean   :55000   Mean   :180.0
##  3rd Qu.:78.55            3rd Qu.:42.00   3rd Qu.:65471   3rd Qu.:218.8
##  Max.   :91.43            Max.   :61.00   Max.   :79485   Max.   :270.0
##  Ad.Topic.Line          City           Male      Country
##  Length:1000        Length:1000        0:519   Length:1000
##  Class :character   Class :character   1:481   Class :character
##  Mode  :character   Mode  :character           Mode  :character
##
##
##
##   Timestamp         Clicked.on.Ad
##  Length:1000        0:500
##  Class :character   1:500
##  Mode  :character
##
##
##
```

Duplicates

```
mydata<- mydata[!duplicated(mydata), ]             # Remove duplicated rows
mydata                                 # Print unique data
```

```
##      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
## 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
```

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## 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
```

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## 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
```

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## 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
## 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
```

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## 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
## 197                                  Suriname 2016-07-09 11:04:54
## 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
## 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
```

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## 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
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## 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
## 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
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## 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
## 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
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## 772                                        Gabon 2016-05-27 05:23:26
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## 776                                      Somalia 2016-06-04 17:24:07
## 777                                      Albania 2016-04-07 18:52:57
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## 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
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## 791                      Northern Mariana Islands 2016-03-17 06:25:47
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## 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
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## 805                                       Turkey 2016-06-12 11:17:25
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## 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
## 814                                Cayman Islands 2016-01-20 02:31:36
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## 816                           Wallis and Futuna 2016-01-17 04:12:30
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## 818                                         Chad 2016-03-26 19:37:46
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## 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
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## 826                                        Fiji 2016-03-23 05:27:35
## 827                                 Philippines 2016-03-04 13:47:47
## 828                                     Vietnam 2016-06-14 12:08:10
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## 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
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## 846                                       Spain 2016-05-25 00:34:59
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## 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
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## 854                                    Zimbabwe 2016-07-13 21:31:14
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## 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
## 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
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## 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
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## 887                                        France 2016-06-30 00:43:40
## 888                             Equatorial Guinea 2016-02-24 06:17:18
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## 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
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## 910                                       Vanuatu 2016-02-25 16:33:24
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## 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
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## 921                                      Malaysia 2016-05-18 00:07:43
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## 923          Lao People's Democratic Republic 2016-05-19 04:23:41
## 924                                      Bahamas 2016-04-29 20:40:21
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## 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
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## 934                                    Albania 2016-06-27 01:56:36
## 935                                 Mozambique 2016-06-03 04:51:46
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## 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
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## 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
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## 946                                    Lesotho 2016-02-02 04:57:50
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## 951                                      Haiti 2016-01-11 08:18:12
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## 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
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## 963                                    Belarus 2016-01-22 12:58:14
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## 965                                       Mali 2016-01-03 07:13:53
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## 976                                     Mexico 2016-06-13 06:11:33
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## 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
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## 990                          Saint Pierre and Miquelon 2016-06-26 07:01:47
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## 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
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## 298              0
## 299              0
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## 310              1
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## 311              0
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## 316              1
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## 365              0
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## 577              1
## 578              0
## 579              0
## 580              0
```

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## 581              1
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## 589              0
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## 593              0
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## 597              0
## 598              0
## 599              0
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## 603              1
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## 633              0
## 634              1
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## 635              1
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## 680              1
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## 688              0
```

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## 689              0
## 690              0
## 691              0
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## 698              0
## 699              0
## 700              0
## 701              0
## 702              1
## 703              1
## 704              0
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## 710              1
## 711              1
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## 719              0
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## 742              0
```

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## 796             0
```

```
## 797              0
## 798              0
## 799              0
## 800              0
## 801              1
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## 850              1
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## 868              0
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## 905              0
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## 956              1
## 957              1
## 958              0
```

```
## 959              0
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## 961              1
## 962              0
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## 968              0
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## 990              0
## 991              1
## 992              1
## 993              1
## 994              0
## 995              1
## 996              1
## 997              1
## 998              1
## 999              0
## 1000             1
```

There are no duplicates

Finding outliers

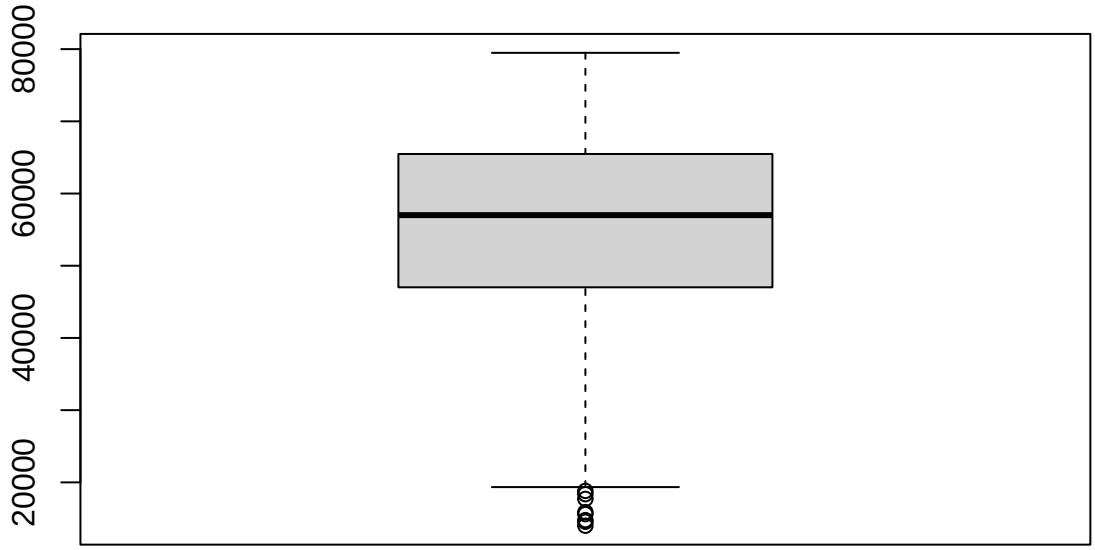
```
# To check for outliers

summary(mydata)
```

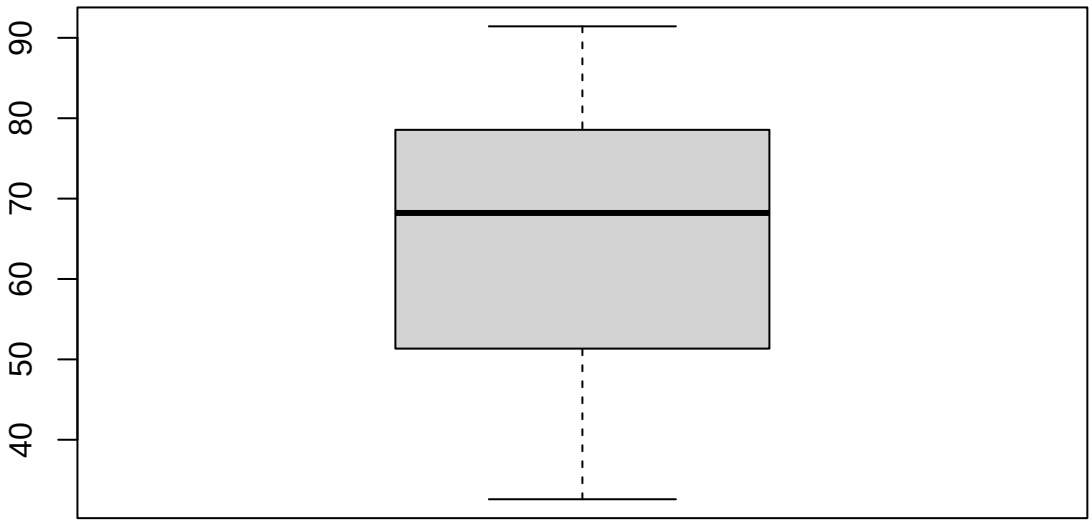
```
##  Daily.Time.Spent.on.Site      Age          Area.Income    Daily.Internet.Usage
##  Min.   :32.60            Min.   :19.00   Min.   :13996   Min.   :104.8
##  1st Qu.:51.36            1st Qu.:29.00   1st Qu.:47032   1st Qu.:138.8
##  Median :68.22            Median :35.00   Median :57012   Median :183.1
```

```
##  Mean   :65.00            Mean   :36.01   Mean   :55000   Mean   :180.0
##  3rd Qu.:78.55            3rd Qu.:42.00   3rd Qu.:65471   3rd Qu.:218.8
##  Max.   :91.43            Max.   :61.00   Max.   :79485   Max.   :270.0
##  Ad.Topic.Line          City           Male      Country
##  Length:1000        Length:1000        0:519   Length:1000
##  Class :character   Class :character   1:481   Class :character
##  Mode  :character   Mode  :character           Mode  :character
##
##
##
##   Timestamp         Clicked.on.Ad
##  Length:1000        0:500
##  Class :character   1:500
##  Mode  :character
##
##
##
```

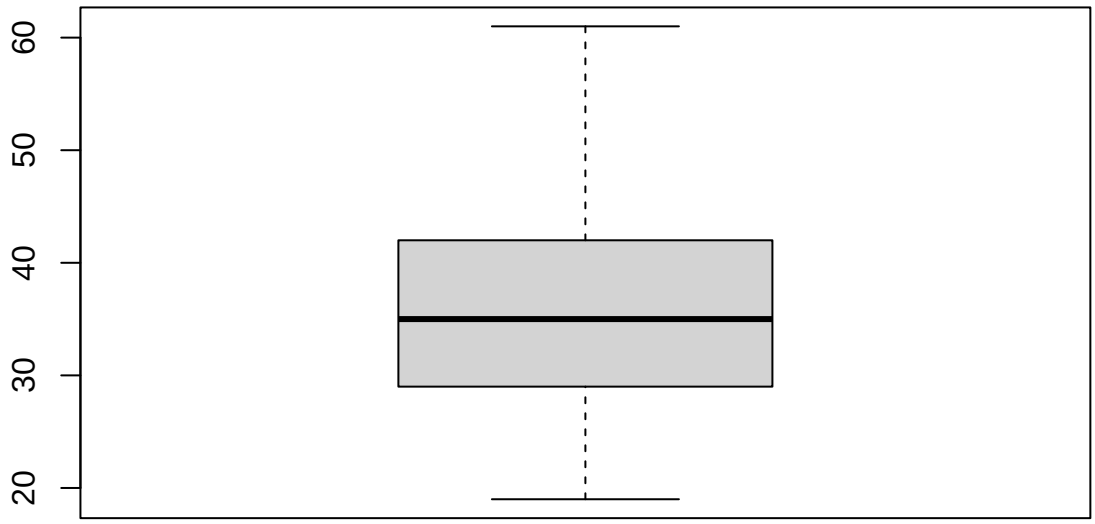
```
boxplot(mydata$Area.Income)  # only this column has outliers
```



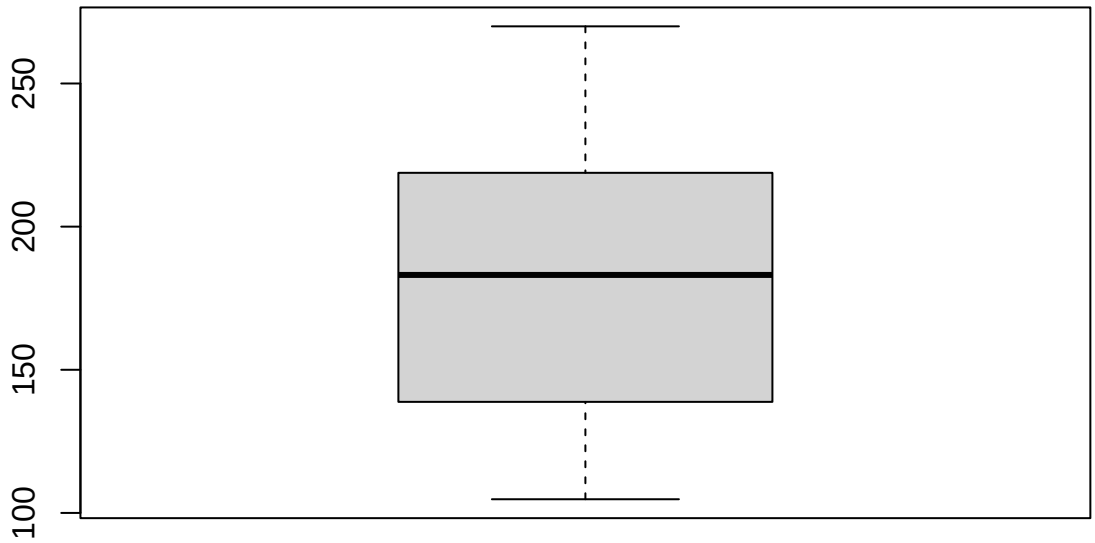

```
boxplot(mydata$Daily.Time.Spent.on.Site)
```




```
boxplot(mydata$Age)
```




```
boxplot(mydata$Daily.Internet.Usage)
```



The outliers were removed.

Exploratory Data Analysis

Univariate Analysis

Mean

```
cat("The mean for Daily Time Spent on Site is",mean(mydata$Daily.Time.Spent.on.Site))
```

```
## The mean for Daily Time Spent on Site is 65.0002
```

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

```
cat("The mean for age is",mean(mydata$Age))
```

```
## The mean for age is 36.009
```

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

```
cat("The mean for Area.Income is",mean(mydata$Area.Income))
```

```
## The mean for Area.Income is 55000
```

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

```
cat("The mean for daily Internet Usage is",mean(mydata$Daily.Internet.Usage))
```

```
## The mean for daily Internet Usage is 180.0001
```

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

Median

```
# The simple printing method in R is to use print(). As its name indicates, this method prints its argu


cat("The median for Daily Time Spent on Site is",median(mydata$Daily.Time.Spent.on.Site))
```

```
## The median for Daily Time Spent on Site is 68.215
```

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

```
cat("The median for age is",median(mydata$Age))
```

```
## The median for age is 35
```

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

```
cat("The median for Area.Income is",median(mydata$Area.Income))
```

```
## The median for Area.Income is 57012.3
```

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

```
cat("The median for daily Internet Usage is",median(mydata$Daily.Internet.Usage))
```

```
## The median for daily Internet Usage is 183.13
```

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

Mode

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

```
cat("The mode for income is",getmode(mydata$Area.Income))
```

```
## The mode for income is 61833.9
```

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

```
cat("The mode for daily time spent on site is",getmode(mydata$Daily.Time.Spent.on.Site))
```

```
## The mode for daily time spent on site is 62.26
```

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

```
cat("The mode for gender is",getmode(mydata$Male))
```

```
## The mode for gender is 1
```

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

```
cat("The mode for age is",getmode(mydata$Age))
```

```
## The mode for age is 31
```

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

```
cat("The mode for Daily Internet Usage",getmode(mydata$Daily.Internet.Usage))
```

```
## The mode for Daily Internet Usage 167.22
```

Standard Deviation

```
cat("The standard deviation for Daily Time Spent on Site is",sd(mydata$Daily.Time.Spent.on.Site))
```

```
## The standard deviation for Daily Time Spent on Site is 15.85361
```

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

```
cat("The standard deviation for age is",sd(mydata$Age))
```

```
## The standard deviation for age is 8.785562
```

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

```
cat("The standard deviation for Area.Income is",sd(mydata$Area.Income))
```

```
## The standard deviation for Area.Income is 13414.63
```

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

```
cat("The standard deviation for daily Internet Usage is",sd(mydata$Daily.Internet.Usage))
```

```
## The standard deviation for daily Internet Usage is 43.90234
```

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

Variance

```
cat("The variance for Daily Time Spent on Site is",var(mydata$Daily.Time.Spent.on.Site))
```

```
## The variance for Daily Time Spent on Site is 251.3371
```

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

```
cat("The variance for daily Internet Usage is",var(mydata$Daily.Internet.Usage))
```

```
## The variance for daily Internet Usage is 1927.415
```

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

```
cat("The variance for age is",var(mydata$Age))
```

```
## The variance for age is 77.18611
```

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

```
cat("The variance for Area.Income is",var(mydata$Area.Income))
```

```
## The variance for Area.Income is 179952406
```

Quantile Range

```
cat("The Quantile for Daily Time Spent on Site is",quantile(mydata$Daily.Time.Spent.on.Site))
```

```
## The Quantile for Daily Time Spent on Site is 32.6 51.36 68.215 78.5475 91.43
```

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

```
cat("The Quantile for daily Internet Usage is",quantile(mydata$Daily.Internet.Usage))
```

```
## The Quantile for daily Internet Usage is 104.78 138.83 183.13 218.7925 269.96
```

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

```r
cat("The Quantile for age is",quantile(mydata$Age))
```

```
## The Quantile for age is 19 29 35 42 61
```

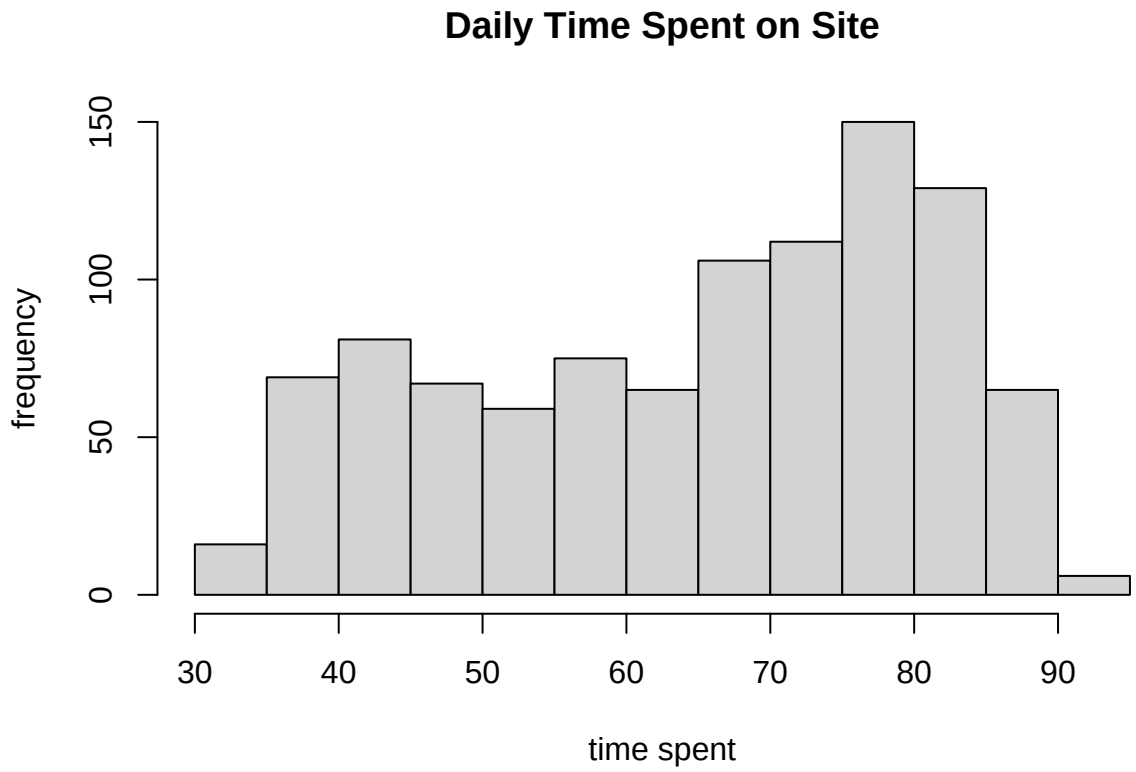
```r
cat("\n")
```

```r
cat("The Quantile for Area.Income is",quantile(mydata$Area.Income))
```

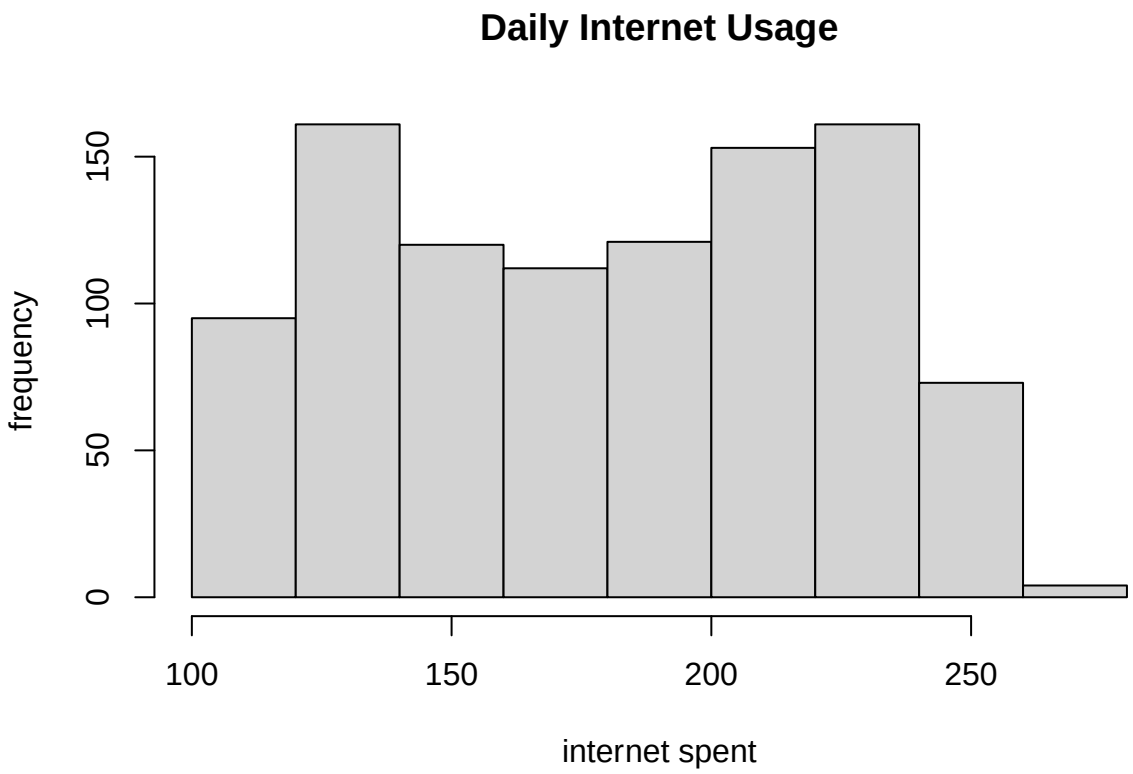
```
## The Quantile for Area.Income is 13996.5 47031.8 57012.3 65470.64 79484.8
```

Histograms

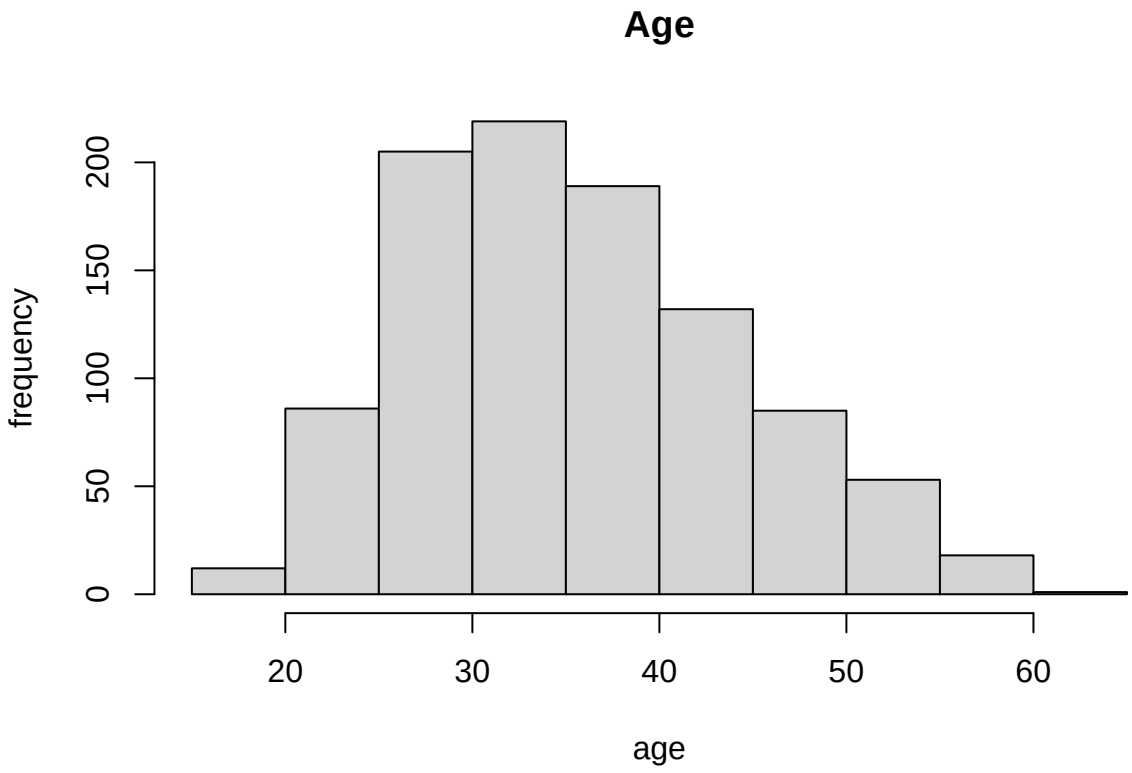
```r
# Plotting the histograms
hist(mydata$Daily.Time.Spent.on.Site, main="Daily Time Spent on Site", xlab="time spent", ylab="frequen
```



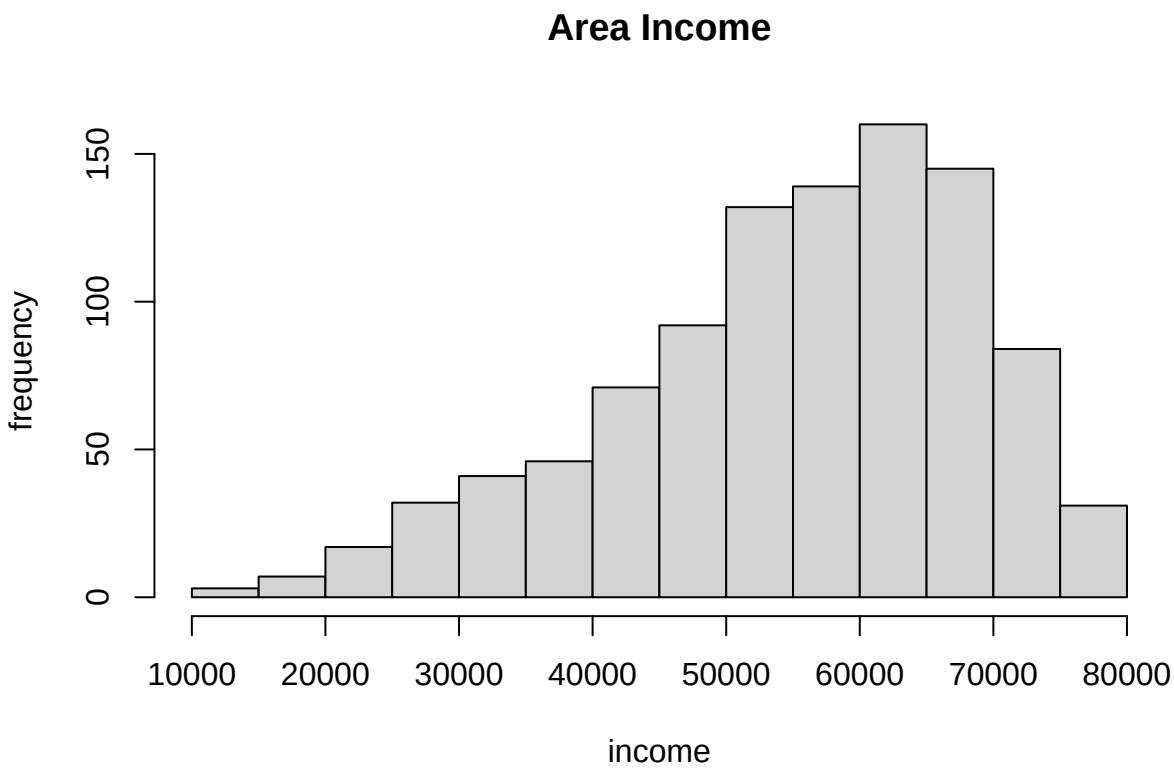

```r
hist(mydata$Daily.Internet.Usage, main="Daily Internet Usage", xlab="internet spent", ylab="frequency")
```




```r
hist(mydata$Age, main="Age", xlab="age", ylab="frequency")
```




```
hist(mydata$Area.Income, main="Area Income", xlab="income", ylab="frequency")
```



1. Time spent was highest between 75 to 80
2. Daily internet spent is highest between 120 and 140
3. The age that recorded the highest in between 30 to 35 years
4. The area income with the highest record is 60,000 to 65,000

Bivariate Analysis

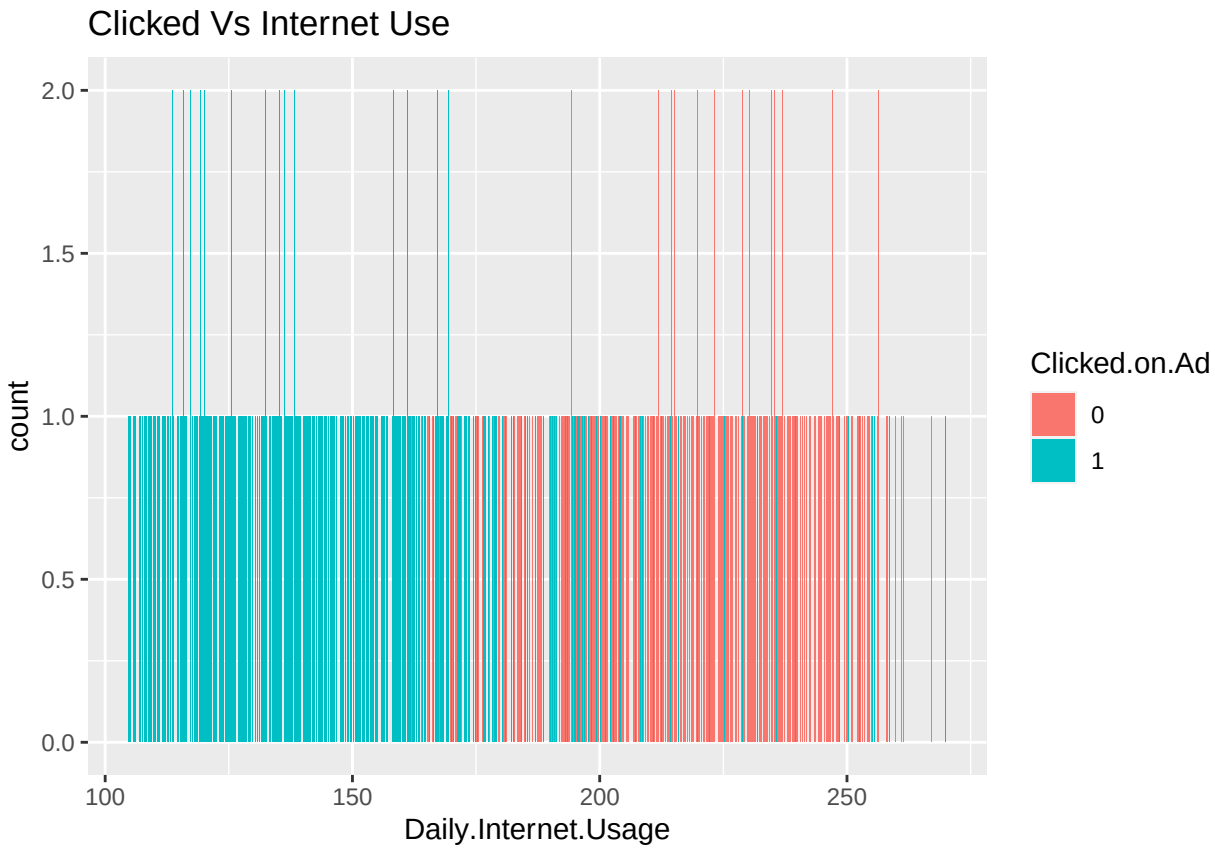
install.packages("ggplot2") library(ggplot2)

```
# Importing the packges needed
install.packages("ggplot2")
```

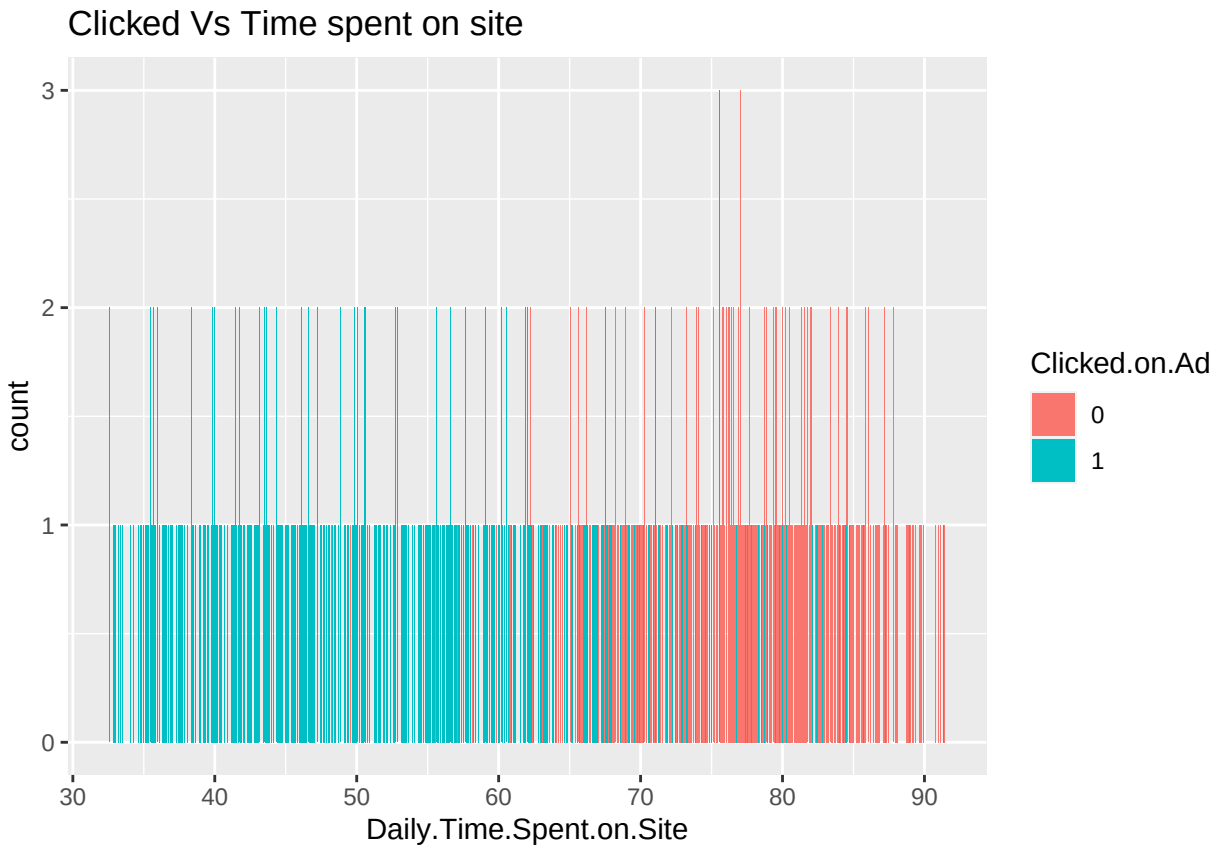
```
## Installing package into '/home/jasmine/R/x86_64-pc-linux-gnu-library/4.1'
## (as 'lib' is unspecified)
```

```
library(ggplot2)

ggplot(mydata, aes(x=Daily.Internet.Usage, fill=Clicked.on.Ad)) +
  geom_bar(position="dodge") + labs(title="Clicked Vs Internet Use")
```

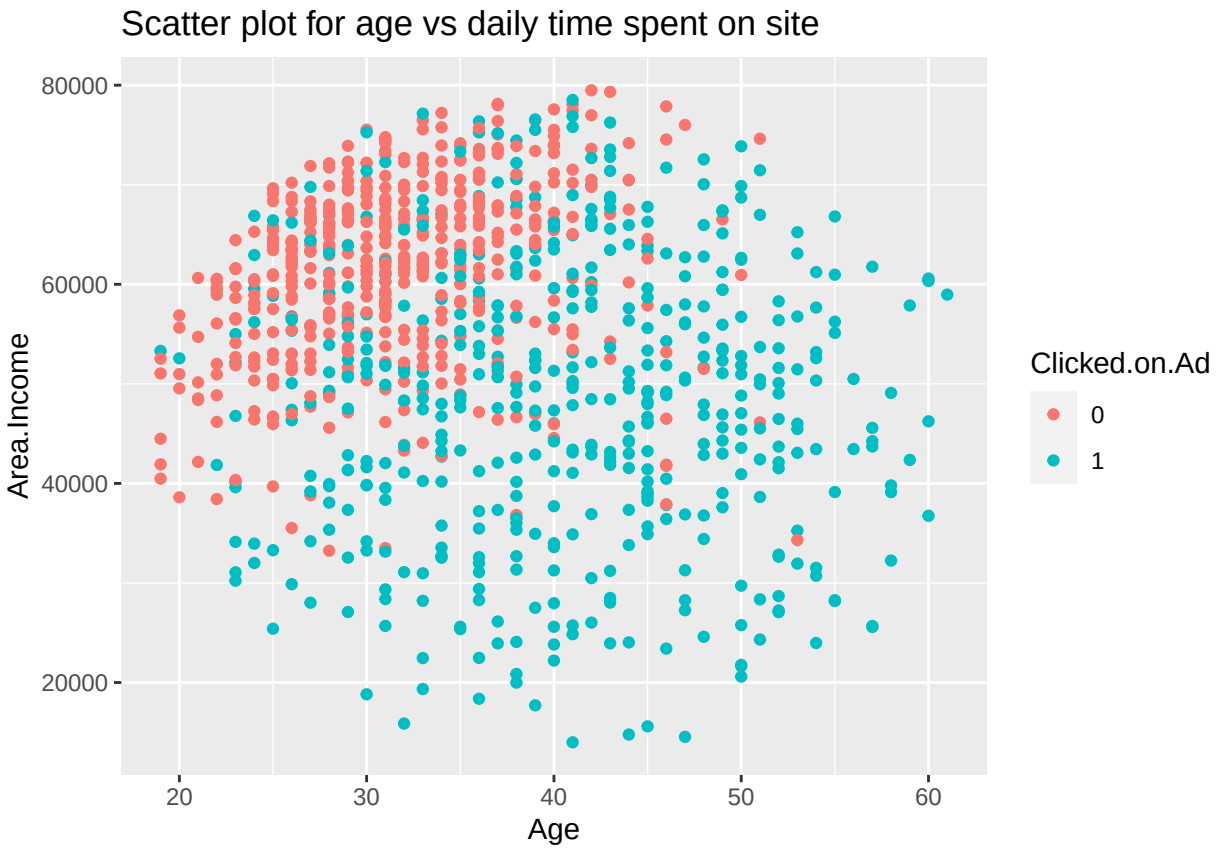



```
ggplot(mydata, aes(x=Daily.Time.Spent.on.Site, fill=Clicked.on.Ad)) +
  geom_bar(position="dodge") + labs(title="Clicked Vs Time spent on site")
```



1. The more the internet useage incresed the customers did not click on Ad
2. The more they spent time on the site the more likely not to click On Ad

```
ggplot(mydata, aes(x = Age, y = `Area.Income`, colour = Clicked.on.Ad)) +
  geom_point() + labs(title = 'Scatter plot for age vs daily time spent on site')
```



1. The age group above 40 are most likely to click on Ad 2. The clients earning 40,000 and above are most likely to not click on Ad.

Create train/test set

```
# We shuffle our dataset before splitting to ensure fair selection of the sample

shuffle_index <- sample(1:nrow(mydata))
head(shuffle_index)
```

```
## [1] 622 929  71   5 239 401
```

```
# We generate a random list of index from 1 to 1000 (i.e. the maximum number of rows).
```

```
# You will use this index to shuffle the mydata dataset

mydata <- mydata[shuffle_index, ]
head(mydata)
```

```
##     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 622                    87.85  31    52178.98               210.27
## 929                    80.53  29    66345.10               187.64
## 71                     46.13  31    60248.97               139.01
## 5                      68.37  35    73889.99               225.58
## 239                    74.32  33    62060.11               128.17
## 401                    35.98  47    55993.68               165.52
##                             Ad.Topic.Line             City Male
## 622          Compatible scalable emulation New Patriciashire    1
```

```
## 929        Sharable upward-trending support     West Benjamin    0
## 71    Customer-focused optimizing moderator        Davidmouth    0
## 5              Robust logistical utilization      South Manuel    0
## 239      Monitored real-time superstructure   North Kevinside    0
## 401 Focused 3rdgeneration pricing structure         West Jane    1
##                         Country           Timestamp Clicked.on.Ad
## 622          French Polynesia 2016-06-14 19:48:34             0
## 929                 Singapore 2016-03-21 08:13:24             0
## 71  Bouvet Island (Bouvetoya) 2016-02-01 09:00:55             1
## 5                     Iceland 2016-06-03 03:36:18             0
## 239              South Africa 2016-05-23 21:14:38             1
## 401               El Salvador 2016-03-10 23:26:54             1
```

```
# We generate a random list of index from 1 to 1000 (i.e. the maximum number of rows).
```

arguments: -data: Dataset used to train the model. -size: Size of the split. By default, 0.8. Numerical value -train: If set to `TRUE`, the function creates the train set, otherwise the test set. Default value sets to `TRUE`. Boolean value.You need to add a Boolean parameter because R does not allow to return two data frames simultaneously.

```
# Creating Training and Test dataset
create_train_test <- function(data, size = 0.8, train = TRUE) {
  n_row = nrow(data)
  total_row = size * n_row
  train_sample = c(1: total_row)
  if (train == TRUE) {
    return (data[train_sample, ])
  } else {
    return (data[-train_sample, ])
  }
}


data_train <- create_train_test(mydata, 0.8, train = TRUE)
data_test <- create_train_test(mydata, 0.8, train = FALSE)

dim(data_train)
```

```
## [1] 800  10
```

```
dim(data_test)
```

```
## [1] 200  10
```

```
# You use the function prop.table() combined with table() to verify if the randomization process is cor

print("For Train:")
```

```
## [1] "For Train:"
```

```
prop.table(table(data_train$Clicked.on.Ad))
```

```
##
##       0       1
## 0.49625 0.50375
```

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

```
print("For Test:")
```

```
## [1] "For Test:"
```

```
prop.table(table(data_test$Clicked.on.Ad))
```

```
##
##     0     1
## 0.515 0.485
```

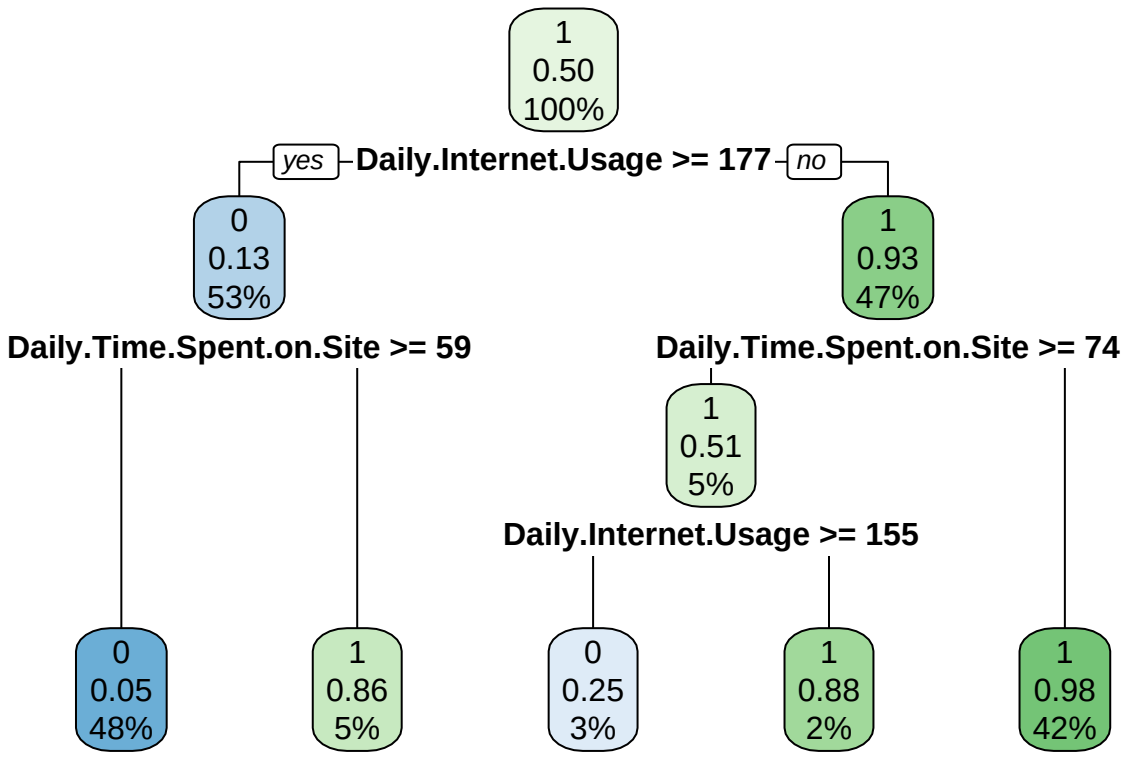
Implement the Solution - Modeling

Decision Trees

```
# Install rpart.plot
# install.packages("rpart.plot")

library(rpart)
library(rpart.plot)


fit <- rpart(formula = Clicked.on.Ad ~ Area.Income + Daily.Internet.Usage + Daily.Time.Spent.on.Site + A
rpart.plot(fit, extra = 106)
```




```
# if y is a factor then method = "class" is assumed
# extra=106 class model with a binary response
```

1) At the top, it is the overall probability of clicking on ad. It shows the proportion of customers that clicked on ad. 51 percent of customers clicked.
2) This node asks whether the daily internet usage is greater than or equal to 175. If no, then you go down to the root's right child node. 47 percent are no with a clicking probability of 93 percent.
3) In the second node, you ask if the daily time spent on site is greater than or equal 74, if no, then 42 percent of the customers are on the no side and the chance of clicking on ad is 98 percent.
4) For the area income, if it is greater than or equal to 50,000, if no 2 percent of the customers would lie on the no side with a clicking probability of 94%
5) For age, if the age is less than 50, if no 1 percent of the customers have a clicking probability of 70 percent

What we are seeing is in line with the results that we got from our bivariate analysis.

Make a prediction

```
# We want to predict which customers are more likely to click on ad from the test set
predict_unseen <-predict(fit, data_test, type = 'class')


# Testing the passenger who didn't make it and those who did.

table_mat <- table(data_test$Clicked.on.Ad, predict_unseen)
table_mat
```

```
##    predict_unseen
##      0  1
##   0 95  8
##   1  4 93
```

The model correctly predicted 97 customers that didnt click on ad but classified 8 customers who clicked as they did not click. By analogy, the model misclassified 7 customers as those to have clicked while they did not click on ad.

Measure performance

You can compute an accuracy measure for classification task with the confusion matrix, this means that you can compute the accuracy test from the confusion matrix:

```
accuracy_Test <- sum(diag(table_mat)) / sum(table_mat)
print(paste('Accuracy for test', accuracy_Test))
```

```
## [1] "Accuracy for test 0.94"
```

```
# Finding the accuracy of the train set

predict_unseen1 <-predict(fit, data_train, type = 'class')


# Testing the passenger who didn't make it and those who did.

table_mat1 <- table(data_train$Clicked.on.Ad, predict_unseen1)
table_mat1
```

```
##    predict_unseen1
##       0   1
```

```
##   0 383  14
##   1  24 379
```

```
accuracy_Train <- sum(diag(table_mat1)) / sum(table_mat1)
print(paste('Accuracy for train', accuracy_Train))
```

```
## [1] "Accuracy for train 0.9525"
```

Challenge the Solution

Tune the hyper-parameters

```
# We will proceed as follow:

# 1. Construct function to return accuracy
# 2. Tune the maximum depth
# 3.Tune the minimum number of sample a node must have before it can split
# 4. Tune the minimum number of sample a leaf node must have


accuracy_tune <- function(fit) {
    predict_unseen <- predict(fit, data_test, type = 'class')
    table_mat <- table(data_test$Clicked.on.Ad, predict_unseen)
    accuracy_Test <- sum(diag(table_mat)) / sum(table_mat)
    accuracy_Test
}
```

```
#  We tune the parameters and see if we can improve the model over the default value

control <- rpart.control(minsplit = 4,
    minbucket = round(5 / 3),
    maxdepth = 3,
    cp = 0)
tune_fit <- rpart(formula = Clicked.on.Ad ~ Area.Income + Daily.Internet.Usage + Daily.Time.Spent.on.Si

accuracy_tune(tune_fit)
```

```
## [1] 0.955
```

The tuning did not increase the accuracy of our model , therefore we leave our model as is.

Conclusion

The conclusions we can make are:

1. Time spent was highest between 75 to 80
2. Daily internet spent is highest between 120 and 140
3. The age that recorded the highest was in between 30 to 35 years
4. The area income with the highest record is 60,000 to 65,000
5. The more the internet useage incresed the customers did not click on Ad
6. The more the customer spent time on the site the more likely not to click On Ad
7. The age group above 40 are most likely to click on Ad
8. The clients earning 40,000 and above are most likely to not click on Ad.

Therefore the people most likely to click on Ad are:

1. The ones who log onto the site before up data
2. Customers who earn less than 40,000 are more likely to click on ad

3. The older customers ie 40 and above
4. The less time they spend on the site the more likely they are to click on Ad.

Recommendation

The Ads should target customers,

1. With a specific income range
2. Of an older audience that is 40 and above
3. Ads should come at the beginning to increase the likelihood of clicking