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"
```

```r
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] "factor"
```

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

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

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

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

```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] "factor"
```

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

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

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

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

```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
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##  [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
```

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

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

```
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
##  [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
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##  [188] Inverse asymmetric instruction set
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##  [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
## 1000 Levels: Adaptive 24hour Graphic Interface ... Visionary reciprocal circuit
```

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

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

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

```
##   [1] Wrightburgh            West Jodi              Davidton
##   [4] West Terrifurt         South Manuel           Jamieberg
##   [7] Brandonstad            Port Jefferybury       West Colin
##  [10] Ramirezton             West Brandonton        East Theresashire
##  [13] West Katiefurt         North Tara             West William
##  [16] New Travistown         West Dylanberg         Pruittmouth
##  [19] Jessicastad            Millertown             Port Jacqueline
##  [22] Lake Nicole            South John             Pamelamouth
##  [25] Harperborough          Port Danielleberg      West Jeremyside
```

```
##  [28] South Cathyfurt         Palmerside               West Guybury
##  [31] Phelpschester           Lake Melindamouth        North Richardburgh
##  [34] Port Cassie             New Thomas               Johnstad
##  [37] West Aprilport          Kellytown                Charlesport
##  [40] Millerchester           Mackenziemouth           Zacharystad
##  [43] North Joshua            Bowenview                Jamesberg
##  [46] Lake Cassandraport      New Sharon               Johnport
##  [49] Hamiltonfort            West Christopher         Hollandberg
##  [52] Odomville               East Samanthashire       South Lauraton
##  [55] Amandahaven             Thomasview               Garciaside
##  [58] Port Sarahshire         Port Gregory             Brendachester
##  [61] Lake Amy                Lake Annashire           Smithburgh
##  [64] North Leonmouth         Robertfurt               Jasminefort
##  [67] Jensenborough           Bradleyburgh             New Sheila
##  [70] North Regina            Davidmouth               New Michaeltown
##  [73] East Tammie             Wilcoxport               East Michaelmouth
##  [76] East Tiffanyport        Ramirezhaven             Cranemouth
##  [79] Lake Edward             Lake Conniefurt          East Shawnchester
##  [82] West Joseph             Lake Christopherfurt     East Tylershire
##  [85] Sharpberg               Lake Dustin              North Kristine
##  [88] Grahamberg              New Tina                 Nelsonfurt
##  [91] Christopherport         Port Sarahhaven          Bradleyborough
##  [94] Whiteport               New Theresa              Wongland
##  [97] Williammouth            Williamsborough          North Michael
## [100] Benjaminchester         Hernandezville           Youngburgh
## [103] Wallacechester          Sanchezmouth             Bradshawborough
## [106] Amyhaven                Marcushaven              Erinton
## [109] Hughesport              New Lucasburgh           Michelleside
## [112] Andersonton             New Rachel               Port Susan
## [115] West Angelabury         Port Christopherborough  Phillipsbury
## [118] Millerside              Lake Jessica             Lopezmouth
## [121] Johnsport               South Ronald             South Daniel
## [124] Suzannetown             Lisaberg                 Brianfurt
## [127] Stewartbury             North Wesleychester      East Michelleberg
## [130] Port Eric               Timothyfurt              Port Jeffrey
## [133] Guzmanland              East Michele             East John
## [136] Lesliebury              Patriciahaven            Ashleychester
## [139] Lake Josetown           Debraburgh               New Debbiestad
## [142] West Shaun              Kimberlyhaven            Port Lawrence
## [145] West Ricardo            Lake Jose                Heatherberg
## [148] South George            Tinachester              Port Jodi
## [151] Jonathantown            Sylviaview               East Timothyport
## [154] West Roytown            Codyburgh                Port Erikhaven
## [157] Port Chasemouth         Ramirezside              East Michaeltown
## [160] West Courtney           West Michaelhaven        Walshhaven
## [163] East Rachelview         Curtisport               Frankbury
## [166] Timothytown             Samanthaland             South Jennifer
## [169] Kyleborough             North Randy              South Daniellefort
## [172] Dianashire              East Eric                Hammondport
## [175] Jacobstad               Hernandezfort            Joneston
## [178] New Jeffreychester      East Stephen             Turnerchester
## [181] Youngfort               Ingramberg               South Denisefurt
## [184] Port Melissaberg        Bernardton               Port Mathew
## [187] Aliciatown              Josephstad               West Ericfurt
```

```
## [190] New Brendafurt          Port Julie              South Tiffanyton
## [193] North Elizabeth         Kentmouth               West Casey
## [196] East Henry              Hollyfurt               North Anna
## [199] Port Destiny            Ianmouth                North Johntown
## [202] Hannahside              Wilsonburgh             North Russellborough
## [205] Murphymouth             Carterburgh             Penatown
## [208] Joechester              East Paul               Hartmanchester
## [211] Mcdonaldfort            North Mercedes          Taylorberg
## [214] Hansenmouth             Bradyfurt               West Jessicahaven
## [217] Davilachester           North Ricardotown       Melissafurt
## [220] East Brianberg          Millerbury              Garciaview
## [223] Townsendfurt            Williamstad             West Connor
## [226] West Justin             Robertbury              New Tinamouth
## [229] Turnerview              Reneechester            West Tinashire
## [232] Jamesfurt               New Nancy               Lisamouth
## [235] Harveyport              Ramosstad               North Kevinside
## [238] Haleview                Christinetown           New Michael
## [241] Jonesland               North Shannon           New Sonialand
## [244] Port Jason              East Barbara            Port Erinberg
## [247] Petersonfurt            New Lindaberg           West Russell
## [250] South Adam              North Tracyport         Brownport
## [253] Port Crystal            Masonhaven              Derrickhaven
## [256] Olsonstad               New Brandy              South Jasminebury
## [259] East Timothy            Charlottefort           Lake Beckyburgh
## [262] West Lindseybury        West Alyssa             Lake Craigview
## [265] Lake David              Bruceburgh              South Lauratown
## [268] Port Robin              Jacksonburgh            Erinmouth
## [271] Port Aliciabury         Port Whitneyhaven       Jeffreyshire
## [274] Tinaton                 North Loriburgh         Wendyton
## [277] Lake Jacqueline         North Christopher       Alexanderfurt
## [280] West Pamela             West Amanda             South Tomside
## [283] Bethburgh               Jamiefort               Garciamouth
## [286] West Brenda             South Kyle              Combsstad
## [289] Lake Allenville         Greenechester           Jordantown
## [292] Gravesport              South Troy              Lake Patrick
## [295] Millerland              Port Jessicamouth       Paulport
## [298] Clineshire              Cynthiaside             Port Juan
## [301] Michellefort            Port Angelamouth        Jessicahaven
## [304] North Daniel            New Juan                Amyfurt
## [307] Harrishaven             Roberttown              Jeremyshire
## [310] Birdshire               New Amanda              Curtisview
## [313] Jacksonmouth            North April             Hayesmouth
## [316] South Corey             Juliaport               Port Paultown
## [319] East Vincentstad        Kimberlytown            New Steve
## [322] New Johnberg            Shawstad                New Rebecca
## [325] Jeffreyburgh            Faithview               Richardsontown
## [328] Port Brookeland         East Christopherbury    Port Christinemouth
## [331] South Meghan            Hessstad                Rhondaborough
## [334] Lewismouth              New Paul                Lake Angela
## [337] East Graceland          Hartport                East Yvonnechester
## [340] Burgessside             Hurleyborough           Garychester
## [343] East Kevinbury          Contrerasshire          Erikville
## [346] Robertsonburgh          Karenton                Port Kathleenfort
## [349] Lake Adrian             Mollyport               Sandraland
```

```
## [352] Charlenetown            Luischester              South Johnnymouth
## [355] Hannaport               East Anthony             West Daleborough
## [358] Morrismouth             North Andrewstad         West Tanya
## [361] Novaktown               Timothymouth             Robertmouth
## [364] Stephenborough          Lake Kurtmouth           Lauraburgh
## [367] Rogerburgh              Davidside                West Thomas
## [370] Andersonchester         North Ronaldshire        Greghaven
## [373] Jordanmouth             Meyersstad               South Robert
## [376] New Tyler               Jordanshire              Reyesland
## [379] New Traceystad          Port Brian               Lake Courtney
## [382] Samuelborough           Christinehaven           Thomasstad
## [385] Kristintown             New Wanda                Mariebury
## [388] Christopherville        New Jasmine              Lopezberg
## [391] Jenniferstad            West Eduardotown         Davisfurt
## [394] Bakerhaven              Paulshire                West Jane
## [397] Lake Brian              Alvaradoport             Lake Kevin
## [400] Richardsonland          East Sheriville          Port Michealburgh
## [403] Monicaview              Katieport                East Brittanyville
## [406] West Travismouth        Leonchester              Ramirezland
## [409] Brownton                New Jessicaport          New Denisebury
## [412] Keithtown               Port Melissastad         Janiceview
## [415] Mataberg                West Melaniefurt         Millerfort
## [418] Alexanderview           South Jade               Lake Susan
## [421] South Vincentchester    Williamsmouth            Taylorport
## [424] Williamsport            Emilyfurt                East Deborahhaven
## [427] Port Katelynview        Paulhaven                Elizabethmouth
## [430] Lake Jesus              North Tylerland          Munozberg
## [433] North Maryland          West Barbara             Andrewborough
## [436] New Gabriel             Port Patrickton          West Julia
## [439] New Keithburgh          Richardsland             North Aaronchester
## [442] Lake Matthewland        Kevinberg                Morganfort
## [445] Lovemouth               Taylorhaven              Jamesville
## [448] East Toddfort           East Dana                West Lucas
## [451] Butlerfort              Lindaside                West Chloeborough
## [454] Jayville                East Lindsey             Masseyshire
## [457] Sarahton                Ryanhaven                Lake Deborahburgh
## [460] New Williammouth        Port Blake               West Richard
## [463] Brandymouth             Sandraville              Port Jessica
## [466] Lake Jasonchester       Pearsonfort              Sellerstown
## [469] Yuton                   Smithtown                Joanntown
## [472] South Peter             Port Mitchell            Pottermouth
## [475] Lake Jonathanview       Alanview                 Carterport
## [478] New Daniellefort        Welchshire               Russellville
## [481] West Lisa               Greentown                Timothyport
## [484] Teresahaven             Lake Stephenborough      Silvaton
## [487] West Michaelstad        Florestown               New Jay
## [490] North Lisachester       Port Stacy               Jensenton
## [493] North Alexandra         Rivasland                Helenborough
## [496] Garnerberg              North Anaport            Pattymouth
## [499] South Alexisborough     East Jennifer            Hallfort
## [502] New Charleschester      East Breannafurt         East Susanland
## [505] Estesfurt               Shirleyfort              Douglasview
## [508] South Lisa              Kingshire                Rebeccamouth
## [511] Brownbury               South Aaron              North Andrew
```

```
## [514] South Walter           Catherinefort          East Donna
## [517] North Kimberly         South Stephanieport    North Isabellaville
## [520] North Aaronburgh       Port James             Danielview
## [523] Port Stacey            West Kevinfurt         Lake Jennifer
## [526] Reyesfurt              West Carmenfurt        North Stephanieberg
## [529] East Valerie           Sherrishire            Port Daniel
## [532] Brownview              Greerton               Hatfieldshire
## [535] Brianabury             New Maria              Colebury
## [538] Calebberg              Lake Ian               Gomezport
## [541] Shaneland              East Aaron             Dustinborough
## [544] East Michaelland       East Connie            West Shannon
## [547] North Lauraland        Port Christopher       South Patrickfort
## [550] East Georgeside        Charlesbury            South Renee
## [553] South Jackieberg       Loriville              Amandaland
## [556] West Robertside        North Sarashire        Port Maria
## [559] East Jessefort         Port Anthony           Edwardmouth
## [562] Dustinchester          Rochabury              Austinland
## [565] Lake Gerald            Wrightview             Perryburgh
## [568] Tracyhaven             South Jaimeview        Sandersland
## [571] South Meredithmouth    Richardsonshire        Kimberlymouth
## [574] Meghanchester          Tammyshire             Lake Elizabethside
## [577] Villanuevaton          Greerport              North Garyhaven
## [580] East Sharon            Johnstonmouth          East Heatherside
## [583] Richardsonmouth        Jenniferhaven          Boyerberg
## [586] Port Elijah            Knappburgh             New Dawnland
## [589] Chapmanmouth           Robertside             West Raymondmouth
## [592] Costaburgh             Kristineberg           Sandrashire
## [595] Andersonfurt           Tranland               Michaelland
## [598] East Rachaelfurt       Lake Johnbury          Elizabethstad
## [601] West Brad              Johnstonshire          Lake Timothy
## [604] Anthonyfurt            East Brettton          New Matthew
## [607] Christopherchester     Westshire              Alexisland
## [610] Kevinchester           New Patriciashire      Port Brenda
## [613] Port Brianfort         Portermouth            Hubbardmouth
## [616] South Brian            Hendrixmouth           Julietown
## [619] Lukeport               New Shane              Lake Jillville
## [622] Johnsonfort            Adamsbury              East Maureen
## [625] North Angelastad       Amandafort             Michaelmouth
## [628] Ronaldport             Port Davidland         Isaacborough
## [631] Lake Michael           West Michaelshire      Port Calvintown
## [634] Parkerhaven            Markhaven              Estradashire
## [637] Brianland              Cassandratown          West Dannyberg
## [640] East Debraborough      Frankchester           Lisafort
## [643] Colemanshire           Troyville              Hobbsbury
## [646] Harrisonmouth          Port Eugeneport        Karenmouth
## [649] Brendaburgh            New Christinatown      Jacksonstad
## [652] South Margaret         Port Georgebury        Sanderstown
## [655] Perezland              Luisfurt               New Karenberg
## [658] West Leahton           West Sharon            Klineside
## [661] Lake Cynthia           South Cynthiashire     Lake Jacob
## [664] West Samantha          Jeremybury             Blevinstown
## [667] Meyerchester           Reginamouth            Donaldshire
## [670] Salazarbury            Lake Joshuafurt        Wintersfort
## [673] Jamesmouth             Laurieside             Andrewmouth
```

```
## [676] West Angela            East Carlos             Kennedyfurt
## [679] Blairville             East Donnatown          Matthewtown
## [682] Brandonbury            New Jamestown           Mosleyburgh
## [685] Leahside               West Wendyland          Lawrenceborough
## [688] Kennethview            West Mariafort          Port Sherrystad
## [691] West Melissashire      Lesliefort              Shawnside
## [694] Josephmouth            Garciatown              Chaseshire
## [697] Destinyfurt            Mezaton                 New Kayla
## [700] Carsonshire            Jacquelineshire         South Blakestad
## [703] North Mark             Kingchester             Evansfurt
## [706] South Adamhaven        Brittanyborough         Barbershire
## [709] East Ericport          Crawfordfurt            Turnerville
## [712] Kylieview              West Zacharyborough     Watsonfort
## [715] Dayton                 Nicholasport            Whitneyfort
## [718] Coffeytown             North Johnside          Robinsonland
## [721] West Ericaport         Haleberg                West Michaelport
## [724] Ericksonmouth          Yangside                Estradafurt
## [727] Frankport              Williamsside            Johnsonview
## [730] East Heidi             New Angelview           Lake Brandonview
## [733] Morganport             Browntown               Lake Hailey
## [736] Olsonside              Coxhaven                Meaganfort
## [739] North Monicaville      Mullenside              Princebury
## [742] Bradleyside            Elizabethbury           West Ryan
## [745] New Tammy              Sanchezland             Rogerland
## [748] Vanessaview            Jessicashire            Melissachester
## [751] Johnsontown            New Joshuaport          Hernandezside
## [754] New Williamville       Gilbertville            Newmanberg
## [757] West Alice             Cannonbury              Shelbyport
## [760] New Henry              Dustinmouth             New Hollyberg
## [763] Port Brittanyville     East Ronald             South Davidmouth
## [766] Carterton              Rachelhaven             New Timothy
## [769] North Jessicaville     Staceyfort              South Dianeshire
## [772] Micheletown            North Brittanyburgh     Port Jasmine
## [775] New Sabrina            Lake Charlottestad      West Rhondamouth
## [778] North Debra            Villanuevastad          North Jeremyport
## [781] Lake John              Courtneyfort            Tammymouth
## [784] Lake Vanessa           Lake Amanda             Mariemouth
## [787] Port Douglasborough    Port Aprilville         Lake Faith
## [790] Wendyville             Angelhaven              New Sean
## [793] Lake Lisa              Valerieland             New Travis
## [796] North Samantha         Holderville             Patrickmouth
## [799] Lake Deannaborough     Jeffreymouth            Davieshaven
## [802] Lake Jessicaville      Hernandezchester        North Kennethside
## [805] Williamport            Smithside               Vanessastad
## [808] Lake Rhondaburgh       Cunninghamhaven         Robertstown
## [811] South Mark             New Taylorburgh         Port Karenfurt
## [814] Carterland             East Shawn              West Derekmouth
## [817] Brandiland             Cervantesshire          North Debrashire
## [820] Deannaville            East Christopher        Rickymouth
## [823] Port Dennis            Lake Michelle           East Johnport
## [826] Sabrinaview            Kristinfurt             Chapmanland
## [829] North Jonathan         Port Christina          Juanport
## [832] East Mike              North Angelatown        West Steven
## [835] Riggsstad              Davidview               Port Kevinborough
```

```
## [838] Lawsonshire             Wagnerchester          Daisymouth
## [841] Port Jacquelinestad     New Teresa             Henryfort
## [844] Lake Joseph             Daviesborough          North Brandon
## [847] Adamside                Wademouth              North Raymond
## [850] Randolphport            East Troyhaven         Clarkborough
## [853] Josephberg              Lake Jenniferton       Ashleymouth
## [856] Henryland               Lake Danielle          Joshuaburgh
## [859] South Jeanneport        New Nathan             Jonesshire
## [862] Mariahview              New Julianberg         Randyshire
## [865] Philipberg              West Dennis            Richardshire
## [868] Lake James              Austinborough          Alexandrafort
## [871] Melissastad             Gonzalezburgh          Port Jennifer
## [874] Chrismouth              Port Beth              West David
## [877] Fraziershire            South Pamela           North Laurenview
## [880] Campbellstad            Port Derekberg         West Andrew
## [883] West Randy              South Christopher      Lake Michellebury
## [886] Zacharyton              West James             Millerview
## [889] Hawkinsbury             Elizabethport          Wadestad
## [892] Mauriceshire            West Arielstad         Adamsstad
## [895] Blairborough            New Marcusbury         Evansville
## [898] Huffmanchester          New Cynthia            Joshuamouth
## [901] West Benjamin           Williamsfort           North Tiffany
## [904] Edwardsport             Lake Evantown          South Henry
## [907] Harmonhaven             West Gregburgh         Hansenland
## [910] Port Michaelmouth       Tylerport              West Lacey
## [913] North Jenniferburgh     South Davidhaven       North Charlesbury
## [916] Jonathanland            North Virginia         West Tanner
## [919] Jonesmouth              West Annefort          East Jason
## [922] North Cassie            Hintonport             New James
## [925] North Destiny           Mclaughlinbury         West Gabriellamouth
## [928] Alvarezland             New Julie              North Frankstad
## [931] Claytonside             Melanieton             Lake Michaelport
## [934] East Benjaminville      Garrettborough         Port Raymondfort
## [937] Waltertown              Cameronberg            Kaylashire
## [940] Fosterside              Davidstad              Lake Tracy
## [943] Taylormouth             Dianaville             Collinsburgh
## [946] Port Rachel             South Rebecca          Port Joshuafort
## [949] Robinsontown            Beckton                New Frankshire
## [952] North Derekville        West Sydney            Lake Matthew
## [955] Lake Zacharyfurt        Lindsaymouth           Sarahland
## [958] Michaelshire            Sarafurt               South Denise
## [961] North Katie             Mauricefurt            New Patrick
## [964] Edwardsmouth            Nicholasland           Duffystad
## [967] New Darlene             South Jessica          Ronniemouth
## 969 Levels: Adamsbury Adamside Adamsstad Alanview ... Zacharyton
```

```
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
## 237 Levels: Afghanistan Albania Algeria American Samoa Andorra ... Zimbabwe
```

```
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
##  Adaptive 24hour Graphic Interface      :  1   Lisamouth      :  3
##  Adaptive asynchronous attitude         :  1   Williamsport   :  3
##  Adaptive context-sensitive application :  1   Benjaminchester:  2
##  Adaptive contextually-based methodology:  1   East John      :  2
##  Adaptive demand-driven knowledgebase   :  1   East Timothy   :  2
##  Adaptive uniform capability            :  1   Johnstad       :  2
##  (Other)                                :994   (Other)        :986
##       Male                Country                  Timestamp   Clicked.on.Ad
```

```
##  Min.   :0.000   Czech Republic:  9   2016-01-01 02:52:10:  1   Min.   :0.0
##  1st Qu.:0.000   France        :  9   2016-01-01 03:35:35:  1   1st Qu.:0.0
##  Median :0.000   Afghanistan   :  8   2016-01-01 05:31:22:  1   Median :0.5
##  Mean   :0.481   Australia     :  8   2016-01-01 08:27:06:  1   Mean   :0.5
##  3rd Qu.:1.000   Cyprus        :  8   2016-01-01 15:14:24:  1   3rd Qu.:1.0
##  Max.   :1.000   Greece        :  8   2016-01-01 20:17:49:  1   Max.   :1.0
##                  (Other)       :950   (Other)            :994
```

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
##  Adaptive 24hour Graphic Interface      :  1   Lisamouth      :  3   0:519
##  Adaptive asynchronous attitude         :  1   Williamsport   :  3   1:481
##  Adaptive context-sensitive application :  1   Benjaminchester:  2
```

```
##  Adaptive contextually-based methodology:  1   East John      :  2
##  Adaptive demand-driven knowledgebase   :  1   East Timothy   :  2
##  Adaptive uniform capability            :  1   Johnstad       :  2
##  (Other)                                :994   (Other)        :986
##            Country                   Timestamp   Clicked.on.Ad
##  Czech Republic:  9   2016-01-01 02:52:10:  1   0:500
##  France         :  9   2016-01-01 03:35:35:  1   1:500
##  Afghanistan    :  8   2016-01-01 05:31:22:  1
##  Australia      :  8   2016-01-01 08:27:06:  1
##  Cyprus         :  8   2016-01-01 15:14:24:  1
##  Greece         :  8   2016-01-01 20:17:49:  1
##  (Other)        :950   (Other)            :994
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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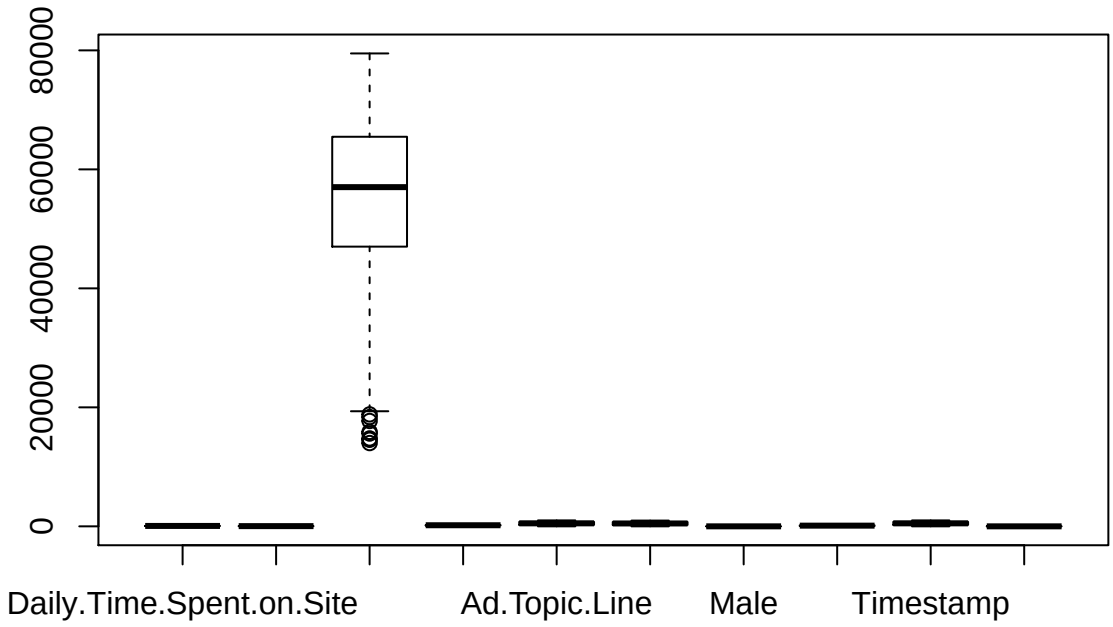
There are no duplicates

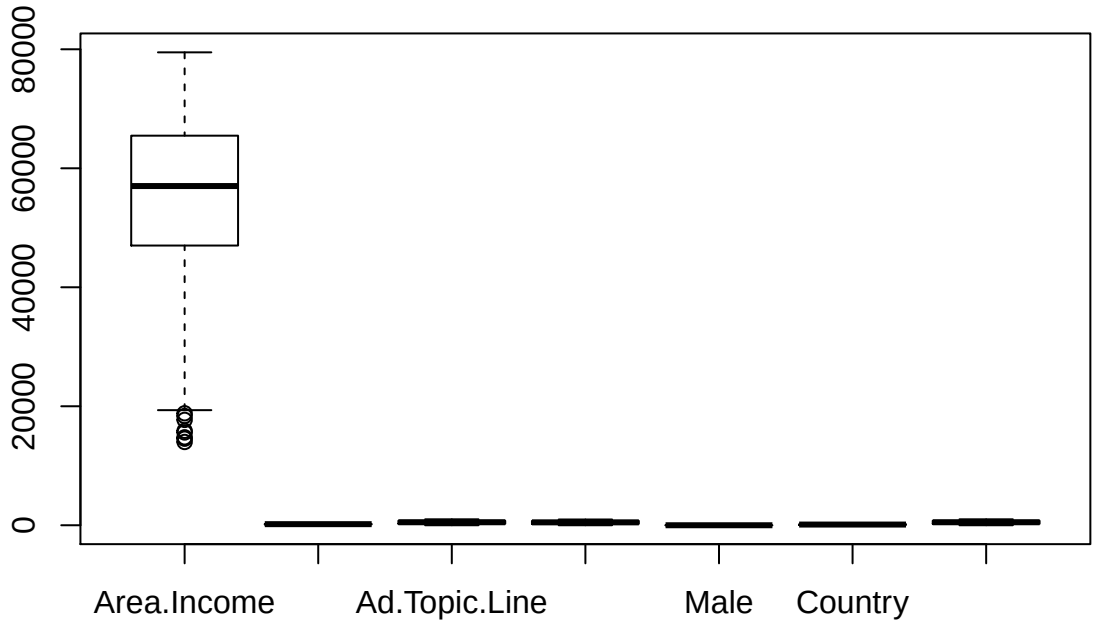
Finding outliers

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




```
# To have a clear view of the outliers we remove some columns
check <- mydata[, 3:9]

boxplot(check)
```




```
# We do a summary for all the columns with outliers
# For Area Income

IQR_income <- 65471 - 47032                  # Quantile Range
lowfen_income = 47032 - 1.5*IQR_income
lowfen_income
```

```
## [1] 19373.5
```

```
# For Daily.Internet.Usage

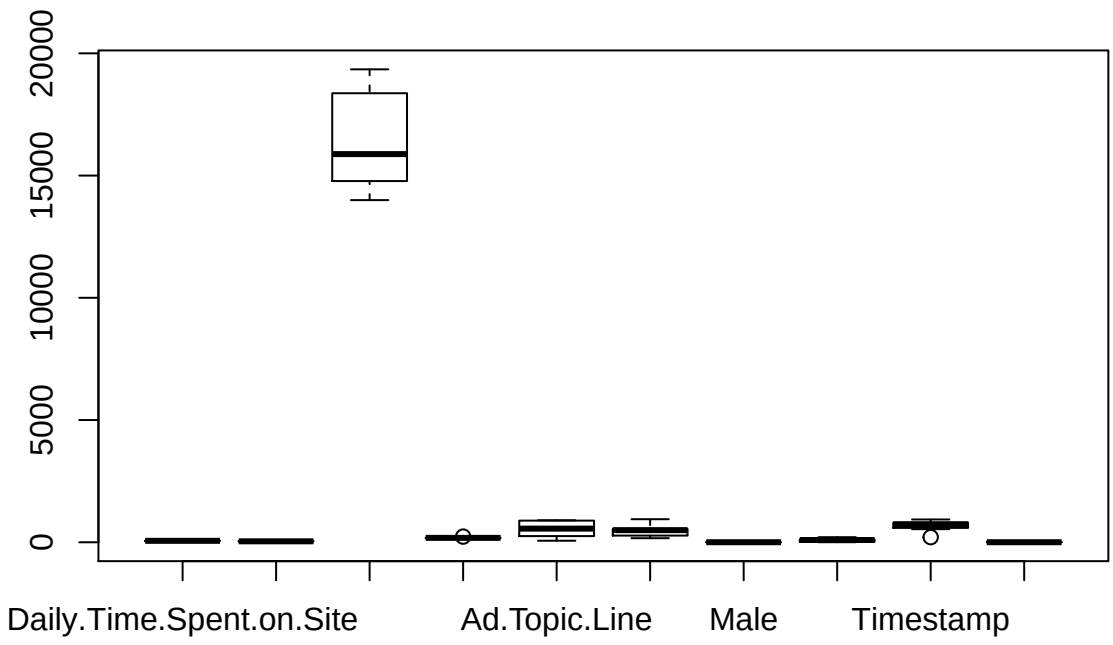
IQR_internet <- 218.8  - 138.8                   # Quantile Range
upfen_internet = 218.8  + 1.5*IQR_internet
upfen_internet
```

```
## [1] 338.8
```

```
# The rest like  Ad.Topic.Line, City and Timestamp are in the class factor therefore the outliers in th


mydata2 = subset(mydata, Daily.Time.Spent.on.Site<=91.43  & Age<=61.00 & Area.Income<=19373.5 & Daily.I

boxplot(mydata2)
```



The outliers were removed.

Starting 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
```

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

```r
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
```

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

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

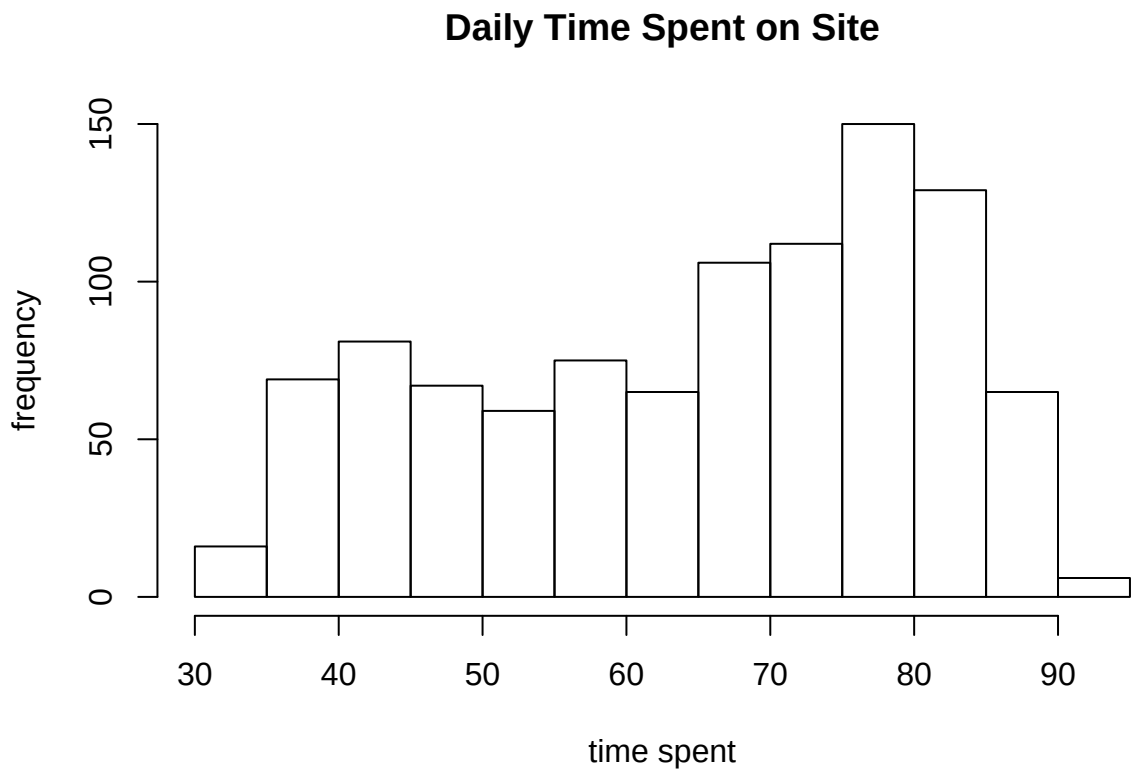
```
## The Quantile for age is 19 29 35 42 61
```

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

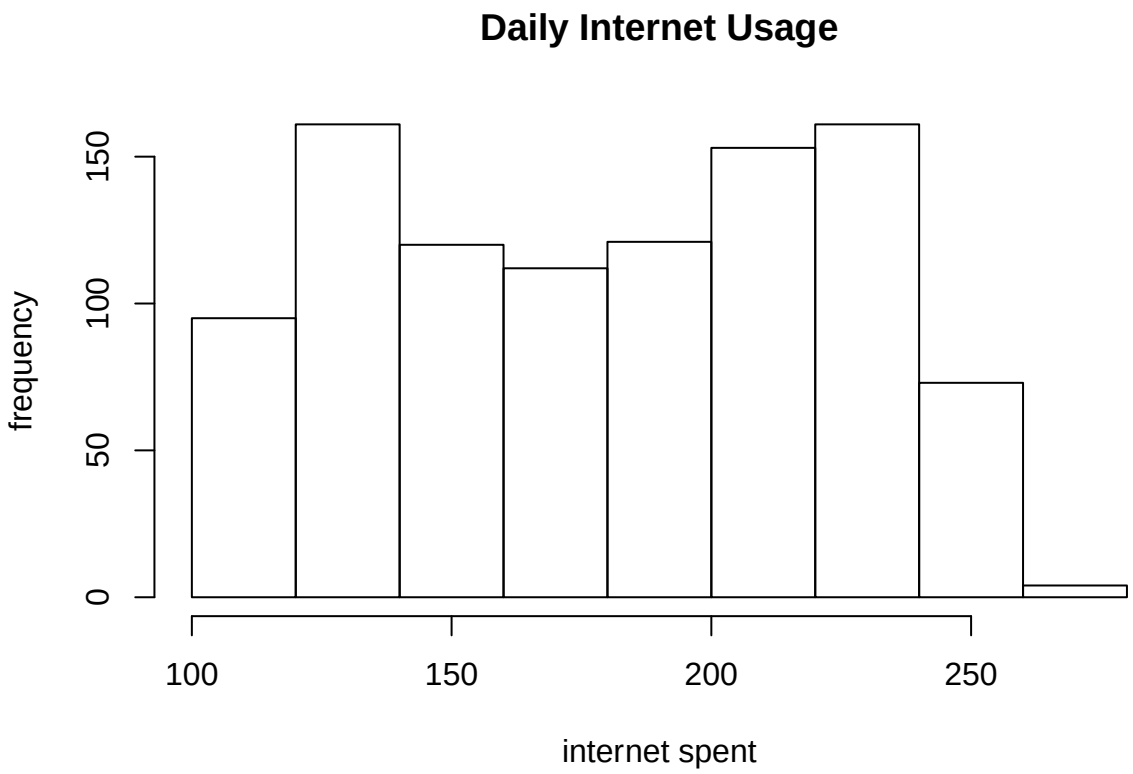
```r
cat("The Quantile for Area.Income is",quantile(mydata$Area.Income))
```

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

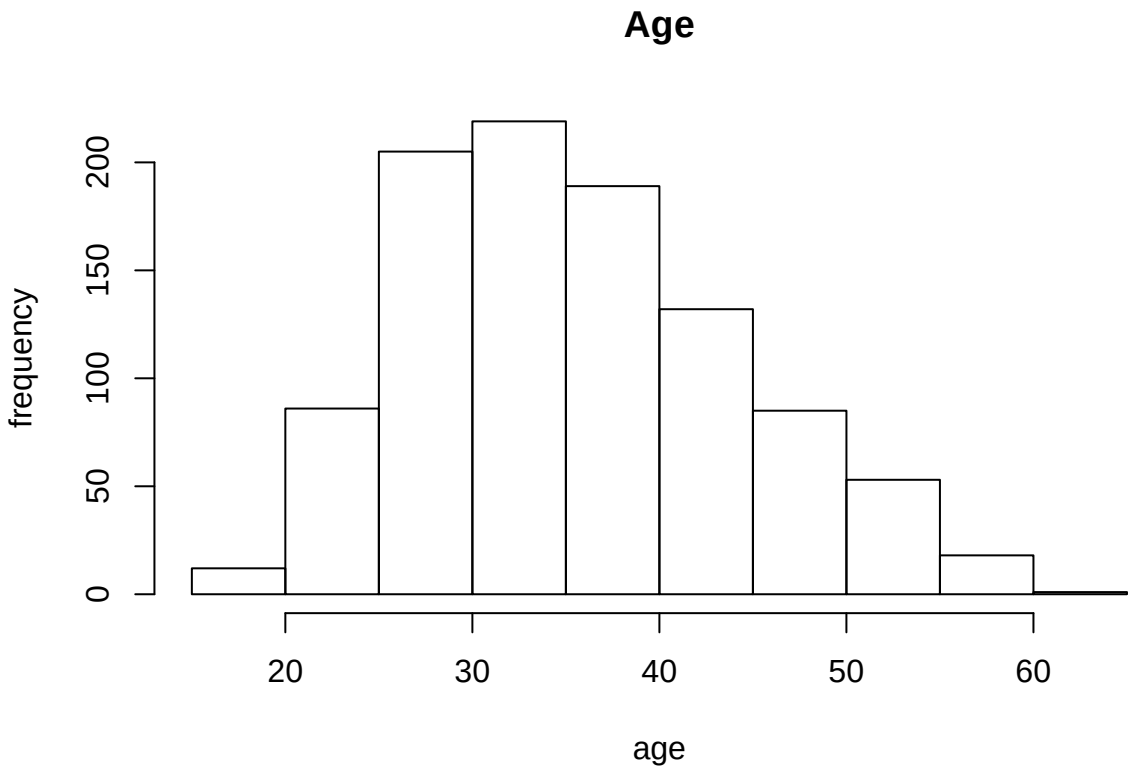
```r
# Plotting the histograms
hist(mydata$Daily.Time.Spent.on.Site, main="Daily Time Spent on Site", xlab="time spent", ylab="frequen
```



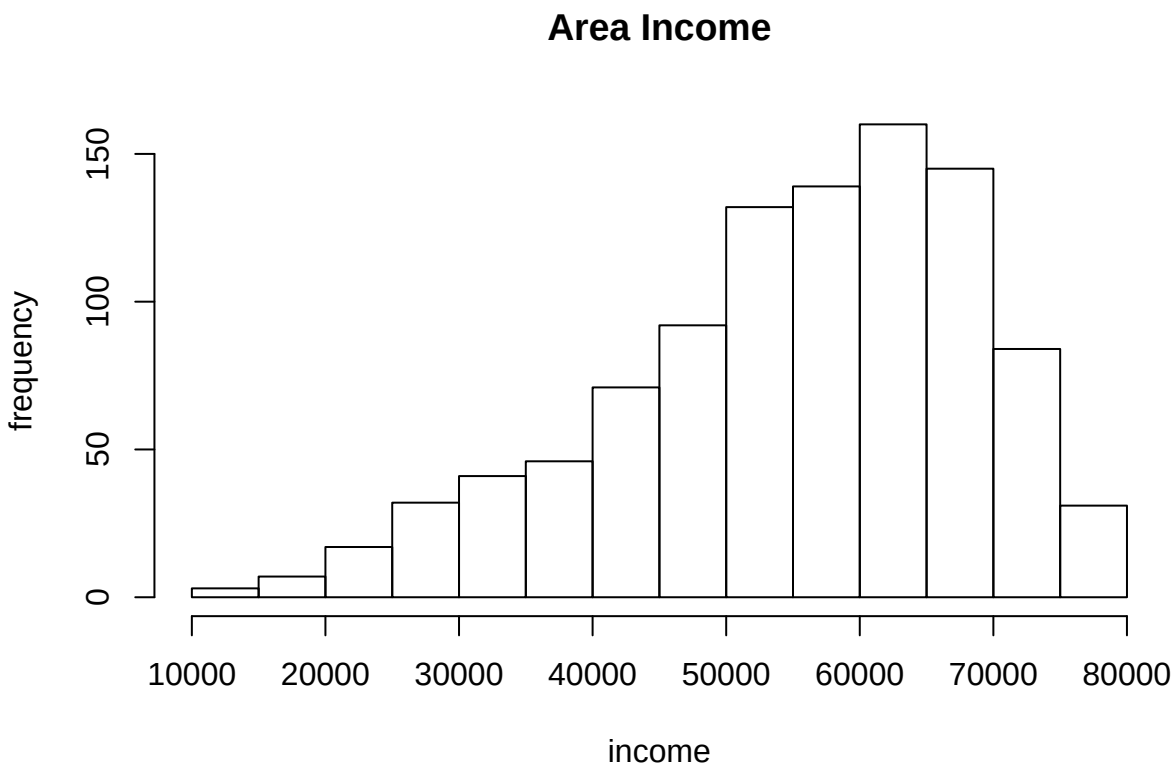

```r
hist(mydata$Daily.Internet.Usage, main="Daily Internet Usage", xlab="internet spent", ylab="frequency")
```




```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

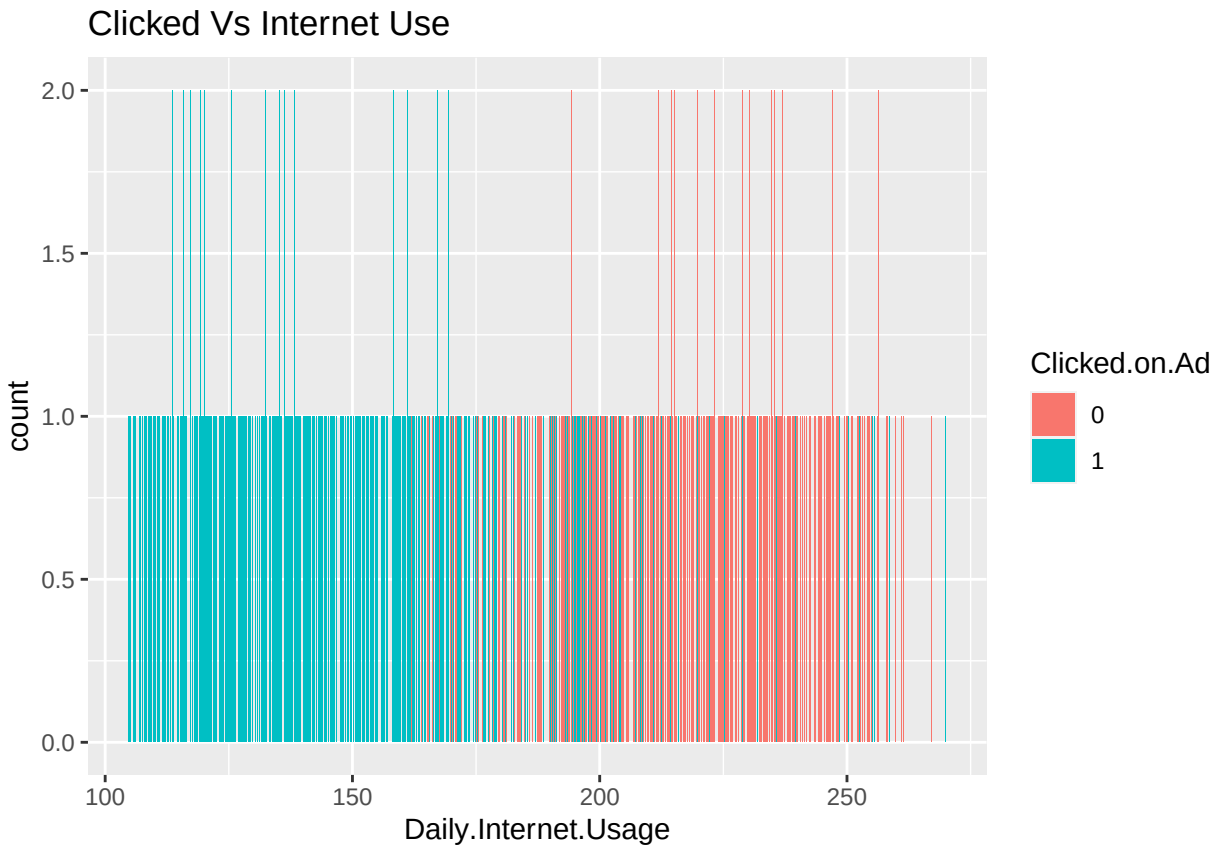
install.packages("ggplot2") library(ggplot2)

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

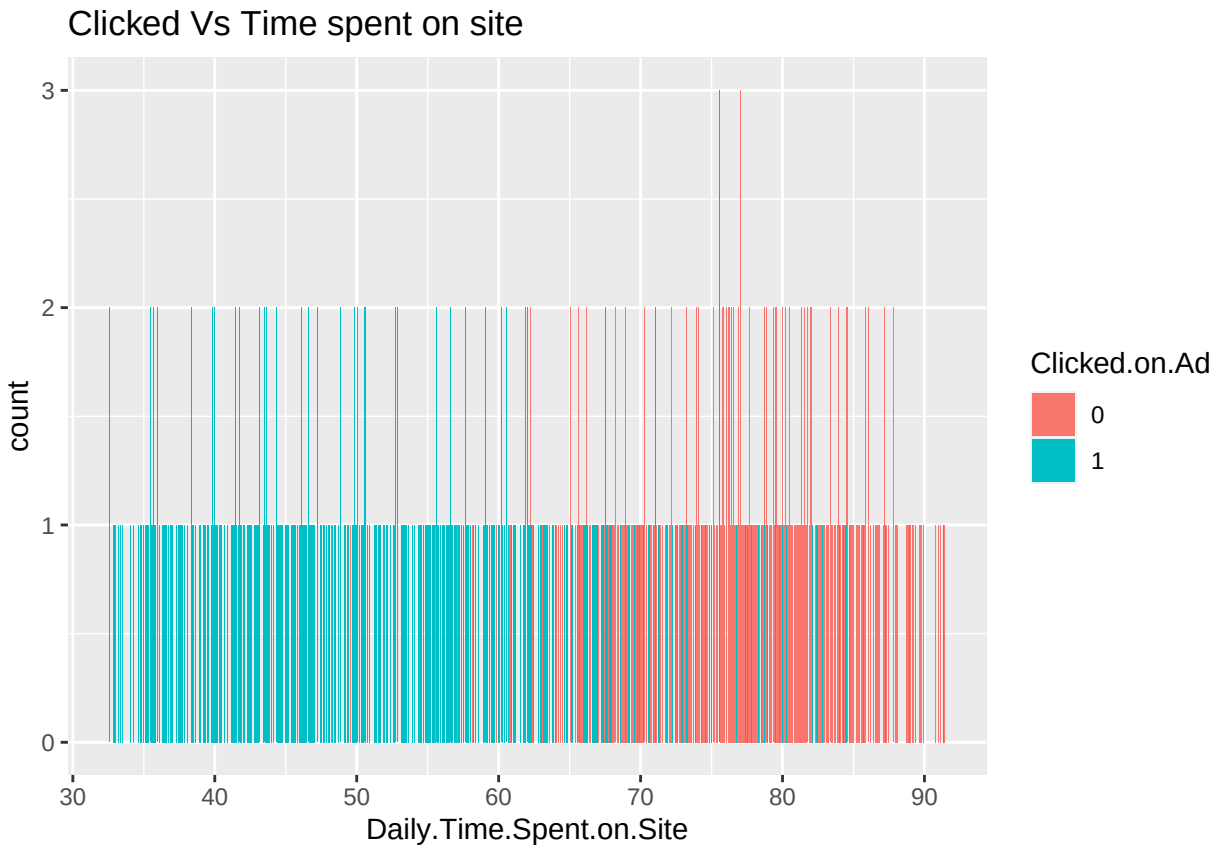
```
## Installing package into '/home/jasmine/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)
```

```
library(ggplot2)

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

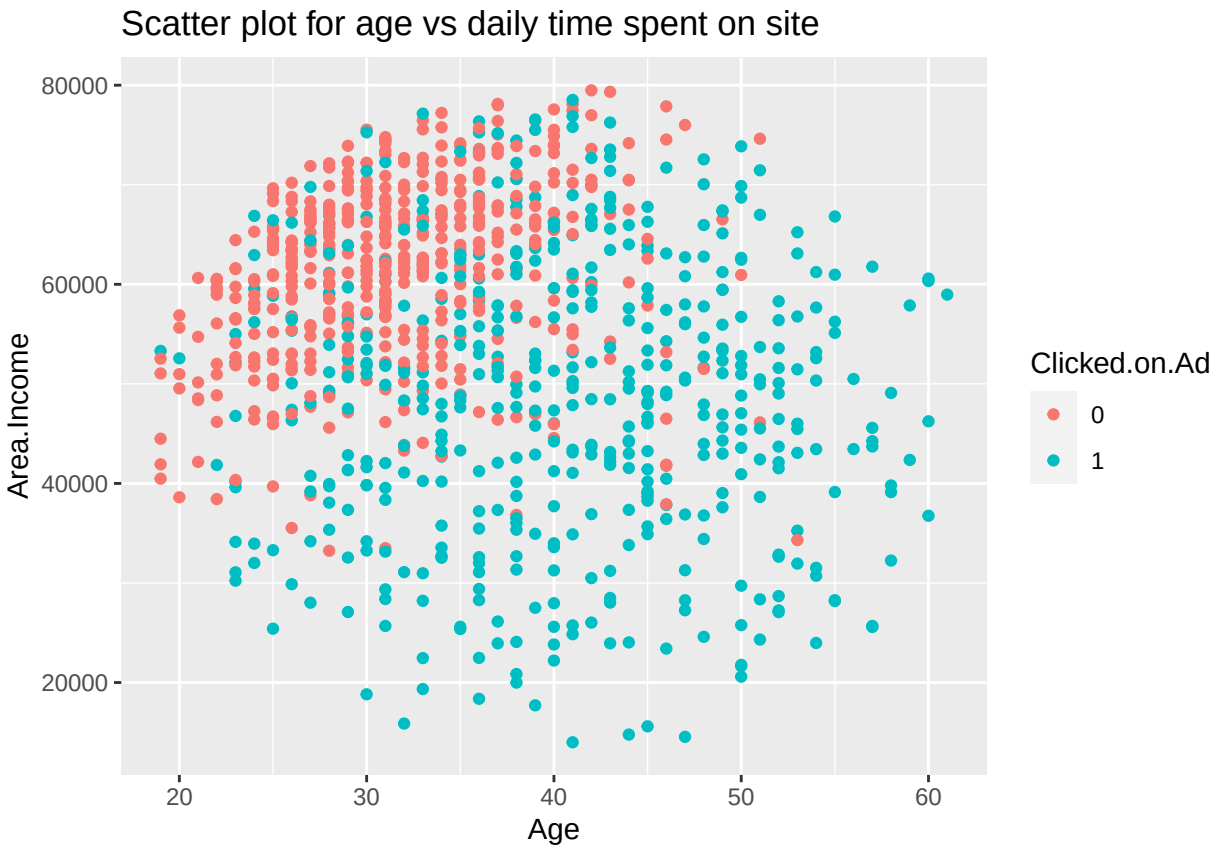



```
ggplot(mydata, aes(x=Daily.Time.Spent.on.Site, fill=Clicked.on.Ad)) +
  geom_bar(position="dodge") + labs(title="Clicked Vs Time spent on site")
```



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.

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