Defining the question:

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

Metric of Success: Identify users who are most likely to click on the ads

Data Understanding

```
#importing tidyverse for analysis
library(tidyverse)

## ── Attaching packages ─────────────────────────────────────────
tidyverse 1.3.1 ──

## ✓ ggplot2 3.3.5      ✓ purrr   0.3.4
## ✓ tibble  3.1.6      ✓ dplyr   1.0.8
## ✓ tidyr   1.2.0      ✓ stringr 1.4.0
## ✓ readr   2.1.2      ✓ forcats 0.5.1

## ── Conflicts ──────────────────────────────────────────────
tidyverse_conflicts() ──
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

#importing and reading the dataset
course <- read.csv("http://bit.ly/IPAdvertisingData")
head(course)

##    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 number of records
dim(course)
```

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

10 variables, 1000 records

```
#descriptive statistics of the datasets
summary(course)
```

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

```
#dataset information
glimpse(course)
```

```
## Rows: 1,000
## Columns: 10
## $ Daily.Time.Spent.on.Site <dbl> 68.95, 80.23, 69.47, 74.15, 68.37, 59.99,
88....
## $ Age                      <int> 35, 31, 26, 29, 35, 23, 33, 48, 30, 20,
49, 3...
```

```
## $ Area.Income          <dbl> 61833.90, 68441.85, 59785.94, 54806.18,
73889…
## $ Daily.Internet.Usage <dbl> 256.09, 193.77, 236.50, 245.89, 225.58,
226.7…
## $ Ad.Topic.Line        <chr> "Cloned 5thgeneration orchestration",
"Monito…
## $ City                 <chr> "Wrightburgh", "West Jodi", "Davidton",
"West…
## $ Male                 <int> 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0,
0, …
## $ Country              <chr> "Tunisia", "Nauru", "San Marino",
"Italy", "I…
## $ Timestamp            <chr> "2016-03-27 00:53:11", "2016-04-04
01:39:02",…
## $ Clicked.on.Ad        <int> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0,
1, …
```

Data Cleaning

```
#Checking for null values
sum(is.na(course))

## [1] 0
```

The dataset has no null values

```
#checking for duplicated records
course[duplicated(course)]

## data frame with 0 columns and 1000 rows
```

There are no duplicated records

```
#changing thee datatypes
course$Timestamp<- as.Date(course$Timestamp)

#The function factor() will encode the vector as a factor to store
categorical variables:

course$"Clicked.on.Ad" <- as.factor(course$"Clicked.on.Ad")
course$"Male" <- as.factor(course$"Male")

#checking for the changes made
glimpse(course)

## Rows: 1,000
## Columns: 10
```

```
## $ Daily.Time.Spent.on.Site <dbl> 68.95, 80.23, 69.47, 74.15, 68.37, 59.99,
88....
## $ Age                       <int> 35, 31, 26, 29, 35, 23, 33, 48, 30, 20,
49, 3...
## $ Area.Income               <dbl> 61833.90, 68441.85, 59785.94, 54806.18,
73889...
## $ Daily.Internet.Usage      <dbl> 256.09, 193.77, 236.50, 245.89, 225.58,
226.7...
## $ Ad.Topic.Line             <chr> "Cloned 5thgeneration orchestration",
"Monito...
## $ City                      <chr> "Wrightburgh", "West Jodi", "Davidton",
"West...
## $ Male                      <fct> 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0,
0, ...
## $ Country                   <chr> "Tunisia", "Nauru", "San Marino",
"Italy", "I...
## $ Timestamp                 <date> 2016-03-27, 2016-04-04, 2016-03-13,
2016-01-...
## $ Clicked.on.Ad             <fct> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0,
1, ...
```

The datatypes of TimeStamp, Male and Clicked.on.Ad were successfully changed

```
#checking for unique values
anom <- lapply(course, unique)
anom

## $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
##
## $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
##
## $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
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##    [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"
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##    [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"
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##    [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"
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##   [1] "Wrightburgh"            "West Jodi"
##   [3] "Davidton"               "West Terrifurt"
##   [5] "South Manuel"           "Jamieberg"
##   [7] "Brandonstad"            "Port Jefferybury"
##   [9] "West Colin"             "Ramirezton"
##  [11] "West Brandonton"        "East Theresashire"
##  [13] "West Katiefurt"         "North Tara"
##  [15] "West William"           "New Travistown"
##  [17] "West Dylanberg"         "Pruittmouth"
##  [19] "Jessicastad"            "Millertown"
##  [21] "Port Jacqueline"        "Lake Nicole"
##  [23] "South John"             "Pamelamouth"
##  [25] "Harperborough"          "Port Danielleberg"
##  [27] "West Jeremyside"        "South Cathyfurt"
##  [29] "Palmerside"             "West Guybury"
##  [31] "Phelpschester"          "Lake Melindamouth"
##  [33] "North Richardburgh"     "Port Cassie"
##  [35] "New Thomas"             "Johnstad"
##  [37] "West Aprilport"         "Kellytown"
##  [39] "Charlesport"            "Millerchester"
##  [41] "Mackenziemouth"         "Zacharystad"
##  [43] "North Joshua"           "Bowenview"
##  [45] "Jamesberg"              "Lake Cassandraport"
##  [47] "New Sharon"             "Johnport"
##  [49] "Hamiltonfort"           "West Christopher"
##  [51] "Hollandberg"            "Odomville"
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##  [65] "Robertfurt"             "Jasminefort"
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##  [69] "New Sheila"             "North Regina"
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##  [77] "Ramirezhaven"           "Cranemouth"
##  [79] "Lake Edward"            "Lake Conniefurt"
##  [81] "East Shawnchester"      "West Joseph"
##  [83] "Lake Christopherfurt"   "East Tylershire"
##  [85] "Sharpberg"              "Lake Dustin"
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##  [89] "New Tina"               "Nelsonfurt"
##  [91] "Christopherport"        "Port Sarahhaven"
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## [105] "Bradshawborough"        "Amyhaven"
## [107] "Marcushaven"            "Erinton"
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## [113] "New Rachel"             "Port Susan"
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## [121] "Johnsport"              "South Ronald"
## [123] "South Daniel"           "Suzannetown"
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## [129] "East Michelleberg"      "Port Eric"
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## [259] "East Timothy"           "Charlottefort"
## [261] "Lake Beckyburgh"        "West Lindseybury"
## [263] "West Alyssa"            "Lake Craigview"
## [265] "Lake David"             "Bruceburgh"
## [267] "South Lauratown"        "Port Robin"
## [269] "Jacksonburgh"           "Erinmouth"
## [271] "Port Aliciabury"        "Port Whitneyhaven"
## [273] "Jeffreyshire"           "Tinaton"
## [275] "North Loriburgh"        "Wendyton"
## [277] "Lake Jacqueline"        "North Christopher"
## [279] "Alexanderfurt"          "West Pamela"
## [281] "West Amanda"            "South Tomside"
## [283] "Bethburgh"              "Jamiefort"
```

```
## [285] "Garciamouth"             "West Brenda"
## [287] "South Kyle"              "Combsstad"
## [289] "Lake Allenville"         "Greenechester"
## [291] "Jordantown"              "Gravesport"
## [293] "South Troy"              "Lake Patrick"
## [295] "Millerland"              "Port Jessicamouth"
## [297] "Paulport"                "Clineshire"
## [299] "Cynthiaside"             "Port Juan"
## [301] "Michellefort"            "Port Angelamouth"
## [303] "Jessicahaven"            "North Daniel"
## [305] "New Juan"                "Amyfurt"
## [307] "Harrishaven"             "Roberttown"
## [309] "Jeremyshire"             "Birdshire"
## [311] "New Amanda"              "Curtisview"
## [313] "Jacksonmouth"            "North April"
## [315] "Hayesmouth"              "South Corey"
## [317] "Juliaport"               "Port Paultown"
## [319] "East Vincentstad"        "Kimberlytown"
## [321] "New Steve"               "New Johnberg"
## [323] "Shawstad"                "New Rebecca"
## [325] "Jeffreyburgh"            "Faithview"
## [327] "Richardsontown"          "Port Brookeland"
## [329] "East Christopherbury"    "Port Christinemouth"
## [331] "South Meghan"            "Hessstad"
## [333] "Rhondaborough"           "Lewismouth"
## [335] "New Paul"                "Lake Angela"
## [337] "East Graceland"          "Hartport"
## [339] "East Yvonnechester"      "Burgessside"
## [341] "Hurleyborough"           "Garychester"
## [343] "East Kevinbury"          "Contrerasshire"
## [345] "Erikville"               "Robertsonburgh"
## [347] "Karenton"                "Port Kathleenfort"
## [349] "Lake Adrian"             "Mollyport"
## [351] "Sandraland"              "Charlenetown"
## [353] "Luischester"             "South Johnnymouth"
## [355] "Hannaport"               "East Anthony"
## [357] "West Daleborough"        "Morrismouth"
## [359] "North Andrewstad"        "West Tanya"
## [361] "Novaktown"               "Timothymouth"
## [363] "Robertmouth"             "Stephenborough"
## [365] "Lake Kurtmouth"          "Lauraburgh"
## [367] "Rogerburgh"              "Davidside"
## [369] "West Thomas"             "Andersonchester"
## [371] "North Ronaldshire"       "Greghaven"
## [373] "Jordanmouth"             "Meyersstad"
## [375] "South Robert"            "New Tyler"
## [377] "Jordanshire"             "Reyesland"
## [379] "New Traceystad"          "Port Brian"
```

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## [381] "Lake Courtney"           "Samuelborough"
## [383] "Christinehaven"          "Thomasstad"
## [385] "Kristintown"             "New Wanda"
## [387] "Mariebury"               "Christopherville"
## [389] "New Jasmine"             "Lopezberg"
## [391] "Jenniferstad"            "West Eduardotown"
## [393] "Davisfurt"               "Bakerhaven"
## [395] "Paulshire"               "West Jane"
## [397] "Lake Brian"              "Alvaradoport"
## [399] "Lake Kevin"              "Richardsonland"
## [401] "East Sheriville"         "Port Michealburgh"
## [403] "Monicaview"              "Katieport"
## [405] "East Brittanyville"      "West Travismouth"
## [407] "Leonchester"             "Ramirezland"
## [409] "Brownton"                "New Jessicaport"
## [411] "New Denisebury"          "Keithtown"
## [413] "Port Melissastad"        "Janiceview"
## [415] "Mataberg"                "West Melaniefurt"
## [417] "Millerfort"              "Alexanderview"
## [419] "South Jade"              "Lake Susan"
## [421] "South Vincentchester"    "Williamsmouth"
## [423] "Taylorport"              "Williamsport"
## [425] "Emilyfurt"               "East Deborahhaven"
## [427] "Port Katelynview"        "Paulhaven"
## [429] "Elizabethmouth"          "Lake Jesus"
## [431] "North Tylerland"         "Munozberg"
## [433] "North Maryland"          "West Barbara"
## [435] "Andrewborough"           "New Gabriel"
## [437] "Port Patrickton"         "West Julia"
## [439] "New Keithburgh"          "Richardsland"
## [441] "North Aaronchester"      "Lake Matthewland"
## [443] "Kevinberg"               "Morganfort"
## [445] "Lovemouth"               "Taylorhaven"
## [447] "Jamesville"              "East Toddfort"
## [449] "East Dana"               "West Lucas"
## [451] "Butlerfort"              "Lindaside"
## [453] "West Chloeborough"       "Jayville"
## [455] "East Lindsey"            "Masseyshire"
## [457] "Sarahton"                "Ryanhaven"
## [459] "Lake Deborahburgh"       "New Williammouth"
## [461] "Port Blake"              "West Richard"
## [463] "Brandymouth"             "Sandraville"
## [465] "Port Jessica"            "Lake Jasonchester"
## [467] "Pearsonfort"             "Sellerstown"
## [469] "Yuton"                   "Smithtown"
## [471] "Joanntown"               "South Peter"
## [473] "Port Mitchell"           "Pottermouth"
## [475] "Lake Jonathanview"       "Alanview"
```

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

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

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## [669] "Donaldshire"            "Salazarbury"
## [671] "Lake Joshuafurt"        "Wintersfort"
## [673] "Jamesmouth"             "Laurieside"
## [675] "Andrewmouth"            "West Angela"
## [677] "East Carlos"            "Kennedyfurt"
## [679] "Blairville"             "East Donnatown"
## [681] "Matthewtown"            "Brandonbury"
## [683] "New Jamestown"          "Mosleyburgh"
## [685] "Leahside"               "West Wendyland"
## [687] "Lawrenceborough"        "Kennethview"
## [689] "West Mariafort"         "Port Sherrystad"
## [691] "West Melissashire"      "Lesliefort"
## [693] "Shawnside"              "Josephmouth"
## [695] "Garciatown"             "Chaseshire"
## [697] "Destinyfurt"            "Mezaton"
## [699] "New Kayla"              "Carsonshire"
## [701] "Jacquelineshire"        "South Blakestad"
## [703] "North Mark"             "Kingchester"
## [705] "Evansfurt"              "South Adamhaven"
## [707] "Brittanyborough"        "Barbershire"
## [709] "East Ericport"          "Crawfordfurt"
## [711] "Turnerville"            "Kylieview"
## [713] "West Zacharyborough"    "Watsonfort"
## [715] "Dayton"                 "Nicholasport"
## [717] "Whitneyfort"            "Coffeytown"
## [719] "North Johnside"         "Robinsonland"
## [721] "West Ericaport"         "Haleberg"
## [723] "West Michaelport"       "Ericksonmouth"
## [725] "Yangside"               "Estradafurt"
## [727] "Frankport"              "Williamsside"
## [729] "Johnsonview"            "East Heidi"
## [731] "New Angelview"          "Lake Brandonview"
## [733] "Morganport"             "Browntown"
## [735] "Lake Hailey"            "Olsonside"
## [737] "Coxhaven"               "Meaganfort"
## [739] "North Monicaville"      "Mullenside"
## [741] "Princebury"             "Bradleyside"
## [743] "Elizabethbury"          "West Ryan"
## [745] "New Tammy"              "Sanchezland"
## [747] "Rogerland"              "Vanessaview"
## [749] "Jessicashire"           "Melissachester"
## [751] "Johnsontown"            "New Joshuaport"
## [753] "Hernandezside"          "New Williamville"
## [755] "Gilbertville"           "Newmanberg"
## [757] "West Alice"             "Cannonbury"
## [759] "Shelbyport"             "New Henry"
## [761] "Dustinmouth"            "New Hollyberg"
## [763] "Port Brittanyville"     "East Ronald"
```

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## [765] "South Davidmouth"        "Carterton"
## [767] "Rachelhaven"              "New Timothy"
## [769] "North Jessicaville"       "Staceyfort"
## [771] "South Dianeshire"         "Micheletown"
## [773] "North Brittanyburgh"      "Port Jasmine"
## [775] "New Sabrina"              "Lake Charlottestad"
## [777] "West Rhondamouth"         "North Debra"
## [779] "Villanuevastad"           "North Jeremyport"
## [781] "Lake John"                "Courtneyfort"
## [783] "Tammymouth"               "Lake Vanessa"
## [785] "Lake Amanda"              "Mariemouth"
## [787] "Port Douglasborough"      "Port Aprilville"
## [789] "Lake Faith"               "Wendyville"
## [791] "Angelhaven"               "New Sean"
## [793] "Lake Lisa"                "Valerieland"
## [795] "New Travis"               "North Samantha"
## [797] "Holderville"              "Patrickmouth"
## [799] "Lake Deannaborough"       "Jeffreymouth"
## [801] "Davieshaven"              "Lake Jessicaville"
## [803] "Hernandezchester"         "North Kennethside"
## [805] "Williamport"              "Smithside"
## [807] "Vanessastad"              "Lake Rhondaburgh"
## [809] "Cunninghamhaven"          "Robertstown"
## [811] "South Mark"               "New Taylorburgh"
## [813] "Port Karenfurt"           "Carterland"
## [815] "East Shawn"               "West Derekmouth"
## [817] "Brandiland"               "Cervantesshire"
## [819] "North Debrashire"         "Deannaville"
## [821] "East Christopher"         "Rickymouth"
## [823] "Port Dennis"              "Lake Michelle"
## [825] "East Johnport"            "Sabrinaview"
## [827] "Kristinfurt"              "Chapmanland"
## [829] "North Jonathan"           "Port Christina"
## [831] "Juanport"                 "East Mike"
## [833] "North Angelatown"         "West Steven"
## [835] "Riggsstad"                "Davidview"
## [837] "Port Kevinborough"        "Lawsonshire"
## [839] "Wagnerchester"            "Daisymouth"
## [841] "Port Jacquelinestad"      "New Teresa"
## [843] "Henryfort"                "Lake Joseph"
## [845] "Daviesborough"            "North Brandon"
## [847] "Adamside"                 "Wademouth"
## [849] "North Raymond"            "Randolphport"
## [851] "East Troyhaven"           "Clarkborough"
## [853] "Josephberg"               "Lake Jenniferton"
## [855] "Ashleymouth"              "Henryland"
## [857] "Lake Danielle"            "Joshuaburgh"
## [859] "South Jeanneport"         "New Nathan"
```

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## [861] "Jonesshire"             "Mariahview"
## [863] "New Julianberg"         "Randyshire"
## [865] "Philipberg"             "West Dennis"
## [867] "Richardshire"           "Lake James"
## [869] "Austinborough"          "Alexandrafort"
## [871] "Melissastad"            "Gonzalezburgh"
## [873] "Port Jennifer"          "Chrismouth"
## [875] "Port Beth"              "West David"
## [877] "Fraziershire"           "South Pamela"
## [879] "North Laurenview"       "Campbellstad"
## [881] "Port Derekberg"         "West Andrew"
## [883] "West Randy"             "South Christopher"
## [885] "Lake Michellebury"      "Zacharyton"
## [887] "West James"             "Millerview"
## [889] "Hawkinsbury"            "Elizabethport"
## [891] "Wadestad"               "Mauriceshire"
## [893] "West Arielstad"         "Adamsstad"
## [895] "Blairborough"           "New Marcusbury"
## [897] "Evansville"             "Huffmanchester"
## [899] "New Cynthia"            "Joshuamouth"
## [901] "West Benjamin"          "Williamsfort"
## [903] "North Tiffany"          "Edwardsport"
## [905] "Lake Evantown"          "South Henry"
## [907] "Harmonhaven"            "West Gregburgh"
## [909] "Hansenland"             "Port Michaelmouth"
## [911] "Tylerport"              "West Lacey"
## [913] "North Jenniferburgh"    "South Davidhaven"
## [915] "North Charlesbury"      "Jonathanland"
## [917] "North Virginia"         "West Tanner"
## [919] "Jonesmouth"             "West Annefort"
## [921] "East Jason"             "North Cassie"
## [923] "Hintonport"             "New James"
## [925] "North Destiny"          "Mclaughlinbury"
## [927] "West Gabriellamouth"    "Alvarezland"
## [929] "New Julie"              "North Frankstad"
## [931] "Claytonside"            "Melanieton"
## [933] "Lake Michaelport"       "East Benjaminville"
## [935] "Garrettborough"         "Port Raymondfort"
## [937] "Waltertown"             "Cameronberg"
## [939] "Kaylashire"             "Fosterside"
## [941] "Davidstad"              "Lake Tracy"
## [943] "Taylormouth"            "Dianaville"
## [945] "Collinsburgh"           "Port Rachel"
## [947] "South Rebecca"          "Port Joshuafort"
## [949] "Robinsontown"           "Beckton"
## [951] "New Frankshire"         "North Derekville"
## [953] "West Sydney"            "Lake Matthew"
## [955] "Lake Zacharyfurt"       "Lindsaymouth"
```

```
## [957] "Sarahland"              "Michaelshire"
## [959] "Sarafurt"               "South Denise"
## [961] "North Katie"            "Mauricefurt"
## [963] "New Patrick"            "Edwardsmouth"
## [965] "Nicholasland"           "Duffystad"
## [967] "New Darlene"            "South Jessica"
## [969] "Ronniemouth"
##
## $Male
## [1] 0 1
## Levels: 0 1
##
## $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"
##
## $Timestamp
##   [1] "2016-03-27" "2016-04-04" "2016-03-13" "2016-01-10" "2016-06-03"
##   [6] "2016-05-19" "2016-01-28" "2016-03-07" "2016-04-18" "2016-07-11"
##  [11] "2016-03-16" "2016-05-08" "2016-04-20" "2016-03-24" "2016-03-09"
##  [16] "2016-01-30" "2016-05-02" "2016-02-13" "2016-02-27" "2016-01-05"
##  [21] "2016-03-18" "2016-05-20" "2016-03-23" "2016-06-13" "2016-05-27"
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##  [31] "2016-03-01" "2016-07-15" "2016-01-14" "2016-03-15" "2016-04-12"
##  [36] "2016-04-07" "2016-02-09" "2016-05-07" "2016-03-11" "2016-04-27"
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##  [66] "2016-04-01" "2016-02-03" "2016-05-15" "2016-04-19" "2016-06-12"
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##  [96] "2016-05-04" "2016-01-03" "2016-01-12" "2016-02-05" "2016-03-21"
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## [111] "2016-01-07" "2016-05-09" "2016-06-23" "2016-06-20" "2016-02-29"
## [116] "2016-01-29" "2016-07-14" "2016-01-25" "2016-03-19" "2016-05-23"
## [121] "2016-01-04" "2016-05-24" "2016-06-02" "2016-02-21" "2016-06-26"
## [126] "2016-06-19" "2016-07-21" "2016-01-21" "2016-01-13" "2016-06-16"
## [131] "2016-06-27" "2016-05-29" "2016-04-15" "2016-05-06" "2016-01-11"
## [136] "2016-03-04" "2016-04-23" "2016-06-18" "2016-07-17" "2016-04-21"
## [141] "2016-03-30" "2016-02-16" "2016-06-09" "2016-06-06" "2016-04-24"
## [146] "2016-01-06" "2016-01-31" "2016-03-17" "2016-02-02" "2016-04-13"
## [151] "2016-07-20" "2016-01-20" "2016-02-15" "2016-07-18" "2016-05-21"
## [156] "2016-06-28" "2016-03-25" "2016-01-23" "2016-05-30" "2016-04-17"
## [161] "2016-05-31" "2016-02-19" "2016-02-18" "2016-03-03" "2016-06-24"
## [166] "2016-05-12" "2016-01-01" "2016-07-16" "2016-04-09" "2016-05-11"
## [171] "2016-06-17" "2016-04-08" "2016-01-19" "2016-01-15" "2016-03-26"
## [176] "2016-05-16" "2016-06-07" "2016-01-18" "2016-03-22" "2016-06-30"
```

```
## [181] "2016-01-02" "2016-07-04" "2016-03-20" "2016-05-01" "2016-04-05"
## [186] "2016-02-24" "2016-04-29" "2016-07-24" "2016-01-22" "2016-02-23"
## [191] "2016-05-18" "2016-04-26" "2016-01-24" "2016-03-05" "2016-06-25"
## [196] "2016-07-22" "2016-03-06" "2016-07-10" "2016-06-04" "2016-07-12"
## [201] "2016-05-14" "2016-02-25" "2016-02-22"
##
## $Clicked.on.Ad
## [1] 0 1
## Levels: 0 1
```

the code above displays unique values in each column, there are no visible anomalies

```
#plotting outliers
boxplot(course[,1])
```
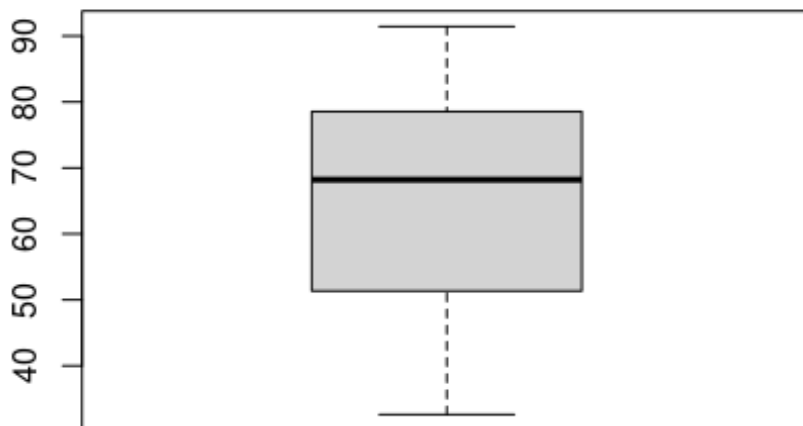


```
#plotting outliers
boxplot(course[,2])
```
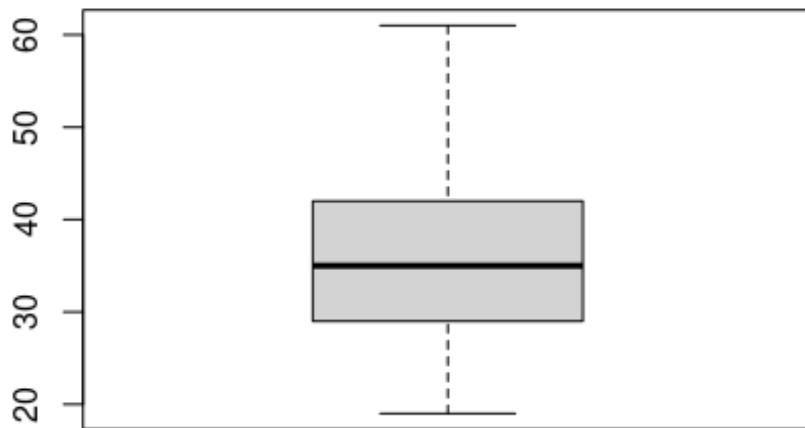
```
#plotting outliars
boxplot(course[,3])
```
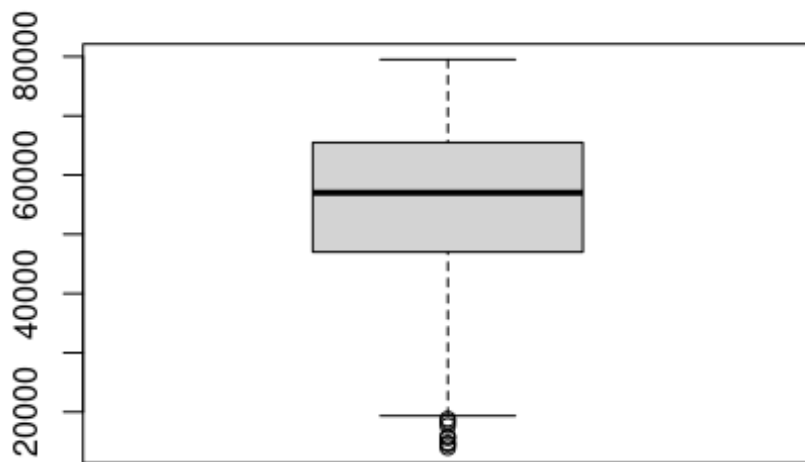
Area income has outliers since mean as a measure of central tendency doesn't capture the difference in earnings

```
#plotting outliers
boxplot(course[,4])
```
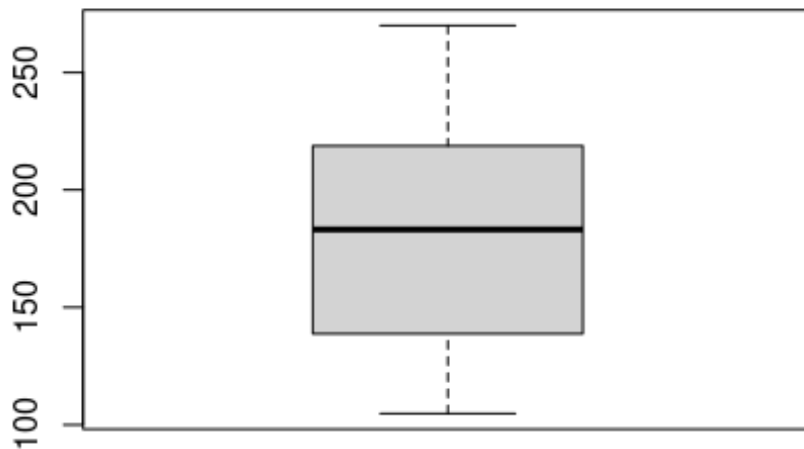
Univariate Analysis

```
#descriptive statistics of the datasets
summary(course)
```

```
##  Daily.Time.Spent.on.Site        Age            Area.Income
Daily.Internet.Usage
##  Min.   :32.60           Min.   :19.00   Min.   :13996    Min.   :104.8
##  1st Qu.:51.36           1st Qu.:29.00   1st Qu.:47032    1st Qu.:138.8
##  Median :68.22           Median :35.00   Median :57012    Median :183.1
##  Mean   :65.00           Mean   :36.01   Mean   :55000    Mean   :180.0
##  3rd Qu.:78.55           3rd Qu.:42.00   3rd Qu.:65471    3rd Qu.:218.8
##  Max.   :91.43           Max.   :61.00   Max.   :79485    Max.   :270.0
##  Ad.Topic.Line        City             Male        Country
##  Length:1000      Length:1000         0:519    Length:1000
##  Class :character  Class :character   1:481    Class :character
##  Mode  :character  Mode  :character            Mode  :character
##
##
##
##    Timestamp         Clicked.on.Ad
##  Min.   :2016-01-01   0:500
##  1st Qu.:2016-02-17   1:500
##  Median :2016-04-07
##  Mean   :2016-04-09
```

```
##   3rd Qu.:2016-05-31
##   Max.   :2016-07-24
```

The mode, mean, median, range, maximum and minimum values of each variables are displayed above

Frequency Tables

```
library("plyr")

##
----------------------------------------------------------------------------
-

## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first,
then dplyr:
## library(plyr); library(dplyr)

##
----------------------------------------------------------------------------
-

##
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':
##
##      arrange, count, desc, failwith, id, mutate, rename, summarise,
##      summarize

## The following object is masked from 'package:purrr':
##
##      compact

count(course, 'Ad.Topic.Line')

##                                         Ad.Topic.Line freq
## 1                     Adaptive 24hour Graphic Interface    1
## 2                         Adaptive asynchronous attitude    1
## 3                 Adaptive context-sensitive application    1
## 4                 Adaptive contextually-based methodology    1
## 5                   Adaptive demand-driven knowledgebase    1
## 6                           Adaptive uniform capability    1
## 7                             Advanced 24/7 productivity    1
## 8                       Advanced 5thgeneration capability    1
## 9                       Advanced didactic conglomeration    1
## 10                Advanced disintermediate data-warehouse    1
## 11                       Advanced exuding conglomeration    1
## 12                          Advanced full-range migration    1
## 13                             Advanced heuristic firmware    1
```

```
## 14                           Advanced local task-force   1
## 15                   Advanced modular Local Area Network   1
## 16                         Advanced systemic productivity   1
## 17                    Advanced web-enabled standardization   1
## 18                         Ameliorated actuating workforce   1
## 19               Ameliorated bandwidth-monitored contingency   1
## 20                      Ameliorated client-driven forecast   1
## 21                    Ameliorated coherent open architecture   1
## 22               Ameliorated contextually-based collaboration   1
## 23                        Ameliorated discrete extranet   1
## 24                        Ameliorated exuding encryption   1
## 25                          Ameliorated exuding solution   1
## 26     Ameliorated intermediate Graphical User Interface   1
## 27                    Ameliorated leadingedge help-desk   1
## 28                          Ameliorated local workforce   1
## 29                         Ameliorated tangible hierarchy   1
## 30                 Ameliorated upward-trending definition   1
## 31                    Ameliorated user-facing help-desk   1
## 32                 Ameliorated well-modulated complexity   1
## 33                         Assimilated actuating policy   1
## 34                         Assimilated discrete strategy   1
## 35                        Assimilated encompassing portal   1
## 36                        Assimilated fault-tolerant hub   1
## 37               Assimilated homogeneous service-desk   1
## 38                        Assimilated hybrid initiative   1
## 39                    Assimilated multi-state paradigm   1
## 40                 Assimilated next generation firmware   1
## 41                    Assimilated stable encryption   1
## 42              Automated client-driven orchestration   1
## 43                    Automated coherent flexibility   1
## 44                    Automated directional function   1
## 45             Automated full-range Internet solution   1
## 46                          Automated mobile model   1
## 47                    Automated multi-state toolset   1
## 48             Automated object-oriented firmware   1
## 49                    Automated stable help-desk   1
## 50                      Automated static concept   1
## 51             Automated web-enabled migration   1
## 52                Balanced 4thgeneration success   1
## 53                Balanced actuating moderator   1
## 54                Balanced asynchronous hierarchy   1
## 55     Balanced contextually-based pricing structure   1
## 56                      Balanced discrete approach   1
## 57     Balanced disintermediate conglomeration   1
## 58                Balanced dynamic application   1
## 59                Balanced empowering success   1
## 60                Balanced executive definition   1
## 61                Balanced heuristic approach   1
```

```
## 62                       Balanced mobile Local Area Network        1
## 63                          Balanced motivating help-desk          1
## 64                         Balanced responsive open system         1
## 65                           Balanced uniform algorithm            1
## 66                         Balanced value-added database           1
## 67        Business-focused asynchronous budgetary management       1
## 68                 Business-focused background synergy             1
## 69                Business-focused client-driven forecast          1
## 70               Business-focused encompassing neural-net          1
## 71                 Business-focused high-level hardware            1
## 72                  Business-focused holistic benchmark            1
## 73                 Business-focused maximized complexity           1
## 74                  Business-focused real-time toolset             1
## 75                 Business-focused responsive website             1
## 76                Business-focused transitional solution           1
## 77               Business-focused user-facing benchmark            1
## 78               Business-focused value-added definition           1
## 79                      Centralized 24/7 installation              1
## 80                        Centralized 24hour synergy               1
## 81                     Centralized asynchronous portal             1
## 82          Centralized clear-thinking Graphic Interface           1
## 83                   Centralized client-driven workforce           1
## 84                  Centralized content-based focus group          1
## 85                   Centralized logistical secured line           1
## 86                     Centralized multi-state hierarchy           1
## 87                     Centralized neutral neural-net              1
## 88                  Centralized systematic knowledgebase           1
## 89                  Centralized tertiary pricing structure         1
## 90                   Centralized user-facing service-desk          1
## 91                   Centralized value-added hierarchy             1
## 92                  Cloned 5thgeneration orchestration             1
## 93              Cloned analyzing artificial intelligence           1
## 94                        Cloned dedicated analyzer                1
## 95                        Cloned explicit middleware               1
## 96                        Cloned incremental matrices              1
## 97                  Cloned object-oriented benchmark               1
## 98                          Cloned optimal leverage                1
## 99                        Compatible composite project             1
## 100                   Compatible dedicated productivity            1
## 101                 Compatible intangible customer loyalty         1
## 102                   Compatible intermediate concept              1
## 103                   Compatible scalable emulation                1
## 104                     Compatible systemic function               1
## 105                         Configurable 24/7 hub                  1
## 106               Configurable asynchronous application            1
## 107                Configurable bottom-line application            1
## 108                   Configurable coherent function               1
## 109              Configurable disintermediate throughput           1
```

```
## 110                       Configurable dynamic adapter    1
## 111                  Configurable dynamic secured line    1
## 112              Configurable fault-tolerant monitoring    1
## 113                   Configurable impactful capacity     1
## 114                   Configurable impactful firmware     1
## 115               Configurable impactful productivity     1
## 116              Configurable interactive contingency     1
## 117       Configurable logistical Graphical User Interface    1
## 118            Configurable mission-critical algorithm     1
## 119                Configurable multi-state utilization    1
## 120          Configurable tertiary budgetary management    1
## 121                  Configurable tertiary capability     1
## 122                  Cross-group global orchestration     1
## 123               Cross-group human-resource time-frame    1
## 124                      Cross-group neutral synergy      1
## 125              Cross-group non-volatile secured line     1
## 126                     Cross-group regional website      1
## 127             Cross-group systemic customer loyalty     1
## 128                 Cross-group value-added success       1
## 129           Cross-platform 4thgeneration focus group     1
## 130            Cross-platform client-server hierarchy     1
## 131              Cross-platform directional intranet      1
## 132         Cross-platform logistical pricing structure    1
## 133               Cross-platform multimedia algorithm     1
## 134             Cross-platform neutral system engine      1
## 135               Cross-platform regional task-force      1
## 136               Cross-platform zero-defect structure     1
## 137                    Customer-focused 24/7 concept      1
## 138    Customer-focused attitude-oriented instruction set   1
## 139              Customer-focused empowering ability      1
## 140               Customer-focused explicit challenge      1
## 141      Customer-focused fault-tolerant implementation    1
## 142             Customer-focused full-range neural-net     1
## 143              Customer-focused impactful success       1
## 144        Customer-focused incremental system engine     1
## 145      Customer-focused multi-tasking Internet solution   1
## 146            Customer-focused optimizing moderator      1
## 147        Customer-focused solution-oriented software     1
## 148        Customer-focused system-worthy superstructure    1
## 149             Customer-focused transitional strategy     1
## 150       Customer-focused upward-trending contingency     1
## 151     Customer-focused zero-defect process improvement    1
## 152           Customizable 6thgeneration knowledge user     1
## 153                 Customizable executive software       1
## 154                    Customizable holistic archive      1
## 155              Customizable homogeneous contingency      1
## 156                Customizable hybrid system engine       1
## 157     Customizable methodical Graphical User Interface
```

```
## 158                   Customizable mission-critical adapter   1
## 159                    Customizable modular Internet solution  1
## 160                     Customizable multi-tasking website     1
## 161                   Customizable systematic service-desk     1
## 162                        Customizable tangible hierarchy      1
## 163                       Customizable value-added project      1
## 164             Customizable zero-defect Internet solution     1
## 165                      Customizable zero-defect matrix        1
## 166                      De-engineered actuating hierarchy      1
## 167            De-engineered attitude-oriented projection      1
## 168                 De-engineered fault-tolerant database      1
## 169                 De-engineered intangible flexibility      1
## 170                 De-engineered mobile infrastructure       1
## 171                De-engineered object-oriented protocol      1
## 172    De-engineered solution-oriented open architecture      1
## 173                De-engineered tertiary secured line        1
## 174                      Decentralized 24hour approach         1
## 175             Decentralized attitude-oriented interface      1
## 176                Decentralized bottom-line help-desk        1
## 177          Decentralized client-driven data-warehouse       1
## 178             Decentralized foreground infrastructure       1
## 179                 Decentralized methodical capability       1
## 180                Decentralized needs-based analyzer         1
## 181                  Decentralized real-time circuit          1
## 182                Devolved exuding Local Area Network        1
## 183                Devolved human-resource circuit            1
## 184                     Devolved regional moderator           1
## 185                  Devolved responsive structure            1
## 186                       Devolved tangible approach           1
## 187                Devolved zero administration intranet      1
## 188                  Digitized content-based circuit          1
## 189               Digitized contextually-based product        1
## 190                 Digitized disintermediate ability         1
## 191                     Digitized global capability           1
## 192                    Digitized heuristic solution           1
## 193                      Digitized homogeneous core           1
## 194                 Digitized interactive initiative          1
## 195                  Digitized radical architecture           1
## 196                        Digitized radical array            1
## 197                    Digitized static capability            1
## 198            Digitized zero administration paradigm         1
## 199                Digitized zero-defect implementation       1
## 200               Distributed 3rdgeneration definition        1
## 201                  Distributed bifurcated challenge         1
## 202                   Distributed cohesive migration          1
## 203          Distributed fault-tolerant service-desk          1
## 204                  Distributed intangible database          1
## 205               Distributed leadingedge orchestration       1
```

```
## 206                       Distributed maximized ability    1
## 207                  Distributed scalable orchestration    1
## 208                  Distributed tertiary system engine    1
## 209                         Diverse background ability    1
## 210                        Diverse directional hardware    1
## 211                         Diverse executive groupware    1
## 212                         Diverse leadingedge website    1
## 213                           Diverse modular interface    1
## 214                   Diverse multi-tasking parallelism    1
## 215                             Diverse stable circuit    1
## 216                   Down-sized background groupware    1
## 217                Down-sized bandwidth-monitored core    1
## 218            Down-sized explicit budgetary management    1
## 219                        Down-sized modular intranet    1
## 220                   Down-sized uniform info-mediaries    1
## 221                  Down-sized well-modulated archive    1
## 222                     Enhanced asymmetric installation    1
## 223                          Enhanced dedicated support    1
## 224                     Enhanced homogeneous moderator    1
## 225                          Enhanced intangible portal    1
## 226              Enhanced intermediate standardization    1
## 227                          Enhanced maximized access    1
## 228                       Enhanced methodical database    1
## 229                         Enhanced optimizing website    1
## 230                   Enhanced regional conglomeration    1
## 231                 Enhanced system-worthy application    1
## 232                     Enhanced system-worthy toolset    1
## 233                         Enhanced systematic adapter    1
## 234                       Enhanced systemic benchmark    1
## 235                      Enhanced tertiary utilization    1
## 236            Enhanced zero tolerance Graphic Interface    1
## 237          Enterprise-wide bi-directional secured line    1
## 238           Enterprise-wide client-driven contingency    1
## 239               Enterprise-wide foreground emulation    1
## 240     Enterprise-wide incremental Internet solution    1
## 241                  Enterprise-wide local matrices    1
## 242                  Enterprise-wide tangible model    1
## 243                          Ergonomic 24/7 solution    1
## 244                Ergonomic client-driven application    1
## 245                         Ergonomic empowering frame    1
## 246                  Ergonomic full-range time-frame    1
## 247                Ergonomic methodical encoding    1
## 248                  Ergonomic multi-state structure    1
## 249                          Ergonomic neutral portal    1
## 250                Ergonomic zero tolerance encoding    1
## 251                 Exclusive client-driven model    1
## 252                    Exclusive cohesive intranet    1
## 253                    Exclusive discrete firmware    1
```

```
## 254              Exclusive disintermediate Internet solution    1
## 255                   Exclusive disintermediate task-force    1
## 256                     Exclusive even-keeled moratorium    1
## 257              Exclusive multi-state Internet solution    1
## 258                     Exclusive neutral parallelism    1
## 259                     Exclusive systematic algorithm    1
## 260                   Exclusive zero tolerance alliance    1
## 261                     Exclusive zero tolerance frame    1
## 262                     Expanded clear-thinking core    1
## 263                       Expanded full-range synergy    1
## 264                       Expanded intangible solution    1
## 265                       Expanded modular application    1
## 266                         Expanded radical software    1
## 267                     Expanded value-added emulation    1
## 268                 Expanded zero administration attitude    1
## 269                       Extended analyzing emulation    1
## 270              Extended context-sensitive monitoring    1
## 271                     Extended grid-enabled hierarchy    1
## 272                       Extended interactive model    1
## 273                     Extended leadingedge solution    1
## 274                       Extended local methodology    1
## 275                         Extended systemic policy    1
## 276                 Face-to-face analyzing encryption    1
## 277                 Face-to-face dedicated flexibility    1
## 278                 Face-to-face even-keeled website    1
## 279                 Face-to-face executive encryption    1
## 280                 Face-to-face intermediate approach    1
## 281                   Face-to-face methodical intranet    1
## 282             Face-to-face mission-critical definition    1
## 283         Face-to-face modular budgetary management    1
## 284                 Face-to-face multimedia success    1
## 285             Face-to-face reciprocal methodology    1
## 286                 Face-to-face responsive alliance    1
## 287                 Focused 24hour implementation    1
## 288             Focused 3rdgeneration pricing structure    1
## 289                         Focused coherent success    1
## 290         Focused fresh-thinking Graphic Interface    1
## 291             Focused high-level conglomeration    1
## 292                     Focused high-level frame    1
## 293         Focused incremental Graphic Interface    1
## 294                 Focused intangible moderator    1
## 295                 Focused multi-state workforce    1
## 296             Focused multimedia implementation    1
## 297                 Focused scalable complexity    1
## 298                 Focused systemic benchmark    1
## 299             Focused upward-trending core    1
## 300     Focused web-enabled Graphical User Interface    1
## 301             Front-line actuating functionalities    1
```

```
## 302                Front-line bandwidth-monitored capacity    1
## 303                          Front-line bifurcated ability    1
## 304                             Front-line dynamic model      1
## 305                        Front-line even-keeled website      1
## 306                      Front-line fault-tolerant intranet    1
## 307                   Front-line fresh-thinking installation   1
## 308                   Front-line fresh-thinking open system    1
## 309                     Front-line heuristic data-warehouse    1
## 310                        Front-line incremental access       1
## 311                     Front-line intermediate database       1
## 312                     Front-line methodical utilization      1
## 313                            Front-line multi-state hub       1
## 314                            Front-line neutral alliance      1
## 315                  Front-line non-volatile implementation     1
## 316                     Front-line system-worthy flexibility    1
## 317                       Front-line systemic capability       1
## 318                          Front-line tangible alliance       1
## 319                    Front-line upward-trending groupware     1
## 320                           Front-line zero-defect array      1
## 321                 Fully-configurable 5thgeneration circuit    1
## 322                 Fully-configurable asynchronous firmware    1
## 323              Fully-configurable clear-thinking throughput   1
## 324          Fully-configurable client-driven customer loyalty 1
## 325       Fully-configurable context-sensitive Graphic Interface 1
## 326                   Fully-configurable eco-centric frame      1
## 327                  Fully-configurable foreground solution     1
## 328                  Fully-configurable high-level groupware    1
## 329             Fully-configurable high-level implementation    1
## 330                  Fully-configurable holistic throughput     1
## 331   Fully-configurable incremental Graphical User Interface   1
## 332                 Fully-configurable neutral open system     1
## 333               Fully-configurable systemic productivity     1
## 334           Function-based context-sensitive secured line    1
## 335               Function-based directional productivity      1
## 336                   Function-based executive moderator       1
## 337                   Function-based fault-tolerant model      1
## 338              Function-based incremental standardization    1
## 339                    Function-based optimizing extranet      1
## 340                    Function-based optimizing protocol      1
## 341                       Function-based stable alliance       1
## 342                 Function-based transitional complexity     1
## 343                 Fundamental clear-thinking knowledgebase   1
## 344                   Fundamental fault-tolerant neural-net    1
## 345                      Fundamental methodical support        1
## 346                        Fundamental modular algorithm       1
## 347                     Fundamental tangible moratorium        1
## 348                    Fundamental zero tolerance solution     1
## 349              Future-proofed coherent budgetary management   1
```

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## 350                      Future-proofed coherent hardware    1
## 351            Future-proofed fresh-thinking conglomeration   1
## 352              Future-proofed grid-enabled implementation    1
## 353                 Future-proofed holistic superstructure     1
## 354                    Future-proofed methodical protocol      1
## 355                    Future-proofed modular utilization      1
## 356                    Future-proofed responsive matrix        1
## 357                     Future-proofed stable function         1
## 358                   Grass-roots 4thgeneration forecast       1
## 359                     Grass-roots coherent extranet          1
## 360                    Grass-roots cohesive monitoring         1
## 361              Grass-roots eco-centric instruction set       1
## 362                    Grass-roots empowering paradigm         1
## 363                   Grass-roots impactful system engine      1
## 364                 Grass-roots mission-critical emulation     1
## 365                     Grass-roots multimedia policy          1
## 366            Grass-roots solution-oriented conglomeration    1
## 367                    Grass-roots systematic hardware         1
## 368                  Grass-roots transitional flexibility      1
## 369                  Horizontal client-driven hierarchy        1
## 370                  Horizontal client-server database         1
## 371                   Horizontal content-based synergy         1
## 372                   Horizontal even-keeled challenge         1
## 373                     Horizontal global leverage             1
## 374                     Horizontal heuristic support           1
## 375                     Horizontal heuristic synergy           1
## 376                   Horizontal high-level concept            1
## 377                    Horizontal hybrid challenge             1
## 378                  Horizontal incremental website            1
## 379               Horizontal intermediate monitoring           1
## 380                    Horizontal modular success              1
## 381                 Horizontal multi-state interface           1
## 382                 Horizontal national architecture           1
## 383                 Horizontal transitional challenge          1
## 384               Implemented asynchronous application         1
## 385                 Implemented bifurcated workforce           1
## 386             Implemented bottom-line implementation         1
## 387       Implemented context-sensitive Local Area Network     1
## 388                   Implemented didactic support             1
## 389                    Implemented discrete frame              1
## 390                 Implemented disintermediate attitude       1
## 391                   Implemented uniform synergy              1
## 392               Innovative background conglomeration         1
## 393               Innovative cohesive pricing structure        1
## 394                  Innovative executive encoding             1
## 395                 Innovative homogeneous alliance            1
## 396                   Innovative interactive portal            1
## 397                   Innovative maximized groupware           1
```

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## 398                           Innovative regional groupware   1
## 399                           Innovative regional structure   1
## 400                          Innovative user-facing extranet   1
## 401                         Integrated 3rdgeneration monitoring   1
## 402                        Integrated client-server definition   1
## 403                     Integrated coherent pricing structure   1
## 404                           Integrated encompassing support   1
## 405              Integrated grid-enabled budgetary management   1
## 406                       Integrated human-resource encoding   1
## 407                             Integrated impactful groupware   1
## 408                           Integrated interactive support   1
## 409                              Integrated leadingedge frame   1
## 410                        Integrated maximized service-desk   1
## 411                         Integrated motivating neural-net   1
## 412                               Intuitive dynamic attitude   1
## 413                         Intuitive explicit conglomeration   1
## 414                             Intuitive explicit firmware   1
## 415                         Intuitive exuding service-desk   1
## 416                       Intuitive fresh-thinking moderator   1
## 417                               Intuitive global website   1
## 418                         Intuitive modular system engine   1
## 419                               Intuitive radical forecast   1
## 420          Intuitive transitional artificial intelligence   1
## 421                 Intuitive zero administration adapter   1
## 422                         Intuitive zero-defect framework   1
## 423                       Inverse asymmetric instruction set   1
## 424                     Inverse bi-directional knowledge user   1
## 425                             Inverse discrete extranet   1
## 426                         Inverse high-level capability   1
## 427                                 Inverse local hub   1
## 428                             Inverse national core   1
## 429                     Inverse next generation moratorium   1
## 430                               Inverse stable synergy   1
## 431            Inverse zero tolerance customer loyalty   1
## 432                   Inverse zero-defect capability   1
## 433                           Managed 24hour analyzer   1
## 434                     Managed 5thgeneration time-frame   1
## 435                       Managed 6thgeneration hierarchy   1
## 436           Managed attitude-oriented Internet solution   1
## 437                       Managed client-server access   1
## 438                       Managed didactic flexibility   1
## 439                   Managed disintermediate capability   1
## 440                     Managed disintermediate matrices   1
## 441                       Managed eco-centric encoding   1
## 442                 Managed grid-enabled standardization   1
## 443                       Managed impactful definition   1
## 444                         Managed national hardware   1
## 445             Managed upward-trending instruction set   1
```

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## 446                 Managed well-modulated collaboration       1
## 447                       Managed zero tolerance concept        1
## 448                      Mandatory 3rdgeneration moderator       1
## 449                      Mandatory 4thgeneration structure       1
## 450                          Mandatory coherent groupware       1
## 451                     Mandatory dedicated data-warehouse       1
## 452                 Mandatory disintermediate info-mediaries     1
## 453                   Mandatory disintermediate utilization      1
## 454                        Mandatory empowering focus group      1
## 455                     Mandatory homogeneous architecture       1
## 456                              Monitored 24/7 moratorium       1
## 457                    Monitored content-based implementation    1
## 458                   Monitored context-sensitive initiative     1
## 459                     Monitored dynamic instruction set        1
## 460                       Monitored executive architecture       1
## 461                          Monitored explicit hierarchy        1
## 462             Monitored homogeneous artificial intelligence    1
## 463                        Monitored intermediate circuit        1
## 464                      Monitored local Internet solution       1
## 465                    Monitored national standardization        1
## 466             Monitored object-oriented Graphic Interface      1
## 467                    Monitored real-time superstructure        1
## 468                        Monitored systematic hierarchy        1
## 469             Monitored zero administration collaboration       1
## 470                     Multi-channeled 3rdgeneration model       1
## 471                  Multi-channeled asymmetric installation      1
## 472                 Multi-channeled asynchronous open system     1
## 473                  Multi-channeled attitude-oriented toolset    1
## 474                  Multi-channeled mission-critical success     1
## 475                    Multi-channeled non-volatile website      1
## 476           Multi-channeled reciprocal artificial intelligence 1
## 477                   Multi-channeled scalable moratorium        1
## 478                    Multi-lateral 24/7 Internet solution      1
## 479                 Multi-lateral attitude-oriented adapter      1
## 480                    Multi-lateral empowering throughput       1
## 481                       Multi-lateral motivating circuit       1
## 482                  Multi-lateral multi-state encryption        1
## 483               Multi-layered 4thgeneration knowledge user     1
## 484                  Multi-layered fresh-thinking neural-net      1
## 485           Multi-layered fresh-thinking process improvement   1
## 486        Multi-layered non-volatile Graphical User Interface   1
## 487                    Multi-layered secondary software         1
## 488                       Multi-layered stable encoding         1
## 489                       Multi-layered tangible portal         1
## 490                  Multi-layered user-facing paradigm          1
## 491                  Multi-layered user-facing parallelism       1
## 492               Multi-tiered foreground Graphic Interface      1
## 493                       Multi-tiered heuristic strategy        1
```

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## 494                 Multi-tiered human-resource structure    1
## 495                  Multi-tiered interactive neural-net    1
## 496                     Multi-tiered maximized archive    1
## 497                      Multi-tiered mobile encoding    1
## 498                  Multi-tiered multi-state moderator    1
## 499               Multi-tiered real-time implementation    1
## 500                      Multi-tiered stable leverage    1
## 501                 Networked asymmetric infrastructure    1
## 502                  Networked client-server solution    1
## 503                    Networked coherent interface    1
## 504                  Networked even-keeled workforce    1
## 505                 Networked foreground definition    1
## 506                  Networked high-level structure    1
## 507                   Networked impactful framework    1
## 508                   Networked local secured line    1
## 509               Networked logistical info-mediaries    1
## 510                  Networked non-volatile synergy    1
## 511              Networked regional Local Area Network    1
## 512                 Networked responsive application    1
## 513                        Networked stable array    1
## 514                Networked stable open architecture    1
## 515                 Object-based executive productivity    1
## 516                 Object-based leadingedge complexity    1
## 517                 Object-based modular functionalities    1
## 518              Object-based motivating instruction set    1
## 519                     Object-based neutral policy    1
## 520                     Object-based optimal solution    1
## 521                Object-based reciprocal knowledgebase    1
## 522             Object-based system-worthy superstructure    1
## 523               Open-architected full-range projection    1
## 524              Open-architected impactful productivity    1
## 525                Open-architected intangible strategy    1
## 526           Open-architected needs-based customer loyalty    1
## 527              Open-architected system-worthy ability    1
## 528            Open-architected system-worthy task-force    1
## 529             Open-architected web-enabled benchmark    1
## 530     Open-architected zero administration secured line    1
## 531               Open-source 5thgeneration leverage    1
## 532                 Open-source coherent monitoring    1
## 533                    Open-source coherent policy    1
## 534                 Open-source even-keeled database    1
## 535                    Open-source global strategy    1
## 536                Open-source holistic productivity    1
## 537                     Open-source local approach    1
## 538                Open-source optimizing parallelism    1
## 539                  Open-source scalable protocol    1
## 540                   Open-source stable paradigm    1
## 541                 Operative actuating installation    1
```

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## 542                   Operative didactic Local Area Network    1
## 543                          Operative full-range forecast    1
## 544             Operative multi-tasking Graphic Interface    1
## 545                          Operative scalable emulation    1
## 546                 Operative secondary functionalities    1
## 547                          Operative stable moderator    1
## 548                    Operative system-worthy protocol    1
## 549                    Optimized 5thgeneration moratorium    1
## 550                 Optimized attitude-oriented initiative    1
## 551                  Optimized coherent Internet solution    1
## 552                    Optimized intermediate help-desk    1
## 553                      Optimized multimedia website    1
## 554                          Optimized static archive    1
## 555                    Optimized systemic capability    1
## 556             Optimized upward-trending productivity    1
## 557             Optional contextually-based flexibility    1
## 558                  Optional full-range projection    1
## 559             Optional mission-critical functionalities    1
## 560                    Optional modular throughput    1
## 561                  Optional multi-state hardware    1
## 562                  Optional regional throughput    1
## 563                    Optional secondary access    1
## 564                  Optional tangible productivity    1
## 565             Organic 3rdgeneration encryption    1
## 566                  Organic asynchronous hierarchy    1
## 567             Organic bottom-line service-desk    1
## 568          Organic contextually-based focus group    1
## 569                  Organic interactive support    1
## 570             Organic leadingedge secured line    1
## 571                    Organic logistical adapter    1
## 572                      Organic motivating model    1
## 573                  Organic next generation matrix    1
## 574             Organic well-modulated database    1
## 575                    Organized 24/7 middleware    1
## 576             Organized client-driven alliance    1
## 577      Organized contextually-based customer loyalty    1
## 578          Organized demand-driven knowledgebase    1
## 579                  Organized empowering policy    1
## 580                  Organized global flexibility    1
## 581                      Organized global model    1
## 582                  Organized static focus group    1
## 583          Organized upward-trending contingency    1
## 584          Persevering 5thgeneration knowledge user    1
## 585             Persevering eco-centric flexibility    1
## 586             Persevering even-keeled help-desk    1
## 587             Persevering exuding system engine    1
## 588          Persevering needs-based open architecture    1
## 589             Persevering reciprocal firmware    1
```

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## 590                      Persevering tertiary capability    1
## 591                    Persistent demand-driven interface    1
## 592                      Persistent even-keeled application  1
## 593                  Persistent fault-tolerant service-desk  1
## 594                     Persistent homogeneous framework     1
## 595                     Phased 5thgeneration open system     1
## 596                          Phased analyzing emulation      1
## 597                      Phased clear-thinking encoding      1
## 598                       Phased content-based middleware    1
## 599                      Phased dynamic customer loyalty     1
## 600                      Phased fault-tolerant definition    1
## 601                        Phased full-range hardware        1
## 602                            Phased hybrid intranet        1
## 603                       Phased hybrid superstructure       1
## 604             Phased leadingedge budgetary management      1
## 605                     Phased transitional instruction set  1
## 606                    Phased zero administration success    1
## 607                      Phased zero tolerance extranet      1
## 608                         Phased zero-defect portal        1
## 609                      Polarized 5thgeneration matrix      1
## 610                 Polarized 6thgeneration info-mediaries   1
## 611                        Polarized analyzing concept       1
## 612                        Polarized analyzing intranet      1
## 613             Polarized attitude-oriented superstructure   1
## 614              Polarized bandwidth-monitored moratorium    1
## 615                         Polarized bifurcated array       1
## 616           Polarized clear-thinking budgetary management  1
## 617                      Polarized dynamic throughput        1
## 618                      Polarized intangible encoding       1
## 619                          Polarized logistical hub        1
## 620                  Polarized mission-critical structure    1
## 621                        Polarized modular function        1
## 622                   Polarized multimedia system engine     1
## 623                     Polarized tangible collaboration     1
## 624              Pre-emptive client-driven secured line      1
## 625              Pre-emptive client-server installation      1
## 626              Pre-emptive client-server open system       1
## 627            Pre-emptive cohesive budgetary management     1
## 628               Pre-emptive content-based focus group      1
## 629                   Pre-emptive content-based frame        1
## 630               Pre-emptive executive knowledgebase        1
## 631                   Pre-emptive neutral contingency        1
## 632          Pre-emptive next generation Internet solution   1
## 633               Pre-emptive next generation strategy       1
## 634          Pre-emptive systematic budgetary management     1
## 635                   Pre-emptive transitional protocol      1
## 636                   Pre-emptive value-added workforce      1
## 637                Pre-emptive well-modulated moderator      1
```

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## 638                 Pre-emptive zero tolerance Local Area Network        1
## 639                             Proactive 5thgeneration frame             1
## 640                 Proactive actuating Graphical User Interface          1
## 641                             Proactive asymmetric definition           1
## 642                          Proactive bandwidth-monitored policy         1
## 643                          Proactive client-server productivity         1
## 644                          Proactive context-sensitive project          1
## 645                             Proactive encompassing paradigm           1
## 646                          Proactive interactive service-desk           1
## 647                                Proactive local focus group            1
## 648                 Proactive next generation knowledge user             1
## 649                          Proactive non-volatile encryption            1
## 650                                Proactive radical support              1
## 651                             Proactive secondary monitoring            1
## 652                 Profit-focused attitude-oriented task-force           1
## 653                          Profit-focused dedicated utilization         1
## 654                             Profit-focused secondary portal           1
## 655                             Profit-focused systemic support           1
## 656                          Profound bottom-line standardization         1
## 657                                Profound dynamic attitude              1
## 658                             Profound executive flexibility            1
## 659                               Profound explicit hardware              1
## 660                               Profound maximized workforce            1
## 661                             Profound optimizing utilization           1
## 662                                Profound stable product                1
## 663                             Profound well-modulated array             1
## 664                 Profound zero administration instruction set          1
## 665                          Programmable asymmetric data-warehouse       1
## 666                             Programmable didactic capacity            1
## 667                          Programmable empowering middleware           1
## 668                          Programmable empowering orchestration        1
## 669                             Programmable high-level benchmark         1
## 670                             Programmable uniform productivity         1
## 671                                Programmable uniform website           1
## 672                                Progressive 24/7 definition            1
## 673                                Progressive 24hour forecast            1
## 674                             Progressive analyzing attitude            1
## 675                             Progressive asynchronous adapter          1
## 676                 Progressive clear-thinking open architecture          1
## 677                                Progressive empowering alliance        1
## 678                             Progressive intermediate throughput       1
## 679                             Progressive non-volatile neural-net       1
## 680                          Progressive uniform budgetary management     1
## 681                                Public-key asynchronous matrix         1
## 682     Public-key bi-directional Graphical User Interface                1
## 683                             Public-key disintermediate emulation      1
## 684                                Public-key foreground groupware        1
## 685                                Public-key impactful neural-net        1
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## 686                   Public-key intangible Graphical User Interface        1
## 687                            Public-key mission-critical core              1
## 688                        Public-key non-volatile implementation            1
## 689                            Public-key real-time definition               1
## 690                      Public-key solution-oriented focus group            1
## 691                           Public-key zero-defect analyzer                1
## 692                    Quality-focused 5thgeneration orchestration           1
## 693                    Quality-focused bi-directional throughput             1
## 694                          Quality-focused hybrid frame                    1
## 695                        Quality-focused maximized extranet                1
## 696                      Quality-focused optimizing parallelism              1
## 697                       Quality-focused scalable utilization               1
## 698                      Quality-focused zero tolerance matrices             1
## 699              Quality-focused zero-defect budgetary management            1
## 700                   Quality-focused zero-defect data-warehouse             1
## 701                     Re-contextualized human-resource success            1
## 702                      Re-contextualized optimal service-desk             1
## 703                       Re-contextualized reciprocal interface            1
## 704                       Re-contextualized systemic time-frame             1
## 705                        Re-engineered composite moratorium               1
## 706                   Re-engineered context-sensitive knowledge user        1
## 707                      Re-engineered demand-driven capacity               1
## 708                            Re-engineered exuding frame                  1
## 709                        Re-engineered impactful software                 1
## 710                       Re-engineered intangible software                 1
## 711                          Re-engineered neutral success                  1
## 712                     Re-engineered non-volatile neural-net               1
## 713                           Re-engineered optimal policy                  1
## 714                         Re-engineered real-time success                 1
## 715                       Re-engineered responsive definition               1
## 716                  Re-engineered zero-defect open architecture            1
## 717                    Reactive bi-directional standardization              1
## 718                      Reactive bi-directional workforce                  1
## 719                            Reactive composite project                  1
## 720                        Reactive demand-driven capacity                 1
## 721                        Reactive demand-driven strategy                 1
## 722                          Reactive impactful challenge                  1
## 723                          Reactive interactive protocol                 1
## 724                             Reactive local challenge                   1
## 725                            Reactive national success                   1
## 726                      Reactive needs-based instruction set              1
## 727                         Reactive responsive emulation                  1
## 728                          Reactive tangible contingency                 1
## 729                       Reactive upward-trending migration               1
## 730                               Realigned 24/7 core                      1
## 731                        Realigned content-based leverage                1
## 732                           Realigned global initiative                  1
## 733                         Realigned intangible benchmark                 1
```

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## 734                     Realigned intermediate application     1
## 735                  Realigned next generation projection     1
## 736                        Realigned reciprocal framework     1
## 737                   Realigned scalable standardization     1
## 738                      Realigned systematic function     1
## 739                  Realigned tangible collaboration     1
## 740                  Realigned zero tolerance emulation     1
## 741                  Reduced background data-warehouse     1
## 742                      Reduced bi-directional strategy     1
## 743                           Reduced global support     1
## 744                        Reduced holistic help-desk     1
## 745                  Reduced incremental productivity     1
## 746                          Reduced mobile structure     1
## 747                        Reduced multimedia project     1
## 748                  Reverse-engineered 24hour hardware     1
## 749      Reverse-engineered background Graphic Interface     1
## 750           Reverse-engineered content-based intranet     1
## 751       Reverse-engineered context-sensitive emulation     1
## 752            Reverse-engineered dynamic function     1
## 753          Reverse-engineered maximized focus group     1
## 754           Reverse-engineered web-enabled support     1
## 755       Reverse-engineered well-modulated capability     1
## 756                  Right-sized asynchronous website     1
## 757                  Right-sized logistical middleware     1
## 758                     Right-sized mobile initiative     1
## 759                Right-sized multi-tasking solution     1
## 760          Right-sized solution-oriented benchmark     1
## 761                Right-sized system-worthy project     1
## 762            Right-sized transitional parallelism     1
## 763                Right-sized value-added initiative     1
## 764                Robust context-sensitive neural-net     1
## 765                   Robust dedicated system engine     1
## 766                      Robust holistic application     1
## 767                     Robust logistical utilization     1
## 768          Robust object-oriented Graphic Interface     1
## 769                  Robust responsive collaboration     1
## 770                     Robust transitional ability     1
## 771                       Robust uniform framework     1
## 772                      Robust web-enabled attitude     1
## 773                  Seamless 4thgeneration contingency     1
## 774      Seamless bandwidth-monitored knowledge user     1
## 775                Seamless cohesive conglomeration     1
## 776        Seamless composite budgetary management     1
## 777                    Seamless full-range website     1
## 778                  Seamless holistic time-frame     1
## 779              Seamless impactful info-mediaries     1
## 780                Seamless intangible secured line     1
## 781                    Seamless motivating approach     1
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## 782                      Seamless object-oriented structure   1
## 783                           Seamless optimal contingency   1
## 784                             Seamless real-time array   1
## 785                               Secured 24hour policy   1
## 786                       Secured clear-thinking middleware   1
## 787           Secured encompassing Graphical User Interface   1
## 788                         Secured intermediate approach   1
## 789             Secured scalable Graphical User Interface   1
## 790                       Secured secondary superstructure   1
## 791                        Secured uniform instruction set   1
## 792                     Secured upward-trending benchmark   1
## 793             Self-enabling asynchronous knowledge user   1
## 794             Self-enabling didactic pricing structure   1
## 795               Self-enabling even-keeled methodology   1
## 796             Self-enabling holistic process improvement   1
## 797               Self-enabling incremental collaboration   1
## 798                       Self-enabling local strategy   1
## 799             Self-enabling multimedia system engine   1
## 800                     Self-enabling optimal initiative   1
## 801                      Self-enabling tertiary challenge   1
## 802         Self-enabling zero administration neural-net   1
## 803                        Sharable 5thgeneration access   1
## 804                           Sharable analyzing alliance   1
## 805                         Sharable bottom-line solution   1
## 806                       Sharable client-driven software   1
## 807              Sharable dedicated Graphic Interface   1
## 808                      Sharable encompassing database   1
## 809                        Sharable grid-enabled matrix   1
## 810                   Sharable multimedia conglomeration   1
## 811                          Sharable optimal capacity   1
## 812                         Sharable reciprocal project   1
## 813       Sharable secondary Graphical User Interface   1
## 814                    Sharable upward-trending support   1
## 815                      Sharable value-added solution   1
## 816                  Stand-alone background open system   1
## 817                  Stand-alone eco-centric system engine   1
## 818                      Stand-alone empowering benchmark   1
## 819                  Stand-alone encompassing throughput   1
## 820                   Stand-alone explicit orchestration   1
## 821                   Stand-alone logistical service-desk   1
## 822                    Stand-alone motivating moratorium   1
## 823                      Stand-alone national attitude   1
## 824                     Stand-alone radical throughput   1
## 825                     Stand-alone reciprocal synergy   1
## 826                     Stand-alone tangible moderator   1
## 827                  Stand-alone well-modulated product   1
## 828                     Streamlined analyzing initiative   1
## 829                 Streamlined cohesive conglomeration   1
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## 830                        Streamlined exuding adapter   1
## 831                     Streamlined homogeneous analyzer   1
## 832                   Streamlined logistical secured line   1
## 833               Streamlined next generation implementation   1
## 834                    Streamlined non-volatile analyzer   1
## 835                      Switchable 3rdgeneration hub   1
## 836                     Switchable analyzing encryption   1
## 837                        Switchable mobile framework   1
## 838                      Switchable multi-state success   1
## 839                       Switchable real-time product   1
## 840                       Switchable secondary ability   1
## 841               Switchable well-modulated infrastructure   1
## 842                   Synchronized dedicated service-desk   1
## 843                      Synchronized full-range portal   1
## 844                   Synchronized grid-enabled moratorium   1
## 845                  Synchronized human-resource moderator   1
## 846                    Synchronized leadingedge help-desk   1
## 847                    Synchronized multi-tasking ability   1
## 848                      Synchronized multimedia model   1
## 849                   Synchronized national infrastructure   1
## 850                      Synchronized stable complexity   1
## 851                      Synchronized systemic hierarchy   1
## 852                      Synchronized user-facing core   1
## 853                   Synchronized zero tolerance product   1
## 854                 Synergistic asynchronous superstructure   1
## 855                     Synergistic discrete middleware   1
## 856                    Synergistic dynamic orchestration   1
## 857                    Synergistic fresh-thinking array   1
## 858                    Synergistic non-volatile analyzer   1
## 859                     Synergistic reciprocal attitude   1
## 860                   Synergistic stable infrastructure   1
## 861                    Synergistic value-added extranet   1
## 862                   Synergized clear-thinking protocol   1
## 863                      Synergized coherent interface   1
## 864                         Synergized cohesive array   1
## 865                  Synergized context-sensitive database   1
## 866                    Synergized grid-enabled framework   1
## 867                      Synergized hybrid time-frame   1
## 868                   Synergized intangible open system   1
## 869                     Synergized multimedia emulation   1
## 870                       Synergized uniform hierarchy   1
## 871       Synergized well-modulated Graphical User Interface   1
## 872                   Team-oriented 6thgeneration extranet   1
## 873                Team-oriented bi-directional secured line   1
## 874             Team-oriented context-sensitive installation   1
## 875                     Team-oriented dynamic forecast   1
## 876                    Team-oriented encompassing portal   1
## 877                      Team-oriented executive core   1
```

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## 878                 Team-oriented grid-enabled Local Area Network   1
## 879                     Team-oriented high-level orchestration      1
## 880                     Team-oriented systematic installation       1
## 881                    Team-oriented transitional methodology       1
## 882                     Team-oriented zero-defect initiative        1
## 883                          Total 5thgeneration encoding            1
## 884                       Total 5thgeneration standardization        1
## 885                        Total asynchronous architecture          1
## 886                         Total bi-directional success            1
## 887                            Total coherent archive               1
## 888                         Total coherent superstructure           1
## 889                          Total cohesive moratorium              1
## 890                          Total directional approach             1
## 891                       Total even-keeled architecture            1
## 892                       Total grid-enabled application            1
## 893                      Total human-resource flexibility           1
## 894                            Total local synergy                  1
## 895                        Total user-facing hierarchy              1
## 896                     Total zero administration software          1
## 897                   Triple-buffered 3rdgeneration migration       1
## 898                    Triple-buffered demand-driven alliance       1
## 899                   Triple-buffered foreground encryption         1
## 900                  Triple-buffered high-level Internet solution   1
## 901                  Triple-buffered human-resource complexity      1
## 902                   Triple-buffered multi-state complexity        1
## 903                 Triple-buffered needs-based Local Area Network   1
## 904                   Triple-buffered reciprocal time-frame         1
## 905                      Triple-buffered regional toolset           1
## 906                      Triple-buffered scalable groupware         1
## 907                   Triple-buffered systematic info-mediaries     1
## 908                       Universal 24/7 implementation             1
## 909                        Universal asymmetric archive             1
## 910                       Universal asymmetric workforce            1
## 911                     Universal bi-directional extranet           1
## 912                 Universal contextually-based system engine      1
## 913                       Universal empowering adapter              1
## 914                      Universal even-keeled analyzer             1
## 915                        Universal global intranet                1
## 916                       Universal incremental array               1
## 917                     Universal multi-state system engine         1
## 918            Universal transitional Graphical User Interface      1
## 919                     Up-sized 6thgeneration moratorium           1
## 920                      Up-sized asymmetric firmware                1
## 921                  Up-sized bi-directional infrastructure         1
## 922                      Up-sized bifurcated capability             1
## 923                      Up-sized executive moderator               1
## 924                     Up-sized incremental encryption             1
## 925                      Up-sized intangible circuit                1
```

```
## 926                            Up-sized maximized model    1
## 927             Up-sized next generation architecture    1
## 928                  Up-sized real-time methodology    1
## 929                      Up-sized secondary software    1
## 930                     Up-sized tertiary contingency    1
## 931                  Upgradable 4thgeneration portal    1
## 932                  Upgradable asymmetric emulation    1
## 933                    Upgradable asynchronous circuit    1
## 934              Upgradable directional system engine    1
## 935                  Upgradable even-keeled challenge    1
## 936                  Upgradable even-keeled hardware    1
## 937               Upgradable heuristic system engine    1
## 938                        Upgradable local migration    1
## 939                   Upgradable logistical flexibility    1
## 940              Upgradable multi-tasking initiative    1
## 941                     Upgradable optimizing toolset    1
## 942                   Upgradable system-worthy array    1
## 943            User-centric attitude-oriented adapter    1
## 944               User-centric composite contingency    1
## 945                     User-centric discrete success    1
## 946             User-centric intangible contingency    1
## 947                User-centric intangible task-force    1
## 948         User-centric intermediate knowledge user    1
## 949          User-centric solution-oriented emulation    1
## 950            User-friendly asymmetric info-mediaries    1
## 951           User-friendly bandwidth-monitored attitude    1
## 952          User-friendly client-server instruction set    1
## 953        User-friendly content-based customer loyalty    1
## 954                User-friendly grid-enabled analyzer    1
## 955                 User-friendly impactful time-frame    1
## 956             User-friendly upward-trending intranet    1
## 957              User-friendly well-modulated leverage    1
## 958             Versatile 4thgeneration system engine    1
## 959               Versatile 6thgeneration parallelism    1
## 960                  Versatile content-based protocol    1
## 961                     Versatile dedicated software    1
## 962                Versatile homogeneous capacity    1
## 963                       Versatile local forecast    1
## 964             Versatile mission-critical application    1
## 965       Versatile next generation pricing structure    1
## 966                 Versatile optimizing projection    1
## 967                  Versatile reciprocal structure    1
## 968             Versatile responsive knowledge user    1
## 969                   Versatile scalable encryption    1
## 970       Versatile solution-oriented secured line    1
## 971               Versatile transitional monitoring    1
## 972               Virtual 5thgeneration emulation    1
## 973               Virtual 5thgeneration neural-net    1
```

```
## 974                    Virtual bandwidth-monitored initiative    1
## 975                            Virtual bifurcated portal    1
## 976                            Virtual composite model    1
## 977                    Virtual context-sensitive support    1
## 978                    Virtual executive implementation    1
## 979            Virtual homogeneous budgetary management    1
## 980                        Virtual impactful algorithm    1
## 981                        Virtual scalable secured line    1
## 982        Vision-oriented asynchronous Internet solution    1
## 983    Vision-oriented attitude-oriented Internet solution    1
## 984                Vision-oriented bifurcated contingency    1
## 985            Vision-oriented contextually-based extranet    1
## 986            Vision-oriented human-resource synergy    1
## 987                Vision-oriented methodical support    1
## 988            Vision-oriented multi-tasking success    1
## 989            Vision-oriented next generation solution    1
## 990            Vision-oriented optimizing middleware    1
## 991                Vision-oriented real-time framework    1
## 992            Vision-oriented system-worthy forecast    1
## 993            Vision-oriented uniform knowledgebase    1
## 994                    Visionary analyzing structure    1
## 995                    Visionary asymmetric encryption    1
## 996                Visionary client-driven installation    1
## 997            Visionary maximized process improvement    1
## 998            Visionary mission-critical application    1
## 999                Visionary multi-tasking alliance    1
## 1000                    Visionary reciprocal circuit    1
```

```r
library("plyr")
count(course, 'Country')
```

```
##                                          Country freq
## 1                                    Afghanistan    8
## 2                                        Albania    7
## 3                                        Algeria    6
## 4                                  American Samoa    5
## 5                                        Andorra    2
## 6                                         Angola    4
## 7                                       Anguilla    6
## 8        Antarctica (the territory South of 60 deg S)    3
## 9                            Antigua and Barbuda    5
## 10                                     Argentina    2
## 11                                       Armenia    3
## 12                                         Aruba    1
## 13                                     Australia    8
## 14                                       Austria    5
## 15                                    Azerbaijan    3
## 16                                       Bahamas    7
```

```
## 17                                              Bahrain    5
## 18                                           Bangladesh    4
## 19                                             Barbados    5
## 20                                              Belarus    6
## 21                                              Belgium    5
## 22                                               Belize    5
## 23                                                Benin    2
## 24                                              Bermuda    1
## 25                                               Bhutan    2
## 26                                              Bolivia    6
## 27                              Bosnia and Herzegovina    7
## 28                            Bouvet Island (Bouvetoya)    5
## 29                                               Brazil    5
## 30  British Indian Ocean Territory (Chagos Archipelago)    1
## 31                               British Virgin Islands    3
## 32                                    Brunei Darussalam    5
## 33                                             Bulgaria    6
## 34                                         Burkina Faso    4
## 35                                              Burundi    7
## 36                                             Cambodia    7
## 37                                             Cameroon    5
## 38                                               Canada    5
## 39                                           Cape Verde    1
## 40                                       Cayman Islands    5
## 41                             Central African Republic    2
## 42                                                 Chad    4
## 43                                                Chile    4
## 44                                                China    6
## 45                                     Christmas Island    6
## 46                                             Colombia    2
## 47                                              Comoros    2
## 48                                                Congo    4
## 49                                         Cook Islands    3
## 50                                           Costa Rica    6
## 51                                        Cote d'Ivoire    4
## 52                                              Croatia    6
## 53                                                 Cuba    5
## 54                                               Cyprus    8
## 55                                       Czech Republic    9
## 56                                              Denmark    3
## 57                                             Djibouti    2
## 58                                             Dominica    5
## 59                                   Dominican Republic    4
## 60                                              Ecuador    5
## 61                                                Egypt    5
## 62                                          El Salvador    6
## 63                                    Equatorial Guinea    4
## 64                                              Eritrea    7
```

```
## 65                                    Estonia    3
## 66                                   Ethiopia    7
## 67                Falkland Islands (Malvinas)    4
## 68                              Faroe Islands    3
## 69                                       Fiji    7
## 70                                    Finland    5
## 71                                     France    9
## 72                              French Guiana    4
## 73                           French Polynesia    5
## 74                French Southern Territories    5
## 75                                      Gabon    6
## 76                                     Gambia    2
## 77                                    Georgia    4
## 78                                    Germany    1
## 79                                      Ghana    4
## 80                                  Gibraltar    3
## 81                                     Greece    8
## 82                                  Greenland    5
## 83                                    Grenada    4
## 84                                 Guadeloupe    2
## 85                                       Guam    4
## 86                                  Guatemala    4
## 87                                   Guernsey    3
## 88                                     Guinea    3
## 89                              Guinea-Bissau    2
## 90                                     Guyana    5
## 91                                      Haiti    2
## 92          Heard Island and McDonald Islands    3
## 93             Holy See (Vatican City State)    3
## 94                                   Honduras    5
## 95                                  Hong Kong    6
## 96                                    Hungary    6
## 97                                    Iceland    3
## 98                                      India    2
## 99                                  Indonesia    6
## 100                                      Iran    5
## 101                                   Ireland    3
## 102                               Isle of Man    3
## 103                                    Israel    4
## 104                                     Italy    5
## 105                                   Jamaica    5
## 106                                     Japan    4
## 107                                    Jersey    6
## 108                                    Jordan    1
## 109                                Kazakhstan    4
## 110                                     Kenya    4
## 111                                  Kiribati    1
## 112                                     Korea    5
```

```
## 113                              Kuwait   2
## 114                     Kyrgyz Republic   6
## 115     Lao People's Democratic Republic   4
## 116                              Latvia   4
## 117                             Lebanon   6
## 118                             Lesotho   1
## 119                             Liberia   8
## 120               Libyan Arab Jamahiriya   4
## 121                       Liechtenstein   6
## 122                           Lithuania   3
## 123                          Luxembourg   7
## 124                               Macao   3
## 125                           Macedonia   2
## 126                          Madagascar   6
## 127                              Malawi   4
## 128                            Malaysia   3
## 129                            Maldives   4
## 130                                Mali   4
## 131                               Malta   6
## 132                     Marshall Islands   1
## 133                          Martinique   4
## 134                          Mauritania   2
## 135                           Mauritius   4
## 136                             Mayotte   6
## 137                              Mexico   6
## 138                          Micronesia   8
## 139                             Moldova   6
## 140                              Monaco   3
## 141                            Mongolia   6
## 142                          Montenegro   2
## 143                          Montserrat   1
## 144                             Morocco   3
## 145                          Mozambique   1
## 146                             Myanmar   5
## 147                             Namibia   2
## 148                               Nauru   3
## 149                               Nepal   3
## 150                         Netherlands   4
## 151                 Netherlands Antilles   6
## 152                       New Caledonia   2
## 153                         New Zealand   4
## 154                           Nicaragua   3
## 155                               Niger   3
## 156                                Niue   3
## 157                      Norfolk Island   5
## 158           Northern Mariana Islands   3
## 159                              Norway   2
## 160                            Pakistan   5
```

```
## 161                                     Palau    4
## 162                    Palestinian Territory    3
## 163                                    Panama    2
## 164                         Papua New Guinea    5
## 165                                  Paraguay    3
## 166                                      Peru    8
## 167                               Philippines    6
## 168                          Pitcairn Islands    2
## 169                                    Poland    6
## 170                                  Portugal    3
## 171                               Puerto Rico    6
## 172                                     Qatar    6
## 173                                    Reunion    2
## 174                                   Romania    1
## 175                        Russian Federation    3
## 176                                    Rwanda    5
## 177                          Saint Barthelemy    2
## 178                              Saint Helena    5
## 179                      Saint Kitts and Nevis    1
## 180                               Saint Lucia    2
## 181                              Saint Martin    4
## 182               Saint Pierre and Miquelon    5
## 183       Saint Vincent and the Grenadines    6
## 184                                     Samoa    6
## 185                                San Marino    3
## 186                    Sao Tome and Principe    2
## 187                              Saudi Arabia    4
## 188                                   Senegal    8
## 189                                    Serbia    5
## 190                                Seychelles    3
## 191                              Sierra Leone    2
## 192                                 Singapore    6
## 193               Slovakia (Slovak Republic)    2
## 194                                  Slovenia    1
## 195                                   Somalia    5
## 196                              South Africa    8
## 197  South Georgia and the South Sandwich Islands    2
## 198                                     Spain    3
## 199                                 Sri Lanka    4
## 200                                     Sudan    2
## 201                                  Suriname    2
## 202               Svalbard & Jan Mayen Islands    6
## 203                                 Swaziland    2
## 204                                    Sweden    4
## 205                               Switzerland    4
## 206                      Syrian Arab Republic    3
## 207                                    Taiwan    7
## 208                                Tajikistan    3
```

```
## 209                                      Tanzania    3
## 210                                      Thailand    4
## 211                                   Timor-Leste    5
## 212                                          Togo    3
## 213                                       Tokelau    4
## 214                                         Tonga    5
## 215                           Trinidad and Tobago    3
## 216                                       Tunisia    4
## 217                                        Turkey    8
## 218                                  Turkmenistan    6
## 219                      Turks and Caicos Islands    5
## 220                                        Tuvalu    4
## 221                                        Uganda    4
## 222                                       Ukraine    5
## 223                          United Arab Emirates    6
## 224                                United Kingdom    3
## 225          United States Minor Outlying Islands    4
## 226                      United States of America    5
## 227                   United States Virgin Islands    4
## 228                                       Uruguay    5
## 229                                    Uzbekistan    2
## 230                                       Vanuatu    6
## 231                                     Venezuela    7
## 232                                       Vietnam    3
## 233                            Wallis and Futuna    4
## 234                                Western Sahara    7
## 235                                         Yemen    3
## 236                                        Zambia    4
## 237                                      Zimbabwe    6
```

```r
library("plyr")
count(course, 'City')
```

```
##                      City freq
## 1               Adamsbury    1
## 2                Adamside    1
## 3               Adamsstad    1
## 4                Alanview    1
## 5            Alexanderfurt    1
## 6           Alexanderview    1
## 7            Alexandrafort    1
## 8               Alexisland    1
## 9              Aliciatown    1
## 10            Alvaradoport    1
## 11            Alvarezland    1
## 12              Amandafort    1
## 13            Amandahaven    1
## 14             Amandaland    1
```

```
## 15             Amyfurt    1
## 16            Amyhaven    1
## 17     Andersonchester    1
## 18        Andersonfurt    1
## 19          Andersonton    1
## 20       Andrewborough    1
## 21         Andrewmouth    1
## 22          Angelhaven    1
## 23          Anthonyfurt    1
## 24        Ashleychester    1
## 25         Ashleymouth    1
## 26       Austinborough    1
## 27          Austinland    1
## 28          Bakerhaven    1
## 29         Barbershire    1
## 30             Beckton    1
## 31      Benjaminchester    2
## 32          Bernardton    1
## 33           Bethburgh    1
## 34           Birdshire    1
## 35        Blairborough    1
## 36          Blairville    1
## 37         Blevinstown    1
## 38          Bowenview    1
## 39           Boyerberg    1
## 40      Bradleyborough    1
## 41         Bradleyburgh    1
## 42          Bradleyside    1
## 43     Bradshawborough    1
## 44           Bradyfurt    1
## 45          Brandiland    1
## 46         Brandonbury    1
## 47         Brandonstad    1
## 48        Brandymouth    1
## 49          Brendaburgh    1
## 50        Brendachester    1
## 51          Brianabury    1
## 52           Brianfurt    1
## 53          Brianland    1
## 54      Brittanyborough    1
## 55          Brownbury    1
## 56          Brownport    1
## 57            Brownton    1
## 58          Browntown    1
## 59          Brownview    1
## 60          Bruceburgh    1
## 61         Burgessside    1
## 62           Butlerfort    1
```

```
## 63               Calebberg    1
## 64             Cameronberg    1
## 65             Campbellstad    1
## 66               Cannonbury    1
## 67              Carsonshire    1
## 68              Carterburgh    1
## 69              Carterland     1
## 70              Carterport     1
## 71               Carterton     1
## 72            Cassandratown    1
## 73            Catherinefort    1
## 74            Cervantesshire   1
## 75             Chapmanland    1
## 76             Chapmanmouth   1
## 77             Charlenetown    1
## 78             Charlesbury    1
## 79             Charlesport     1
## 80            Charlottefort    1
## 81              Chaseshire     1
## 82               Chrismouth    1
## 83           Christinehaven    1
## 84            Christinetown    1
## 85       Christopherchester    1
## 86          Christopherport    1
## 87        Christopherville    1
## 88            Clarkborough    1
## 89             Claytonside     1
## 90               Clineshire    1
## 91               Codyburgh     1
## 92              Coffeytown     1
## 93                Colebury     1
## 94            Colemanshire    1
## 95            Collinsburgh    1
## 96              Combsstad     1
## 97          Contrerasshire    1
## 98              Costaburgh    1
## 99             Courtneyfort    1
## 100               Coxhaven    1
## 101             Cranemouth    1
## 102            Crawfordfurt    1
## 103        Cunninghamhaven    1
## 104             Curtisport     1
## 105             Curtisview     1
## 106            Cynthiaside    1
## 107             Daisymouth    1
## 108            Danielview      1
## 109            Davidmouth     1
## 110             Davidside     1
```

```
## 111               Davidstad    1
## 112                Davidton    1
## 113                Davidview    1
## 114            Daviesborough    1
## 115              Davieshaven    1
## 116            Davilachester    1
## 117                 Davisfurt    1
## 118                   Dayton    1
## 119              Deannaville    1
## 120               Debraburgh    1
## 121              Derrickhaven    1
## 122              Destinyfurt    1
## 123               Dianashire    1
## 124               Dianaville    1
## 125              Donaldshire    1
## 126              Douglasview    1
## 127                Duffystad    1
## 128            Dustinborough    1
## 129            Dustinchester    1
## 130             Dustinmouth    1
## 131               East Aaron    1
## 132             East Anthony    1
## 133             East Barbara    1
## 134        East Benjaminville    1
## 135         East Breannafurt    1
## 136            East Brettton    1
## 137           East Brianberg    1
## 138        East Brittanyville    1
## 139              East Carlos    1
## 140         East Christopher    1
## 141      East Christopherbury    1
## 142             East Connie    1
## 143                East Dana    1
## 144         East Deborahhaven    1
## 145         East Debraborough    1
## 146               East Donna    1
## 147            East Donnatown    1
## 148                East Eric    1
## 149            East Ericport    1
## 150           East Georgeside    1
## 151           East Graceland    1
## 152         East Heatherside    1
## 153               East Heidi    1
## 154               East Henry    1
## 155               East Jason    1
## 156            East Jennifer    1
## 157            East Jessefort    1
## 158                East John    2
```

```
## 159           East Johnport    1
## 160          East Kevinbury    1
## 161            East Lindsey    1
## 162           East Maureen    1
## 163       East Michaelland    1
## 164      East Michaelmouth    1
## 165       East Michaeltown    1
## 166            East Michele    1
## 167       East Michelleberg    1
## 168               East Mike    1
## 169               East Paul    1
## 170         East Rachaelfurt    1
## 171         East Rachelview    1
## 172             East Ronald    1
## 173     East Samanthashire    1
## 174             East Sharon    1
## 175              East Shawn    1
## 176      East Shawnchester    1
## 177        East Sheriville    1
## 178            East Stephen    1
## 179          East Susanland    1
## 180             East Tammie    1
## 181       East Theresashire    1
## 182         East Tiffanyport    1
## 183            East Timothy    2
## 184        East Timothyport    1
## 185          East Toddfort    1
## 186          East Troyhaven    1
## 187         East Tylershire    1
## 188            East Valerie    1
## 189        East Vincentstad    1
## 190      East Yvonnechester    1
## 191            Edwardmouth    1
## 192           Edwardsmouth    1
## 193            Edwardsport    1
## 194           Elizabethbury    1
## 195          Elizabethmouth    1
## 196           Elizabethport    1
## 197           Elizabethstad    1
## 198              Emilyfurt    1
## 199          Ericksonmouth    1
## 200              Erikville    1
## 201             Erinmouth    1
## 202               Erinton    1
## 203              Estesfurt    1
## 204             Estradafurt    1
## 205            Estradashire    1
## 206              Evansfurt    1
```

```
## 207        Evansville    1
## 208         Faithview    1
## 209        Florestown    1
## 210        Fosterside    1
## 211         Frankbury    1
## 212      Frankchester    1
## 213         Frankport    1
## 214       Fraziershire   1
## 215       Garciamouth    1
## 216        Garciaside    1
## 217        Garciatown    1
## 218        Garciaview    1
## 219        Garnerberg    1
## 220     Garrettborough   1
## 221       Garychester    1
## 222       Gilbertville   1
## 223         Gomezport    1
## 224      Gonzalezburgh    1
## 225        Grahamberg    1
## 226        Gravesport    1
## 227      Greenechester    1
## 228         Greentown    1
## 229         Greerport    1
## 230          Greerton    1
## 231         Greghaven    1
## 232        Guzmanland    1
## 233          Haleberg    1
## 234          Haleview    1
## 235          Hallfort    1
## 236       Hamiltonfort    1
## 237       Hammondport    1
## 238        Hannahside    1
## 239         Hannaport    1
## 240        Hansenland    1
## 241       Hansenmouth    1
## 242       Harmonhaven    1
## 243      Harperborough    1
## 244       Harrishaven    1
## 245      Harrisonmouth    1
## 246      Hartmanchester    1
## 247          Hartport    1
## 248        Harveyport    1
## 249       Hatfieldshire   1
## 250       Hawkinsbury    1
## 251        Hayesmouth    1
## 252       Heatherberg    1
## 253       Helenborough    1
## 254       Hendrixmouth    1
```

```
## 255             Henryfort    1
## 256             Henryland    1
## 257      Hernandezchester    1
## 258         Hernandezfort    1
## 259         Hernandezside    1
## 260        Hernandezville    1
## 261              Hessstad    1
## 262            Hintonport    1
## 263             Hobbsbury    1
## 264           Holderville    1
## 265           Hollandberg    1
## 266             Hollyfurt    1
## 267          Hubbardmouth    1
## 268        Huffmanchester    1
## 269            Hughesport    1
## 270         Hurleyborough    1
## 271              Ianmouth    1
## 272            Ingramberg    1
## 273          Isaacborough    1
## 274          Jacksonburgh    1
## 275         Jacksonmouth    1
## 276          Jacksonstad    1
## 277             Jacobstad    1
## 278       Jacquelineshire    1
## 279            Jamesberg    1
## 280            Jamesfurt    1
## 281           Jamesmouth    1
## 282           Jamesville    1
## 283            Jamieberg    1
## 284            Jamiefort    1
## 285           Janiceview    1
## 286          Jasminefort    1
## 287             Jayville    1
## 288         Jeffreyburgh    1
## 289         Jeffreymouth    1
## 290         Jeffreyshire    1
## 291        Jenniferhaven    1
## 292         Jenniferstad    1
## 293        Jensenborough    1
## 294            Jensenton    1
## 295           Jeremybury    1
## 296          Jeremyshire    1
## 297         Jessicahaven    1
## 298         Jessicashire    1
## 299          Jessicastad    1
## 300            Joanntown    1
## 301           Joechester    1
## 302             Johnport    1
```

```
## 303            Johnsonfort    1
## 304           Johnsontown     1
## 305           Johnsonview     1
## 306             Johnsport     1
## 307             Johnstad      2
## 308         Johnstonmouth     1
## 309         Johnstonshire     1
## 310          Jonathanland     1
## 311          Jonathantown     1
## 312             Jonesland     1
## 313            Jonesmouth     1
## 314            Jonesshire     1
## 315             Joneston      2
## 316            Jordanmouth    1
## 317            Jordanshire    1
## 318            Jordantown     1
## 319            Josephberg     1
## 320           Josephmouth     1
## 321            Josephstad     1
## 322            Joshuaburgh    1
## 323           Joshuamouth     1
## 324             Juanport      1
## 325             Juliaport     1
## 326             Julietown     1
## 327            Karenmouth     1
## 328             Karenton      1
## 329             Katieport     1
## 330            Kaylashire     1
## 331            Keithtown      1
## 332            Kellytown      1
## 333           Kennedyfurt     1
## 334           Kennethview     1
## 335            Kentmouth      1
## 336            Kevinberg      1
## 337          Kevinchester     1
## 338         Kimberlyhaven     1
## 339         Kimberlymouth     1
## 340          Kimberlytown     1
## 341           Kingchester     1
## 342            Kingshire      1
## 343            Klineside      1
## 344            Knappburgh     1
## 345           Kristineberg    1
## 346            Kristinfurt    1
## 347            Kristintown    1
## 348           Kyleborough     1
## 349             Kylieview     1
## 350            Lake Adrian    1
```

```
## 351            Lake Allenville      1
## 352             Lake Amanda         1
## 353                Lake Amy         1
## 354             Lake Angela         1
## 355            Lake Annashire       1
## 356            Lake Beckyburgh      1
## 357           Lake Brandonview      1
## 358              Lake Brian         1
## 359          Lake Cassandraport    1
## 360          Lake Charlottestad     1
## 361         Lake Christopherfurt    1
## 362            Lake Conniefurt      1
## 363             Lake Courtney       1
## 364            Lake Craigview       1
## 365             Lake Cynthia        1
## 366            Lake Danielle        1
## 367              Lake David         2
## 368         Lake Deannaborough      1
## 369          Lake Deborahburgh      1
## 370             Lake Dustin         1
## 371             Lake Edward         1
## 372          Lake Elizabethside     1
## 373            Lake Evantown        1
## 374              Lake Faith         1
## 375             Lake Gerald         1
## 376             Lake Hailey         1
## 377               Lake Ian         1
## 378             Lake Jacob          1
## 379           Lake Jacqueline       1
## 380             Lake James          2
## 381          Lake Jasonchester      1
## 382            Lake Jennifer        1
## 383           Lake Jenniferton      1
## 384            Lake Jessica         1
## 385          Lake Jessicaville      1
## 386             Lake Jesus          1
## 387            Lake Jillville       1
## 388              Lake John          1
## 389            Lake Johnbury        1
## 390          Lake Jonathanview      1
## 391              Lake Jose          2
## 392             Lake Joseph         1
## 393            Lake Josetown        1
## 394            Lake Joshuafurt      1
## 395             Lake Kevin          1
## 396            Lake Kurtmouth       1
## 397              Lake Lisa          1
## 398            Lake Matthew         1
```

```
## 399       Lake Matthewland    1
## 400      Lake Melindamouth    1
## 401           Lake Michael    1
## 402       Lake Michaelport    1
## 403         Lake Michelle    1
## 404      Lake Michellebury    1
## 405           Lake Nicole    1
## 406          Lake Patrick    2
## 407       Lake Rhondaburgh    1
## 408   Lake Stephenborough    1
## 409           Lake Susan    2
## 410          Lake Timothy    1
## 411           Lake Tracy    1
## 412         Lake Vanessa    1
## 413       Lake Zacharyfurt    1
## 414           Lauraburgh    1
## 415           Laurieside    1
## 416       Lawrenceborough    1
## 417         Lawsonshire    1
## 418            Leahside    1
## 419          Leonchester    1
## 420          Lesliebury    1
## 421          Lesliefort    1
## 422          Lewismouth    1
## 423           Lindaside    1
## 424        Lindsaymouth    1
## 425           Lisaberg    1
## 426           Lisafort    1
## 427          Lisamouth    3
## 428          Lopezberg    1
## 429         Lopezmouth    1
## 430          Loriville    1
## 431          Lovemouth    1
## 432         Luischester    1
## 433           Luisfurt    1
## 434          Lukeport    1
## 435      Mackenziemouth    1
## 436         Marcushaven    1
## 437         Mariahview    1
## 438          Mariebury    1
## 439         Mariemouth    1
## 440          Markhaven    1
## 441         Masonhaven    1
## 442         Masseyshire    1
## 443          Mataberg    1
## 444        Matthewtown    1
## 445        Mauricefurt    1
## 446        Mauriceshire    1
```

```
## 447            Mcdonaldfort    1
## 448          Mclaughlinbury    1
## 449              Meaganfort    1
## 450           Meghanchester    1
## 451              Melanieton    1
## 452           Melissachester    1
## 453             Melissafurt    1
## 454             Melissastad    1
## 455            Meyerchester    1
## 456             Meyersstad    1
## 457                Mezaton    1
## 458            Michaelland    1
## 459           Michaelmouth    1
## 460           Michaelshire    1
## 461            Micheletown    1
## 462           Michellefort    1
## 463           Michelleside    2
## 464             Millerbury    2
## 465           Millerchester    1
## 466            Millerfort    1
## 467            Millerland    1
## 468            Millerside    1
## 469            Millertown    2
## 470            Millerview    1
## 471             Mollyport    1
## 472            Monicaview    1
## 473            Morganfort    1
## 474            Morganport    1
## 475           Morrismouth    1
## 476           Mosleyburgh    1
## 477            Mullenside    1
## 478             Munozberg    1
## 479            Murphymouth    1
## 480            Nelsonfurt    1
## 481            New Amanda    1
## 482          New Angelview    1
## 483            New Brandy    1
## 484          New Brendafurt    1
## 485       New Charleschester    1
## 486        New Christinatown    1
## 487            New Cynthia    1
## 488         New Daniellefort    1
## 489            New Darlene    1
## 490           New Dawnland    1
## 491          New Debbiestad    1
## 492          New Denisebury    1
## 493          New Frankshire    1
## 494            New Gabriel    1
```

```
## 495           New Henry    1
## 496       New Hollyberg    1
## 497           New James    1
## 498       New Jamestown    1
## 499         New Jasmine    1
## 500             New Jay    1
## 501  New Jeffreychester    1
## 502      New Jessicaport    2
## 503        New Johnberg    1
## 504       New Joshuaport    1
## 505            New Juan    1
## 506       New Julianberg    1
## 507           New Julie    1
## 508        New Karenberg    1
## 509           New Kayla    1
## 510       New Keithburgh    1
## 511        New Lindaberg    1
## 512       New Lucasburgh    1
## 513       New Marcusbury    1
## 514           New Maria    1
## 515          New Matthew    1
## 516          New Michael    1
## 517      New Michaeltown    1
## 518           New Nancy    1
## 519          New Nathan    1
## 520   New Patriciashire    1
## 521        New Patrick    1
## 522            New Paul    1
## 523          New Rachel    1
## 524         New Rebecca    1
## 525         New Sabrina    1
## 526            New Sean    1
## 527           New Shane    1
## 528          New Sharon    1
## 529          New Sheila    2
## 530       New Sonialand    1
## 531           New Steve    1
## 532           New Tammy    1
## 533      New Taylorburgh    1
## 534          New Teresa    1
## 535         New Theresa    1
## 536          New Thomas    1
## 537         New Timothy    1
## 538            New Tina    1
## 539        New Tinamouth    1
## 540      New Traceystad    1
## 541          New Travis    1
## 542       New Travistown    1
```

```
## 543              New Tyler    1
## 544              New Wanda    1
## 545        New Williammouth    1
## 546        New Williamville    1
## 547             Newmanberg    1
## 548           Nicholasland    1
## 549           Nicholasport    1
## 550       North Aaronburgh    1
## 551      North Aaronchester    1
## 552        North Alexandra    1
## 553          North Anaport    1
## 554          North Andrew     1
## 555       North Andrewstad    1
## 556       North Angelastad    1
## 557       North Angelatown    1
## 558            North Anna     1
## 559           North April     1
## 560         North Brandon     1
## 561     North Brittanyburgh    1
## 562          North Cassie     1
## 563       North Charlesbury    1
## 564      North Christopher    1
## 565          North Daniel     2
## 566           North Debra     1
## 567       North Debrashire    1
## 568       North Derekville    1
## 569         North Destiny     1
## 570       North Elizabeth     1
## 571       North Frankstad     1
## 572       North Garyhaven     1
## 573     North Isabellaville    1
## 574     North Jenniferburgh    1
## 575       North Jeremyport    1
## 576      North Jessicaville    1
## 577         North Johnside    1
## 578         North Johntown    1
## 579        North Jonathan     1
## 580          North Joshua     1
## 581           North Katie     1
## 582      North Kennethside    1
## 583        North Kevinside    1
## 584         North Kimberly    1
## 585         North Kristine    1
## 586        North Lauraland    1
## 587       North Laurenview    1
## 588        North Leonmouth    1
## 589       North Lisachester    1
## 590         North Loriburgh    1
```

```
## 591           North Mark    1
## 592       North Maryland    1
## 593       North Mercedes    1
## 594        North Michael    1
## 595    North Monicaville    1
## 596          North Randy    1
## 597        North Raymond    1
## 598         North Regina    1
## 599     North Ricardotown    1
## 600    North Richardburgh    1
## 601     North Ronaldshire    1
## 602  North Russellborough    1
## 603       North Samantha    1
## 604       North Sarashire    1
## 605        North Shannon    1
## 606    North Stephanieberg    1
## 607           North Tara    1
## 608        North Tiffany    1
## 609      North Tracyport    1
## 610      North Tylerland    1
## 611        North Virginia    1
## 612   North Wesleychester    1
## 613            Novaktown    1
## 614            Odomville    1
## 615            Olsonside    1
## 616            Olsonstad    1
## 617           Palmerside    1
## 618           Pamelamouth    2
## 619           Parkerhaven    1
## 620         Patriciahaven    1
## 621          Patrickmouth    1
## 622           Pattymouth    1
## 623            Paulhaven    1
## 624             Paulport    1
## 625            Paulshire    1
## 626           Pearsonfort    1
## 627            Penatown    1
## 628           Perezland    1
## 629          Perryburgh    1
## 630          Petersonfurt    1
## 631         Phelpschester    1
## 632           Philipberg    1
## 633         Phillipsbury    1
## 634      Port Aliciabury    1
## 635     Port Angelamouth    1
## 636         Port Anthony    1
## 637      Port Aprilville    1
## 638            Port Beth    1
```

```
## 639              Port Blake   1
## 640             Port Brenda   1
## 641              Port Brian   1
## 642          Port Brianfort   1
## 643      Port Brittanyville   1
## 644         Port Brookeland   1
## 645         Port Calvintown   1
## 646             Port Cassie   1
## 647         Port Chasemouth   1
## 648          Port Christina   1
## 649      Port Christinemouth   1
## 650        Port Christopher   1
## 651 Port Christopherborough   1
## 652            Port Crystal   1
## 653             Port Daniel   1
## 654        Port Danielleberg   1
## 655         Port Davidland   1
## 656             Port Dennis   1
## 657          Port Derekberg   1
## 658            Port Destiny   1
## 659       Port Douglasborough   1
## 660             Port Elijah   1
## 661               Port Eric   1
## 662          Port Erikhaven   1
## 663           Port Erinberg   1
## 664         Port Eugeneport   1
## 665         Port Georgebury   1
## 666            Port Gregory   1
## 667         Port Jacqueline   1
## 668      Port Jacquelinestad   1
## 669              Port James   1
## 670            Port Jasmine   1
## 671              Port Jason   2
## 672        Port Jefferybury   1
## 673           Port Jeffrey   1
## 674          Port Jennifer   1
## 675           Port Jessica   1
## 676       Port Jessicamouth   1
## 677              Port Jodi   1
## 678          Port Joshuafort   1
## 679               Port Juan   2
## 680              Port Julie   2
## 681          Port Karenfurt   1
## 682       Port Katelynview   1
## 683      Port Kathleenfort   1
## 684       Port Kevinborough   1
## 685          Port Lawrence   1
## 686              Port Maria   1
```

```
## 687          Port Mathew    1
## 688      Port Melissaberg    1
## 689      Port Melissastad    1
## 690      Port Michaelmouth    1
## 691      Port Michealburgh    1
## 692         Port Mitchell    1
## 693       Port Patrickton    1
## 694        Port Paultown    1
## 695          Port Rachel    1
## 696      Port Raymondfort    1
## 697           Port Robin    1
## 698       Port Sarahhaven    1
## 699       Port Sarahshire    1
## 700       Port Sherrystad    1
## 701          Port Stacey    1
## 702           Port Stacy    1
## 703           Port Susan    1
## 704     Port Whitneyhaven    1
## 705          Portermouth    1
## 706          Pottermouth    1
## 707           Princebury    1
## 708          Pruittmouth    1
## 709          Rachelhaven    1
## 710          Ramirezhaven    1
## 711          Ramirezland    1
## 712          Ramirezside    1
## 713          Ramirezton    1
## 714           Ramosstad    1
## 715         Randolphport    1
## 716           Randyshire    1
## 717         Rebeccamouth    1
## 718          Reginamouth    1
## 719         Reneechester    1
## 720           Reyesfurt    1
## 721           Reyesland    1
## 722        Rhondaborough    1
## 723         Richardshire    1
## 724         Richardsland    1
## 725       Richardsonland    1
## 726      Richardsonmouth    1
## 727      Richardsonshire    1
## 728       Richardsontown    1
## 729          Rickymouth    1
## 730           Riggsstad    1
## 731           Rivasland    1
## 732          Robertbury    1
## 733          Robertfurt    2
## 734         Robertmouth    1
```

```
## 735             Robertside    1
## 736         Robertsonburgh    1
## 737            Robertstown    1
## 738             Roberttown    1
## 739           Robinsonland    1
## 740           Robinsontown    1
## 741              Rochabury    1
## 742             Rogerburgh    1
## 743              Rogerland    1
## 744             Ronaldport    1
## 745            Ronniemouth    1
## 746           Russellville    1
## 747             Ryanhaven     1
## 748            Sabrinaview    1
## 749            Salazarbury    1
## 750          Samanthaland    1
## 751          Samuelborough    1
## 752            Sanchezland    1
## 753           Sanchezmouth    1
## 754            Sandersland    1
## 755            Sanderstown    1
## 756            Sandraland    1
## 757            Sandrashire    1
## 758            Sandraville    1
## 759               Sarafurt    1
## 760              Sarahland    1
## 761               Sarahton    1
## 762            Sellerstown    1
## 763             Shaneland    1
## 764              Sharpberg    1
## 765              Shawnside    1
## 766               Shawstad    1
## 767             Shelbyport    2
## 768            Sherrishire    1
## 769            Shirleyfort    1
## 770               Silvaton    1
## 771            Smithburgh     1
## 772             Smithside     1
## 773             Smithtown    1
## 774            South Aaron    1
## 775             South Adam    1
## 776        South Adamhaven    1
## 777    South Alexisborough    1
## 778        South Blakestad    1
## 779            South Brian    1
## 780        South Cathyfurt    1
## 781      South Christopher    1
## 782            South Corey    1
```

```
## 783       South Cynthiashire    1
## 784            South Daniel    1
## 785       South Daniellefort    1
## 786        South Davidhaven    1
## 787        South Davidmouth    1
## 788           South Denise    1
## 789        South Denisefurt    1
## 790        South Dianeshire    1
## 791           South George    1
## 792            South Henry    1
## 793        South Jackieberg    1
## 794            South Jade    1
## 795        South Jaimeview    1
## 796       South Jasminebury    1
## 797        South Jeanneport    1
## 798          South Jennifer    1
## 799           South Jessica    1
## 800            South John    1
## 801       South Johnnymouth    1
## 802            South Kyle    1
## 803         South Lauraton    1
## 804         South Lauratown    1
## 805            South Lisa    2
## 806          South Manuel    1
## 807        South Margaret    1
## 808            South Mark    1
## 809          South Meghan    1
## 810     South Meredithmouth    1
## 811          South Pamela    1
## 812       South Patrickfort    1
## 813           South Peter    1
## 814         South Rebecca    1
## 815           South Renee    1
## 816          South Robert    1
## 817          South Ronald    1
## 818      South Stephanieport    1
## 819       South Tiffanyton    1
## 820         South Tomside    1
## 821           South Troy    1
## 822    South Vincentchester    1
## 823          South Walter    1
## 824            Staceyfort    1
## 825         Stephenborough    1
## 826           Stewartbury    1
## 827           Suzannetown    1
## 828           Sylviaview    1
## 829           Tammymouth    1
## 830           Tammyshire    1
```

```
## 831            Taylorberg   1
## 832            Taylorhaven   1
## 833            Taylormouth   1
## 834             Taylorport   1
## 835            Teresahaven   1
## 836            Thomasstad    1
## 837             Thomasview   1
## 838            Timothyfurt   1
## 839           Timothymouth   1
## 840            Timothyport   1
## 841            Timothytown   1
## 842             Tinachester  1
## 843               Tinaton   1
## 844           Townsendfurt   1
## 845             Tracyhaven   1
## 846               Tranland   1
## 847              Troyville   1
## 848          Turnerchester   1
## 849             Turnerview   1
## 850            Turnerville   1
## 851             Tylerport    1
## 852             Valerieland  1
## 853            Vanessastad   1
## 854            Vanessaview   1
## 855         Villanuevastad  1
## 856          Villanuevaton   1
## 857              Wademouth   1
## 858               Wadestad   1
## 859          Wagnerchester   1
## 860         Wallacechester  1
## 861             Walshhaven   1
## 862             Waltertown   1
## 863             Watsonfort   1
## 864             Welchshire   1
## 865               Wendyton   1
## 866            Wendyville    1
## 867             West Alice   1
## 868            West Alyssa   1
## 869           West Amanda    2
## 870            West Andrew   1
## 871            West Angela   1
## 872        West Angelabury  1
## 873          West Annefort   1
## 874         West Aprilport  1
## 875          West Arielstad 1
## 876           West Barbara   1
## 877          West Benjamin   1
## 878             West Brad    1
```

```
## 879           West Brandonton      1
## 880              West Brenda       1
## 881           West Carmenfurt      1
## 882               West Casey       1
## 883         West Chloeborough      1
## 884          West Christopher      1
## 885               West Colin       1
## 886               West Connor      1
## 887             West Courtney      1
## 888          West Daleborough      1
## 889            West Dannyberg      1
## 890               West David       1
## 891               West Dennis      1
## 892           West Derekmouth      1
## 893            West Dylanberg      1
## 894           West Eduardotown     1
## 895             West Ericaport      1
## 896              West Ericfurt      1
## 897       West Gabriellamouth     1
## 898            West Gregburgh      1
## 899              West Guybury      1
## 900               West James       1
## 901                West Jane       1
## 902           West Jeremyside      1
## 903          West Jessicahaven     1
## 904                West Jodi       1
## 905              West Joseph       1
## 906               West Julia       1
## 907               West Justin      1
## 908            West Katiefurt      1
## 909            West Kevinfurt      1
## 910               West Lacey       1
## 911              West Leahton      1
## 912          West Lindseybury     1
## 913                West Lisa       1
## 914               West Lucas       1
## 915             West Mariafort      1
## 916           West Melaniefurt     1
## 917          West Melissashire     1
## 918           West Michaelhaven    1
## 919           West Michaelport     1
## 920          West Michaelshire     1
## 921           West Michaelstad     1
## 922              West Pamela       1
## 923               West Randy       1
## 924          West Raymondmouth    1
## 925          West Rhondamouth     1
## 926              West Ricardo      1
```

```
## 927             West Richard    1
## 928          West Robertside    1
## 929             West Roytown    1
## 930             West Russell    1
## 931                West Ryan    1
## 932            West Samantha    1
## 933             West Shannon    2
## 934              West Sharon    1
## 935               West Shaun    1
## 936              West Steven    2
## 937              West Sydney    1
## 938              West Tanner    1
## 939               West Tanya    1
## 940            West Terrifurt    1
## 941              West Thomas    1
## 942            West Tinashire    1
## 943         West Travismouth    1
## 944           West Wendyland    1
## 945             West William    1
## 946      West Zacharyborough    1
## 947                Westshire    1
## 948                Whiteport    1
## 949              Whitneyfort    1
## 950               Wilcoxport    1
## 951              Williammouth    1
## 952              Williamport    1
## 953          Williamsborough    1
## 954              Williamsfort    1
## 955             Williamsmouth    1
## 956              Williamsport    3
## 957              Williamsside    1
## 958              Williamstad    1
## 959              Wilsonburgh    1
## 960               Wintersfort    1
## 961                 Wongland    1
## 962               Wrightburgh    2
## 963               Wrightview    1
## 964                 Yangside    1
## 965               Youngburgh    1
## 966                Youngfort    1
## 967                    Yuton    1
## 968               Zacharystad    1
## 969                Zacharyton    1
```

Histograms

```
#histogram on the age distribution
hist(course$"Age", xlab = "Age", ylab = "frequency", main = "Age", col =
"blue")
```


Age
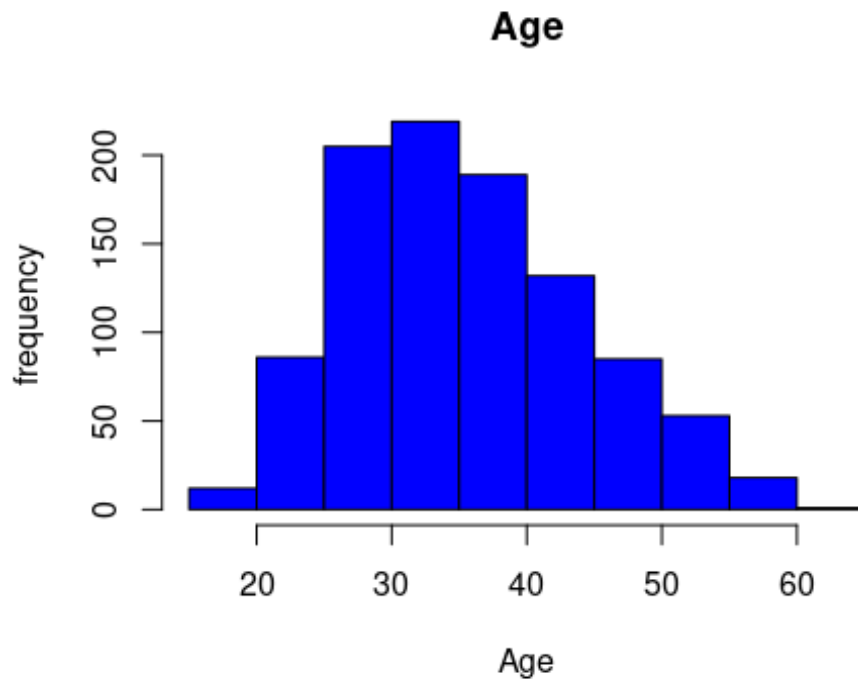
The age is slightly positively skewed, with most of the observed users being 25-35 of age
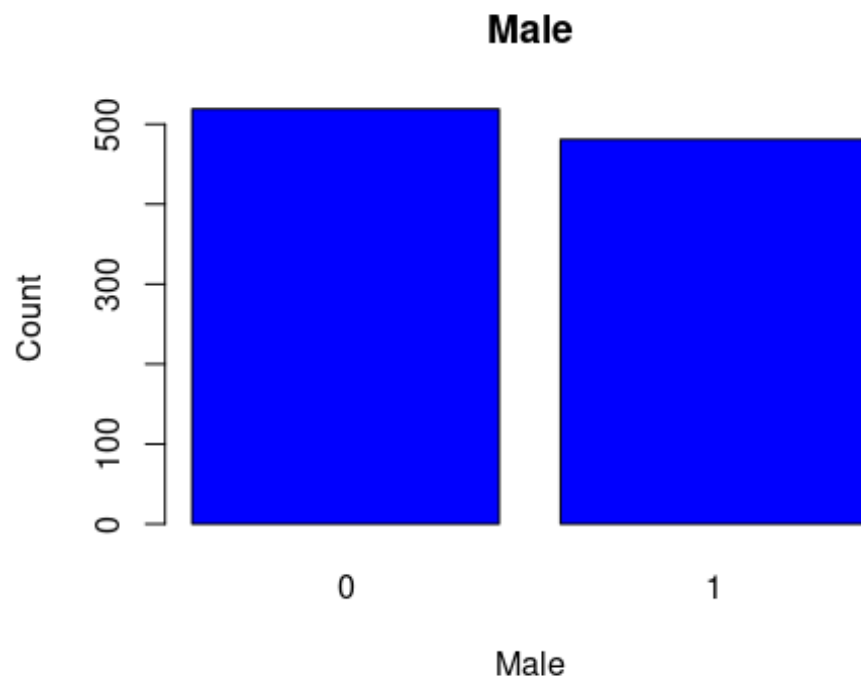
```
#histogram on the age distribution
hist(course$"Area.Income", xlab = "Area.Income", ylab = "frequency", main =
"Area.Income", col = "blue")
```

Area.Income
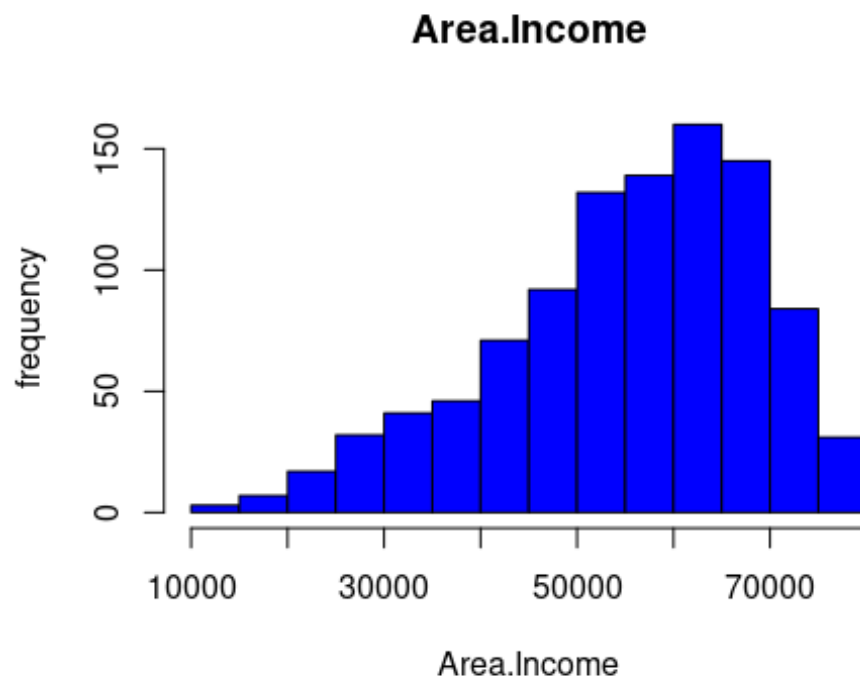
The age is negatively skewed, with most of the observed users being between 55,000 to 70,000

Bar Charts

```
# Plot the bar chart on  Male variable
plot(factor(course$"Male"), xlab="Male", ylab="Count", col="blue",
main="Male")
```

Male

Most of those who clicked are not male

```
# Plot the bar chart on  Male variable
plot(factor(course$"Clicked.on.Ad"), xlab="Clicked.on.Ad", ylab="Count",
col="blue", main="Clicked.on.Ad")
```
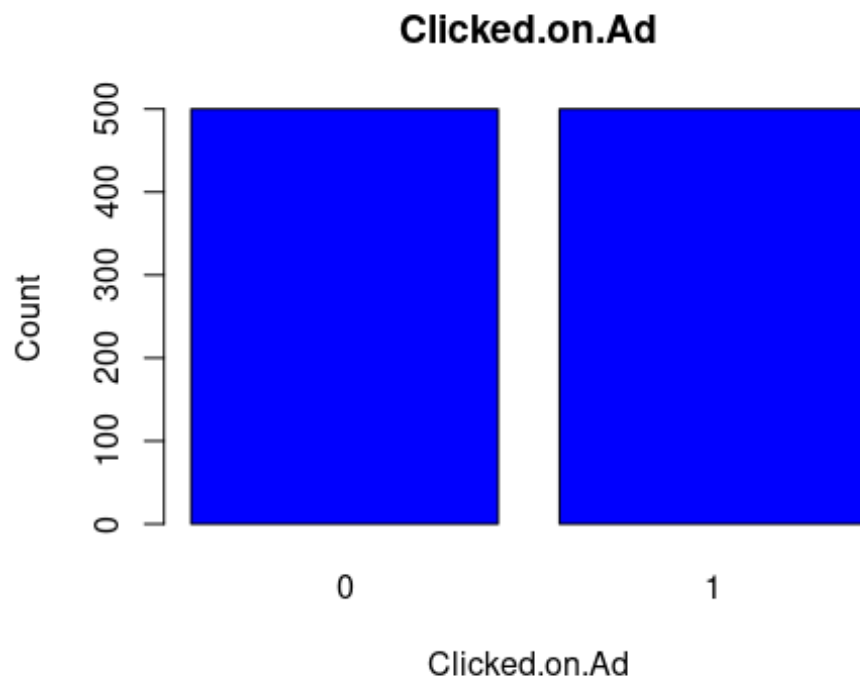
Clicked.on.Ad

The number of people who clicked on the ad is equal to the number of those who didn't click on the ad

```
# Plot the bar chart on  time spent on the site
time_spent<- table(course$"Daily.Time.Spent.on.Site")
barplot(head(sort(time_spent, decreasing = TRUE)),
xlab="Daily.Time.Spent.on.Site", ylab="frequency", col="blue",
main="Daily.Time.Spent.on.Site")
```

Daily.Time.Spent.on.Site
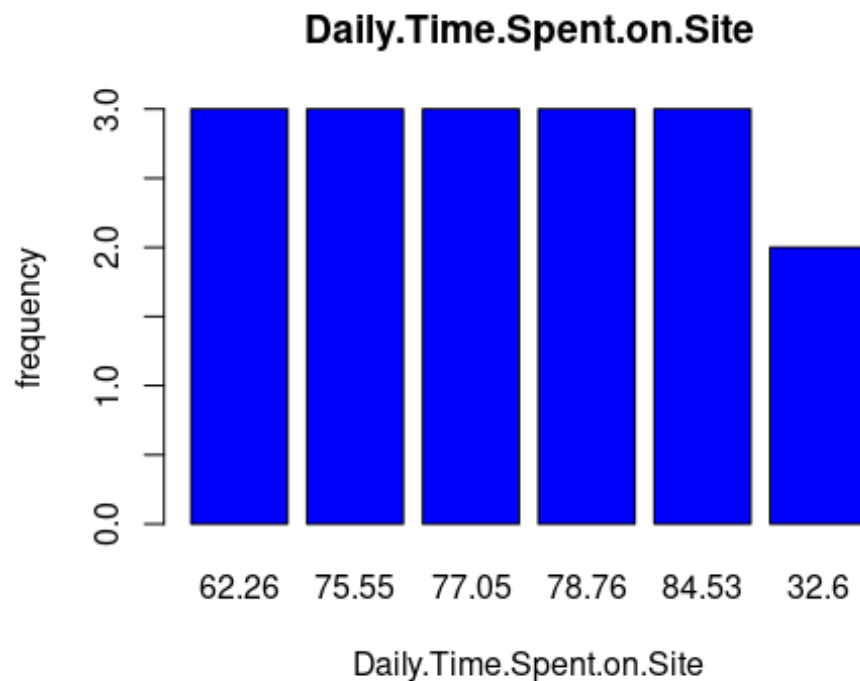
The maximum amount of time spent on the site is 62.6

Measures of Symmetry: Skewness and Kurtosis

```
# skewness
library(moments)
print("skewness")
```

```
## [1] "skewness"
```

```
skewness(course[,1:4])
```

```
## Daily.Time.Spent.on.Site                      Age              Area.Income
##               -0.37120261              0.47842268              -0.64939670
##     Daily.Internet.Usage
##               -0.03348703
```

Daily time spent on site is negatively skewed Area Income is negatively skewed Daily Internet Usage is negatively skewed Age distribution is moderately symmetrical

```
# kurtosis

print("kurtosis")
```

```
## [1] "kurtosis"
```

```
skewness(course[,1:4])
```

```
## Daily.Time.Spent.on.Site                          Age         Area.Income
##              -0.37120261                    0.47842268         -0.64939670
##      Daily.Internet.Usage
##              -0.03348703
```

Low kurtosis values means light tails indicating absence of outliers Area income has a higher value since there were outliers present

Bivariate Analysis

```
# Correlation matrix
cor(course[,1:4])
```

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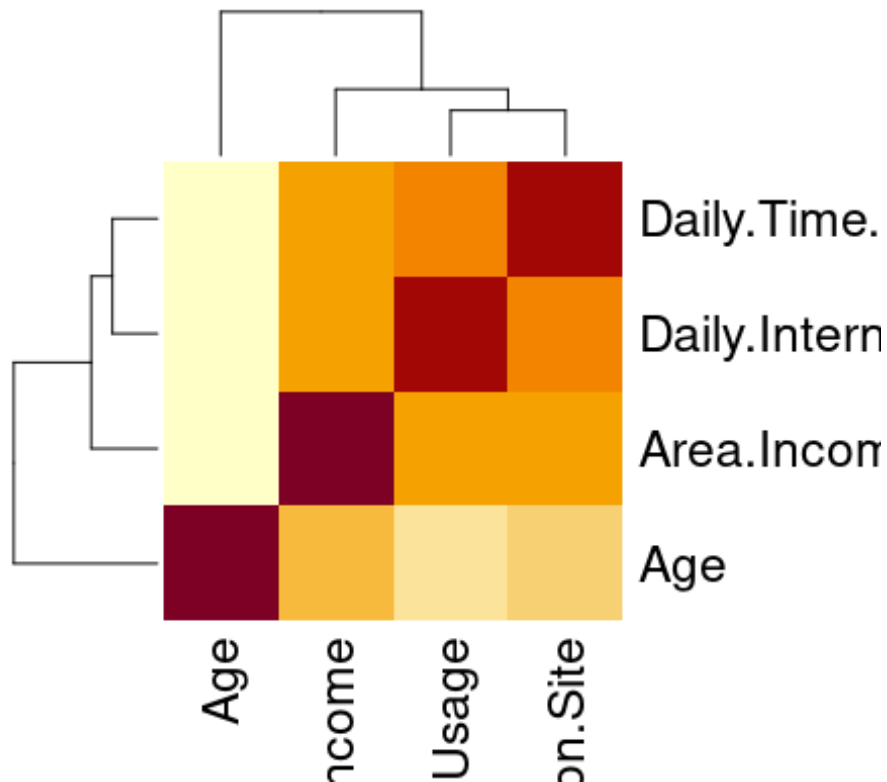
Plotting the results above

```
#scatter plot
plot(course[,1:4])
```
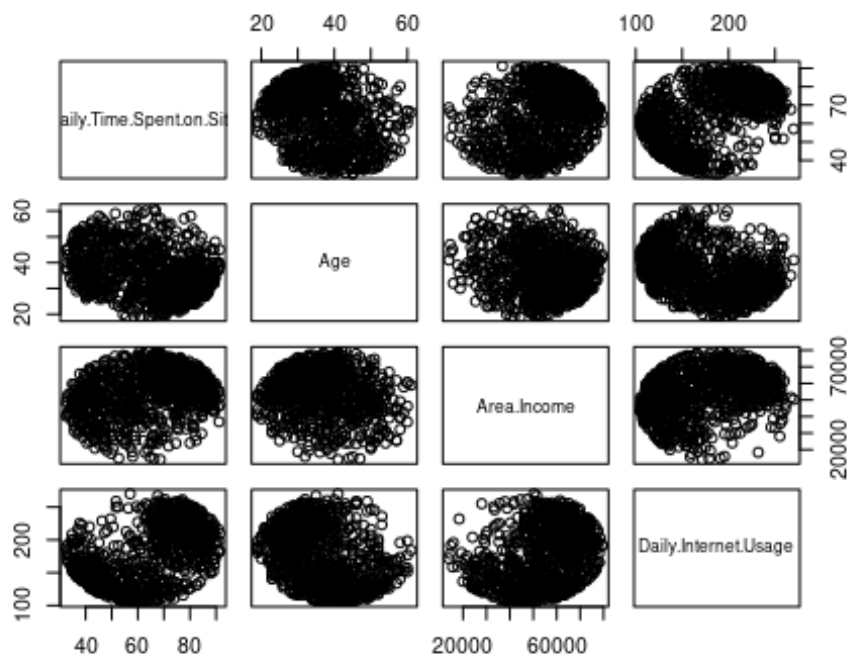
Heatmap

```
# heatmap
heatmap(cor(course[,1:4]))
```

Daily internet usage and daily time spent on site are positively correlated Daily internet usage and age have a weak negative correlation Area income and daily internet usage have a weak positive correlation

Conclusions and Recommendations

Conclusions

Daily internet usage affects daily time spent on site

The maximum amount of time spent on the site is 62.6

Most of those who clicked are not male most of the observed users had an income of between 55,000 to 70,000

Most of the observed users were between 25-35 of age

Recommendations

Ads should be customized to suite the demographic with the above characteristics in mind